

Participants Catalog CITIES of the FUTURE-H2020

Austria	GOLEM Integrated Microelectronics Solutions GMBH	16
	<b>Partner:</b> Novel intelligent digital transformation platform for Smart Cities and Communities + relevan RDI and prototyping	۱t
	<b>Coordinator:</b> High level modeling, nexus model linking and advanced ICT digital transformation environment supporting accelerated RDI	-
	Coordinator: Prototyping intelligent Factories of the Future and Industry 4 solutions	
Belgium	TuR&Bo (Turkish Business and Research Organisations)	19
	Partner: TuR&Bo	
Belgium	TURBO	20
Belgium	TURBO - Turkish Research and Business Organisations aisbl	22
5	Partner: FOF - 12 - 2017: ICT Innovation for Manufacturing SMEs (I4MS)	
Belgium	White Research	24
	Coordinator: Cities are the Future	
Cyprus	CYPRUS UNIVERSITY OF TECHNOLOGY	25
	Coordinator: PhD student	
France	CEA	26
	Partner: GASON ongoing H2020 program on natural gas depollution	
	Partner: catalytic converters for natural gaz, gazoline and diesel engines	
France	Computer Science Laboratory - University of Tours	27
	Partner: Tourism in the context of Smart Cities	
France	Holken Consultants & Partners	28
	Partner: Dissemination/communications partner and go-to-the market for innovations	
Germany	EDI GmbH - Engineering Data Intelligence	29
	<b>Partner:</b> German SME founded as a start-up from the Karlsruhe Institute of Technology (KIT) with stro connections to automobile manufacturers and supplieres	ng
Germany	IT Consult	30
	Project Management Services	
Greece	AiM Biomedical Engineering Lab	31
	Partner: extending the Smart City of the Future	
Greece	Aristotle Univeristy of Thessaloniki, Laboratory of Building Construction and Building Physics, Depar ment of Civil Engineering	rt- 32
	Partner: Energy and environmental upgrade of buildings and urban spaces	
Greece	NCSR "Demokritos"	34
	<b>Coordinator:</b> SPIRE-11-2017: Support for the enhancement of the impact of SPIRE PPP projects <b>Partner:</b> H2020 research collaboration	
	<b>Coordinator:</b> Converting CO2 into valuable chemicals with negative carbon footprint (Spire, NMBP 2016-2017)	
Greece	PLANET SA	36
	<b>Partner:</b> Proposal for the Call EB-08-2017 New business models for energy-efficient buildings through adaptable refurbishment solutions	۱
Greece	π-Technologies	39
	Coordinator: Su.R.Re.	
Hungary	Budapest Waterworks	40
	Coordinator: Water supply and sewage management in Budapest and surrounding settlements	
Hungary	Budapest Waterworks	41
	Partner: Water and wastewater solutions in the circular economy	
Hungary	Budapest Waterworks Plc.	42
	Coordinator: adviser	
Ireland	Insight Centre for Data Analytics - University College Cork	43
	Coordinator: Interested in investigating areas of cooperation where Insight can offer its data analytic	CS

	expertise to new proposals (as coordinator or as a partner)	
Ireland	Tyndall National Institute	45
	<b>Partner:</b> EEB-05-2017: Development of near zero energy building renovation/FoF-09-2017: Novel des and predictive maintenance technologies for increased operating life of production systems.	sign
Israel	Battery Switchy Ltd.	47
	<b>Coordinator:</b> GV-10-2017: Demonstration (pilots) for integration of electrified L-category vehicles in urban transport system	the
Israel	Terragenic Ltd.	48
	<b>Partner:</b> BoroHydride Synthesis for Safe & Cost-Competitive Hydrogen Fuel in Emissions-Free Transportation Applications	
Italy	COBASE Basic Technical Scientific Association (ECOSOC)	50
	<b>Coordinator:</b> Future cities for CCTs and SDGs <b>Coordinator:</b> Future Cities for CCTs and SDGs	
Italy	COBASE Basic Technical Scientific Association (ECOSOC)	52
	<b>Coordinator:</b> Future Cities for Climate Change Targets (CCTs) and Sustainable Development Goals (SDGs)	
Italy	EasyLumen SRL	54
	Partner: Smart cities through smart lighting	
Italy	Ianus Consulting and Development Srl	56
	Partner: Smart Cities and Communities	
Italy	Ianus Consulting and Development srl	57
	Partner: Smart Cities and Communities	
Italy	Italian Development Cooperation Agency	58
Italy	LAB. INNTECH SRL	59
	<b>Coordinator:</b> INTEGRATED SYSTEM OF ELECTRIC MOBILITY INDEPENDENT THROUGH ROUTE SUSPENED	D-
Italy	NECTAWARE S.r.I.	61
	<b>Coordinator:</b> Predictive energy demand SW as key activation factor for storage systems inside renerable energy generators (i.e. solar photovoltaic).	W-
Italy	R2M Solution	63
	<b>Coordinator:</b> Looking for breakthrough technologies and residential pilot for EeB05 proposal <b>Partner:</b> Exploitation Manager for innovation projects	
Italy	TENDER	65
	Partner: Exploiting local Cultural Heritage for Sustainable Growth	
Italy	Umberto Pernice	66
	Partner: Business innovation model for nature-based solutions	
Latvia	University of Latvia	68
M-lt-	Coordinator: Interplay: Smart Cities and Knowledge Society	60
Malta	Equinox Advisory Ltd. Partner: Your Malta Partner for Projects In Social Sciences, Infrastructure and Education	69
Malta	UNIVERSITY OF MALTA	71
Montenegro	Agricultural cooperative "Gradac" Partner: Seeking consortia in agro food sector and rural development	72
Netherland	s Wansdronk Architektuur	74
Acticitatios	Partner: Emporium	74
Norway	Norwegian University of Science and Technolgy	76
normay	Partner: waste to raw	70
Poland	Ekoenergetyka-Polska sp. z o.o.	77
	Partner: High power chargers for high power driving	

Poland	Hi-Tech Consultants	78
	Partner: Project Management Services	
Poland	International Institute of Visual Art LTD	80
	<b>Coordinator:</b> Implementation of an innovative e-service and development of regional laboratories works, dedicated for digitization and sales of certified 3D printing of cultural goods with biometric mation of the authenticity.	
Serbia	Association Vezirac 1716	82
	Coordinator: Chairman	
Spain	AIMPLAS	83
	<ul> <li>Partner: cooperation in heating systems and energy efficient retrofitting buildings.</li> <li>Partner: cooperation in Wireless Induction Charging for on-Road Electric Vehicles.</li> <li>Partner: New materials and coatings for automotive industry, included recycled and biobased pla materials.</li> <li>Coordinator: New product functionalities through advanced surface manufacturing processes for production</li> </ul>	
Spain	Heat and Mass Transfer Technological Center (CTTC) / Universitat Politècnica de Catalunya-Barce ch (UPC)	lonaTe- 85
	<b>Partner:</b> Computational fluid dynamics and heat transfer (CFD&HT) expertise with emphasis on a tive and aeronautical applications <b>Partner:</b> Detailed building performance simulation expertise	utomo-
Spain	OPENTIX SL	88
	<b>Partner:</b> Technical partner for IT applied solution <b>Coordinator:</b> YELLYNET - sustainable urban mobility SaaS	
Turkey	151 Advisors	90
	Partner: 151 Advisors	
Turkey	ACTUATE INOVATION AND INFORMATION TECHNOLOGIES	91
Turkey	Actuate Inovation and Information Technologies	92
Turkey Turkey	Actuate Inovation and Information Technologies Adana Metropolitan Municipality	92 93
Turkey	-	
-	Adana Metropolitan Municipality	93 94
Turkey	Adana Metropolitan Municipality         AF Consult-Turkey         Partner: Seeking Partnership for Project Development and Execution in the Areas of Smart Cities,	93 94
Turkey Turkey	Adana Metropolitan Municipality AF Consult-Turkey Partner: Seeking Partnership for Project Development and Execution in the Areas of Smart Cities, gy ,	<b>93</b> <b>94</b> Ener-
Turkey Turkey	Adana Metropolitan Municipality         AF Consult-Turkey         Partner: Seeking Partnership for Project Development and Execution in the Areas of Smart Cities, gy ,         AF Mercados EMI	<b>93</b> <b>94</b> Ener-
Turkey Turkey Turkey	Adana Metropolitan Municipality         AF Consult-Turkey         Partner: Seeking Partnership for Project Development and Execution in the Areas of Smart Cities, gy ,         AF Mercados EMI         Partner: Technical Analysis and Project Development for Smart Cities and Utilities	93 94 Ener- 96
Turkey Turkey Turkey	Adana Metropolitan Municipality         AF Consult-Turkey         Partner: Seeking Partnership for Project Development and Execution in the Areas of Smart Cities, gy ,         AF Mercados EMI         Partner: Technical Analysis and Project Development for Smart Cities and Utilities         AF Mercados EMI	93 94 Ener- 96
Turkey Turkey Turkey Turkey	Adana Metropolitan Municipality         AF Consult-Turkey         Partner: Seeking Partnership for Project Development and Execution in the Areas of Smart Cities, gy ,         AF Mercados EMI         Partner: Technical Analysis and Project Development for Smart Cities and Utilities         AF Mercados EMI         Partner: Technical Analysis and Project Development for Smart Cities and Utilities	93 94 Ener- 96 98
Turkey Turkey Turkey Turkey	Adana Metropolitan Municipality         AF Consult-Turkey         Partner: Seeking Partnership for Project Development and Execution in the Areas of Smart Cities, gy ,         AF Mercados EMI         Partner: Technical Analysis and Project Development for Smart Cities and Utilities         AF Mercados EMI         Partner: Technical Analysis and Project Development for Smart Cities and Utilities         AF Mercados EMI         Partner: Technical Analysis and Project Development for Smart Cities and Utilities         AF Mercados EMI	93 94 Ener- 96 98
Turkey Turkey Turkey Turkey Turkey	<ul> <li>Adana Metropolitan Municipality</li> <li>AF Consult-Turkey</li> <li>Partner: Seeking Partnership for Project Development and Execution in the Areas of Smart Cities, gy ,</li> <li>AF Mercados EMI</li> <li>Partner: Technical Analysis and Project Development for Smart Cities and Utilities</li> <li>AF Mercados EMI</li> <li>Partner: Technical Analysis and Project Development for Smart Cities and Utilities</li> <li>AF Mercados EMI</li> <li>Partner: Technical Analysis and Project Development for Smart Cities and Utilities</li> <li>AF Mercados EMI</li> <li>Partner: Technical Analysis and Project Development for Smart Cities and Utilities</li> </ul>	93 94 Ener- 96 98 100
Turkey Turkey Turkey Turkey Turkey	<ul> <li>Adana Metropolitan Municipality</li> <li>AF Consult-Turkey</li> <li>Partner: Seeking Partnership for Project Development and Execution in the Areas of Smart Cities, gy ,</li> <li>AF Mercados EMI</li> <li>Partner: Technical Analysis and Project Development for Smart Cities and Utilities</li> <li>AF Mercados EMI</li> <li>Partner: Technical Analysis and Project Development for Smart Cities and Utilities</li> <li>AF Mercados EMI</li> <li>Partner: Technical Analysis and Project Development for Smart Cities and Utilities</li> <li>AF Mercados EMI</li> <li>Partner: Technical Analysis and Project Development for Smart Cities and Utilities</li> <li>AF Mercados EMI</li> <li>Partner: Technical Analysis and Project Development for Smart Cities and Utilities</li> <li>AF Mercados EMI</li> <li>Partner: Technical Analysis and Project Development for Smart Cities and Utilities</li> </ul>	93 94 Ener- 96 98 100
Turkey Turkey Turkey Turkey Turkey	Adana Metropolitan Municipality         AF Consult-Turkey         Partner: Seeking Partnership for Project Development and Execution in the Areas of Smart Cities, gy ,         AF Mercados EMI         Partner: Technical Analysis and Project Development for Smart Cities and Utilities         AF Mercados EMI         Partner: Technical Analysis and Project Development for Smart Cities and Utilities         AF Mercados EMI         Partner: Technical Analysis and Project Development for Smart Cities and Utilities         AF Mercados EMI         Partner: Technical Analysis and Project Development for Smart Cities and Utilities         AF Mercados EMI         Partner: Technical Analysis and Project Development for Smart Cities and Utilities         AF Turkey         Partner: AF Turkey         Akay Industries Mining Export Co         Coordinator: Hydralic lime, less CO2, efficient ancient mortars suistainable by time, insulation of gy,         Coordinator: Hydralic lime, less CO2, efficient ancient mortars suistainable by time, insulation of gy,	93 94 Ener- 96 98 100 102 104 ener-
Turkey Turkey Turkey Turkey Turkey Turkey	Adana Metropolitan Municipality         AF Consult-Turkey         Partner: Seeking Partnership for Project Development and Execution in the Areas of Smart Cities, gy ,         AF Mercados EMI         Partner: Technical Analysis and Project Development for Smart Cities and Utilities         AF Mercados EMI         Partner: Technical Analysis and Project Development for Smart Cities and Utilities         AF Mercados EMI         Partner: Technical Analysis and Project Development for Smart Cities and Utilities         AF Mercados EMI         Partner: Technical Analysis and Project Development for Smart Cities and Utilities         AF Mercados EMI         Partner: Technical Analysis and Project Development for Smart Cities and Utilities         AF Mercados EMI         Partner: Technical Analysis and Project Development for Smart Cities and Utilities         AF Turkey         Partner: AF Turkey         Akay Industries Mining Export Co         Coordinator: Hydralic lime, less CO2, efficient ancient mortars suistainable by time, insulation of gy,         Coordinator: Hydralic lime, less CO2, efficient ancient mortars suistainable by time, insulation of gy,	93 94 Ener- 96 98 100 102 ener- ener-
Turkey Turkey Turkey Turkey Turkey	<ul> <li>Adana Metropolitan Municipality</li> <li>AF Consult-Turkey</li> <li>Partner: Seeking Partnership for Project Development and Execution in the Areas of Smart Cities, gy</li> <li>AF Mercados EMI</li> <li>Partner: Technical Analysis and Project Development for Smart Cities and Utilities</li> <li>AF Mercados EMI</li> <li>Partner: Technical Analysis and Project Development for Smart Cities and Utilities</li> <li>AF Mercados EMI</li> <li>Partner: Technical Analysis and Project Development for Smart Cities and Utilities</li> <li>AF Mercados EMI</li> <li>Partner: Technical Analysis and Project Development for Smart Cities and Utilities</li> <li>AF Mercados EMI</li> <li>Partner: Technical Analysis and Project Development for Smart Cities and Utilities</li> <li>AF Mercados EMI</li> <li>Partner: Technical Analysis and Project Development for Smart Cities and Utilities</li> <li>AF Mercados EMI</li> <li>Partner: Technical Analysis and Project Development for Smart Cities and Utilities</li> <li>AF Mercados EMI</li> <li>Partner: AF Turkey</li> <li>Akay Industries Mining Export Co</li> <li>Coordinator: Hydralic lime, less CO2, efficient ancient mortars suistainable by time, insulation of gy,</li> <li>Coordinator: Hydralic lime, less CO2, efficient ancient mortars suistainable by time, insulation of gy,</li> <li>AKG GAZBETON</li> </ul>	93 94 Ener- 96 98 100 102 104 ener-
Turkey Turkey Turkey Turkey Turkey Turkey Turkey	Adana Metropolitan Municipality         AF Consult-Turkey         Partner: Seeking Partnership for Project Development and Execution in the Areas of Smart Cities, gy ,         AF Mercados EMI         Partner: Technical Analysis and Project Development for Smart Cities and Utilities         AF Mercados EMI         Partner: Technical Analysis and Project Development for Smart Cities and Utilities         AF Mercados EMI         Partner: Technical Analysis and Project Development for Smart Cities and Utilities         AF Mercados EMI         Partner: Technical Analysis and Project Development for Smart Cities and Utilities         AF Turkey         Partner: Technical Analysis and Project Development for Smart Cities and Utilities         AF Turkey         Partner: AF Turkey         Akay Industries Mining Export Co         Coordinator: Hydralic lime, less CO2, efficient ancient mortars suistainable by time, insulation of gy,         Coordinator: Hydralic lime, less CO2, efficient ancient mortars suistainable by time, insulation of gy,         AKG GAZBETON         Partner: ENERGY EFFICIENT BUILDING MATERIALS AND PRODUCTION PROCESS	93 94 Ener- 96 98 100 102 ener- ener-
Turkey Turkey Turkey Turkey Turkey Turkey	Adana Metropolitan Municipality         AF Consult-Turkey         Partner: Seeking Partnership for Project Development and Execution in the Areas of Smart Cities, gy ,         AF Mercados EMI         Partner: Technical Analysis and Project Development for Smart Cities and Utilities         AF Mercados EMI         Partner: Technical Analysis and Project Development for Smart Cities and Utilities         AF Mercados EMI         Partner: Technical Analysis and Project Development for Smart Cities and Utilities         AF Mercados EMI         Partner: Technical Analysis and Project Development for Smart Cities and Utilities         AF Mercados EMI         Partner: Technical Analysis and Project Development for Smart Cities and Utilities         AF Turkey         Partner: AF Turkey         Akay Industries Mining Export Co         Coordinator: Hydralic lime, less CO2, efficient ancient mortars suistainable by time, insulation of gy,         Coordinator: Hydralic lime, less CO2, efficient ancient mortars suistainable by time, insulation of gy,         AKG GAZBETON         Partner: ENERGY EFFICIENT BUILDING MATERIALS AND PRODUCTION PROCESS         AKG GAZBETON	93 94 Ener- 96 98 100 102 ener- ener-
Turkey Turkey Turkey Turkey Turkey Turkey Turkey Turkey Turkey	Adana Metropolitan Municipality         AF Consult-Turkey         Partner: Seeking Partnership for Project Development and Execution in the Areas of Smart Cities, gy ,         AF Mercados EMI         Partner: Technical Analysis and Project Development for Smart Cities and Utilities         AF Mercados EMI         Partner: Technical Analysis and Project Development for Smart Cities and Utilities         AF Mercados EMI         Partner: Technical Analysis and Project Development for Smart Cities and Utilities         AF Mercados EMI         Partner: Technical Analysis and Project Development for Smart Cities and Utilities         AF Turkey         Partner: Technical Analysis and Project Development for Smart Cities and Utilities         AF Turkey         Partner: AF Turkey         Akay Industries Mining Export Co         Coordinator: Hydralic lime, less CO2, efficient ancient mortars suistainable by time, insulation of gy,         Coordinator: Hydralic lime, less CO2, efficient ancient mortars suistainable by time, insulation of gy,         AKG GAZBETON         Partner: ENERGY EFFICIENT BUILDING MATERIALS AND PRODUCTION PROCESS	93 94 Ener- 96 98 100 102 ener- ener-
Turkey Turkey Turkey Turkey Turkey Turkey Turkey	Adana Metropolitan Municipality         AF Consult-Turkey         Partner: Seeking Partnership for Project Development and Execution in the Areas of Smart Cities, gy         AF Mercados EMI         Partner: Technical Analysis and Project Development for Smart Cities and Utilities         AF Mercados EMI         Partner: Technical Analysis and Project Development for Smart Cities and Utilities         AF Mercados EMI         Partner: Technical Analysis and Project Development for Smart Cities and Utilities         AF Mercados EMI         Partner: Technical Analysis and Project Development for Smart Cities and Utilities         AF Mercados EMI         Partner: Technical Analysis and Project Development for Smart Cities and Utilities         AF Mercados EMI         Partner: Technical Analysis and Project Development for Smart Cities and Utilities         AF Turkey         Partner: AF Turkey         Akay Industries Mining Export Co         Coordinator: Hydralic lime, less CO2, efficient ancient mortars suistainable by time, insulation of gy,         Coordinator: Hydralic lime, less CO2, efficient ancient mortars suistainable by time, insulation of gy,         AKG GAZBETON         Partner: ENERGY EFFICIENT BUILDING MATERIALS AND PRODUCTION PROCESS         AKG GAZBETON         Partner: ENERGY EFFICIENT BUILDING MATERIALS AND PRODUCTION PROCESS	93 94 Ener- 96 98 100 102 ener- ener- 107

Turkey	AKSARAY UNIVERSITY	113
	<b>Partner:</b> Quantitative and Qualitative Assessment of Na-montmorillonitic Clays in Samples Acquir from Selected Clay Deposits of Turkey and Their Usability as Nano-Filler Material	red
Turkey	ALCOR ENERGY CONTRACTING JSC	115
	<b>Coordinator:</b> Request for Partnership for H2020 Calls (EE-04-2016-2017, EE-22-2016-2017, SME- Instrument Phase 2 and other (exergy) efficiency and energy calls on RIA Actions)	2 SME
Turkey	Anadolu Isuzu	117
	Partner: Anadolu Isuzu Design Office	
Turkey	ANADOLU ISUZU	118
	Partner: Anadolu Isuzu Design Office	
Turkey	Anadolu Isuzu	119
	Partner: Innovation, Smartcity	
Turkey	Anadolu Isuzu	120
Turkey	Anadolu ISUZU Automotive	121
	Partner: Commercial Electric Vehicles	
Turkey	Anadolu ISUZU Automotive	122
Turkey	Anadolu ISUZU Automotive	123
Turkey	Anadolu University	124
-	Partner: Researcher	
Turkey	Anadolu University - ARINKOM TTO	125
	Partner: Smart and Sustainable Cities and Energy Efficient Buildings Calls	
Turkey	Arember Bilişim Otomasyon San.Tic. Ltd.Şti.	127
	Partner: Discover the manufacturing	
Turkey	ARÇELİK AŞ	129
Turkey	ARÇELİK AŞ	130
-	Partner: FoF	
Turkey	Arçelik A.Ş	131
Turkey	Arçelik A.Ş	132
Turkey	Arçelik A.Ş.	133
Turkey		134
_		
Turkey	AUGMEA SIMULATION TECHNOLOGIES INC.	135
	<b>Partner:</b> Simulation Technologies, Virtual Reality, Virtual Prototyping Smart and Sustainable Cities 'Energy Efficient Buildings	s' and
	<b>Partner:</b> Simulation Technologies, Virtual Reality, Virtual Prototyping - The European Green Vehicl	es Ini-
	tiative	
	Partner: Simulation Technologies, Virtual Reality, Virtual Prototyping - Factories of The Future	
Turkey	AYVOS Bilgi Teknolojileri Yazilim Otomasyon Sistemleri San. ve Tic. A.S.	137
	Partner: We are AYVOS here for : Image Processing Based Operational & Productional Systems	
Turkey	Bahcesehir University	139
	Coordinator: Electrified urban commercial vehicles integration with fast charging infrastructure	
Turkey	Balıkesir Edremit Municipality-Edremit Belediyesi	141
	Partner: Reneawable Energy citizen cooperative	
Turkey	Balıkesir University	142
	Partner: nearly zero enery buildings, energy-efficiency analysis, energy efficient retrofitting	
Turkey	Baran Ungan	143
Turkey	Baskent University	144
	<b>Partner:</b> DEVELOPMENT AND APPLICATION OF SECOND-GENERATION SOLAR PV AND THERMAL IN DENCES	RESI-

Partner: DEVELOPMENT AND APPLICATION OF DOMESTIC BIOGAS PRODUCTION TECHNOLOGY (ECO-<br/>SAN) AND USE IN DOMESTIC COGENERATION SYSTEMTurkeyBilkent University145TurkeyBogazici University147TurkeyBogazici University149TurkeyBor Software A S151

Turkey	bor Software A.S.	TOT
Turkey	Bozankaya Otomotiv A.S.	152
Turkey	Corvus Bilişim	154
	Corvus Bilisim	
Turkey	DATARAPHIC Information Technologies	155
	Partner: Expertise in algorithms tools for Smart Energy Management and Predictive Analytics	
Turkey	debuIST architecture	157
	Partner: Energy Efficient Buildings	
Turkey	Demir Enerji	158
	Partner: Smart Cities	
Turkey	Demir Enerji Danışmanlık	160
	Partner: Smart Cities and Energy Efficient Buildings	
Turkey	Demir Enerji Danışmanlık	162
	Partner: Smart Cities and Energy Efficient Buildings	
Turkey	Dermoda Deri Tekstil Konf.Araş.Danışmanlık Tic.Ltd.Şti.San	163
Turkey	Eczacıbaşı Building Products Division Innovation Center	164
Turkey	Eczacıbaşı Building Products Division Innovation Center	166
Turkey	EGE UNIVERSITY	168
	Partner: Behavior modeling	
Turkey	Ege University	169
	Partner: Cultural heritage in landscape planning	
Turkey	EGE UNİVERSITY	170

**Partner:** PF/ EU - ee-wise Project: Energy Efficiency Knowledge Transfer Framework for Building Retroffiting in the Mediterranean Area

**Partner:** HIT2GAP Highly Innovative building control Tools Tackling the energy performance GAP Call H2020-EeB-2015 New tools and methodologies to reduce the gap between predicted and actual energy performances at the level of buildings and blocks of buildings

**Partner:** H2020 Project - 'Train-to-NZEB: The Building Knowledge Hubs — Train-to-NZEB' (Nearly Zero Energy Buildings)

Turkey	Ekodenge AŞ	171
Turkey	Ekomim Ecologic Architectural Services	172
	Partner: Energy-Efficiency analysis, Energy saving cunsultancy, Sustainable development	
Turkey	ELDER-Association of Electricity Distribution System Operators	174
Turkey	ELEKTRONET A.Ş.	175
	Partner: Smart City, Smart Transportation, IoT, Finance, Software, Industry 4.0, Ticketing Systems	
Turkey	Eliar Elektronik San. A.S	177
Turkey	Eliar Elektronik San. A.Ş.	178
Turkey	Elkon Elektrik Sanayi ve Ticaret A.S.	179
	Partner: Electrical System Integrator	
Turkey	EMKO ELEKTRONIK AS	180
	Coordinator: WEB Management Platform for Distributed Shop Floors	
Turkey	Energon Energy Efficiency Consultancy	181

Energon Energy Efficiency Consultancy / Beneficiary of REMOURBAN (grant agreement No 646511)

Turkey	ENOCTA e-Learning Technologies	183
Turkey	ENVE ENERJİ	184
-	Coordinator: Energy Efficiency Audits/Engineering	
Turkey	Ericsson Turkey	187
Turkey	ESG Turkey Consultancy	188
	Partner: Sustainable Strategy & Business Development Partner: Sustainable Cities	
Turkey	Etkin Proje	192
Turkey	Etkin Proje	193
Turkey	Eşarj Elektrikli Araçlar Şarj Sistemleri AŞ	194
	Partner: Expanding Electric Vehicle Charging Infrastructure	
Turkey	Eşarj Elektrikli Araçlar Şarj Sistemleri AŞ	195
	Partner: Expanding Electric Vehicle Charging Infrastructure	
Turkey	FEV TR Otomotiv ve Enerji Araştırma ve Mühendislik Ltd. Şti.	196
	<ul> <li>Partner: GV-01-2017: Optimisation of heavy duty vehicles for alternative fuels use</li> <li>Partner: GV-04-2017 (RIA) Next generation electric drivetrains for fully electric vehicles, focusing on high efficiency and low cost</li> <li>Partner: GV-05-2017 (RIA) Electric vehicle user-centric design for optimised energy efficiency</li> <li>Partner: GV-06-2017(IA) Physical integration of hybrid and electric vehicle batteries at pack level air at increased energy density &amp; efficiency</li> <li>Partner: GV-07-2017 (RIA) Multi-level modelling and testing of electric vehicles and their component</li> <li>Partner: GV-08-2017 (IA) Electrified urban commercial vehicles integration with fast charging infrast ture</li> <li>Partner: GV-10-2017 (IA) Demonstration (pilots) for integration of electrified L-category vehicles in t urban transport system</li> </ul>	ming ts truc-
Turkey	FEV TR Otomotiv ve Enerji Araştırma ve Mühendislik Ltd. Şti.	198
Turkey	Footprint&Sustainability Society (Ayakizi ve Sürdürülebilirlik Derneği)	199
	<b>Partner:</b> Seeking partnership and sponsors with our recent projects related with energy efficient builings and education programs.	ld-
Turkey	FORD OTOSAN	201
	<b>Partner:</b> We are looking for reliable partners for, not necessarily limited to below mentioned calls(Ur versities, SMEs, OEMs and Tier1s as solution development partners)	ıi-
Turkey	Ford Otosan	203
Turkey	Ford Otosan	204
	Dartnery Acredynamic and Elevible Trucks	
Turkey	Partner: Aerodynamic and Flexible Trucks	
	GEBZE ORGANIZED INDUSTRIAL ZONE (GOSB)	206
Turkey	-	206 207
Turkey Turkey	GEBZE ORGANIZED INDUSTRIAL ZONE (GOSB)	
-	GEBZE ORGANIZED INDUSTRIAL ZONE (GOSB) GEBZE TECHNICAL UNIVERSITY	207
-	GEBZE ORGANIZED INDUSTRIAL ZONE (GOSB)         GEBZE TECHNICAL UNIVERSITY         GERSAN ELEKTRIK TIC. ve SAN. A.Ş.         Partner: EVSE MANUFACTURER         Partner: LED SYSTEMS	207
Turkey	GEBZE ORGANIZED INDUSTRIAL ZONE (GOSB) GEBZE TECHNICAL UNIVERSITY GERSAN ELEKTRIK TIC. ve SAN. A.Ş. Partner: EVSE MANUFACTURER Partner: LED SYSTEMS Partner: POWER LINE AUTOMATION SYSTEMS	207
Turkey	GEBZE ORGANIZED INDUSTRIAL ZONE (GOSB)         GEBZE TECHNICAL UNIVERSITY         GERSAN ELEKTRİK TİC. ve SAN. A.Ş.         Partner: EVSE MANUFACTURER         Partner: LED SYSTEMS         Partner: POWER LINE AUTOMATION SYSTEMS         GOKSER MAKINA SAN TIC LTD STI	207
Turkey Turkey	GEBZE ORGANIZED INDUSTRIAL ZONE (GOSB)         GEBZE TECHNICAL UNIVERSITY         GERSAN ELEKTRIK TIC. ve SAN. A.Ş.         Partner: EVSE MANUFACTURER         Partner: LED SYSTEMS         Partner: POWER LINE AUTOMATION SYSTEMS         GOKSER MAKINA SAN TIC LTD STI         Partner: climatisation systems with renewable energy/energy efficient buildings	207 208 210 211
Turkey Turkey	GEBZE ORGANIZED INDUSTRIAL ZONE (GOSB)         GEBZE TECHNICAL UNIVERSITY         GERSAN ELEKTRIK TİC. ve SAN. A.Ş.         Partner: EVSE MANUFACTURER         Partner: LED SYSTEMS         Partner: POWER LINE AUTOMATION SYSTEMS         GOKSER MAKINA SAN TIC LTD STI         Partner: climatisation systems with renewable energy/energy efficient buildings         Güney Ege Kalkınma Ajansı (GEKA)         Coordinator: We are looking for potential partners to join consortium to work together on a proposa	207 208 210 211

Turkey	HAVELSAN INC.	214
	Coordinator: HAVELSAN	
Turkey	HEXAGON STUDIO	216
Turkey	HEXAGON STUDIO	218
Turkey	HEXAGON STUDIO	220
Turkey	HISBIM	222
	Partner: We are looking project idea.	
Turkey	IETT	224
Turkey	IMU	225
	SUSTAINABILITY IN THE BUILT ENVIRONMENT	
Turkey	Individual Consultant	226
	Partner: interested to work in projects related to green buildings or green industries	
Turkey	infoTRON A.S.	227
Turkey	Invest in Turkey	228
Turkey	Istac	229
Turkey	istanbul büyükşehir belediyesi (istanbl metropolitan municipality)	231
Turkey	Istanbul Gedik University	232
	Partner: Looking for cooperation in research projects	
Turkey	Istanbul Kultur University	234
	Partner: Smart and Sustainable Cities and Energy Efficient Buildings	
	Partner: Cultural Heritage as driver for sustainable growth	
Turkey	Istanbul Kultur University	236
	<b>Partner:</b> Smart and Sustainable Cities and Energy Efficient Buildings, Cultural Heritage as driver tainable growth	ior sus-
Turkey	Istanbul Kultur University	238
	Partner: Smart and Sustainable Cities and Energy Efficient Buildings	
Turkey	Istanbul Kultur University	240
	Partner: Smart and Sustainable Cities and Energy Efficient Buildings	
Turkey	Istanbul Metropolitan Municipality	242
Turkey	istanbul metropolitan municipality	243
	Partner: searching for new project consortiums	
Turkey	ISTANBUL METROPOLITAN MUNICIPALITY	245
Turkey	ISTANBUL METROPOLITAN MUNICIPALITY	246
Turkey	Istanbul Metropolitan Municipality	247
	Partner: .	
Turkey	Istanbul Metropolitan Municipality	249
Turkey	istanbul metropolitan municipality	251
Turkey	Istanbul Sehir University	252
	Partner: Systems Analysis for Sustainability	
Turkey	Istanbul Sehir University	254
Turkey	Istanbul Sehir University	255
	Partner: Sustainable Systems Analysis	
Turkey	Istanbul Technical University	257
Turkey	Istanbul Technical University	259
Turkey	Istanbul Technical University	260

Turkey	Istanbul Technical University	261
	Partner: Energy Efficient Building Design, Renewable integratiom, BIM application, retrofitting	
Turkey	Istanbul Technical University, Building Materials Laboratory and Infrastructure Materials Laborat	ory 262
Turkey	Istanbul University	264
	Partner: Nanotechnology for future green biomaterials	
Turkey	istanbul University	265
Turkey	Kadir Has University	266
Turkey	Kadir Has University	268
	Partner: Interest to participate in a consortium: Smart data processing for Big Data	
Turkey	Kadir Has University Life Long Learning Center Real Estate Development Academy	269
	Partner: Sustainable Settlements & Energy Efficient Buildings Benchmark Project	0.74
Turkey	Kahramanmaras Metropolitan Municipality	271
Turkey	Partner: Smart Cities and sustainable transport	272
Turkey	Kale Holding	
Turkey	Kale Holding A.Ş.	273
	Partner: Applications of Construction Chemicals in Smart Cities Partner: Applications of Ceramic Tiles in Smart Cities	
Turkey	Kanca Dövme Çelik A.Ş.	274
-	<b>Coordinator:</b> Integration of unconventional technologies for multi-material processing into manu	factur-
	ing systems	
Turkey	Karabuk University	276
	Partner: Electric Vehicles	
Turkey	Karma Danışmanlık Bilgisayar Ltd.	277
Turkey	KARTEK KART VE BILISIM TEKNOLOJILERI TIC. A.S.	278
Turkey	KARTEK KART VE BILISIM TEKNOLOJILERI TIC. A.S.	280
Turkey	KARTEK KART VE BILISIM TEKNOLOJILERI TIC. A.S.	282
Turkey	KARTEK KART VE BILISIM TEKNOLOJILERI TIC. A.S.	284
Turkey	Kastamonu Entegre	286
	Partner: KASTAMONU ENTEGRE	
Turkey	Kocaeli University	287
	<b>Partner:</b> Design and analyze of electrical machines (especially PMDC, Reluctance Machines, PMSI electrical vehicles	M) for
Turkey	Kocaeli University	288
Turkey	KOD'ECO Design & Engineering	289
	Partner: Industrial Design - Smart Systems	
Turkey	Konya Food and Agriculture University	290
	Coordinator: Electric semi-trailer	
Turkey	Korgün Yazılım	292
	Partner: Development of a Different Retailing in the Retail-D2R2	
Turkey	Korgün Yazılım	293
Turkov	Partner: ICT Innovation for Manufacturing SMEs	205
Turkey	Leo Mühendislik Limited Şirketi	295
Turkey	Lojika	296
Turkov	Coordinator: Physical Internet	200
Turkey	Lojika Fields Lab Coordinator: Physical Internet	298
Turkey	Lostar Bilgi Güvenliği	300
·······································	,,,	500

	Partner: ICT/Cyber-Security Expertise Offering	
Turkey	Manisa Metropolitan Municipality	301
·····,	Partner: Looking for partners about energy and environment in new projects	
Turkey	Manisa Metropolitan Municipality	302
	<b>Partner:</b> Looking for partners about energy and environment in new projects.	
Turkey	Marmara University, Faculty of Technology, Department of Electrical and Electronics Engineering	304
	<b>Coordinator:</b> CONSUMER EDUCATION PROGRAM (CEP) FOR RESIDENTIAL BUILDINGS: FROM SMART CONSUMERS TO THE SMART ENERGY REGIONS	
Turkey	Medical Sciences University Antalya Training and Research Hospital	307
Turkey	Mercedes Benz Türk A.Ş.	308
	Partner: Cooperations in lightweight structures and fiber-reinforced plastics - composite materials to	opics
Turkey	Mercedes Benz Türk A.Ş.	310
	<b>Coordinator:</b> Cooperations in lightweight structures and fiber-reinforced plastics - composite mater topics	ials
Turkey	Metro Istanbul A.Ş.	312
	Partner: Metro Istanbul A.S.	
Turkey	Metropolitan Municipality Of Konya	313
Turkey	Metropolitan Municipality Of Konya	314
Turkey	METU-BILTIR Research and Application Center	315
	Partner: Factories of Future	
Turkey	METU-BILTIR Research and Application Center	317
Turkey	METU-BILTIR Research and Application Center	319
Turkey	Middle East Technical University	321
	<b>Partner:</b> Phd. in sustainable urban design <b>Coordinator:</b> Phd in sustainable urban design, general assembly member in anec, member in anec tainability work group, mc111 member for tc 350 building sustainability for turkish standards institut	
Turkey	Coordinator: Phd in sustainable urban design, general assembly member in anec, member in anec	
Turkey Turkey	<b>Coordinator:</b> Phd in sustainable urban design, general assembly member in anec, member in anec tainability work group, mc111 member for tc 350 building sustainability for turkish standards institut	tion
-	<b>Coordinator:</b> Phd in sustainable urban design, general assembly member in anec, member in anec tainability work group, mc111 member for tc 350 building sustainability for turkish standards institut <b>Middle East Technical University</b>	tion <b>322</b>
-	<ul> <li>Coordinator: Phd in sustainable urban design, general assembly member in anec, member in anec tainability work group, mc111 member for tc 350 building sustainability for turkish standards institut</li> <li>Middle East Technical University</li> <li>Middle East Technical University - Environmental Environmental Eng. Dept.</li> </ul>	tion <b>322</b>
Turkey	<ul> <li>Coordinator: Phd in sustainable urban design, general assembly member in anec, member in anec tainability work group, mc111 member for tc 350 building sustainability for turkish standards institut</li> <li>Middle East Technical University</li> <li>Middle East Technical University - Environmental Environmental Eng. Dept.</li> <li>Partner: Water Centric Ecocities</li> </ul>	tion 322 323
Turkey	<ul> <li>Coordinator: Phd in sustainable urban design, general assembly member in anec, member in anec tainability work group, mc111 member for tc 350 building sustainability for turkish standards institut</li> <li>Middle East Technical University</li> <li>Middle East Technical University - Environmental Environmental Eng. Dept.</li> <li>Partner: Water Centric Ecocities</li> <li>MIDDLE EAST TECHNICAL UNIVERSITY - MODSIMMER</li> </ul>	tion 322 323
Turkey Turkey	<ul> <li>Coordinator: Phd in sustainable urban design, general assembly member in anec, member in anec tainability work group, mc111 member for tc 350 building sustainability for turkish standards institut</li> <li>Middle East Technical University</li> <li>Middle East Technical University - Environmental Environmental Eng. Dept.</li> <li>Partner: Water Centric Ecocities</li> <li>MIDDLE EAST TECHNICAL UNIVERSITY - MODSIMMER</li> <li>Coordinator: Middle East Technical University Smart City/Campus Projects Coordination</li> </ul>	tion 322 323 325
Turkey Turkey	<ul> <li>Coordinator: Phd in sustainable urban design, general assembly member in anec, member in anec, tainability work group, mc111 member for tc 350 building sustainability for turkish standards institut</li> <li>Middle East Technical University</li> <li>Middle East Technical University - Environmental Environmental Eng. Dept.</li> <li>Partner: Water Centric Ecocities</li> <li>MIDDLE EAST TECHNICAL UNIVERSITY - MODSIMMER</li> <li>Coordinator: Middle East Technical University Smart City/Campus Projects Coordination</li> <li>Middle East Technical University Dept. of Computer Engineering</li> <li>Partner: BigData Analysis and Prediction</li> <li>Mimar Sinan Fine Arts University</li> </ul>	tion 322 323 325
Turkey Turkey Turkey Turkey	<ul> <li>Coordinator: Phd in sustainable urban design, general assembly member in anec, member in anec tainability work group, mc111 member for tc 350 building sustainability for turkish standards institut</li> <li>Middle East Technical University</li> <li>Middle East Technical University - Environmental Environmental Eng. Dept.</li> <li>Partner: Water Centric Ecocities</li> <li>MIDDLE EAST TECHNICAL UNIVERSITY - MODSIMMER</li> <li>Coordinator: Middle East Technical University Smart City/Campus Projects Coordination</li> <li>Middle East Technical University Dept. of Computer Engineering</li> <li>Partner: BigData Analysis and Prediction</li> <li>Mimar Sinan Fine Arts University</li> <li>Coordinator: Mr. Omer Aksoyak</li> </ul>	tion 322 323 325 326 328
Turkey Turkey Turkey	<ul> <li>Coordinator: Phd in sustainable urban design, general assembly member in anec, member in anec tainability work group, mc111 member for tc 350 building sustainability for turkish standards institut</li> <li>Middle East Technical University</li> <li>Middle East Technical University - Environmental Environmental Eng. Dept.</li> <li>Partner: Water Centric Ecocities</li> <li>MIDDLE EAST TECHNICAL UNIVERSITY - MODSIMMER</li> <li>Coordinator: Middle East Technical University Smart City/Campus Projects Coordination</li> <li>Middle East Technical University Dept. of Computer Engineering</li> <li>Partner: BigData Analysis and Prediction</li> <li>Mimar Sinan Fine Arts University</li> <li>Coordinator: Mr. Omer Aksoyak</li> <li>Mir Ar-Ge</li> </ul>	tion 322 323 325 326
Turkey Turkey Turkey Turkey Turkey	<ul> <li>Coordinator: Phd in sustainable urban design, general assembly member in anec, member in anec, tainability work group, mc111 member for tc 350 building sustainability for turkish standards institute</li> <li>Middle East Technical University</li> <li>Middle East Technical University - Environmental Environmental Eng. Dept.</li> <li>Partner: Water Centric Ecocities</li> <li>MIDDLE EAST TECHNICAL UNIVERSITY - MODSIMMER</li> <li>Coordinator: Middle East Technical University Smart City/Campus Projects Coordination</li> <li>Middle East Technical University Dept. of Computer Engineering</li> <li>Partner: BigData Analysis and Prediction</li> <li>Mimar Sinan Fine Arts University</li> <li>Coordinator: Mr. Omer Aksoyak</li> <li>Mir Ar-Ge</li> <li>Partner: Thermo-Fluid and Energy Research</li> </ul>	tion 322 323 325 326 328 329
Turkey Turkey Turkey Turkey Turkey Turkey	Coordinator: Phd in sustainable urban design, general assembly member in anec, member in anec, tainability work group, mc111 member for tc 350 building sustainability for turkish standards institut         Middle East Technical University         Middle East Technical University - Environmental Environmental Eng. Dept.         Partner: Water Centric Ecocities         MIDDLE EAST TECHNICAL UNIVERSITY - MODSIMMER         Coordinator: Middle East Technical University Smart City/Campus Projects Coordination         Middle East Technical University Dept. of Computer Engineering         Partner: BigData Analysis and Prediction         Mimar Sinan Fine Arts University         Coordinator: Mr. Omer Aksoyak         Mir Ar-Ge         Partner: Thermo-Fluid and Energy Research         Mir Araştırma ve Geliştirme A.Ş.	tion 322 323 325 326 328 329 331
Turkey Turkey Turkey Turkey Turkey	Coordinator: Phd in sustainable urban design, general assembly member in anec, member in anec tainability work group, mc111 member for tc 350 building sustainability for turkish standards institutMiddle East Technical UniversityEnvironmental Environmental Eng. Dept.Partner: Water Centric EcocitiesMIDDLE EAST TECHNICAL UNIVERSITY - MODSIMMERCoordinator: Middle East Technical University Smart City/Campus Projects CoordinationMiddle East Technical University Dept. of Computer EngineeringPartner: BigData Analysis and PredictionMimar Sinan Fine Arts UniversityCoordinator: Mr. Omer AksoyakMir Ar-GePartner: Thermo-Fluid and Energy ResearchMir Araştırma ve Geliştirme A.Ş.Mir Unique Solutions	tion 322 323 325 326 328 329
Turkey Turkey Turkey Turkey Turkey Turkey Turkey	Coordinator: Phd in sustainable urban design, general assembly member in anec, member in anec         tainability work group, mc111 member for tc 350 building sustainability for turkish standards institut         Middle East Technical University         Middle East Technical University - Environmental Environmental Eng. Dept.         Partner: Water Centric Ecocities         MIDDLE EAST TECHNICAL UNIVERSITY - MODSIMMER         Coordinator: Middle East Technical University Smart City/Campus Projects Coordination         Middle East Technical University Dept. of Computer Engineering         Partner: BigData Analysis and Prediction         Mimar Sinan Fine Arts University         Coordinator: Mr. Omer Aksoyak         Mir Ar-Ge         Partner: Thermo-Fluid and Energy Research         Mir Unique Solutions         Partner: Civil Engineering Technologies	tion 322 323 325 326 328 329 331 333
Turkey Turkey Turkey Turkey Turkey Turkey	Coordinator: Phd in sustainable urban design, general assembly member in anec, member in anec tainability work group, mc111 member for tc 350 building sustainability for turkish standards institutMiddle East Technical UniversityEnvironmental Environmental Eng. Dept.Partner: Water Centric EcocitiesMIDDLE EAST TECHNICAL UNIVERSITY - MODSIMMERCoordinator: Middle East Technical University Smart City/Campus Projects CoordinationMiddle East Technical University Dept. of Computer EngineeringPartner: BigData Analysis and PredictionMimar Sinan Fine Arts UniversityCoordinator: Mr. Omer AksoyakMir Ar-GePartner: Thermo-Fluid and Energy ResearchMir Unique SolutionsPartner: Civil Engineering TechnologiesMunicipality of Kartal	tion 322 323 325 326 328 328 329 331 333
Turkey Turkey Turkey Turkey Turkey Turkey Turkey	Coordinator: Phd in sustainable urban design, general assembly member in anec, member in anec, tainability work group, mc111 member for tc 350 building sustainability for turkish standards institut         Middle East Technical University       Middle East Technical University - Environmental Environmental Eng. Dept.         Partner: Water Centric Ecocities       MIDDLE EAST TECHNICAL UNIVERSITY - MODSIMMER         Coordinator: Middle East Technical University - Dept. of Computer Engineering       Middle East Technical University Dept. of Computer Engineering         Partner: BigData Analysis and Prediction       Mimar Sinan Fine Arts University         Mir Ar-Ge       Partner: Thermo-Fluid and Energy Research         Mir Unique Solutions       Partner: Civil Engineering Technologies         Municipality of Kartal       Partner: We are interested in Energy Efficiency, Sustainability, Green Buildings, Smart Grids and Sm City Projects	tion 322 323 325 326 328 328 329 331 333 333 a35 nart
Turkey Turkey Turkey Turkey Turkey Turkey Turkey	Coordinator: Phd in sustainable urban design, general assembly member in anec, member in anec tainability work group, mc111 member for tc 350 building sustainability for turkish standards institutMiddle East Technical UniversityMiddle East Technical University - Environmental Environmental Eng. Dept.Partner: Water Centric EcocitiesMIDDLE EAST TECHNICAL UNIVERSITY - MODSIMMERCoordinator: Middle East Technical University Smart City/Campus Projects CoordinationMiddle East Technical University - Dept. of Computer EngineeringPartner: BigData Analysis and PredictionMimar Sinan Fine Arts UniversityCoordinator: Mr. Omer AksoyakMir Ar-GePartner: Thermo-Fluid and Energy ResearchMir Unique SolutionsPartner: Civil Engineering TechnologiesMunicipality of KartalPartner: We are interested in Energy Efficiency, Sustainability, Green Buildings, Smart Grids and Sm City ProjectsMunicipality of Çukurova	tion 322 323 325 326 328 328 329 331 333
Turkey Turkey Turkey Turkey Turkey Turkey Turkey Turkey Turkey	Coordinator: Phd in sustainable urban design, general assembly member in anec, member in anec tainability work group, mc111 member for tc 350 building sustainability for turkish standards institutMiddle East Technical UniversityMiddle East Technical University - Environmental Environmental Eng. Dept.Partner: Water Centric EcocitiesMIDDLE EAST TECHNICAL UNIVERSITY - MODSIMMERCoordinator: Middle East Technical University Smart City/Campus Projects CoordinationMiddle East Technical University Dept. of Computer EngineeringPartner: BigData Analysis and PredictionMimar Sinan Fine Arts UniversityCoordinator: Mr. Omer AksoyakMir Ar-GePartner: Thermo-Fluid and Energy ResearchMir Unique SolutionsPartner: Civil Engineering TechnologiesMunicipality of KartalPartner: We are interested in Energy Efficiency, Sustainability, Green Buildings, Smart Grids and Sm City ProjectsMunicipality of QukurovaPartner: Finding of partners about energy and environmental issues.	tion 322 323 325 326 328 328 329 331 333 335 nart 336
Turkey Turkey Turkey Turkey Turkey Turkey Turkey	Coordinator: Phd in sustainable urban design, general assembly member in anec, member in anec tainability work group, mc111 member for tc 350 building sustainability for turkish standards institutMiddle East Technical UniversityMiddle East Technical University - Environmental Environmental Eng. Dept.Partner: Water Centric EcocitiesMIDDLE EAST TECHNICAL UNIVERSITY - MODSIMMERCoordinator: Middle East Technical University Smart City/Campus Projects CoordinationMiddle East Technical University - Dept. of Computer EngineeringPartner: BigData Analysis and PredictionMimar Sinan Fine Arts UniversityCoordinator: Mr. Omer AksoyakMir Ar-GePartner: Thermo-Fluid and Energy ResearchMir Unique SolutionsPartner: Civil Engineering TechnologiesMunicipality of KartalPartner: We are interested in Energy Efficiency, Sustainability, Green Buildings, Smart Grids and Sm City ProjectsMunicipality of Çukurova	tion 322 323 325 326 328 328 329 331 333 335 nart

Turkey	NETAS	339
Turkey	NETAS	340
	Partner: NETAS Partner	
Turkey	NETAS	341
Turkey	netas	343
Turkey	Netas	344
Turkey	Netas	345
	Partner: Netas	
Turkey	Netas Telecommunication	347
Turkey	Netaş	348
	Partner: Strong Interest in Smart Cities	
Turkey	NOVUSENS Innovation and Entrepreneurship Institute	350
	Coordinator: NOVUSENS Smart City and Big Data Institute	
Turkey	Novusens Innovation and Entrepreneurship Institute	352
	Coordinator: Novusens Smart City and Big Data Institute	
Turkey	ODTÜ - METU MATPUM	354
	<b>Partner:</b> Smart Cities, Smart Buildings, Demand Planning and Control, Integrated Building Manager Solutions	nent
Turkey	Onur Enerji	356
	Partner: Energy Efficiency Partner	
Turkey	Optonom Scientific Instruments Co.	357
	<b>Coordinator:</b> Optical Visual Inspection System for Qualty Control in Production Facilities and Factor <b>Coordinator:</b> Optical Dilatometer for Production of New Materials <b>Partner:</b> Partnership for Horizon 2020 For Future Factories	ies.
Turkey	OSCAR	360
	Partner: green mobility	
Turkey	OTOKAR OTOMOTİV ve SAVUNMA SANAYİ A.Ş.	362
	Partner: Green Vehicles	
Turkey	OTOKAR OTOMOTİV ve SAVUNMA SANAYİ A.Ş.	363
Turkey	OYAK BETON SANAYI ve TICARET A.S.	364
	<b>Partner:</b> Beneficial Use and/or Recovery of Endustrial(Flyash,basic oxygen furnace slag etc.) or Nat Waste(Dredged Material etc.) in Ready-Mixed Concrete and Lightweight Aggregate Production	ural
Turkey	Ozyegin University	367
	Partner: Energy Efficient Electronics and Lighting Technologies Center (EVATEG)	
Turkey	OZYEGIN UNIVERSITY, CEEE (Center for Energy, Environment and Economy)	369
Turkey	OZYEGIN UNIVERSITY, CEEE (Center for Energy, Environment and Economy)	371
Turkey	Pamukkale Technopark Management Corporation	373
	<b>Partner:</b> Technology services to accelerate the uptake of advanced manufacturing technologies for clean production by manufacturing SMEs	
Turkey	PAVO TASARIM URETIM ELEKTRONIK TIC	375
	Partner: design and manufactoring of an electronic unit in the project	
Turkey	Pikotek R&D Innovation Energy Corporation	376
Turkey	PMO Partners	377
Turkey	Proline Bilisim Sistemleri	378
Turkey	Proline Bilişim Sistemleri ve Tic. A.Ş.	379
	Partner: Smart and Sustainable Cities and Energy Efficient Buildings Partner: SCC-1-2016-2017 Smart Cities and Communities lighthouse projects	

Turkey	Proline Information Systems and Trade Inc	380
	Partner: EEB-05-2017 Development of near zero energy building renovation	
Turkey	Proline Integrated Intelligence	382
	<b>Partner:</b> Seeking companies/startups in the field of Smart Cities, focused on data, infrastructure, see and energy	nsor
Turkey	Proline Integrated Intelligence	384
Turkey	Proline Integrated Intelligence	386
Turkey	Proline Integrated Intelligence	387
Turkey	Puhu	389
	Partner: Energy efficient buildings, data science	
Turkey	Puhu	390
	Partner: Energy efficient buildings, data science	
Turkey	Punica Systems	391
Turkey	REENGEN	392
Turkey	RETFOX BILGI TEKNOLOJILERI YAZILIM OTOMASYON SISTEMLERI SAN. VE TIC. A.Ş.	393
	Partner: ThingFast - Together Far	
Turkey	Ruzgar Danismanlik	395
Turkey	Sabanci University	397
Turkey	Sabanci University	398
	Partner: Urban transport and logistics using EVs	
Turkey	Sabancı University	399
Turkey	Sakarya Metropolitan Municipality	400
Turkey	Sampaş Bilişim ve İletişim Sistemleri Sanayi ve Ticaret A.Ş.	401
	Partner: SAMPAŞ IT & Communications	
Turkey	Sampaş Bilişim ve İletişim Sistemleri Sanayi ve Ticaret A.Ş.	403
	Partner: SAMPAŞ IT & Communications	
Turkey	Sampaş Nanoteknoloji	405
	Partner: Sampas Nanotechnology Ltd.	
Turkey	Sampaş Nanoteknoloji	407
-	Partner: Sampas Nanotechnology Ltd.	
Turkey	Smart Cities Innovation lab	409
<b>T</b>	Partner: Strategy, Vision Plan & Frameworks & Basic Researches	433
Turkey	TAGES	411
Turkey	Teksav Teknoloji	412
Turkey	TEMSA	413
Turkey	TOFAS Türk Otomobil Fabrikası A.Ş.	414
	<b>Partner:</b> TOFAS, as an Automotive OEM, can be end user for different calls about Green Vehicles top SUSTAINABLE PROCESS INDUSTRIES (SPIRE) and Factories of Future (FoF) Calls, FTI Calls	ic,
Turkey	TOFAŞ A.Ş. R&D CENTER	416
Turkey	Trakya University	417
	Coordinator: Towards sustainable energy resources for smart devices	
Turkey	TUBITAK	419
	Partner: Development of Li-ion battery for special applications	
Turkey		425
Toul	Partner: National Contact Point for Transport	40-
Turkey	TUBITAK	427

	Partner: National Contact Point for Energy	
Turkey	TUBITAK	428
Turkey	TUBITAK	429
Turkey	TUBITAK BILGEM	433
Turkey	Tubitak Marmara Research Center	435
	<b>Coordinator:</b> Looking for a colloboration partner/s for rechargeable battery projects: 'The European Green Vehicles Initiative'	
Turkey	TUBITAK Marmara Research Center	437
Turkey	TUBITAK MRC	438
Turkey	TUBITAK- Energy Institute	439
	Partner: Energy for Smart Cities Partner: Battery Hybrid Green Vehicles	
Turkey	TURKEY ELECTRIC HYBRID CARS ASSOCIATION	441
	<b>Coordinator:</b> Electric bikes Charging Station, the Structure, that uses solar energy system.	
Turkey	Turkey in H2020	442
Turkey	Turkish Green Building Council	443
Turkey	Turkish Petroleum Refineries Corporation	444
Turkey	Turkish Water Institute (SUEN)	446
	Partner: Circular economy	
Turkey	ТÜВІТАК	447
	Partner: NMP NCP	
Turkey	TÜBİTAK (The Scientific and Technological Research Council of Turkey)	449
Turkey		450
	Coordinator: TUBITAK MRC	
Turkey	Tübitak Marmara Research Center	<b>451</b>
	Looking for a colloboration partner/s for rechargeable battery projects: 'The European Green Vehicles tiative'	
Turkey	university of Dicle	453
Turkey	Valeo Otomotiv Sanayi ve Ticaret A.Ş.	454
<b>T</b> 1	<b>Partner:</b> Valeo can be an end user for different production methods or automation techniques.	450
Turkey	Valeo Otomotiv Sanayi ve Ticaret A.Ş. Partner: To Become End User	456
Turkey	VOLTURK TEKNOLOJİ	458
Turkey	Coordinator: 3D Print Centers Platform	450
Turkey	VİKO by Panasonic	460
Turkey	VİKO by Panasonic	461
Turkey	WRI Turkey Sustainable Cities	462
-	Partner: Smart & sustainable cities; green growth, energy efficiency	
Turkey	Yalın Mekatronik	464
	<b>Partner:</b> seeking for partners to collaborate smart city projects. <b>Coordinator:</b> Seeking partners both in private sector and governmental authorities to implement reverse vending machine system.	-
Turkey	Yaşar University	466
Turkey	Yildiz Technology Transfer Office	467
Turkey	YUNUSEMRE MUNICIPALITY	469
	<b>Partner:</b> Constructing A New City From Scratch (Open to any cooperation or partnership projects for novative Smart City Applications, Secure, clean and efficient energy for Sustainable Future, Smart, gr	

	and integrated transport etc.)	
Turkey	Zafer Development Agency	472
, and y	Partner: Zafer Development Agency Partner: Biogas Production From Organic Waste	
Turkey	Özyeğin University	475
Turkey	Özyeğin University	476
	Partner: Energy Efficient Buildings	
Turkey	Özyeğin University Center for Energy Environment and Economy	477
-	Coordinator: EEB-05_2017 Development of Near Zero Energy Building Renovation	
Turkey	İdealab inovasyon arge mühendislik danışmanlık a.ş.	478
	<b>Coordinator:</b> R&D company expertised on turbomachinery <b>Partner:</b> R&D company expertised on turbomachinery	
Turkey	İnfinit Dynamics Ltd. Şti.	479
	Partner: Vehicle Design	
Turkey	İstanbul Kültür Üniversitesi	481
	Partner: -	
Turkey	İstanbul Metropolitan Municipality	482
	Partner: Smart city	
Turkey	İZELTAŞ A.Ş.	484
Turkey	İzmir Institute of Technology	485
Ukraine	Glushkov Institute of Cybernetics NAS of Ukraine	486
	Coordinator: Smart city air pollution monitoring	
Ukraine	Glushkov Institute of Cybernetics NAS of Ukraine	487
	Coordinator: Pixelated Realities: preservation of cultural heritage	
Ukraine	Resource Efficient and Cleaner Produciton Centre Ukraine	488
	<ul> <li>Partner: Integrated approach to process optimisation for raw material resources efficiency, exclude recovery technologies of waste streams</li> <li>Partner: Systemic, eco-innovative approaches for the circular economy large-scale demonstration jects</li> </ul>	-
	<ul> <li>Partner: Water in the context of the circular economy</li> <li>Partner: New product functionalities through advanced surface manufacturing processes for mass duction</li> <li>Partner: Novel design and predictive maintenance technologies for increased operating life of pro</li> </ul>	-
	tion systems <b>Partner:</b> New technologies and life cycle management for reconfigurable and reusable customised ucts	d prod-
	<b>Partner:</b> Innovation for Manufacturing SMEs <b>Partner:</b> Development of near zero energy building renovation <b>Partner:</b> Integration of energy harvesting at building and district level <b>Partner:</b> Smart Cities and Communities lighthouse projects	
Ukraine	Resource efficient and cleaner production centre Ukraine	490
	<ul> <li>Coordinator: Reducing the electric energy losses in the rock fracture</li> <li>Coordinator: Reducing the electric energy losses due to voltage imbalance on the railway</li> <li>Partner: Factories of the Future</li> <li>Partner: Smart and Sustainable Cities and Energy Efficient Buildings</li> <li>Partner: SPIRE-Circular Economy Session</li> </ul>	
Ukraine	V.Bakul Institute for Superhard Materials NAS Ukraine	493
Ukraine	"Uniway consulting group"	494
	Coordinator: "FOF-12-2017: ICT Innovation for Manufacturing SMEs (I4MS)"	
United Kingdom	Amba Consulting (UK) Ltd	495

Partner: Design, management and evaluation of SME business support programmes

United Kingdom	Brunel University London	496
	Partner: The circular bioeconomy	
United Kingdom	Phase Change Material Products Limited	497
	Partner: PHASE CHANGE MATERIALS & THERMAL ENERGY STORAGE	
United Kingdom	University of Bath	500

# **GOLEM Integrated Microelectronics Solutions GMBH**

Organisation Name

Austria
Vienna
Hausfedlstr. 22/1/7
http://golem.at
SME

Person	
Name	Serguei Golovanov
Email	epic.golem@gmail.com
Job Position	Genaral Manager



#### **Organisation Details**

GOLEM Integrated Microelectronics Solutions GmbH, Vienna, Austria, est. 1990, is RDI SME developing the advanced ICT instruments for intelligent digital transformation of big data streams from complex social, bio & urban cyberphysical systems into advanced customized information services and controls. The company prototype technology Pharos Navigator ® enables the high level systems modeling and practical solutions for quantifiable sustainability, integration with diverse smart systems and Internet of Things, dealing with complexity and accelerated change. Our activities include:

- Implementation of projects enabling real time transformation for customized data driven information services, analytics and controls based on novel approach to modeling of complex dynamic systems and its running linked to multiple diverse distributed data sources and actuators
- Support in RDI, planning and implementation of new digital services and mobile applications for the specific projects and customers
- Partnering, training, learning, consulting in workshops and knowledge dissemination of new digital instruments for modeling, monitoring, analytics, benchmarking and simulations for sustainable development, management and governance
- Participation in RDI consortiums for the calls by EU and other countries (Horizon 2020, ENSUF, etc) in new methods and applications enabling digital transformation in interlinked systems of smart everything, sustainability, quality of life, environment and society

The sample prototype demo models of Smart City and Smart Enterprise run online at http://win2biz.com.

#### Areas of Activity

#### **SPIRE-Circular Economy Session**

- SPIRE-07-2017 Integrated approach to process optimisation for raw material resources efficiency, excluding recovery technologies of waste streams
- SPIRE-09-2017 Pilot lines based on more flexible and down-scaled high performance processing
- SPIRE-10-2017 New electrochemical solutions for industrial processing, which contribute to a reduction of carbon dioxide emissions
- SPIRE-11-2017 Support for the enhancement of the impact of SPIRE PPP projects
- SPIRE-12-2017 Assessment of standardisation needs and ways to overcome regulatory bottlenecks in the process industry

# Smart and Sustainable Cities and Energy Efficient Buildings

- EEB-05-2017 Development of near zero energy building renovation
- EEB-06-2017 Highly efficient hybrid storage solutions for power and heat in residential buildings and district areas, balancing the supply and demand conditions
- EEB-07-2017 Integration of energy harvesting at building and district level
- EEB-08-2017 New business models for energy-efficient buildings through adaptable refurbishment solutions
- EE-12-2017 Integration of Demand Response in

- CIRC-01-2017 Systemic, eco-innovative approaches for the circular economy large-scale demonstration projects
- CIRC-02-2017 Water in the context of the circular economy
- EE-17-2016-2017 Valorisation of waste heat in industrial systems
- SPIRE-13-2017 Potential of Industrial Symbiosis in Europe

#### Factories of the Future

- FOF-09-2017 Novel design and predictive maintenance technologies for increased operating life of production systems
- FOF-12-2017 ICT Innovation for Manufacturing SMEs

Energy Management Systems while ensuring interoperability through Public Private Partnership

- SCC-1-2016-2017 Smart Cities and Communities lighthouse projects
- SCC-02-2016-2017 Demonstrating innovative nature-based solutions in cities
- SC5-08-2017 Large-scale demonstrators on nature-based solutions for hydro-meteorological risk reduction
- SC5-21-2017: Cultural heritage as a driver for sustainable growth (Heritage-led rural regeneration)

#### The European Green Vehicles Initiative

- GV-01-2017 Optimisation of heavy duty vehicles for alternative fuels use
- GV-04-2017 Next generation electric drivetrains for fully electric vehicles, focusing on high efficiency and low cost
- GV-05-2017 Electric vehicle user-centric design for optimised energy efficiency
- GV-07-2017 Multi-level modelling and testing of electric vehicles and their components
- GV-10-2017 Demonstration (pilots) for integration of electrified L-category vehicles in the urban transport system

#### **Cooperation Profiles**

## **Partner:** Novel intelligent digital transformation platform for Smart Cities and Communities + relevant RDI and prototyping

With increase of life dynamics in urban areas its management becomes more difficult facing challenges of population growth, amount of waste, impact on environment, use of energy and water, economics, resources, society, climate, connectivity, health. All these come along with instabilities in economics, supply of resources and raw materials, climate change impacts. The novel advanced instruments are required to cope with complexity of urban areas, provide holistic and transparent vision of its performance, clear formulation of sustainability goals, its public visibility for evaluation of ongoing achievements, prompt corrective actions and confirmation of its results. GOLEM IMS GMBH and its partners offer the novel ICT "Smart City Monitor" to forward looking municipalities and utility service providers willing to deal with these paradigms. It introduces new-generation of intelligent information platform and the instruments for modeling of urban areas as complex Cyber-Physical Systems (CPS) with large number of independent interlinked smart everything: citizens, organizations, service providers, buildings, technologies, machines, transportation vehicles, interacting with each other while realizing urban life processes. The Smart City Monitor runs the large open CPS models of urban areas linked with multiple IoT and sources of open big data, actuators and enables digitals transformation of big data streams into rich set of data driven information services and controls for the city stakeholders. It supports compliance with the relevant international standards for quality of life and urban management such as ISO 37120 "Sustainable development of communities — Indicators for city services and quality of life" and similar others related to quality of governance, integrated management, monitoring, analyzing, benchmarking, simulation of processes and responses in urban areas in real time. The platform fosters building up the diverse set of innovative pubic services and mobile applications, fosters the community life and citizen engagement and transfer to digital economy. It helps to master the implementation of trustworthy strategic technology for small and middle size local communities driving its competitiveness and growth, providing low cost, low entry barrier, high performance, replicable, flexible smart solutions. The online demo of the integrated Smart City is running online at https://smartcity.win2biz.com The partnership seeked: Municipalities, City Councils, Local and Regional Government organizations, Management of energy, waste, water, safety, environment, transportation, other civic services, Organizations developing urban infrastructure, applications of Internet of Things and Resource and Resilience management and relevant education and vocational training. New content effectively advances new projects by international and national financial institutions promoting and investing into the development of smart and future urban communities.

Coordinator: High level modeling, nexus model linking and advanced ICT digital transfor-

## mation environment supporting accelerated RDI

Increasing complexity of nexus and accelerating dynamics of change make more difficult to face the specific challenges targeted by H2020-SC5, to achieve reliable validated R&D results and present them as on-line information services for the dissemination and TRL. Our team offers contributing to RDI Work Packages in SC5 and other relevant topics with high level instruments for quick making models of target systems under the study, its linking to existing complex models, smart systems and multiple data sources to enable intelligent digital transformation for real time monitoring, analytics, benchmarking, simulations and controls accordingly to the project tasks. The new advanced R&D environment fosters coping with the complexity of target studies, quick adaptation to on-going intermediate results and priorities, provides holistic and transparent vision of the cyber-physical systems performance under the study, methodologically valid and transparent formulation of its sustainability goals, optional visibility of achievements by the consortium members (and if necessary to the public) in real time, prompt corrective actions. GOLEM IMS GMBH and ASIDEES.ORG teams offer the novel prototype ICT platform and relevant unique methodology and its expertise to SC5 consortiums looking to new approaches and solutions for the planned H2020 projects enabling to deal with these paradigms. The examples of the cyber-physical systems models of "Smart City" and "Smart Enterprise" run online at https://win2biz.com. The project areas of collaboration: Smart Governance of communities, cities, regions, islands, Smart Assets and Smart Enterprise management, Circular economy, Educational and vocational training in relevant areas.

## **Coordinator:** Prototyping intelligent Factories of the Future and Industry 4 solutions

The novel solution Pharos Navigator by our company allows customer enterprises to begin easy and low cost, effective gradual transformation toward implementation of Factories of Future / Industry 4 concepts by providing • The platform for easy making the customized interlinked enterprise models of its complex industrial Cyber-Physical Systems (CPS) and relevant applications with multi-disciplinary design methods and interactive CPS technology tools, • The platform linking to diverse data sources and smart autonomous systems (smart meters, IoT, SCADAs, control systems, smart agents, databases, web sites, mobiles, etc) for receiving corresponding data streams • Realizing the customized control actuators / gateways for implementing actions required by the rules of sustainable operations, security, resilience • Having cost effective yet powerful solution implemented on common industrial components (COTS) • Running the custom-made CPS models on the platform locally at premises or in cloud • Obtaining capacity for integrated intelligent holistic vision of the business for its management, monitoring, controlling, analyzing, benchmarking and simulation of responses • Implementing smart enterprise operations with comprehensive information about performance in any necessary detail for all its stakeholders provided online by secure reports, animations, video, texts, alarms/announcements messages, searches, etc. • Having high performance, easily replicable, scalable and simple in use solutions meeting the challenges of increased complexity in enterprise management, fostering quick adaptation to change in structure and requirements, including integration with other smart CPS agents. • Improving the customer enterprise image, knowledge and business capacity for implementation of the Industry 4 concepts leading to sustainable business position in the future • Effectively presenting integrated services and products in EU and other international markets • Licensing of the solution for the partner benefits foster quick time and cost saving results We look for partnering for RDI in both H2020 FOF-09-2017 and FOF-12-2017 with use case organization interested in experimenting and prototyping of the novel concepts and solutions.

# TuR&Bo (Turkish Business and Research Organisations)

Organisation Name

Country	Belgium
City	Brussels
Street	avenue de l'yser 5
Website	
Phone	
Organisation Type	Association/Agency

Person	
Name	Begüm Boynukalin
Email	begum.boynukalin@turboppp.org
Job Position	Administrative Assistant

#### **Organisation Details**

The Turkish Research and Business Organisations a.i.s.b.l. (TuR&Bo), is an international non-profit association (a.i.s.b.l.) that has been set up in Brussels on March 2004 by four prominent public and private sector Turkish institutions that represent the research and business domains, i.e. TUBITAK (The Scientific and Technological Research Council of Turkey), TOBB (The Union of Chambers and Commodity Exchanges of Turkey), KOSGEB (Small and Medium Industry Development Organisation) and TESK (The Confederation of Tradesmen and Craftsmen of Turkey). The founding philosophy and aims of TuR&Bo are based on the principle of public-private partnership.

The organisation provides information, communication, consultancy and training services involving target-oriented networks. It also carries out lobbying activities on behalf of Turkish participants in HORIZON2020 and COSME, including the public research institutions and the small and medium sized enterprises (SMEs). TuR&Bo also provides support to the National Contact Points (NCPs), relaying information on events and issues which are at the heart of the EU research policy and in facilitating and hosting meetings between the Turkish NCPs and their counterparts from other countries.

#### Areas of Activity

#### SPIRE-Circular Economy Session

 CIRC-01-2017 Systemic, eco-innovative approaches for the circular economy large-scale demonstration projects

#### Factories of the Future

• FOF-12-2017 ICT Innovation for Manufacturing SMEs

#### **Cooperation Profiles**

## Partner: TuR&Bo

The Turkish Research and Business Organisations a.i.s.b.l. (TuR&Bo), is an international non-profit association (a.i.s.b.l.) that has been set up in Brussels on March 2004 by four prominent public and private sector Turkish institutions that represent the research and business domains, i.e. TUBITAK (The Scientific and Technological Research Council of Turkey), TOBB (The Union of Chambers and Commodity Exchanges of Turkey), KOSGEB (Small and Medium Industry Development Organisation) and TESK (The Confederation of Tradesmen and Craftsmen of Turkey). The founding philosophy and aims of TuR&Bo are based on the principle of public-private partnership. The organisation provides information, communication, consultancy and training services involving target-oriented networks. It also carries out lobbying activities on behalf of Turkish participants in HORIZON2020 and COSME, including the public research institutions and the small and medium sized enterprises (SMEs). TuR&Bo also provides support to the National Contact Points (NCPs), relaying information on events and issues which are at the heart of the EU research policy and in facilitating and hosting meetings between the Turkish NCPs and their counterparts from other countries.

# TURBO

Organisation Name	
Country	Belgium
City	Brussels
Street	Avenue de l'Yser 5
Website	
Phone	
Organisation Type	Association/Agency

Person	
Name	Raluca Dragan
Email	raluca.dragan@turboppp.org
Job Position	European Advisor

#### **Organisation Details**

The Turkish Research and Business Organisations a.i.s.b.l. (TuR&Bo), is an international non-profit association (a.i.s.b.l.) that has been set up in Brussels on March 2004 by four prominent public and private sector Turkish institutions that represent the research and business domains, i.e. TUBITAK (The Scientific and Technological Research Council of Turkey), TOBB (The Union of Chambers and Commodity Exchanges of Turkey), KOSGEB (Small and Medium Industry Development Organisation) and TESK (The Confederation of Tradesmen and Craftsmen of Turkey). The founding philosophy and aims of TuR&Bo are based on the principle of public-private partnership.

The organisation provides information, communication, consultancy and training services involving target-oriented networks. It also carries out lobbying activities on behalf of Turkish participants in HORIZON2020 and COSME, including the public research institutions and the small and medium sized enterprises (SMEs). TuR&Bo also provides support to the National Contact Points (NCPs), relaying information on events and issues which are at the heart of the EU research policy and in facilitating and hosting meetings between the Turkish NCPs and their counterparts from other countries.

#### **Areas of Activity**

<ul> <li>Smart and Sustainable Cities and Energy Efficient Buildings</li> <li>EEB-05-2017 Development of near zero energy building renovation</li> <li>EEB-06-2017 Highly efficient hybrid storage solu- tions for power and heat in residential buildings and district areas, balancing the supply and de- mand conditions</li> <li>EEB-07-2017 Integration of energy harvesting at building and district level</li> <li>EEB-08-2017 New business models for energy-effi- cient buildings through adaptable refurbishment solutions</li> <li>EE-12-2017 Integration of Demand Response in En- ergy Management Systems while ensuring interop- erability through Public Private Partnership</li> <li>SCC-1-2016-2017 Smart Cities and Communities lighthouse projects</li> <li>SCC-02-2016-2017 Demonstrating innovative na-</li> </ul>	<ul> <li>The European Green Vehicles Initiative</li> <li>GV-01-2017 Optimisation of heavy duty vehicles for alternative fuels use</li> <li>GV-04-2017 Next generation electric drivetrains for fully electric vehicles, focusing on high efficiency and low cost</li> <li>GV-05-2017 Electric vehicle user-centric design for optimised energy efficiency</li> <li>GV-06-2017 Physical integration of hybrid and electric vehicle batteries at pack level aiming at increased energy density and efficiency</li> <li>GV-07-2017 Multi-level modelling and testing of electric vehicles and their components</li> <li>GV-08-2017 Electrified urban commercial vehicles integration with fast charging infrastructure</li> <li>GV-09-2017 Demonstration (pilots) for integration of electrified L-category vehicles in the urban transport system</li> </ul>
ture-based solutions in cities	

 SC5-08-2017 Large-scale demonstrators on naturebased solutions for hydro-meteorological risk reduction

#### Belgium

# TURBO - Turkish Research and Business Organisations aisbl

#### Organisation Name

Country	Belgium
City	Brussels
Street	Avenue de l'Yser 5
Website	http://www.turboppp.org/
Phone	
Organisation Type	Association/Agency

Person	
Name	Magdalena Pacholska
Email	magdalena.pacholska@turboppp.org
Job Position	European Advisor



#### **Organisation Details**

TURBO is an international non-profit association (a.i.s.b.l.) set up in March 2004 in Brussels by the public and private sector institutions. TUR&BO represents the Turkish research and business domains, i.e. TUBITAK (The Scientific and Technological Research Council of Turkey), TOBB (The Union of Chambers and Commodity Exchanges of Turkey), KOS-GEB (Small and Medium Enterprises Development Organisation) and TESK (The Confederation of Turkish Tradesmen and Craftsmen).

TURBO aims to assist Turkey in succeeding in the European Union's RTD and private sector/enterprise-oriented programmes within the framework of the EU 2020 Strategy. This is achieved by providing information, communication, consultancy and training services, participating in target oriented networks and in carrying out lobbying activities.

#### Areas of Activity

#### SPIRE-Circular Economy Session

- SPIRE-07-2017 Integrated approach to process optimisation for raw material resources efficiency, excluding recovery technologies of waste streams
- SPIRE-08-2017 Carbon dioxide utilisation to produce added value chemicals
- SPIRE-09-2017 Pilot lines based on more flexible and down-scaled high performance processing
- SPIRE-10-2017 New electrochemical solutions for industrial processing, which contribute to a reduction of carbon dioxide emissions
- SPIRE-11-2017 Support for the enhancement of the impact of SPIRE PPP projects
- SPIRE-12-2017 Assessment of standardisation needs and ways to overcome regulatory bottlenecks in the process industry
- CIRC-01-2017 Systemic, eco-innovative approaches for the circular economy large-scale demonstration projects
- CIRC-02-2017 Water in the context of the circular economy
- EE-17-2016-2017 Valorisation of waste heat in industrial systems

#### **Factories of the Future**

- FOF-06-2017 New product functionalities through advanced surface manufacturing processes for mass production
- FOF-07-2017 Integration of unconventional technologies for multi-material processing into manufacturing systems
- FOF-08-2017 In-line measurement and control for micro-/nano-enabled high-volume manufacturing for enhanced reliability
- FOF-09-2017 Novel design and predictive maintenance technologies for increased operating life of production systems
- FOF-10-2017 New technologies and life cycle management for reconfigurable and reusable customised products
- FOF-12-2017 ICT Innovation for Manufacturing SMEs

#### **Cooperation Profiles**

## Partner: FOF - 12 - 2017: ICT Innovation for Manufacturing SMEs (I4MS)

TuR&Bo is the Brussels liaision office of Turkey's major research and business organisations: TUBITAK (The Scientific and Technological Research Council of Turkey), TOBB (The Union of Chambers and Commodity Exchanges of Turkey), KOSGEB (Small and Medium Enterprises Development Organisation) and TESK (The Confederation of Turkish Tradesmen and Craftsmen). Founded by the public and private sector institutions as the international non-profit association (a.i.s.b.l), TuR&Bo was set up in 2004. the state of the second

Organisation Name	
Country	Belgium
City	Brussels
Street	Rue Veydt 39
Website	white-research.eu
Phone	
Organisation Type	Consulting

Michael Hensen
michaelhensen@web.de
Director

#### **Organisation Details**

Matchmaking Agency. Proposal Writing Support.

#### Areas of Activity

Smart and Sustainable Cities and Energy Efficient Buildings

- EE-12-2017 Integration of Demand Response in Energy Management Systems while ensuring interoperability through Public Private Partnership
- SCC-1-2016-2017 Smart Cities and Communities lighthouse projects
- SCC-02-2016-2017 Demonstrating innovative nature-based solutions in cities

#### **Cooperation Profiles**

#### Coordinator: Cities are the Future

White Research has in-depth knowledge putting together EU proposals, in collaboration with universities, business schools, SMEs and independent organisations (research, dissemination, policy-making) from a wide variety of countries. We know how to connect with the EU, and set up powerful consortia that speak to EU goals. We are looking for partners from the EU and associated countries to form consortia on cities. Topics may include smart cities, green cities, inner-city logistics, collaboration of different stakeholders within cities (public administrators, business, citizens), social innovation in cities, sustainable cities, etc. Looking forward to connecting with you!



Belgium

# CYPRUS UNIVERSITY OF TECHNOLOGY

#### Organisation Name

Country	Cyprus
City	Lemesos
Street	30 Archbishop Kyprianou Str.
Website	http://www.cut.ac.cy
Phone	
Organisation Type	University

Person		
Name	Christiana Filippou	Large
Email	filippouch@gmail.com	
Job Position	Doctoral student	

#### **Organisation Details**

The Cyprus University of Technology aspires to develop itself into a modern, pioneering University able to offer education and high level research in leading branches of science and technology which have high impact on the economic, technical, and scientific sectors. With its orientation towards applied research, the University aspires to establish for itself a role in support of the state and society in their efforts to confront problems, which cover all areas of science and technology. The Cyprus University of Technology is based at the city of Limassol, where all six faculties are located. The Cyprus University of Technology aims at transferring knowledge (education) and producing new knowledge through basic and applied research.

#### **Areas of Activity**

# Smart and Sustainable Cities and Energy Efficient Buildings

- EEB-05-2017 Development of near zero energy building renovation
- EEB-08-2017 New business models for energy-efficient buildings through adaptable refurbishment solutions

#### **Cooperation Profiles**

#### Coordinator: PhD student

## CEA

Organisation Name	
Country	France
City	Grenoble
Street	17 rues des Martyrs
Website	
Phone	
Organisation Type	R&D Institution

Person	
Name	Donet Sebastien
Email	sebastien.donet@cea.fr
Job Position	expert in catalysis

## **Organisation Details**

**CEA** (French Atomic Energy Commission) is a public technological research organization,

in the areas of energy, information and health technologies and defense.he highest level. Strengthened by the competence of its 15,000 researchers and collaborators, it is recognized internationally and

constitutes a strong source of original ideas for public institutions and industries in France and

in Europe. Its Laboratory of Innovation in New Energy Technology and Nanomaterials (**Liten**) Institute (850 employees ;130M€ budget ; 550 patents portfolio) develops all aspects of nanomaterial design, manufacturing and handling with safe techniques, on industrial relevant technology platforms. Liten is especially focused on the study and functionalization of nanoobjects (nanotubes, nanodots, graphene), nanopowders (advanced ceramics, nanotracers) and nanostructured surfaces by wet and dry techniques.

## **Areas of Activity**

## The European Green Vehicles Initiative

- GV-01-2017 Optimisation of heavy duty vehicles
   for alternative further use
  - for alternative fuels use

## **Cooperation Profiles**

## Partner: GASON ongoing H2020 program on natural gas depollution

• Surface deposition of highly active and low loaded catalyst by Chemical Vapor Deposition (CVD) process • Develop high efficiency catalysts (heterostructures) for after treatment dedicated to CNG DI engine • Analysis of the catalysts by micro and nano techniques • Tests of the 2 inches diameter post treatments modules in a light off CO bench • Realization of the full size modules Previous experience : • Catalyst optimization for Diesel Oxydation and Three Way Catalyst engines • Deposition of metal (Pt, Cu, alloys..) by Chemical Vapor Deposition and study of the ageing . Enhanced stability by addition of co-dopants.

## Partner: catalytic converters for natural gaz, gazoline and diesel engines

• Surface deposition of highly active and low loaded catalyst by Chemical Vapor Deposition (CVD) process • Develop high efficiency catalysts (heterostructures) for after treatment dedicated to CNG DI engine • Analysis of the catalysts by micro and nano techniques • Tests of the 2 inches diameter post treatments modules in a light off CO bench • Realization of the full size modules

# **Computer Science Laboratory - University of Tours**

0	wie stie w	N
Urda	nisation	Name

Country	France
City	Blois
Street	3 place Jean Jaurès
Website	
Phone	
Organisation Type	University



Person	
Name	Yacine Sam
Email	yacine.sam@univ-tours.fr
Job Position	Associate Professor

#### **Organisation Details**

The Computer Science laboratory (Laboratoire d'Informatique) is composed of 39 Associate- and Full- Professors distributed on four research teams. Yacine is a member of BdTln (Databases and natural language processing) team. The laboratory is part of Tours University, a French multidisciplinary university of about 22000 students.

#### Areas of Activity

Smart and Sustainable Cities and Energy Efficient Buildings

• SCC-1-2016-2017 Smart Cities and Communities lighthouse projects

#### **Cooperation Profiles**

## Partner: Tourism in the context of Smart Cities

Internet of Things (IoT) is an area of innovation and growth. It is more and more present in our daily lives in application areas like Smart Car and mobility, Smart Home and assisted living, Tourism and Smart Cities (and regions). As the IoT continues to develop, it can be interesting to combine it with latest generation of technologies and ideas such as Web services and Semantic Web in order to build solutions allowing Cities to be smarter. Buildings in the cities of the future will in fact be equipped with several kind of devices that will allow a remote control of several functionalities. Such buildings will also be able to produce and communicate different kinds of interesting information (environmental, commercial, touristic, etc.) using standard technologies in order to ensure interoperability. Exploring and combining this information can bring a value-added information to a final user. It can be the case in a touristic context where IoT, Web services, and semantic Web can help a tourist to access to the touristic information and to find the best itinerary (program) based on different information (schedule of public transportation, description of touristic area, meteorological information, geocoding operations, etc.) form one side and her/his preferences and constraints, from the other. We have developed (in the context of a Phd thesis) a Smart prototype assisting tourists in a city to obtain personalized (taking into account tourists' constraints and preferences) and adaptable (taking into account real-time events like weather data or temporary closure of a touristic site for example) touristic itinerary. We are looking for partners for a deeper exploration of the problem and a deployment of the solution at a larger scale.

# Holken Consultants & Partners

#### **Organisation Name**

Country	France
City	Issy-les-Moulineaux
Street	115 Boulevard Rodin
Website	www.holkenconsultants.com
Phone	
Organisation Type	SME



Person	
Name	Hadmut Holken
Email	holken@holkenconsultants.com
Job Position	Managing Director



#### **Organisation Details**

With over 20 years of experience in strategic b-to-b market analysis and custom tailored consulting, Holken Consultants & Partners provide in-depth market analysis for targeted understanding, and consulting as accelerator for innovation market take-up and internationalization.

We operate in convergent media and IT markets and focus on changes in creative, cultural and media industries, but not only. Our missions anticipate new content & services related business models in emerging markets (i.e. for connected TV, interactive advertising, video on demand, mobile TV, access control services, e-learning/serious gaming/ MOOCs, open data, etc.). A strong focus lies on dissemination activities with interdisciplinary and public private partnerships fostering bridges between academics and industries. We support our client's business plan, strategic market approach and take-up. We facilitate and accelerate decision-making for products, services, and applications to find their markets.

#### **Cooperation Profiles**

## **Partner:** Dissemination/communications partner and go-to-the market for innovations

Specializing in b-to-b market research and business consulting in convergent media and IT markets, we anticipate new content & services related business models in emerging (digital) markets and intervene where innovation comes to the market. As part of the Executive Group and Steering Board memeber of the European Technology Platform NEM (New European Media), and particularly in charge of international cooperation (http://nem-initiative.org/), we are able to find further partners through NEM and also through partner platforms. Examples: (1) Within the European funded MOSAIC project (www.mosaic-med.eu), which aimed to set-up technology platforms in the Maghreb and Mashreq regions, our role was to contribute to the SRIA (Strategic Research and Innovation Agenda) and dissemination. (2) Our company is the partner for dissemination in the European co-funded HBB4ALL project on connected TV and accessibility (www.hbb4all.eu). (3) Our company is also involved in social innovation through the coordination of the French public private partnership Media4D, a Think Tank concerning accessibility and media (including smart TV, smart city, smart home and smart energy players, www.socialmedia4d.com). This Think Tank has as a concrete result the media4Dplayer project, which is a French State co-financed collaborative R&D project, where we intervene for dissemination and user behaviour tests and analysis as subcontractors of 2 universities.(www.media4Dplayer.com).

# EDI GmbH - Engineering Data Intelligence

#### Organisation Name

Country	Germany
City	Karlsruhe
Street	Luisenstraße 111
Website	www.engineering-data-intelligence.de
Phone	
Organisation Type	SME

Person	
Name	Mohanad El-Haji
Email	el-haji@edi.engineering
Job Position	Co-CEO



#### **Organisation Details**

Data is the essential production factor for innovative product developments. The advancements in information technology enabled organisations to accumulate ever bigger amounts of this once scarce production factor. The efficient handling of the resulting flood of data and the **effective transformation of incoherent data into usable knowledge** represents one of the key challenges of 21st century product development. Our mission is empowering you to meet this challenge by avoiding cost-intensive surprises and taking the short way to a **systematical, highly automated knowledge-based innovation and development**.

#### Areas of Activity

Factories of the Future

- FOF-10-2017 New technologies and life cycle management for reconfigurable and reusable customised products
- FOF-12-2017 ICT Innovation for Manufacturing SMEs

#### The European Green Vehicles Initiative

- GV-04-2017 Next generation electric drivetrains for fully electric vehicles, focusing on high efficiency and low cost
- GV-06-2017 Physical integration of hybrid and electric vehicle batteries at pack level aiming at increased energy density and efficiency
- GV-07-2017 Multi-level modelling and testing of electric vehicles and their components

#### **Cooperation Profiles**

# **Partner:** German SME founded as a start-up from the Karlsruhe Institute of Technology (KIT) with strong connections to automobile manufacturers and supplieres

Data is the essential production factor for innovative product developments. The advancements in information technology enabled organisations to accumulate ever bigger amounts of this once scarce production factor. The efficient handling of the resulting flood of data and the effective transformation of incoherent data into usable knowledge represents one of the key challenges of 21st century product development. Our mission is empowering you to meet this challenge by avoiding cost-intensive surprises and taking the short way to a systematical, highly automated knowledge-based innovation and development.

# IT Consult

Organisation Name		
Country	Germany	
City	Lilienthal	
Street	Klosterstr	<ul> <li>IT Consult</li> </ul>
Website		II CONDUN
Phone		
Organisation Type	Company	
Person		
Name	Thies Wittig	
Email	t.wittig@idi.ie	
Job Position	Director	in the second second second second second second second second second second second second second second second

#### **Organisation Details**

IT Consult is a small consultant company, founded in 1995. Apart from project management and information dissemination services, it is focusing on support for research policy development in the Mediterranean Partner Countries and training of academia and SMEs on project development through coaching in general. Its main technical focus is on ICT and water management.

So far, IT Consult has been involved in over 25 projects, in six of them as project co-ordinator. The most important projects dealt with ICT policy receommendtions and establishing strategic research agendas; awareness raising and proposal development training for EU Framework Programmes; Technology Transfer in the area of Information Technology.

#### **Areas of Activity**

#### **SPIRE-Circular Economy Session**

- CIRC-01-2017 Systemic, eco-innovative approaches for the circular economy large-scale demonstration projects
- CIRC-02-2017 Water in the context of the circular economy

#### Factories of the Future

 FOF-12-2017 ICT Innovation for Manufacturing SMEs

#### **Cooperation Profiles**

#### Project Management Services

Participated in more than 25 EU framework projects, in 6 as coordinator. Main topic area is ICT but also Energy and Water. IT Consult offers management services for consortia such as progress monitoring, running management meetings, organising public events, or follow-up of financial reporting. Also offered is assistance for proposal development, pre-evaluation of proposals, setting up the consortium agreement.

## Smart and Sustainable Cities and Energy Efficient Buildings

• EEB-07-2017 Integration of energy harvesting at building and district level

#### The European Green Vehicles Initiative

• GV-05-2017 Electric vehicle user-centric design for optimised energy efficiency

# AiM Biomedical Engineering Lab

Organisation Name

Country	Greece
City	Athens
Street	Iroon Polytechniou 9
Website	
Phone	
Organisation Type	University

Person	
Name	Kostas Giokas
Email	kgiokas@biomed.ntua.gr
Job Position	Senior Researcher



#### **Organisation Details**

**Applied Informatics in mHealth (AiM)** was formed in 2014 in order to study the application of Information Technology to real world problems. The AiM Group conducts research in the Healthcare sector and in particular in areas such as Development of Mobile Apps, Big Data, Electronic Health Records, Cloud Applications, Data Analysis & Integration, Decision Support Systems, Data Visualisation, Serious Games, UI Design, Education Technology in Health, Data Modelling.

AiM operates under the Biomedical Engineering Laboratory of the School of Electrical Engineering within the Institute of Communications and Computer Systems, located at the National Technical University of Athens. BEL has to-date completed 120 EU projects and coordinated about 20 of those.

AiM's primary goal is to build relationships with businesses and share its expertise with the business community, establish multi-disciplinary research collaborations with worldwide researchers, while attracting the best students possible, in order to lead them to research degrees that follow on the same path as the research objectives of the group.

The **Institute of Communications and Computer Systems (ICCS)** was founded in 1992. It was founded with the 'charta' to support the performance of top-quality research, development activities and the provision of scientific service to private and public bodies. Essentially the mission of ICCS was to support the deployment, the realization and the growth of the research priorities of ECE mainly through seeking, pursuing and acquiring research funding via the competitive calls for research proposals that the European Commission had instigated. In turn, its purpose has been to build a research personnel base alongside ECE's faculty so as to conduct state-of-the-art research and at the same time improve the research laboratory equipment base and infrastructures of the School.

Furthermore, ICCS has been organized so as to host and to provide research stipends to postgraduate students and post-doctoral researchers. Since its foundation and up to date, ICCS has been growing and maturing within the complex context of the Greek law governing research, innovation and higher education affairs in a country where research resources and funding has been maintained at low levels, in comparison to the majority of the developed European countries.

AiM and BEL were the chairs of the 1st International Conference on Ambient Assisted Living on Internet of Things that took place in Budapest in June 2016

#### **Cooperation Profiles**

## Partner: extending the Smart City of the Future

Our main idea is to provide ubiquitous Healthcare Services that reside in the Smart Home, Smart Car, Smart Neighborhood and span across the Smart City

## Aristotle Univeristy of Thessaloniki, Laboratory of Building Construction and Building Physics, Department of Civil Engineering

#### **Organisation Name**

Country	Greece
City	Thessaloniki
Street	PO BOX 429
Website	
Phone	+302310995770
Organisation Type	University

Person	
Name	Aikaterini TSIKALOUDAKI
Email	katgt@civil.auth.gr
Job Position	assistant professor



#### **Organisation Details**

The Aristotle University of Thessaloniki is the largest university in Greece, since more than 95000 undergraduate and postgraduate students study in one of its 42 Schools. The Laboratory of Building Construction and Building Physics (LBCP) belongs to the School of Civil Engineering and covers the areas of building construction methodology and details, industrialized building systems, building physics, energy conservation, energy performance and conscious design of buildings, environmental assessment of buildings, use of passive solar systems, fire protection and safety, restoration of historic buildings, as well as architectural design.

Since the Laboratory's foundation in 1958, its presence in the scientific community is constant, due to the organization of international conferences and events, participation in national and international research projects and associations. The activities of the Laboratory are mainly performed by its 6 members of the educational staff, 5 PhD researchers and the post-doc researchers.

More specifically, the Laboratory contributes in various applied research programmes with the use of state of the art measurement and recording systems, such as meteorological stations for measuring solar radiation, air temperature, humidity and air velocity, infrared cameras for measuring thermal flux and locating thermal bridges, thermal conductivity meters, heat flux meters, tracer gas system for infiltration/ ventilation measurements, luxmeters, etc.

The research activities of the Laboratory expand over a broad thematology and cover every area of building physics, i.e. daylighting, thermal performance of the building envelope (including the analytical and experimental study of thermal insulation and water proofing materials), design and evaluation of passive solar systems and bioclimatic buildings, green roofs, monitoring and evaluation of the energy performance of buildings (conventional and solar buildings), energy renovation of existing buildings, advanced glazing, solar protection, environmental assessment, life cycle analysis and monument conservation.

Members of the Laboratory have participated in the committees for the elaboration of the new national policy framework for the energy conservation in buildings and especially for the new regulation for the energy efficiency of buildings, as well as the technical instructions for the implementation of the regulation published by the Technical Chamber of Greece. Accordingly, members of the laboratory have participated in several COST actions and European committees.

#### **Areas of Activity**

# Smart and Sustainable Cities and Energy Efficient Buildings

 EEB-05-2017 Development of near zero energy building renovation

- EEB-07-2017 Integration of energy harvesting at building and district level
- EEB-08-2017 New business models for energy-efficient buildings through adaptable refurbishment solutions
- SCC-1-2016-2017 Smart Cities and Communities lighthouse projects
- SCC-02-2016-2017 Demonstrating innovative nature-based solutions in cities

#### **Cooperation Profiles**

## Partner: Energy and environmental upgrade of buildings and urban spaces

The Laboratory of Building Construction and Building Physics has long experience on the areas of building construction methodology and details, industrialized building systems, building physics, energy conservation, energy performance and conscious design of buildings, environmental assessment of buildings, use of passive solar systems, fire protection and safety, as well as restoration of historic buildings. During the last years we have discerned that the key towards the achievement of the European 20-20-20 targets lies with the existing building. This is due to the fact that within the existing European stock, a large share (more than 40%) was built before 1960's when there were only few or no requirements for energy efficiency and only a small part of buildings have undergone major energy retrofits. That means that the great majority is of low insulation levels and is equipped with old and inefficient systems. For these reasons, the oldest part of the building stock contributes greatly to the energy consumption in the building sector. Within this context, we are currently participating as a partner in E2VENT, a H2020 project, which aims on the development a cost effective, high energy efficient, low CO2 emission, replicable, low intrusive, systemic approach for retrofitting of residential buildings, through the integration of an advanced ventilated facade system. Beyond this, we have also made extensive studies on building renovation and restoration subjects, such as the analysis and proposals for the upgrade of the energy performance of municipal buildings in Greece, or the sustainable restoration of public buildings in Greece (Xanthi), Cyprus (public library of Nicosia) and Turkey (historic Theological School of Chalki), etc. At the same time, our interests focus on the study of highly efficient building elements; a few months ago we completed the 3-year research project SYNERGY, funded by national sources, which gave us the opportunity to study building elements in depth, taking into account the aspects of energy, hygrothermal, environmental and fire performance. The outcomes of this project revealed how significant the proper formation of the building elements -and the building envelope in general- is towards the establishment of nearly zero energy buildings. Additionally, we have also worked on urban spaces' design and microclimate formation, which is considered essential for the enhancement of users' comfort and the improvement of building energy efficiency. From all the above it is easily deduced that our particular interest and field of expertise is on the area of building renovation for energy efficiency, as described in calls EEB-05-2017, EEB-07-2017-EEB-0802017. We are also interested in working in projects that go beyond the building element and the building unit, i.e. projects addressing the scale of neighbourhoods, communities or cities, such as SCC-1-2016-2017 and SCC-2-2016-2017). As a member of the Laboratory, I would be very glad to meet you and discuss ideas on these subjects.

# NCSR "Demokritos"

#### **Organisation Name**

Country	Greece
City	Athens
Street	Patr. Gregoriou E' & 27, Neapoleos str.
Website	http://www.demokritos.gr/?lang=en
Phone	
Organisation Type	R&D Institution



# Person Name Nikolaos Kanellopoulos Email n.kanellopoulos@inn.demokritos.gr Job Position President of NCSRD



#### **Organisation Details**

The National Center for Scientific Research "Demokritos" (NCSR "Demokritos") is the largest multidisciplinary research center in Greece, with critical mass in expertise and infrastructure in the fields of Nanotechnology, Energy & Environment, Biosciences, Particle and Nuclear Science, Informatics and Telecommunications.

The NCSR "Demokritos" conducts world-class basic and applied research, for advancing scientific knowledge and promoting technological development in selected areas of national socio-economic interest. The Center also plays a pivotal role in graduate education and professional training and its unique infrastructure is employed for high-technology services to the Industry and the Society.

The NCSR "Demokritos" has contributed significantly and in many ways to:

- The advancement and world-wide recognition of the Hellenic research activity
- The development, diffusion and transfer of high quality know-how to public and private sectors
- The reversal of high-caliber scientific brain drain

- The provision of highly qualified research personnel to the Greek academic community as well as to the Greek Industry

Research activities are currently coordinated by five (5) Research Institutes:

- Institute of Informatics & Telecommunications
- Institute of Biosciences & Applications
- Institute of Nuclear & Radiological Sciences & Technology, Energy & Safety
- Institute of Advanced Materials, Physicochemical Processes, Nanotechnology & Microsystems
- Institute of Nuclear & Particle Physics

#### **Areas of Activity**

#### SPIRE-Circular Economy Session

- SPIRE-08-2017 Carbon dioxide utilisation to produce added value chemicals
- SPIRE-11-2017 Support for the enhancement of the impact of SPIRE PPP projects
- CIRC-01-2017 Systemic, eco-innovative approaches for the circular economy large-scale demonstration projects

 CIRC-02-2017 Water in the context of the circular economy

#### **Cooperation Profiles**

# **Coordinator:** SPIRE-11-2017: Support for the enhancement of the impact of SPIRE PPP projects

Establishement of an effective regional "innovation hub" methodology under the auspices of the local research centers to expand the accessibility of the SPIRE PPP benefits by industrial stakeholders with limited R&D facilities, mainly from Southern and Eastern European regions.

## Partner: H2020 research collaboration

NCSR Demokritos Research Center through EU Program Office is seeking to collaborate with Research Centers, Universities and Small-medium enterprises in the fields of Nanotechnology, Energy & Environment, Particle and Nuclear Science. Currently looking for projects within the NMBP- and Energy 2016-2017 calls, and are open for others as well. The main aim of the organization is to provide high quality of products and services in SMEs and industries but also to develop breakthrough technologies. This has been accomplished successfully by National, European and Private funding. NCSR Demokritos has participated and coordinated more than 100 projects funded by FP6, FP7 and Horizon 2020.

# **Coordinator:** Converting CO2 into valuable chemicals with negative carbon footprint (Spire, NMBP 2016-2017)

Project Idea: The proposed technologies will enable industries to widely use large amounts of CO2 as a feedstock for synthesizing valuable chemicals such as hydrogen and acetate, substituting the use of detrimental to environment fossil fuels and introducing a highly cost-efficient process that, does not require external energy consumption and avoids intermediary steps making conversion of CO2 in proposed earlier technologies less efficient. Since, existing photocatalytic systems were not economically viable, the team set out to provide scalable technology as a basis for development of marketable solar chemical systems for the production of hydrogen and liquid solar fuels.

## PLANET SA

#### **Organisation Name**

CountryGreeceCityATHENSStreetLouise Riencourt 64Websitewww.planet.grPhoneCompany



HAEL KOUMERI
m@planet.gr
ctor of EU R&I UNIT



Greece

#### **Organisation Details**

PLANETSA is a Greek Management Consulting Company which provides a full range of integrated services to public and private institutions worldwide, responding to the challenges and the increased requirements resulting from the transformation of economies and the globalization of the market. Its positioning in the international market aligns with the priorities and the segmentation adopted by the entire development strategy of the company. While leadership is exercised in the entire South-eastern Europe and Eastern Mediterranean Region, PLANET's activity distinctly ranks in Brussels Market, Home & Neighbour Market, and the rest international market. In Brussels Market, which is regarded as a demand for services accruing from EU-funded programmes or addressing operational needs of EU institutions or other donors, PLANET provides multiple services in the form of policy advice, technical and scientific assistance, and research & innovation initiatives. In our Home Market (Greece, Bulgaria, Croatia, Cyprus, Romania) and Neighbour Market (Western Balkans and Turkey), PLANET keeps systematically supporting central and regional public administration transformation and restructuring, as well as the privatisation and the private sector consolidation processes. In the rest international market, PLANET mainly responds to the demand created by donor funds worldwide, **offering the following broad range of services in all sectors falling under our expertise.** 

#### Strategy & Finance

Corporate Strategy & Business Planning ?

Integrated Restructuring ?

Privatization Advisory ? Corporate & Project Finance ?

Financial Institutions Transformation

#### **Management Consulting**

Operations Improvement & Performance Management ? Organizational Restructuring & Transformation ? Capacity Building & Institutional Strengthening ? Human Capital Management ? Change Programme Management

#### **ICT Consulting**

Page 36 of 500

ICT Strategy & Transformation ? Enterprise Architecture Design ? IT Programme & Project Management ? nformation & Systems Security ? IT Solutions Delivery

### Infrastructure Development

Policy Development ? Programme Definition and Planning ? Public Investments Programme Management ? Programme Evaluation ? Private Investments Funding & Management

### **Development Consulting**

Feasibility, Preparatory & Special Studies ?

Design & Tender Management ?

Programme, Project & Contract Management ?

Construction Management & Supervision ?

Technical Advisory Services

### **Areas of Activity**

### **Factories of the Future**

- FOF-10-2017 New technologies and life cycle management for reconfigurable and reusable customised products
- FOF-12-2017 ICT Innovation for Manufacturing SMEs

### Smart and Sustainable Cities and Energy Efficient Buildings

- EEB-08-2017 New business models for energy-efficient buildings through adaptable refurbishment solutions
- EE-12-2017 Integration of Demand Response in Energy Management Systems while ensuring interoperability through Public Private Partnership

### **Cooperation Profiles**

### **Partner:** Proposal for the Call EB-08-2017 New business models for energy-efficient buildings through adaptable refurbishment solutions

The overall objective of the project is to strengthen the capacities of public authorities in the EU to stimulate the development, adoption and market-uptake of innovative sustainable energy solutions, by acting as 'launching customers' of market development and change and thus meeting the EED 2020 targets. The specific objectives of the project are to: ? Objective 1: Develop a novel toolbox and practical guidelines for the design of public tenders in order to ensure market stimulation of innovative and energy efficient solutions (for selected categories of buildings, services and products, including fast-evolving green ICTs), targeting both existing/state-of-art and tailored solutions. ? Objective 2: Enhance exchange of know-how, cooperation and networking between EU public procurement authorities and officials in the market up-take of energy efficient solutions via public procurement in order to achieve transfer of good practices especially in new forms of public procurement (such as PCP, joint procurement). ? Objective 3: Improve the capacities and skills of public procurement officials related to the design and implementation of measures stimu-

lating market take-up of innovative energy-efficient solutions and to support public procurement authorities to design public tenders in selected cases by employing the InnoWatt toolbox and practical guidelines. ? Objective 4: Develop Policy Recommendations at the EU and National level on the stimulation of market transformation towards innovative and energy-efficient solutions and overcoming barriers for performing public procurement in line with the EED at all levels (political, legislative, administrative, procedural, technical, financial).

# π-Technologies

### **Organisation Name**

Country	Greece	
City	Katerini	
Street	Pl. Dimarcheiou 19	
Website	http://pi-tech.gr	
Phone		
Organisation Type SME		



Person		
Name	Spyridon Blatsios	
Email	sblatsios@pi-tech.gr	
Job Position	Project Manager	T

### **Organisation Details**

**\pi** - **Technologies** is a spinoff company of Platon Ltd and it started aiming to the capitalization of the educational technology initially developed with-in Platon Ltd. In now days  $\pi$  – Technologies is aiming to the following markets:

### Natural Based Solutions

### **Cultural Heritage**

### **Research Management**

### Areas of Activity

# Smart and Sustainable Cities and Energy Efficient Buildings

- EEB-05-2017 Development of near zero energy building renovation
- EEB-07-2017 Integration of energy harvesting at building and district level
- SCC-02-2016-2017 Demonstrating innovative nature-based solutions in cities
- SC5-21-2017: Cultural heritage as a driver for sustainable growth (Heritage-led rural regeneration)

### **Cooperation Profiles**

### Coordinator: Su.R.Re.

Sustainable Rural Regeneration, is an innovative project on Rural Regeneration. The project's ambition is to set the framework for a Rural Regeneration Strategy that it will influence the way that investments are supporting the rural area, and the businesses, and the people and places within it. Rural areas with cultural Heritage have the potential for growth. The rural economies must increase the value of their economic output, and this can be achieved in part by attracting new businesses which operate in higher value sectors and markets, as the cultural heritage sector, but will also require existing companies (of low, medium and high output values) to increase their productivity by adding value to their output and exchanging lower value for higher value activity. An ambitious team from Greece, Portugal, Spain, Italy, Belgium with innovative ideas on Rural Regeneration seeks for partners in order to finalise the partnership

# **Budapest Waterworks**

### **Organisation Name**

Country	Hungary
City	Budapest
Street	Váci 23-27.
Website	www.vizmuvek.hu
Phone	+36204004758
Organisation Type	Company

Person	
Name	Adrienn Dienes
Email	adrienn.dienes@vizmuvek.hu
Job Position	tender coordinator



### **Organisation Details**

Considering its size and level, Waterworks of Budapest (Hungary) is among the outstanding water utility suppliers of the Central European region.

Our company – which celebrated the 148th anniversary of its foundation – supplies more than 2 million people with healthy piped potable water day after day. Beside the capital city, Budapest, the company sells excellent quality potable water in bulk to 21 settlements around the capital city; it supplies industrial water for industrial customers; moreover, it provides several settlements in the conurbation area with waste water treatment services.

Our company operates the **Budapest Central Waste Water Treatment Plant**, which plant has a user equivalent of 1,600,000, is of 350,000 m3/day capacity and has adopted state-of-the-art technological solutions thanks to its closed technology through environmental friendly mechanical, chemical and biological treatment.

Our company has undergone major transformation for the last decades affecting the ownership structure, the organisational set-up, the applied technologies and the core activities of our organisation. We have developed from socialist city potable water utility to an internationally recognized regional company operating water and sewage plants and networks. During this journey, we have gained extensive experience in restructuring operations; implementation, integration and development of state-of-the-art technologies; reorganisation and process management; transformation of financial, accounting systems; efficiency improvement; development of customer service processes; which we are ready to share with our partners who are still ahead of these changes so that they could respond to modern market expectations in the most efficient way.

### Areas of Activity

# Smart and Sustainable Cities and Energy Efficient Buildings

- SCC-1-2016-2017 Smart Cities and Communities lighthouse projects
- SCC-02-2016-2017 Demonstrating innovative nature-based solutions in cities
- SC5-08-2017 Large-scale demonstrators on naturebased solutions for hydro-meteorological risk reduction

### **Cooperation Profiles**

**Coordinator:** Water supply and sewage management in Budapest and surrounding settlements

хх

# **Budapest Waterworks**

### **Organisation Name**

Country	Hungary
City	Budapest
Street	Váci út 23-27
Website	
Phone	
Organisation Type	Company

Person	
Name	Gábor Till
Email	gabor.till@vizmuvek.hu
Job Position	senior consultant



### **Organisation Details**

Water supply and sewage management in Budapest and surrounding settlements

### **Areas of Activity**

# Smart and Sustainable Cities and Energy Efficient Buildings

- SCC-1-2016-2017 Smart Cities and Communities lighthouse projects
- SCC-02-2016-2017 Demonstrating innovative nature-based solutions in cities
- SC5-08-2017 Large-scale demonstrators on nature-based solutions for hydro-meteorological risk reduction

### **Cooperation Profiles**

### Partner: Water and wastewater solutions in the circular economy

Expertise with H2020: several applications in 2014-2016, 2 wins and running projects. Core competences: water extraction, water treatment, water distrubution, sewage collection, sewage treatment, energy from sewage.

# Budapest Waterworks Plc.

### **Organisation Name**

Country	Hungary	
City	Budapest	
Street	23-27 Vaci str.	
Website	www.vizmuvek.hu	
Phone		
Organisation Type	Company	

Person		
Name	Gabriella GRAFJODINE VARGA	
Email	gabriella.grafjodine@vizmuvek.hu	(interest)
Job Position	advisor	

### Organisation Details

### **Budapest Waterworks**

Considering its size and level, Waterworks of Budapest (Hungary) is among the outstanding water utility suppliers of the Central European region.

Our company – which celebrated the 148th anniversary of its foundation – supplies more than 2 million people with healthy piped potable water day after day. Beside the capital city, Budapest, the company sells excellent quality potable water in bulk to 21 settlements around the capital city; it supplies industrial water for industrial customers; moreover, it provides several settlements in the conurbation area with waste water treatment services.

Our company operates the **Budapest Central Waste Water Treatment Plant**, which plant has a user equivalent of 1,600,000, is of 350,000 m3/day capacity and has adopted state-of-the-art technological solutions thanks to its closed technology through environmental friendly mechanical, chemical and biological treatment.

Our company has undergone major transformation for the last decades affecting the ownership structure, the organisational set-up, the applied technologies and the core activities of our organisation. We have developed from socialist city potable water utility to an internationally recognized regional company operating water and sewage plants and networks. During this journey, we have gained extensive experience in restructuring operations; implementation, integration and development of state-of-the-art technologies; reorganisation and process management; transformation of financial, accounting systems; efficiency improvement; development of customer service processes; which we are ready to share with our partners who are still ahead of these changes so that they could respond to modern market expectations in the most efficient way.

### **Areas of Activity**

Smart and Sustainable Cities and Energy Efficient Buildings

- SCC-1-2016-2017 Smart Cities and Communities lighthouse projects
- SCC-02-2016-2017 Demonstrating innovative naturebased solutions in cities
- SC5-08-2017 Large-scale demonstrators on naturebased solutions for hydro-meteorological risk reduction

### **Cooperation Profiles**

## Coordinator: adviser

# Insight Centre for Data Analytics - University College Cork

Orga	nisation	Name	

-	
Country	Ireland
City	Cork
Street	western road
Website	
Phone	
Organisation Type	University

Person	
Name	carlo manna
Email	carlo.manna@insight-cen- tre.org
Job Position	Senior Postdoctoral Re- searcher

### **Organisation Details**

The Insight Centre for Data Analytics is one of Europe's largest data analytics research organisations, with 350 researchers, more than 40 industry partners and over €88 million of funding.

Insight is made up of four main centres: Insight@DCU, Insight@NUI Galway, Insight@UCC and Insight@UCD as well as a number of affiliated bodies.

Each of Insight's main centres has a long track record of data analytics research. In November 2013 they came together under Science Foundation Ireland as Insight. The size of the centre allows for cooperation on a large scale, which enables the organisation to compete for funding and opportunities at a much higher level than was previously possible.

Our research aims to find solutions for the areas of connected health and the discovery economy.

We are currently conducting research projects whose outcomes are expected to benefit the following fields:

- Chronic Disease Management & Rehabilitation
- Novel Personal Sensing
- Connecting Health & Life Sciences
- Smart Enterprise
- The Future of News and Media
- The Analytical Society
- Discovery Analytics

We are an outward facing research institute and we have strong relationships with business at all levels from SMEs to major multinational corporations. To find out more about what Insight can do for your business click here.

Data analytics is a leading area of research in Ireland and presents a significant opportunity for business and industry. Big data innovation is a strategic priority for the Irish government: Insight Ireland represents the largest investment in a single research centre in the history of the state.

As an academic research institute we are committed to research that has a positive impact on society. We take our responsibility in the realm of big data research seriously and we are committed to protecting the rights of the citizen, through our Magna Carta for Data project.

### Areas of Activity

Smart and Sustainable Cities and Energy Efficient Buildings

EEB-05-2017 Development of near zero energy

building renovation

- EEB-07-2017 Integration of energy harvesting at building and district level
- EEB-08-2017 New business models for energy-efficient buildings through adaptable refurbishment solutions
- EE-12-2017 Integration of Demand Response in Energy Management Systems while ensuring interoperability through Public Private Partnership
- SCC-1-2016-2017 Smart Cities and Communities lighthouse projects
- SCC-02-2016-2017 Demonstrating innovative nature-based solutions in cities
- SC5-21-2017: Cultural heritage as a driver for sustainable growth (Heritage-led rural regeneration)

### **Cooperation Profiles**

# **Coordinator:** Interested in investigating areas of cooperation where Insight can offer its data analytics expertise to new proposals (as coordinator or as a partner)

The proposal abstract: Bike-sharing has seen great development during recent years, both in Europe and globally. However, these systems are far from perfect. The uncertainty of the customer demand often leads to an unbalanced distribution of bicycles over the time and space (congestion and/or starvation), resulting both in a loss of customers and a poor customer experience. Finding a solution to this and related public transportation problems requires advances in real-time optimization of resources, and in data analysis for human mobility. In this proposal, we will develop a real-time decision analytics system for bike-sharing. It will combine the standard fixed base stations with movable stations (using trucks), which will able to be dynamically re-allocated according to the upcoming forecasted customer demand during the day. To accomplish this task, we will combine predictive analytics techniques in order to continuously forecast customer demands, and prescriptive analytics techniques (decision analytics algorithms for the optimal redeployment/rebalancing of the moveable stations/bicycles among the stations in real-time), to better match the expected customer demands. This innovation will (1) significantly improve the performance of bike-sharing systems and, (2) the proposed computing approach can be transferred in other contexts, such as in car-sharing, ridesharing, taxis, buses and to multimodal transport systems. Our Profile: The Insight Centre for Data Analytics is Ireland's leading research centre for the study of Data Analytics. It is a joint initiative between University College Dublin, Dublin City University, NUI Galway and University College Cork. Insight Centre counts more than 350 researchers, 8 Institutions, 30 industrial partners and 88M Funding (http://insight-centre.org/). The centre performs fundamental and applied research in a range of research areas, including data analytics, recommender systems, real-time analytics, data streams and sensor networks, knowledge discovery, natural language processing, social network analysis, among others. Insight's academics have been awarded about 67 FP7 projects under different funding instruments of which 11% as coordinator. Under the New H2020 Framework, Insight has already secured 16 awards of which 9 as coordinator. Research outcomes are applied in use cases in a range of domains, including eBusiness, eHealth, Green & Sustainable IT, Smart Cities, Smart Buildings, and Life Sciences. Insight use cases have been implemented with more than 100 industry and public partners In collaborative projects, resulting in more than 1,000 peer-reviewed papers and open source software with millions of users and organisation world-wide including the Irish Central Statistics Office, The UK Data.gov.uk site, the United States Government Data portal data.gov, the European Commission, Yahoo!, Cisco, Microsoft, IBM, and many others. Cooperation Interested in investigating areas of cooperation where Insight can offer its data analytics expertise to new proposals. At Insight University College Cork, our expertise includes: • Process optimization • Reasoning under uncertainty • Resource allocation and capacity analysis • Product configuration and design • Planning and scheduling • Predictive analytics and modelling • Risk Management • Supply chain management Our expertise has horizontal application with key areas of interest being: • Cloud Computing • Disaster Management • Energy Efficiency • Environmental Sustainability • Equipment Monitoring • Healthcare • Internet Commerce • Life Sciences • Logistics • Manufacturing • Network Management • Smart Buildings • Supply Chain Management • Telecommunications • Transportation Insight@UCC has the capacity to coordinate as well as work as a WP leader and we would be most interested in being contacted by organizations that are currently developing proposals or anyone interested in examining potential areas of cooperation.

Powered by B2Match ©

# Tyndall National Institute

Over planting	
Organisation	Name
•••••••••••••••••••••••••••••••••••••••	

Ireland
Cork
Dyke Parade
www.tyndall.ie
R&D Institution

Person	
Name	Martin O'Connell
Email	martin.oconnell@tyndall.ie
Job Position	EU programme Officer



### **Organisation Details**

Tyndall National Institute is one of Europe's leading research centres in ICT hardware and systems. We specialise in electronics and photonics - materials, devices and systems. We are globally leading in our core research areas of:

Nano & Micro Systems • Photonic Integration • Nano Materials & Structures • Materials & Device Processing •
 Flexible Wafer Fabrication

With a network of over 200 industry partners and customers worldwide, we are focused on delivering real impact from our excellent research. We generate approx. €30M in income each year, with over 85% coming from competitively won contracts. Our institute hosts the only full Si CMOS, Micro-Electronic-Mechanical Systems (MEMS) and III-V Wafer Semiconductor fabrication facilities and services in Ireland. We are experts at designing, miniaturising and prototyping products particularly in the electronics, medical devices, energy and communications sectors. As Ireland's largest research institute, we host over 460 researchers, engineers and support staff, including over 120 full-time postgraduate students. Together we generate over 200 peer-reviewed publications each year. We have been a lead partner in European ICT enabled research worth approx. €48M, including €10M for Irish partners from the EU Framework 7 programme. Tyndall continues to deliver value to European research in H2020 with 26 projects funded so far (4 coordinated).

### Areas of Activity

### Factories of the Future

- FOF-06-2017 New product functionalities through advanced surface manufacturing processes for mass production
- FOF-08-2017 In-line measurement and control for micro-/nano-enabled high-volume manufacturing for enhanced reliability
- FOF-09-2017 Novel design and predictive maintenance technologies for increased operating life of production systems
- FOF-12-2017 ICT Innovation for Manufacturing SMEs

### Smart and Sustainable Cities and Energy Efficient Buildings

- EEB-05-2017 Development of near zero energy building renovation
- EEB-06-2017 Highly efficient hybrid storage solu-

### The European Green Vehicles Initiative

• GV-05-2017 Electric vehicle user-centric design for optimised energy efficiency tions for power and heat in residential buildings and district areas, balancing the supply and demand conditions

- EEB-07-2017 Integration of energy harvesting at building and district level
- EEB-08-2017 New business models for energy-efficient buildings through adaptable refurbishment solutions
- SCC-1-2016-2017 Smart Cities and Communities lighthouse projects

### **Cooperation Profiles**

### **Partner:** EEB-05-2017: Development of near zero energy building renovation/ FoF-09-2017: Novel design and predictive maintenance technologies for increased operating life of production systems.

Tyndall is heavily involved as partner in at least the above 2 calls with deadline in January 2017. In these proposals, we deploy our wireless sensor network systems for energy harvesting, conditional monitoring and low power computing applications. However, there is still scope for the involvement of end-users in these proposals, particularly those which can supply demo sites to the proposals. In addition Tyndall is looking to join consortia in selected EeB and FoF areas (EeB06, EeB07, EeB08, FoF06, FoF8, FoF12 and GV05). We are currently involved in 31 H2020 proposals (5 as coordinator)

# Battery Switchy Ltd.

### **Organisation Name**

Country	Israel	
City	Yokneam-Moshava	
Street	Yeffe Nof 6	
Website	www.switchy.co.il	
Phone		
Organisation Type	SME	

Meir Teichner
meir@switchy.co.il
CEO



### **Organisation Details**

**Battery Switchy Ltd.** has developed a sophisticated batteries and battery swapping machines for e-scooters and in the future for other light e-vehicles such as mobility e-scooters and e-bicycles. The company mission is to provide universal e-scooter's smart swappable batteries and smart swapping machines that will allow limitless riding range for as many as city's e-scooters models.

### Areas of Activity

### The European Green Vehicles Initiative

 GV-10-2017 Demonstration (pilots) for integration of electrified L-category vehicles in the urban transport system

### **Cooperation Profiles**

# **Coordinator:** GV-10-2017: Demonstration (pilots) for integration of electrified L-category vehicles in the urban transport system

I wish to be the coordinator. Our organization competence relies on our experience of developing batteries swapping kiosks for electric light vehicle (L-Category). The idea have been to get the e-scooters free of the Range Anxiety associated with electric vehicles. The kiosks are spread in the city with available charged batteries. The e-rider gets a signal that his e-scooter battery runs out of energy and he is directed via his smart phone to the closest kiosk with available charged batteries. The system identifies the rider as a suscribed customer and he / she can replace batteries in less than 1 minute. There should be data logging and automatic billing. I personally was involved in a FP6 R&D project named Nanoprim, and in another H2020 project and know how to manage a consortium.

# Terragenic Ltd.

Organisation Name		
Country	Israel	
City	Ashkelon	
Street	PO Box 7284, North Industrial Zone	
Website	www.terragenic.com	
Phone		
Organisation Type	SME	

Person		
Name	Guy N. Michrowski	
Email	guy@terragenic.com	
Job Position	CEO	

### **Organisation Details**

Battery reinvented. Terragenic's revolutionary hydrogen energy storage technology enables a battery with five times the energy of standard batteries and with only few seconds charging time.

Using our solution, E-bus driving range can be extended from 250km (battery based) to 1,100km (Terragenic based), assuming same battery weight. A smart phone can charged in few seconds and run for five days.

Our innovative, patent pending, hydrogen-on-demand system is rich in energy while being completely safe, green and cost competitive. Terragenic's technology's application space is vast and includes batteries for electric vehicles, e-bikes, drones, smart phones and off-grid/back-up mass-storage and power generation devices.

### Areas of Activity

### The European Green Vehicles Initiative

- GV-01-2017 Optimisation of heavy duty vehicles for alternative fuels use
- GV-04-2017 Next generation electric drivetrains for fully electric vehicles, focusing on high efficiency and low cost
- GV-10-2017 Demonstration (pilots) for integration of electrified L-category vehicles in the urban transport system

### **Cooperation Profiles**

### **Partner:** BoroHydride Synthesis for Safe & Cost-Competitive Hydrogen Fuel in Emissions-Free Transportation Applications

Terragenic's revolutionary hydrogen energy storage technology enables a battery with five times the energy of standard batteries and with only few seconds charging time. For example , using our solution, E-bus driving range can be extended from 250km (battery based) to 1,100km (Terragenic based), assuming same battery weight. Our solutions falls well into the "green vehicle initiative" as we provide a solution that enables safe, cost competitive and zero-emission energy storage for vehicles. Terragenic has developed a process for the storage and generation of Hydrogen gas in a fuel form (called T-Fuel™) to vehicles running on PEM Fuel Cells. T-Fuel™ is based on an Alkali Borohydride (xBH4) aqueous solution which has high energy density and is safe (non-flammable, non-explosive and stored in ambient conditions). A proprietary, non-expensive Terragenic catalist (T-Cat™), releases the hydrogen that is stored in the T-Fuel™ at the required rate (on-demand). The spent fuel is recycled back to its full potential as T-Fuel™ in a proprietary process called T-Pot™ The T-Pot™ process ensures our solution to be green (recycled fuel) and cost competitive not only with compressed Hydrogen but even with petrol. For example the cost of driving 100km with the Toyota Mirai, using our fuel, would be 30% lower than driving similar size car using petrol! We seek partners to establish our first European T-Pot<sup>™</sup> plant, so we could begin producing and recycling the T-Fuel<sup>™</sup>, and enable demonstration and testing of Terragenic powered Hydrogen fuel-cell vehicles (e-bus, e-truck to name a few). Our T-Pot<sup>™</sup> technology is of particular interest to Turkish partners, as our T-Fuel<sup>™</sup> is based on Boron, a chemical which Turkey holds 80% of its reserves, and as such Turkey is in on-going search for new usage of this material.

# COBASE Basic Technical Scientific Association (ECOSOC)

Organisation Name

Country	Italy
City	Rome
Street	via Vitorchiano, 23
Website	
Phone	
Organisation Type	Association/Agency

Person	
Name	Stefano Mannacio
Email	cobase@tin.it
Job Position	project director

### Organisation Details

COBASE Basic Technical Scientific Association is a research and planning organization which was constituted by a team of researchers and professionals. Since 2003 COBASE, has been granted the special consultative status with the UN Economic and Social Council (ECOSOC), this means that COBASE has a special competence and is concerned specifically with some of the fields of activity covered by ECOSOC.

COBASE is a Major Group with the UN Commission for Sustainable Development (CSD) and is fully accredited to participate in the works and projects of various UN programs and can join the work of several conventions relevant to promote sustainable development worldwide. COBASE is involved in activities of study and design according to the area of energy and sustainable management of resources.

The aim of organization is to produce research and projects as far as the renewable use of energy, sustainable development and the fight against poverty are concerned.

Due to the interdisciplinary – intersectional approach COBASE acts in the framework of UN convention as scientific body, advocating the issue of scientific approach of sustainable development, urbanization and complex systems. COBASE is a promoter of the project "Electrical Cities and Agroecological Parks" and a draft proposal convention for "Future Cities for CCTs and SDGs", that will be presented at next UNFCCC Conference in Marrakesh". According to the abovementioned goal COBASE is involved in the issues of environment, renewable energy and sustainability and designed and realized air, water, electric, solar installations. The Association has carried out projects in the agriculture sector, architecture and urban planning, energy, food safety, quality procedures, has designed solar systems, biogas plants and bioclimatic structures both in the urban area and in agriculture and has been issued some patents by Italian Ministry of Industry. COBASE participated to The Environment Control Commission for the ThermoElectrical Power Plan and realized environmental traffic plans.

COBASE has been invited to participate, as a chair in economic fora and Development: in particular has been a speaker at the Italian Syrian Economic Forum, and "Africa and Italy Partner in Business Forum

In the last time COBASE concentrated its research interests on the subject of management and development of cities from a scientific c and technical point of view and specialized in the complex systems.

Since more than 70% of the world population will be living in cities by the year 2025, the phenomenon of urbanization poses a major problem. Cities are places where a multitude of exchanges take place and whose overall increase in entropy must be offset by the release of resources. For these reasons appropriate and efficient urban solutions will play a key role in the coming years.

With the project: "Electrical Cities and Agroecological Parks (ECAP)" we design human settlements that mimic natural ecosystems, with the use of high efficiency electricity, interventions on energy, water and sanitation, the use of a bio-circular economy and the creation of agro-ecological and eco-productive parks. This is a strategy to restore the balance of critical urban systems and to achieve both the Sustainable Development Goals (SDGs) and Climate Change Targets (CCTs) over the next years

With project concept: "Electrical Cities and Agro-ecological Parks" we will focus on how to design natural cities for the future and how to recover and adapt existing cities and will discuss policy recommendations and implementation strategies for effective urban solutions and issues related to environment, energy, agroecology, mobility, infrastructure and other matters.

The project will provide solutions to technical, environmental, financial and social feasibility for the future development and well-being of urban settlements. The project, with the supplying of indicators, principles, guidelines and a program of actions and activities, will also provide inputs that could be interesting for multiple stakeholders, including mayors, policymakers, experts, artists, academics, students and representatives from the private sector and civil society. Finally with this project we will make a contribution to the implementation of international programs like the UN Habitat III and the UN FCCC COP22.

### **PROJECT** Main Activities:

ELECTRICAL CITIES AND AGROECOLOGICAL PARKS

**RENEWABLE CITY** 

**BIOCLIMATIC ASYMMETRICAL BUILDINGS AND CITIES** 

FUTURE CITIES FOR CCTs AND SDGs

URBAN AGROECOLOGY PLANS

### TAKING CARE OF ONE'S HEALTH WITH FOOD IN AFRICA AND WORLDWIDE. THE FACTORY OF BAOBAB

### Areas of Activity

### SPIRE-Circular Economy Session

- SPIRE-09-2017 Pilot lines based on more flexible and down-scaled high performance processing
- CIRC-01-2017 Systemic, eco-innovative approaches for the circular economy large-scale demonstration projects

### Factories of the Future

• FOF-10-2017 New technologies and life cycle management for reconfigurable and reusable customised products

# Smart and Sustainable Cities and Energy Efficient Buildings

• SCC-1-2016-2017 Smart Cities and Communities lighthouse projects

### The European Green Vehicles Initiative

• GV-08-2017 Electrified urban commercial vehicles integration with fast charging infrastructure

### **Cooperation Profiles**

### Coordinator: Future cities for CCTs and SDGs

Making a contribution to the implementation of international programs like the UN Habitat III and the UN FCCC COP22. Defining a strategy to restore the balance of critical urban systems and to achieve both the Sustainable Development Goals (SDGs) and Climate Change Targets (CCTs) over the next years. Providing solutions to technical, environmental, financial and social feasibility for the future development and well-being of urban settlements and for issues related to environment, energy, agroecology, mobility, infrastructure and other matters.

### Coordinator: Future Cities for CCTs and SDGs

Making a contribution to the implementation of international programs like the UN Habitat III and the UN FCCC COP22. Defining a strategy to restore the balance of critical urban systems and to achieve both the Sustainable Development Goals (SDGs) and Climate Change Targets (CCTs) over the next years. Providing solutions to technical, environmental, financial and social feasibility for the future development and well-being of urban settlements and for issues related to environment, energy, agroecology, mobility, infrastructure and other matters.

# COBASE Basic Technical Scientific Association (ECOSOC)

Organisation Name

-	
Country	Italy
City	Rome
Street	via Vitorchiano, 23
Website	
Phone	
<b>Organisation Type</b>	Association/Agency

Person	
Name	Massimo Pieri
Email	cobaseu@gmail.com
Job Position	president

### **Organisation Details**

COBASE Basic Technical Scientific Association is a research and planning organization which was constituted by a team of researchers and professionals. Since 2003 COBASE, has been granted the special consultative status with the UN Economic and Social Council (ECOSOC) and is represented this means that COBASE GEN has a special competence and is concerned specifically with some of the fields of activity covered by ECOSOC.

COBASE is a Major Group with the UN Commission for Sustainable Development (CSD) and is fully accredited to participate in the works and projects of various UN programs and can join the work of several conventions relevant to promote sustainable development worldwide. COBASE is involved in activities of study and design according to the area of energy and sustainable management of resources.

The aim of organization is to produce research and projects as far as the renewable use of energy, sustainable development and the fight against poverty are concerned.

Due to the interdisciplinary – intersectional approach COBASE acts in the framework of UN convention as scientific body, advocating the issue of scientific approach of sustainable development, urbanization and complex systems. COBASE is a promoter of the project "Electrical Cities and Agroecological Parks" and a draft proposal convention for "Future Cities for CCTs and SDGs", that will be presented at next UNFCCC Conference in Marrakesh". According to the abovementioned goal COBASE is involved in the issues of environment, renewable energy and sustainability and designed and realized air, water, electric, solar installations. The Association has carried out projects in the agriculture sector, architecture and urban planning, energy, food safety, quality procedures, has designed solar systems, biogas plants and bioclimatic structures both in the urban area and in agriculture and has been issued some patents by Italian Ministry of Industry. COBASE participated to The Environment Control Commission for the ThermoElectrical Power Plan and realized environmental traffic plans.

COBASE has been invited to participate, as a chair in economic fora and Development: in particular has been a speaker at the Italian Syrian Economic Forum, and "Africa and Italy Partner in Business Forum

In the last time COBASE concentrated its research interests on the subject of management and development of cities from a scientific c and technical point of view and specialized in the complex systems.

Since more than 70% of the world population will be living in cities by the year 2025, the phenomenon of urbanization poses a major problem. Cities are places where a multitude of exchanges take place and whose overall increase in entropy must be offset by the release of resources. For these reasons appropriate and efficient urban solutions will play a key role in the coming years.

With the project: "Electrical Cities and Agroecological Parks (ECAP)" we design human settlements that mimic natural ecosystems, with the use of high efficiency electricity, interventions on energy, water and sanitation, the use of a bio-circular economy and the creation of agro-ecological and eco-productive parks. This is a strategy to restore the balance of critical urban systems and to achieve both the Sustainable Development Goals (SDGs) and Climate Change Targets (CCTs) over the next years

With project concept: "Electrical Cities and Agro-ecological Parks" we will focus on how to design natural cities for the future and how to recover and adapt existing cities and will discuss policy recommendations and implementation strategies for effective urban solutions and issues related to environment, energy, agroecology, mobility, infrastructure and other matters.

The project will provide solutions to technical, environmental, financial and social feasibility for the future development and well-being of urban settlements. The project, with the supplying of indicators, principles, guidelines and a program of actions and activities, will also provide inputs that could be interesting for multiple stakeholders, including mayors, policymakers, experts, artists, academics, students and representatives from the private sector and civil society. Finally with this project we will make a contribution to the implementation of international programs like the UN Habitat III and the UN FCCC COP22.

### **PROJECT** Main Activities:

### ELECTRICAL CITIES AND AGROECOLOGICAL PARKS

**RENEWABLE CITY** 

**BIOCLIMATIC ASYMMETRICAL BUILDINGS AND CITIES** 

FUTURE CITIES FOR CCTs AND SDGs

### URBAN AGROECOLOGY PLANS

### TAKING CARE OF ONE'S HEALTH WITH FOOD IN AFRICA AND WORLDWIDE. THE FACTORY OF BAOBAB

### Areas of Activity

### SPIRE-Circular Economy Session

- CIRC-01-2017 Systemic, eco-innovative approaches for the circular economy large-scale demonstration projects
- EE-17-2016-2017 Valorisation of waste heat in industrial systems

### Factories of the Future

 FOF-10-2017 New technologies and life cycle management for reconfigurable and reusable customised products Smart and Sustainable Cities and Energy Efficient Buildings

- SCC-1-2016-2017 Smart Cities and Communities lighthouse projects
- SCC-02-2016-2017 Demonstrating innovative nature-based solutions in cities
- SC5-21-2017: Cultural heritage as a driver for sustainable growth (Heritage-led rural regeneration)

### The European Green Vehicles Initiative

• GV-05-2017 Electric vehicle user-centric design for optimised energy efficiency

### **Cooperation Profiles**

### **Coordinator:** Future Cities for Climate Change Targets (CCTs) and Sustainable Development Goals (SDGs)

In order to reduce the Climate Change impact and meet theindications of SDGs, It is necessary to design human settlements that mimic natural ecosystems, with the use of high efficiency electricity, interventions on energy, water and sanitation for urban poor, the use of a bio-circular economy and the creation of agro-ecological and eco-productive parks.

# EasyLumen SRL

### **Organisation Name**

Country	Italy	
City	Rimini	
Street	Via Galla Placidia 31B	
Website	www.ecosmartgrid.it	
Phone		
Organisation Type	SME	



Person		
Name	Emanuele Morelli	
Email	uff.comunicazione@easylumen.it	I Do to B
Job Position	Communication Coordinator	

### **Organisation Details**

EasyLumen is an Italian company active in smart lighting design and management and as a provider for advanced digital services running on existing electric infrastructures. The mission of EasyLumen is to make an ecological and economical revolution towards the REAL smart city, through a patented and innovative technological system named EcoSmartGrid®. EcoSmartGrid® system radically improves energy and maintenance efficiency within street and private lighting together with the advantage of using the already existing electric infrastructure as a connectivity option for data transmission and giving the opportunity of total remote control for devices: everything manageable by a single software. EasyLumen analyses the condition of the existing fixture and professionally calculates the best cost-per-lumen solution to be installed, providing the latest technology for efficient and smart lighting.

EasyLumen was established in May 2015 and it's an Innovative StartUp since January 2016. Nowadays the company counts 25 employees, of which 80% are engineers (electric, electronic, telco and informatics). By 2Q 2017 we expect to reach over 80 employees. Revenues by 2018 will reach over \$50MIO.

### **Areas of Activity**

### Smart and Sustainable Cities and Energy Efficient Build- The European Green Vehicles Initiative • GV-08-2017 Electrified urban commerce

- SCC-1-2016-2017 Smart Cities and Communities lighthouse projects
- SCC-02-2016-2017 Demonstrating innovative naturebased solutions in cities

### **Cooperation Profiles**

### Partner: Smart cities through smart lighting

EasyLumen Itd enables the hidden multimedia network behind the power outlet: the same infrastructure used for delivering power is used also to deliver communications through Power line Communication. Our core business is to make Smart Cities through Smart Lighting: the company already owns patented technology able to perform remote control, diagnostic and management on street lighting, and to use the preexisting infrastructure to address any advanced digital services. As system integrators we combine powerful and reliable energy efficiency devices with a unique way of using the PowerLine Communication – Broadband and narrowband modulation at the same time. Thanks to this system we are able to allow lightning customization and bring intelligence to networks points (lamps, sensors, cameras...) while supervising it (consumption monitoring, remote commands, point by point monitoring). By adding intelligent control of each individual lamp the street lights, tunnel lights, and parking lot lights can be turned off or dimmed as optimally as possible depending on time, traffic or weather. Lamps that reach the end of their life cycle can be replaced before they fail and energy consumption can be measured and optimized by accommodating new types of lamps. The street lightning network becomes efficient like never before, bringing at the same time advanced digital services to the city. Revenues can be generated in multiple ways. The most profitable one is the money deriving from Energy savings, spanning from 35% to 65% energy savings and from 20% to 40% maintenance savings

N A



 GV-08-2017 Electrified urban commercial vehicles integration with fast charging infrastructure for public lighting. As an example, money saved switching from 75 Mercury vapor gas discharge lamps to 75 new generation High-Pressure Sodium lamps with our reactor and our flux control system pays back the investment in 2.5 years and generate €100k in 10 years' time. LED or HID lamps are used depending on the light engineering; they are tailor made for each situation. Each digital device added in the network can be used for free or premium services (face recognition for VIP entrances, parking, vouchers, electric vehicles recharge, number plate recognition). The citizens will benefit of extra video surveillance based on a wired network (way more cyber secure than radio/wifi connection); spotted wi/fi cells for public areas (avoiding electromagnetic pollution); uniformity of light and less light pollution (see the "The new world atlas of artificial night sky brightness" Falchi et al. Sci. Adv. 2016; 2 : e1600377 10 June 2016) thanks to our lighting design calculations (safer roads, even because we can predict breakages and plan bulbs maintenance); access to electric vehicle hotspots; adaptive traffic light control and traffic sensors will aid the traffic flow; lesser traffic caused by waste collecting trucks (smart waste volumetric system); lesser time of searching a parking spot thanks to cloud based parking sensor network; centralized smart metering system. Smart poles can be fitted with S.O.S. buttons and Automatic External Defibrillators can be installed in any node of the network. In addition, since the installation of every service does not require lying new cables, the whole installation is not bringing any traffic congestion due to construction yards.

Italy

# Ianus Consulting and Development Srl

### **Organisation Name**

Country	Italy	
City	Rome	
Street	via Marino Ghetaldi 33	
Website	www.ianusnet.it	
Phone		
Organisation Type	SME	

INCONSULTING & DEVELOPMENT

Person	
Name	Gaia Moretti
Email	g.moretti@ianusnet.it
Job Position	Head of Communication



### **Organisation Details**

Ianus Consulting and Development is an Italian Consulting & Engineering firm established in 2010, offering services of managerial and professional advice in the field of energy and sustainability. We provide project development, management and engineering services on Power System and Power Plants engineering, electrical, control and thermal engineering, PV systems, smart grids and smart city solutions; we also provide support to the business development, reorganization and training. Our partners have more of 30 years of experience in generation, distribution, management and organizational development for big, medium and small companies, in the public and the private sector. We provide concepts and solutions for smart cities and communities, thank to our multidisciplinary competence system. Our business network spans over Italy, Mediterranean Area, Balkans, Latin America.

### Areas of Activity

### Smart and Sustainable Cities and Energy Efficient Buildings

- SCC-1-2016-2017 Smart Cities and Communities lighthouse projects
- SC5-21-2017: Cultural heritage as a driver for sustainable growth (Heritage-led rural regeneration)

### **Cooperation Profiles**

### Partner: Smart Cities and Communities

As a consulting company, we have developed several projects in the field of Smart cities and communities, also participating as subcontractor and/or partner in some FP7 and H2020 project proposals. Our aim is to develop a project proposal on the Smart Community model especially for small communities, creating a best practice replicable in different countries.

# Ianus Consulting and Development srl

### **Organisation Name**

Country	Italy	
City	Rome	
Street	Via Marino Ghetaldi 33	
Website	www.ianusnet.it	
Phone		
Organisation Type	SME	

Tiziano Palopoli
tizianopalopoli@gmail.com
Architect



### **Organisation Details**

Ianus Consulting and Development is an Italian Consulting & Engineering firm established in 2010, offering services of managerial and professional advice in the field of energy and sustainability. We provide project development, management and engineering services on Power System and Power Plants engineering, electrical, control and thermal engineering, PV systems, smart grids and smart city solutions; we also provide support to the business development, reorganization and training. Our partners have more of 30 years of experience in generation, distribution, management and organizational development for big, medium and small companies, in the public and the private sector. We provide concepts and solutions for smart cities and communities, thank to our multidisciplinary competence system. Our business network spans over Italy, Mediterranean Area, Balkans, Latin America.

### **Areas of Activity**

# Smart and Sustainable Cities and Energy Efficient Buildings

- SCC-1-2016-2017 Smart Cities and Communities lighthouse projects
- SC5-21-2017: Cultural heritage as a driver for sustainable growth (Heritage-led rural regeneration)

### **Cooperation Profiles**

### Partner: Smart Cities and Communities

As a consulting company, we have developed several projects in the field of Smart cities and communities, also participating as subcontractor and/or partner in some FP7 and H2020 project proposals. Our aim is to develop a project proposal on the Smart Community model especially for small communities, creating a best practice replicable in different countries.

# Italian Development Cooperation Agency

### Organisation Name

Country	Italy
City	Rome
Street	Via Salvatore Contarini, 25
Website	
Phone	
Organisation Type	Association/Agency

Person	
Name	paola maria angela galliani
Email	paola.galliani@esteri.it
Job Position	Espert

### **Organisation Details**

Italian Development Cooperation Agency is the tecnic office of Mynistery Italian Foreign Affair. The Agency was born in 2016, it has officy in Italy and in eighteen country of the word.

web site www.agenziacooperazione.gov.it

### Areas of Activity

### Smart and Sustainable Cities and Energy Efficient Buildings

- EEB-05-2017 Development of near zero energy building renovation
- EEB-06-2017 Highly efficient hybrid storage solutions for power and heat in residential buildings and district areas, balancing the supply and demand conditions
- EEB-07-2017 Integration of energy harvesting at building and district level
- EEB-08-2017 New business models for energy-efficient buildings through adaptable refurbishment solutions
- EE-12-2017 Integration of Demand Response in Energy Management Systems while ensuring interoperability through Public Private Partnership
- SCC-1-2016-2017 Smart Cities and Communities lighthouse projects
- SCC-02-2016-2017 Demonstrating innovative nature-based solutions in cities
- SC5-08-2017 Large-scale demonstrators on nature-based solutions for hydro-meteorological risk reduction
- SC5-21-2017: Cultural heritage as a driver for sustainable growth (Heritage-led rural regeneration)

# LAB. INNTECH SRL

### **Organisation Name**

Country	Italy	
City	CATANIA	
Street	MONS.VENTIMIGLIA 126	
Website	www.laboratorioinntech.it	
Phone		
Organisation Type	SME	

Person		
Name	FRANCESCO GALVAGNO	
Email	galvagnof@libero.it	
Job Position	DIRECTOR	

### **Organisation Details**

Lab.inntech srl is an engineering company, represented by Dr.Eng. Francesco Galvagno, who also held the position of Technical Director. The Eng.Galvagno, free of proven professional and consolidated experience in the field of spatial planning and civil engineering, is the creator of several industrial patents relating to mobility, energy, sustainable building, green energy, as well as author of numerous proposals design in various international competitions of ideas on sustainable development, such as the prestigious Holcim Awards competition and YAC.

The company, for its research activities, relies on the advice of specialists in specific areas, such as computer scientists, geologists, geotechnical, etc. and the ongoing collaboration of faculty at MIT in Boston and Stanford University in Palo Alto, California, in the field of automated systems, and the Faculty of Engineering of the University of Catania, in the field of seismic risk reduction.

In recent years the following sustainable innovation projects have been developed:

- Mobility: electric mobility because suspended, revolutionary system for light self-suburban transport links; Combined mobility system for monorail and land, self-built electric transportation urban / extra-urban; urban traffic regularization system, network of intelligent traffic lights to speed up traffic and avoid traffic jams;

- Innovative Buildings: Rotating building that follows the course of the sun, innovative prefabricated structure; underground house, energy-efficient residential building and no impact in steep terrain;

- Alternative Energy: plant thermal helium, a fireplace for the production of alternative to the photovoltaic electrical energy;

- Seismic safety: dynamic spherical seismic isolator, versatile self-centering device for each type of construction;

- Hygiene: sterilization and disinfection system water + bidet, for safe use and hygiene in public environments;

- Green energy: Green and facade covers, flexible and adaptable modular panels for insulation and the renovation of buildings; green facade coating with vertical gardens, integrated system with the previous year;

coverage skip loader, for the removal of dust and noise mitigation generated by the resulting materials in urban construction sites.

### Areas of Activity

### The European Green Vehicles Initiative

- GV-04-2017 Next generation electric drivetrains for fully electric vehicles, focusing on high efficiency and low cost
- GV-05-2017 Electric vehicle user-centric design for optimised energy efficiency
- GV-07-2017 Multi-level modelling and testing of electric vehicles and their components
- GV-08-2017 Electrified urban commercial vehicles integration with fast charging infrastructure
- GV-09-2017 Aerodynamic and flexible trucks

 GV-10-2017 Demonstration (pilots) for integration of electrified L-category vehicles in the urban transport system

### **Cooperation Profiles**

### **Coordinator:** INTEGRATED SYSTEM OF ELECTRIC MOBILITY INDEPENDENT THROUGH ROUTE SUSPENDED

Mobility innovative, alternative and complementing the road network, connecting suburban middle distance between cities and places of interest, both residential and tourist congested vehicular traffic daily, through: 1) a park light electric vehicles to operate in car sharing, equipped with special devices; 2) a route suspended from the ground in a straight line for connecting suburban by electric vehicles individual; 3) exchange car parks between traditional and electric vehicles in car-sharing, specially equipped; 4) stations of origin and destination related to the route suspended under point 2; 5) mobility within the city centers and in sensitive areas exclusively through electric vehicles. The route suspended along the lines of more traffic, growing in direct line, reduces distances and avoids critical issues of road network causing traffic jams (intersections, traffic lights, narrow, curved, etc.), with a significant decrease of travel time. It consists of steel frames with two arches which support 2 carrying cables fixed and a power supply cable, for the two directions of traffic, at a height from the ground of m.6 and at a mutual distance variable in dependence of the territory crossed. The electric-powered vehicles, of the type commercially, are equipped with various devices that allow the coupling and uncoupling the route suspended, the control and management of the flow in the maximum safety. They are equipped with a second electric motor disposed above the cockpit which rotates two pulleys which are arranged on the carrying cables thus determining the movement along the suspended. The motor is powered by an electric cable overlying that is coupled simultaneously to the ropes; during movement suspended the electric energy feeds the second motor and recharge the batteries of the vehicles in order to provide greater autonomy during the land routes. The vehicles are equipped with electronic device that manages the speed from beginning to end of the path, limiting it in case of wind, and regulates the mutual distance in order to optimize the flow. The system, object of patent protection - PCT REQUEST -, solves the problem of limited autonomy of electric vehicles that will reduce the diffusion and use for urban and suburban middle distance. The proposed solution, for its high sustainability due to low energy consumption, road safety and the low environmental impact for the reversibility, the simplified adaptability to the orographic conditions of the terrain, the limited dispersion of land, the eco-compatibility of the materials used (steel, cables), allows to dedicate the transit centers and sensitive areas of city centers and related exclusively to electric vehicles with zero emissions - reduction of CO2 emissions and noise - and the naturalization of urban spaces. The system can be replicated in all contexts and directions characterized by daily flow of autonomous vehicles between cities and places of interest, residential, tourism, manufacturing, at the middle distance. For example: • Between city centers and converging interest, such as: city center with residential areas; town with shopping malls; downtown with the airport; city with university centers; town with the metropolitan countries; town with industrial zone. • Between places of interest, such as: Tourist zones with residential areas; town with green areas and parks; airport with airport; marine areas with the metropolitan countries; mountains with the sea; etc.

# NECTAWARE S.r.I.

### **Organisation Name**

Country	Italy	
City	Rome	
Street	Via Arenula 16	
Website	www.nectaware.com	
Phone		
Organisation Type	Company	

Person	
Name	Fabio Patti
Email	f.patti@nectaware.com
Job Position	Sole Director



### **Organisation Details**

- **About our Organization:** We have the aim to produce Innovative Predictive Software for Energy Efficiency & Renewable Energies application, using sensors and big-data transmission/elaborations (e.g. Internet of Things IoT applied to energy sector), with the purpose to create scalable informative dynamic sistems.
- Main Know-how: The products under development of NECTAWARE is composed by an integrated suite of software for energy supply, billing and added-value services (consumption monitoring, energy efficiency, etc.), including an accurate predictive energy demand tool for Traders and Resellers of Energy, combining weather forecast data, pollution data, sociological data and neural sensor real-time data network, with the aim to minimize drammatically the unbalancing of electricity. In particular the innovative Predictive Software platform is capable to deliver a more accurate Electricity demand forecast (at least ahead of 1 day), based on real-time retail electricity usage (using a proprietary neuronal sensors network) of similar user clusters (e.g. Residential, Industrial, Commercial) and according to related market zones, real-time weather forecast (from satellite data-set), sociological and real-time social media sentiment data, in order to improve of about 30%+ the predictive efficiency (performance) on electricity demand. The predictive software platform (with Patent Pending) will be seen as a big brain which can receive inputs and release output, also to storage systems inside Renewable Energy Generation system like Solar PV, in order to coordinate Real-time Billing activities & Demand Side Response services.
- **European projects:** we're searching for collaboration with companies and institutions to be involved in SME Instrument and/or H2020

### **Areas of Activity**

# Smart and Sustainable Cities and Energy Efficient Buildings

- EEB-06-2017 Highly efficient hybrid storage solutions for power and heat in residential buildings and district areas, balancing the supply and demand conditions
- EE-12-2017 Integration of Demand Response in Energy Management Systems while ensuring interoperability through Public Private Partnership

### **Cooperation Profiles**

# **Coordinator:** Predictive energy demand SW as key activation factor for storage systems inside renewable energy generators (i.e. solar photovoltaic).

The products under development of NECTAWARE is composed by an integrated suite of software for energy supply, billing and added-value services (consumption monitoring, energy efficiency, etc.), including an accurate predictive energy demand tool for Traders and Resellers of Energy, combining weather forecast data, pollution data, sociological

data and neural sensor real-time data network, with the aim to minimize drammatically the unbalancing of electricity. In particular the innovative Predictive Software platform is capable to deliver a more accurate Electricity demand forecast (at least ahead of 1 day), based on real-time retail electricity usage (using a proprietary neuronal sensors network) of similar user clusters (e.g. Residential, Industrial, Commercial) and according to related market zones, realtime weather forecast (from satellite data-set), sociological and real-time social media sentiment data, in order to improve of about 30%+ the predictive efficiency (performance) on electricity demand. The predictive software platform (with Patent Pending) will be seen as a big brain which can receive inputs and release output, also to storage systems inside Renewable Energy Generation system - like Solar PV, in order to coordinate Real-time Billing activities & Demand Side Response services.

# **R2M Solution**

### **Organisation Name**

Country	Italy	
City	Pavia	
Street	Via Fratelli Cuzio 42	
Website	www.r2msolution.com	
Phone		
Organisation Type	SME	



Person		
Name	Federico Noris	
Email	federico.noris@r2msolution.com	
Job Position	Innovation Division Manager	

### **Organisation Details**

R2M Solution is an integrated and multi-disciplinary consulting company that aggressively targets filling the gap between research activities and market implementation. We excel at helping companies grow and acting as an accelerator for bringing technologies and services to the market across the fields of Innovation Management, Engineering, Energy, and ICT/Automation. We invest in opportunities, conduct research, and offer pure engineering, energy services, and ICT consulting services. We actively seek spinoff creation opportunities, showcase promising technologies and build clusters for their uptake.

We:

- Connect ideas to funding
- Make research projects better
- Bring research results to market opportunities
- Grow tomorrow's entrepreneurs
- Enable company growth via innovation
- Deliver consulting excellence

### **Areas of Activity**

### SPIRE-Circular Economy Session

- SPIRE-07-2017 Integrated approach to process optimisation for raw material resources efficiency, excluding recovery technologies of waste streams
- SPIRE-11-2017 Support for the enhancement of the impact of SPIRE PPP projects
- CIRC-01-2017 Systemic, eco-innovative approaches for the circular economy large-scale demonstration projects
- CIRC-02-2017 Water in the context of the circular economy
- EE-17-2016-2017 Valorisation of waste heat in industrial systems

### **Factories of the Future**

 FOF-06-2017 New product functionalities through advanced surface manufacturing processes for mass pro-

# Smart and Sustainable Cities and Energy Efficient Buildings

- EEB-05-2017 Development of near zero energy building renovation
- EEB-06-2017 Highly efficient hybrid storage solutions for power and heat in residential buildings and district areas, balancing the supply and demand conditions
- EEB-07-2017 Integration of energy harvesting at building and district level
- EEB-08-2017 New business models for energyefficient buildings through adaptable refurbishment solutions
- EE-12-2017 Integration of Demand Response in Energy Management Systems while ensuring interoperability through Public Private Partnership

duction

- FOF-07-2017 Integration of unconventional technologies for multi-material processing into manufacturing systems
- FOF-08-2017 In-line measurement and control for micro-/nano-enabled high-volume manufacturing for enhanced reliability
- FOF-09-2017 Novel design and predictive maintenance technologies for increased operating life of production systems
- FOF-10-2017 New technologies and life cycle management for reconfigurable and reusable customised products
- FOF-12-2017 ICT Innovation for Manufacturing SMEs

- SCC-1-2016-2017 Smart Cities and Communities lighthouse projects
- SCC-02-2016-2017 Demonstrating innovative nature-based solutions in cities
- SC5-21-2017: Cultural heritage as a driver for sustainable growth (Heritage-led rural regeneration)

### Cooperation Profiles

### **Coordinator:** Looking for breakthrough technologies and residential pilot for EeB05 proposal

We are building a consortium with proven credibility in the EeB field. Coordinator and key partners have won several H2020 in the last years. We are looking for i) "breakthrough technologies" and ii) residential pilot sites. Therefore, we are interesting in both Industry/SME as well as building owner/non-profit organizations from Turkey.

### Partner: Exploitation Manager for innovation projects

As explained in the 'organization profile' we support exploitation of innovative solutions from their R&D stage to the market uptake. We do that via a variety of services included in R&D projects such as: - Market analysis - Business model definition - IPR protection and agreements - Exploitation/replication plan - Commercialization One of our ambition is to build strategic partnerships that allow us and partners to take advantage of the outcomes of innovation projects. This could look like re-seller agreements, exploitation rights in certain geographical areas or support in the Italian market entry. We are especially interested in calls in the EeB, SPIRE, FoF and SC domains.

# TENDER

Italy
Ancona
via otto marzo, 90
www.polytropos.it
R&D Institution

Person	
Name	Claudio Sdogati
Email	sdogati@alice.it
Job Position	Senior researcher



### **Organisation Details**

TENDER is a R&D company born on 1988 and acting at European level since 1993. His staff is working on Sustainable Growth, Cultural Heritage and Environment.

It is currently working in two IPA CBC Targeted Call projects (CARICA and ADRIASTARTER) and previous years worked in different EU projects under MARCO POLO programme, MED programme (MEDITA project), IPA CBC ordinary projects (INTERMODADRIA), IPA CBC Strategic projects (EASYCONNECTING).

On 1996 designed and wrote the first Masterplan of Port of Ancona emphasizing the strategic role and importance of the Cultural Historical goods of the city like a strategic factor for the development of the cruise traffic in the port of the city.

### Areas of Activity

Smart and Sustainable Cities and Energy Efficient Buildings

• SC5-21-2017: Cultural heritage as a driver for sustainable growth (Heritage-led rural regeneration)

### **Cooperation Profiles**

### Partner: Exploiting local Cultural Heritage for Sustainable Growth

Cultural Heritage for Sustainable Growth

# **Umberto Pernice**

# Organisation NameCountryItalyCityPalermoStreetViale Michelangelo 2315Websitewww.umbertopernice.comPhoneSME

Person	
Name	Umberto Pernice
Email	collaborate@umbertopernice.com
Job Position	Independent Consultant



### **Organisation Details**

Independent consultant in the field of Collaborative Innovation Management: www.umbertopernice.com

For over 15 years, I have enabled complex interdisciplinary project teams to secure funding (FP6, FP7, CIP, H2020, and a wide range of European Structural and Investment Funds) and achieve their project development targets. My clients come from diverse sectors: large enterprises, SMEs, public bodies, academia and Non Governamental Organizations in Europe and around the world. We collaborate on Research & Innovation projects to develop innovative solutions toward a more sustainable environment and better quality of living.

Experienced in different yet *interconnected areas* [i.e. Open and Social Innovation, Disaster Resilience and Natural Resources Management, Smart mobility and Smart Cities, etc.] and technologies [i.e. ICT and Key Emerging Technologies] my SME offers an integrated set of services supporting the whole process of *co-generating ideas*, *co-developing proposals* and *co-delivering projects*.

Services include:

- Business Innovation Consulting (Business planning across industry and sectors, including IPR management)
- Project Management
- Strategic Networking and Participatory Engagement
- Proposals writing
- Coaching on Innovation Stategies
- Communication and Dissemination Strategies

My services are delivered with the support of Service Design and Design Thinking methods to engage people in collaborative projects, using diverse financial instruments to transform ideas into innovative solutions.

### **Areas of Activity**

### **SPIRE-Circular Economy Session**

- CIRC-01-2017 Systemic, eco-innovative approaches for the circular economy large-scale demonstration projects
- CIRC-02-2017 Water in the context of the circular economy

# Smart and Sustainable Cities and Energy Efficient Buildings

- SCC-1-2016-2017 Smart Cities and Communities lighthouse projects
- SCC-02-2016-2017 Demonstrating innovative nature-based solutions in cities
- SC5-08-2017 Large-scale demonstrators on nature-based solutions for hydro-meteorological risk reduction
- SC5-21-2017: Cultural heritage as a driver for sustainable growth (Heritage-led rural re-

### **Cooperation Profiles**

### Partner: Business innovation model for nature-based solutions

Interested in joining a proposal on the topic SCC-02-2017 and/or SC5-08-2017. Competence offered: - Business innovation model to enhance market demand for nature-based solutions - Strategies for uptake of innovative solutions overcoming socio-economic and cultural barriers and considering diverse policy regulatory frameworks - Adoption of Design Thinking to co-design nature-based solutions with citizens, public bodies, researchers, business and NGO - Design and implementation of social innovation initiative for urban regeneration Experience in previous FP7 projects: FP7 - LAMPRE (GA no.: 312384) - Proposal writing - Exploitation/Dissemination FP7 - CATCH (GA no.: 234094) - Proposal writing - Project Management/Exploitation FP7 - MOVEUS (GA no: 608885) - Proposal writing - Exploitation

# University of Latvia

### **Organisation Name**

Country	Latvia
City	Riga
Street	Raina Bulv 19
Website	www.lu.lv/FOTONIKA-LV
Phone	
Organisation Type	University

Person	
Name	Arnolds Ubelis
Email	arnolds@latnet.lv
Job Position	Senior researcher, project
	manager



### **Organisation Details**

University of Latvia is largest university in the country!

Association FOTONIKA-LV at the university was created by three research institutes and was a winner of FP7 RegPot project targeting domain of photonics which is a backbone for future maniufacuring in 21 century.

### Areas of Activity

### Factories of the Future

- FOF-08-2017 In-line measurement and control for micro-/nano-enabled high-volume manufacturing for enhanced reliability
- FOF-10-2017 New technologies and life cycle management for reconfigurable and reusable customised products
- FOF-12-2017 ICT Innovation for Manufacturing SMEs

### **Cooperation Profiles**

### Coordinator: Interplay: Smart Cities and Knowledge Society

The problems are: a) on what degree smart citiy is succesful in the development basing on best available knowledge, know-how and technologies, allocated in it's own universities and RTD community; b) How to promote cost efectively exchange and sharing of advanced knowledge between institutions in public and private sectors and with partner cities; c) Finaly what about interplay: Smart cities and Knowledge society. Among several other options we propose to discuss creation of the consortium for the specific project targeting lightening problems in shadowed sites (dark court-yards etc.) in cities basing on sunlight and advanced photonics technologies and "state-of-the-art" in data processing and spatial modeling. Particularly targeting: - improvement of lightening in smart and cost effective way, in the areas having centuries old buildings, frequently with high cultural heritage status; - emerging acute lightening problems when old architecture face construction of new buldings. Foreseen scope: IA Innovation action. Single Stage or two stage.

# Equinox Advisory Ltd.

### **Organisation Name**

Country	Malta
City	Valletta
Street	36 Archbishop Street
Website	www.equinoxadvisory.com
Phone	+35621376242
Organisation Type	SME



Person	
Name	
Email	
Job Position	

Bernard Mallia bernard.mallia@equinoxadvisory.com CEO



### **Organisation Details**

Equinox Advisory Ltd. is specialised in the provision of legal, economics, corporate, and technology services. Its portfolio of clients includes Malta-based private enterprises, government, parastatal and non-profit organisations as well as overseas EU-, Middle East- and Africa- based public and private sector clients. The venture was founded in 2008 and has, since then, been engaged on various business-to-client projects as well as business-to-business services where it has acted as a white-label services provider.

Since its inception in 2008, Equinox Advisory associates have established a sound reputation for the professional delivery of competitively-priced services that do not compromise on the quality of the deliverables. Equinox has conducted national and EU funding assignments for a wide portfolio of government, NGO, parastatal, and private sector clients in Malta and overseas, and today enjoys the complete trust of the client base that it has managed to build, as evidenced by its continued involvement in numerous projects in its core competence areas.

Equinox's funding advisory solutions are mostly bespoke and encompass the identification of client requirements, the identification of funds that fit well within the parameters set by those requirements, the drafting of the application(s) for funding, application reviews, submission, as well as the provision of administration and project management assistance when the applications submitted have been successful. We have strict quality control and ethical behaviour criteria and believe that our clients should only be entitled to expect a high level of service. Our goal is to meet and exceed the expectations of every client by offering outstanding customer service, increased flexibility, and greater value. We distinguish ourselves by our functional and technical expertise combined with our hands-on experience and our unrelenting focus on quality, thereby ensuring that our clients receive the most effective and professional solution to cater for their needs.

As experts in the areas of national and EU funding, the Equinox Advisory Ltd. team undertakes to get involved at every stage of the funding process in line with client requirements. We pride ourselves on the proven track record of our associates for advising clients in the areas of national and EU Funding. Our funding associates are experienced with both small-scale and large-scale funding projects. They cover, where applicable:

- the financial and commercial feasibility aspects;
- the project management plan;
- the economic justification or rationale;
- the legal basis;
- the technical, scientific and technological component; and
- the policy alignment and rationale components.
- All our activities revolve around the client's requirements and the maximisation of funding application success. With all of our clients, our approach is one of collaboration as partners, offering a zero-error orientation, and up-to-date advice in the field of the funding application tailored to the project proposal. This makes Equinox Advisory Ltd. the ideal choice for services relating to your funding needs.

Equinox also participates directly in national and EU Funding programmes where it has a direct interest in the area(s) covered by available funds.

For more information about us please visit www.equinoxadvisory.com

### Areas of Activity

### SPIRE-Circular Economy Session

- SPIRE-11-2017 Support for the enhancement of the impact of SPIRE PPP projects
- SPIRE-12-2017 Assessment of standardisation needs and ways to overcome regulatory bottlenecks in the process industry
- CIRC-01-2017 Systemic, eco-innovative approaches for the circular economy large-scale demonstration projects
- CIRC-02-2017 Water in the context of the circular economy
- EE-17-2016-2017 Valorisation of waste heat in industrial systems

### **Factories of the Future**

- FOF-09-2017 Novel design and predictive maintenance technologies for increased operating life of production systems
- FOF-10-2017 New technologies and life cycle management for reconfigurable and reusable customised products
- FOF-12-2017 ICT Innovation for Manufacturing SMEs

### **Cooperation Profiles**

### Partner: Your Malta Partner for Projects In Social Sciences, Infrastructure and Education

Equinox is your ideal partner in the areas of social sciences (including project management, impact assessments and commercialisation), infrastructure (water [including sewerage and flood management], energy, transport, environment [including waste management], health and telecoms), as well as education. We are currently also in the process of putting together 3 projects ourselves. These relate to: 1. Photocatalytic water decontamination; 2. High altitude wind energy; and 3. Education-related Informatics. For more information about us and the projects and assignments we have worked on, please visit www.equinoxadvisory.com

# Smart and Sustainable Cities and Energy Efficient Buildings

- EEB-05-2017 Development of near zero energy building renovation
- EEB-06-2017 Highly efficient hybrid storage solutions for power and heat in residential buildings and district areas, balancing the supply and demand conditions
- EEB-07-2017 Integration of energy harvesting at building and district level
- SCC-02-2016-2017 Demonstrating innovative nature-based solutions in cities
- SC5-08-2017 Large-scale demonstrators on nature-based solutions for hydro-meteorological risk reduction
- SC5-21-2017: Cultural heritage as a driver for sustainable growth (Heritage-led rural regeneration)

# UNIVERSITY OF MALTA

### **Organisation Name**

Country	Malta
City	Msida
Street	Msida
Website	ww.um.edu.mt
Phone	
Organisation Type	University

Person	
Name	BARBARA BASCHIERA
Email	barbara.baschiera@um.edu.mt
Job Position	ACCADEMIC full time

### **Organisation Details**

the University has been involved as coordinator and partner in numerous EU-funded projects under various Programmes including FP5/6/7, Lifelong Learning Programme, Culture 2000, Tempus and various other international and regional programmes and initiatives. The University is also represented in a number of European and international University networks and groups.

Dr Barbara Baschiera was selected as a remote referee by the European Research Council Executive Agency to assist the European Research Council (ERC) in the peer review evaluation of frontier research proposals.

### **Areas of Activity**

# Smart and Sustainable Cities and Energy Efficient Buildings

• SC5-21-2017: Cultural heritage as a driver for sustainable growth (Heritage-led rural regeneration)

# Agricultural cooperative "Gradac"

### **Organisation Name**

Country	Montenegro
City	Pljevlja
Street	Gradac bb
Website	
Phone	
Organisation Type	SME

Person	
Name	Nikola Ljiljanic
Email	nikola.ljiljanic@outlook.com
Job Position	Manager for International
	Cooperation



### **Organisation Details**

The agricultural co-operative "Gradac" is a key driving force of sustainable development in northern Montenegro and significant part of the Western Balkans. Gradac aims to improve competiveness of agro-food value chains, reducing unemployment and integrating remote and undeveloped regions. As a learning organisation, Gradac leads social co-hesion and business development of agricultural producers and agribusiness stakeholders towards knowledge-based society and conducts an important mission to ensure sustainable production of healthy and competitive products and raw materials for European consumers.

Our expertise is making small and medium-scale producers more innovative and competitive through optimal models that foster more sustainable mobilisation of local resources and increase the potential for local rural economic diversification. Starting from the business analysis and diagnostics, towards research and optimisation, piloting and testing, benchmarking on fruit production (*Data Envelopment Analysis*) and improved solutions. Gradac has an extensive experience in optimising the intensity, level of specialisation, diversification and advancing the effectiveness of production and its sustainability. Based on an inclusive organisational model, Gradac achieves a synergy of regional stake-holders to improve technology, organisation and economy of producers and to advance agricultural and rural policies.

Gradac's regular services can be divided into three main "pillars": introduction of modern production techniques and technologies, organisation of production, and the economic performance of agricultural households. Through information, education and transfer of knowledge, we assist all entities along the value chain to meet socio-economic objectives. Gradac also acts as an intermediary organisation, purchasing and re-selling fresh products from small producers, thereby solving some of their major problems: stable demand and finding the local, regional and international markets.

The most recent successful project development of the regional strategy for berry fruits (raspberry, blackberry, and blueberry) has been successfully implemented in collaboration with the local government, employment office, Biotechnical Faculty of the University of Podgorica and the Advisory Service of Montenegro, transforming production landscape. Knowledge transfer is conducted through organising various training sessions for agricultural producers. Gradac connects all main actors on local level (*local government, employment office, producers*) and national level (*Co-operative Association, Faculty, Advisory Service, etc.*). Hence, it also promotes the implementation of the *National Programme of Food Production and Rural Development*. Our members have contributed to the implementation of several EU-funded projects, like FADN, Tempus and Horizon 2020.

Role as partner in H2020 projects: expertise in dissemination of knowledge to producers, transfer of research results into the real sector, providing information, education and technology transfer, piloting, testing, validation, monitoring and analysis of policy implementation and policy advancement, rural and regional development.

### **Areas of Activity**

### **SPIRE-Circular Economy Session**

• SPIRE-11-2017 Support for the enhancement of

Smart and Sustainable Cities and Energy Efficient Buildings

• SC5-21-2017: Cultural heritage as a driver for sustainable growth (Heritage-led rural regeneration)

#### **Cooperation Profiles**

# Partner: Seeking consortia in agro food sector and rural development

With experience in project management and coordination, as a potential stakeholder we can contribute in dissemination of knowledge, transfer of research results into the real sector, providing information, education and technology transfer, piloting, testing, validation and monitoring through the value chain. We have extensive experience in cooperation and production, and we can respond adequately and contribute to project proposals in part related to sustainable rural development within our field of expertise. We make small and medium-scale producers more innovative and competitive through optimal models that foster more sustainable mobilization of local resources and increase the potential for local rural economic diversification. Gradac is interested in specific H2020 RUR topics, in particuar, the topics RUR-09-2017: Business models for modern rural economies and RUR-13-2017: Building a future science and education system fit to deliver to practice. Additionally, Gradac may play a significant role in i.e. SC5-21-2017: Cultural heritage as a driver for sustainable growth (Heritage-led rural regeneration).

# Wansdronk Architektuur

#### **Organisation Name**

Country	Netherlands
City	Amsterdam
Street	W.G. Plein 286
Website	wansdronk.com
Phone	
Organisation Type	SME

Person	
Name	Renee Wansdronk
Email	rw@wansdronk.com
Job Position	31858784298



# **Organisation Details**

Wansdronk develops a solar energy, zero-emission and material saving building concept Emporium. A warm water storage container and heat collectors provide the space heating and hot water supply, and a cold water storage container and cool collectors deliver the space cooling and cooling source for the refrigerator. The water circulates without pumps; instead it uses thermosiphon, and therefore requires no high-grade energy such as electricity or fuel.

## **Areas of Activity**

# Smart and Sustainable Cities and Energy Efficient Buildings

- EEB-05-2017 Development of near zero energy building renovation
- EEB-06-2017 Highly efficient hybrid storage solutions for power and heat in residential buildings and district areas, balancing the supply and demand conditions
- EEB-07-2017 Integration of energy harvesting at building and district level
- EEB-08-2017 New business models for energy-efficient buildings through adaptable refurbishment solutions
- EE-12-2017 Integration of Demand Response in Energy Management Systems while ensuring interoperability through Public Private Partnership
- SCC-1-2016-2017 Smart Cities and Communities lighthouse projects
- SCC-02-2016-2017 Demonstrating innovative nature-based solutions in cities

## **Cooperation Profiles**

# Partner: Emporium

EMPORIUM BUILDING CONCEPT What we do Zero energy building with seasonal energy storage Wansdronk develops a solar energy, zero-emission and material saving building concept Emporium. A warm water storage container and heat collectors provide the space heating and hot water supply, and a cold water storage container and cool collectors deliver the space cooling and cooling source for the refrigerator. The water circulates without pumps; instead it uses thermosiphon, and therefore requires no high-grade energy such as electricity or fuel. A lightweight construction supports the water storage containers. This mass of water also replaces the hot and cold accumulating capacity of the building mass. The building concept is suitable for free-standing, connected, or high-rise home and utility build-

ings in all climate zones. The technical feasibility has been proved and confirmed. The economic feasibility is characterized by zero-emission, biodiversity, safety, health, comfort and lifelong durability. TYPE OF CONSORTIA SOUGHT What we look for I am looking for Horizon 2020 project proposals, and Interreg NSR/NWE project proposals, to participate as an SME, architect and engineer. I am offering design, development and research experience related to a zero energy building with seasonal energy storage concept (Emporium). I have experience with, and participate(d) in, European FP5, FP7 and H2020 research projects, and Cooperation in Science and Technology (COST) projects.

# Norwegian University of Science and Technolgy

#### **Organisation Name**

Country	Norway
City	Trondheim
Street	Hoyskoleveien
Website	
Phone	
Organisation Type	University

Murat V. Ardelan
murat.v.ardelan@ntnu.no
Prof



General information on NTNU can be found here http://www.ntnu.edu/facts

# Areas of Activity

# **SPIRE-Circular Economy Session**

- SPIRE-07-2017 Integrated approach to process optimisation for raw material resources efficiency, excluding recovery technologies of waste streams
- SPIRE-08-2017 Carbon dioxide utilisation to produce added value chemicals
- CIRC-01-2017 Systemic, eco-innovative approaches for the circular economy large-scale demonstration projects
- CIRC-02-2017 Water in the context of the circular economy

# **Cooperation Profiles**

# Partner: waste to raw

using IT technology for knowledge transfer and logistic efficiency in the "waste-raw" connections.



# Ekoenergetyka-Polska sp. z o.o.

#### **Organisation Name**

Country	Poland
City	Zielona Gora
Street	Nowy Kisielin - Wysockiego 8
Website	
Phone	
Organisation Type	Company

Person	
Name	Maciej Wojenski
Email	maciej.wojenski@ekoenergetyka.com.pl
Job Position	Deputy CEO



## **Organisation Details**

Driven by innovation and powered by desire to reduce transport emissions, we produce high power chargers and infrastructure management solutions for electric buses. Be it static chargers for bus depots or opportunity chargers at bus stops, our products come with a range of services that make it easy for the bus operator to deploy and manage their charging infrastructure. Established in 2009 in Poland, we are an Eastern European leader in charging technologies. We put a strong emphasis on R&D and quality manufacturing - 60% of our staff are engineers. Thanks to our inhouse innovation and regular collaboration with leading Polish research labs we are able to provide our customers with top-notch innovations in high power charging technology and charger management. Our team of charging professionals delivers turn-key solutions in short time and according to the precise requirements of the client.

# Areas of Activity

## The European Green Vehicles Initiative

- GV-04-2017 Next generation electric drivetrains for fully electric vehicles, focusing on high efficiency and low cost
- GV-07-2017 Multi-level modelling and testing of electric vehicles and their components
- GV-08-2017 Electrified urban commercial vehicles integration with fast charging infrastructure
- GV-10-2017 Demonstration (pilots) for integration of electrified L-category vehicles in the urban transport system

## **Cooperation Profiles**

# Partner: High power chargers for high power driving

In the scope of our interest there are e-bus projects within we can deliver our solutions of DC fast charging stations. Our company is able to develope, produce and deploy products for pilot and commercial projects. We are tourn-key solution provider. We have knowledge in e-mobility market, different sort of charging systems, power electronics, communication systems, charging interfaces etc.

# Hi-Tech Consultants

Organisation	Name
--------------	------

Country	Poland
City	Warszawa
Street	Akademicka 3
Website	
Phone	
Organisation Type	SME

Person		
Name	Aleksander Bakowski	
Email	a.bakowski@idi.ie	
Job Position	President	

# **Organisation Details**

Hi-Tech Consultants is a small consultant company, founded in 2000. It is focusing on support to RTI projects development in particular for SMEs through coaching, project management and support for research and innovation policy development.

So far, Hi-Tech Consult has supported development of over 30 successful projects for companies and research centres. The most important projects dealt with development of new technologies and products and strategic development of centres of excellence, as well as policy recommendations. Company is also involved in trainings on proposal development, project management and use of public funding in particular related to EU Framework Programmes as well as technology transfer activities.

Hi-Tech Consultants offers assistance for proposal development, pre-evaluation of proposals, setting up the consortium agreements and management services for consortia such as progress monitoring, running management meetings, follow-up of financial reporting, organization of trainings.

# Areas of Activity

## Factories of the Future

- FOF-06-2017 New product functionalities through advanced surface manufacturing processes for mass production
- FOF-07-2017 Integration of unconventional technologies for multi-material processing into manufacturing systems
- FOF-12-2017 ICT Innovation for Manufacturing SMEs

# Smart and Sustainable Cities and Energy Efficient Buildings

- EEB-05-2017 Development of near zero energy building renovation
- EEB-07-2017 Integration of energy harvesting at building and district level
- EEB-08-2017 New business models for energy-efficient buildings through adaptable refurbishment solutions
- SCC-02-2016-2017 Demonstrating innovative nature-based solutions in cities
- SC5-21-2017: Cultural heritage as a driver for sus-

# The European Green Vehicles Initiative

- GV-04-2017 Next generation electric drivetrains for fully electric vehicles, focusing on high efficiency and low cost
- GV-05-2017 Electric vehicle user-centric design for optimised energy efficiency
- GV-07-2017 Multi-level modelling and testing of electric vehicles and their components
- GV-08-2017 Electrified urban commercial vehicles integration with fast charging infrastructure
- GV-10-2017 Demonstration (pilots) for integration of electrified L-category vehicles in the urban transport system

# **Cooperation Profiles**

# Partner: Project Management Services

Particular interest in electrical vehicles for city transport: GV-04 -2017; Gv-05-2017; GV-07-2017; GV-08-2017; SCC -01-2016-2017; SCC-02-2016-2017. Hi-Tech Consultants offers management services for consortia such as progress monitoring, running management meetings, organising public events, or follow-up of financial reporting. Also offered is assistance for proposal development, pre-evaluation of proposals, setting up the consortium agreement. Participated in more than 15 EU framework projects, in 1 as coordinator and in 5 as Steering Committee.

# International Institute of Visual Art LTD

#### **Organisation Name**

Country	Poland
City	GDYNIA
Street	Aleja Zwycięstwa 96/98
Website	www.iva.technology
Phone	+48602587072
Organisation Type	SME

Person			
	Name	MAGDALENA SOKOL	
	Email	magdalena.sokol@iva.technology	
	Job Position	President of the Management	
		Board	



# **Organisation Details**

Our company uses comprehensive research facilities in order to run interdisciplinary research and provide world-class services. International Institute of Visual Art specialises in latest technologies for visual processing of information and graphic methods of creating, analysing and presenting of data, with special emphasis on large scale data. As such, commercially, the company's activities include: designing, implementing and developing B2B class systems offering the listed below functions:

- supporting multimedia marketing for a wide range of audiences, with special emphasis on solutions using transparent touch screens LCD/LED/OLED which can be laminated in glass, with the use of a unique technology for creating architectonical multimedia constructions, based on such screens;
- acquisition and distribution of visual information which, in the process of information exchange, uses a series
  of various media and technical means of communication (the scope of which depends on a particular solution);
- virtual fitting rooms and mirrors (solutions dedicated predominantly for clothing industry), creating so-called virtual environments, where one can find virtual artefacts, which may be used or interact with the user (such solutions use dedicated applications and, when needed, systems of transparent screens and other devices, creating an illusion of augmented reality);
- creating so-called virtual environments, where one can find virtual artefacts, which may be used or interact with the user (such solutions use dedicated applications and, when needed, systems of transparent screens and other devices, creating an illusion of augmented reality).

## **Areas of Activity**

## Factories of the Future

- FOF-06-2017 New product functionalities through advanced surface manufacturing processes for mass production
- FOF-07-2017 Integration of unconventional technologies for multi-material processing into manufacturing systems
- FOF-08-2017 In-line measurement and control for micro-/nano-enabled high-volume manufacturing for enhanced reliability
- FOF-09-2017 Novel design and predictive maintenance technologies for increased operating life of production systems
- FOF-10-2017 New technologies and life cycle management for reconfigurable and reusable customised prod-

## The European Green Vehicles Initiative

• GV-07-2017 Multi-level modelling and testing of electric vehicles and their components

ucts

• FOF-12-2017 ICT Innovation for Manufacturing SMEs

# **Cooperation Profiles**

**Coordinator:** Implementation of an innovative e-service and development of regional laboratories networks, dedicated for digitization and sales of certified 3D printing of cultural goods with biometric confirmation of the authenticity.

Topic in interest (Theme, Specific Call/s): 1. INNOSUP-01-2016-2017: Cluster facilitated projects for new industrial value chains (deadline: 04 April 2017 17:00:00) 2. INNOSUP-03-2017: Technology services to accelerate the uptake of advanced manufacturing technologies for clean production by manufacturing SMEs (deadline: 28 March 2017 17:00:00) 3. INNOSUP-08-2017: A better access to industrial technologies developed overseas (deadline: 28 March 2017 17:00:00) Your Possible Role (partner or coordinator): Partner or Coordinator Your organisation's competences on the specific topic mentioned: We have experience in conducting the R&D work of and commercialization of their results. We are interested in the use of the latest achievements in the field of information technology with the environmentally friendly production methods. We are a company focused on product innovation and implementation process. Your expertise from previous R&D grands (FP7, H2020): novice/beginner

# Association Vezirac 1716

Organisation Name		
Country	Serbia	
City	Petrovaradin (Novi Sad)	
Street	Patrijarha Rajacica 20-a	
Website		
Phone		
Organisation Type	Association/Agency	

Person		
Name	Petar Mudri	
Email	vipmp@orion.rs	
Job Position	Chairman	

# Organisation Details

. . ..

Our association is closely working with Municipality of the City of Novi Sad, the second largest city in Serbia with population of about 450000 citizens.

Due to geografical position of City of Novi Sad and its continental climate, very often with harsh winters it is our priority to prevent loss of energy. Our plane is to start with energy building renovation on huge scale. That is why we are very much interested toget as much informations and to establish useful contacts with experts and companies working in this field.

We are at your disposal for any further informations you need. Thank You.

# Areas of Activity

# Smart and Sustainable Cities and Energy Efficient Buildings

- EEB-05-2017 Development of near zero energy building renovation
- EEB-06-2017 Highly efficient hybrid storage solutions for power and heat in residential buildings and district areas, balancing the supply and demand conditions
- SC5-21-2017: Cultural heritage as a driver for sustainable growth (Heritage-led rural regeneration)

# **Cooperation Profiles**

# Coordinator: Chairman

We are looking for producers. of isolation materials for insulation of buildings facades, and other light thermal insulation materials for use in constructing Energy Efficient Buildings and renovation of near zero energy buildings.

# AIMPLAS

Organisation Name	
Country	Spain
City	Paterna
Street	Gustave Eiffel,4
Website	
Phone	
Organisation Type	R&D Institution

Person	
Name	Ferran Marti-Ferrer
Email	fmarti@aimplas.es
Job Position	R&D Manager



## **Organisation Details**

AIMPLAS, Technological Institute of Plastics located in Valencia, is a private, non-profit Association with more than 500 associated companies created in 1990. AIMPLAS is formed by +120 highly skilled professional, more than 65% with a Masters, Engineering or equivalent degree in Chemistry, polymer engineering, materials engineering or equivalent, including 15 PhD.

AIMPLAS' fields of work are related to technological research and development on thermoplastic and thermosetting plastic materials & products, its transformation processes and their recyclability and sustainability. AIMPLAS generates new knowledge and technologies that can be transferred to companies in order to help them to increase their effectiveness and competitiveness.

AIMPLAS has a broad expertise in the fields of recycling, compatibilization, reactive extrusion, biopolymers and renewable source materials, special assisted processing technologies and nanocomposites, gained during the last years in the frame of EU and national projects. Nowadays, AIMPLAS is involved in more than 25 European projects and has participated in 90 projects in FP5, FP6, FP7, LIFE+, CIP-EcoInnovation EU Programmes, among others.

AIMPLAS, as RO is focused to help companies in the plastic sector to develop new products and increase their competitiveness through innovation, has more than 20 pilot plants representing the most relevant polymer/plastics/composites production technologies present in the industry nowadays and has state-of-the art test facilities for chemical, optical, morphological, mechanical and physical characterisation. These pilot lines and laboratories are used by many customer's every year allowing them to test new materials, optimize production processes and launch new products to the market, supported by AIMPLAS technical staff, resulting in more than 5000 assays, 170 technical assessments and 120 skills training actions to more than 1500 clients per year. AIMPLAS has state-of-the-art 8500 m2 facilities, including thermoplastics and thermoset pilot plants, analysis and testing laboratories (physical-mechanical, chemical, packaging, automotive and construction) and training areas.

# Areas of Activity

## SPIRE-Circular Economy Session

- SPIRE-08-2017 Carbon dioxide utilisation to produce added value chemicals
- CIRC-01-2017 Systemic, eco-innovative approaches for the circular economy large-scale demonstration projects
- CIRC-02-2017 Water in the context of the circular economy

## Factories of the Future

• FOF-06-2017 New product functionalities through

# Smart and Sustainable Cities and Energy Efficient Buildings

• EEB-05-2017 Development of near zero energy building renovation

## The European Green Vehicles Initiative

- GV-04-2017 Next generation electric drivetrains for fully electric vehicles, focusing on high efficiency and low cost
- GV-05-2017 Electric vehicle user-centric design for optimised energy efficiency

advanced surface manufacturing processes for mass production

- FOF-07-2017 Integration of unconventional technologies for multi-material processing into manufacturing systems
- FOF-08-2017 In-line measurement and control for micro-/nano-enabled high-volume manufacturing for enhanced reliability
- FOF-09-2017 Novel design and predictive maintenance technologies for increased operating life of production systems
- FOF-10-2017 New technologies and life cycle management for reconfigurable and reusable customised products

- GV-06-2017 Physical integration of hybrid and electric vehicle batteries at pack level aiming at increased energy density and efficiency
- GV-10-2017 Demonstration (pilots) for integration of electrified L-category vehicles in the urban transport system

## **Cooperation Profiles**

# Partner: cooperation in heating systems and energy efficient retrofitting buildings.

Heating systen based on the use of conductive plastic sheets (Joule effect), and high performance isolating materials based on the use of phase change materials and foams.

**Partner:** cooperation in Wireless Induction Charging for on-Road Electric Vehicles. **Partner:** New materials and coatings for automotive industry, included recycled and biobased plastic materials.

**Coordinator:** New product functionalities through advanced surface manufacturing processes for mass production

# Heat and Mass Transfer Technological Center (CTTC) / Universitat Politècnica de Catalunya-BarcelonaTech (UPC)

#### Organisation Name

organisation name	
Country	Spain
City	Terrassa
Street	Colom 11
Website	www.cttc.upc.edu
Phone	
Organisation Type	University
-	
Person	
Name	Deniz Kizildag
Email	deniz@cttc.upc.edu
Job Position	PhD Researcher

# **Organisation Details**

The Heat and Mass Transfer Laboratory of the Universitat Politècnica de Catalunya·BarcelonaTech (UPC), also constituted as Heat and Mass Transfer Technological Center, Centre Tecnològic de Transferència de Calor (CTTC), Thermal Systems, Solar Energy development and Aerodynamics and CFD&HT, is situated in Terrassa, a town located 25 km away from Barcelona. The Laboratory is composed by 6 professors, 12 doctor researchers, 33 researchers and 4 technicians to support the Research, all these members of the staff working full time.

The research activities are focused on two main lines. The first one is dedicated to the *mathematical formulation, numerical resolution and experimental validation of fluid dynamics and heat and mass transfer phenomena*. Some issues in this line are: natural and forced convection, turbulence modelling, combustion, two-phase flow, solid-liquid phase change, radiation, porous media, numerical algorithms and solvers, high performance computing (parallelisation), etc. The second line involves the application of the acquired know-how from the basic studies mentioned above to the *thermal and fluid dynamic optimisation of thermal system and equipment*.

Within this second line the Laboratory is working on: refrigeration (vapour compression refrigerating systems, hermetically sealed reciprocating compressors, absorption refrigerating systems,...), HVAC (ventilation, diffusion of contaminants in buildings,....), active and passive solar systems (solar collectors using transparent insulation materials, building facades with transparent layers and ventilation,.....), heat exchangers (gas liquid compact heat exchangers for automobile radiators, evaporators and condensers,...), heat storage (by liquids and using phase change materials,...), aerodynamics, wind energy, etc.

Currently different research projects are being developed in CTTC on the subjects of numerical heat transfer and computational fluid dynamics, turbulence modelling, liquid and phase-change storage systems, solar energy (active and passive systems), building facades with transparent layers and ventilation, vapour compression refrigerating systems (non-contaminant refrigerants), among others.

## Areas of Activity

## SPIRE-Circular Economy Session

- SPIRE-07-2017 Integrated approach to process optimisation for raw material resources efficiency, excluding recovery technologies of waste streams
- SPIRE-08-2017 Carbon dioxide utilisation to produce added value chemicals
- SPIRE-10-2017 New electrochemical solutions for industrial processing, which contribute to a reduction of carbon dioxide emissions

# Smart and Sustainable Cities and Energy Efficient Buildings

#### The European Green Vehicles Initiative

- GV-05-2017 Electric vehicle user-centric design for optimised energy efficiency
- GV-09-2017 Aerodynamic and flexible trucks

- EEB-05-2017 Development of near zero energy building renovation
- EEB-06-2017 Highly efficient hybrid storage solutions for power and heat in residential buildings and district areas, balancing the supply and demand conditions
- EEB-07-2017 Integration of energy harvesting at building and district level

# **Cooperation Profiles**

# **Partner:** Computational fluid dynamics and heat transfer (CFD&HT) expertise with emphasis on automotive and aeronautical applications

The Heat and Mass Transfer Technological Center (CTTC) has more than 30 years of experience in the modelling of thermal and fluid-dynamic phenomena and in the optimization of thermal systems and equipment. The Group closely collaborates with a spin-off called Termo Fluids S.L., that was born 7 years ago from members of the CTTC. CTTC has actively participated in more than 60 projects with companies, within national and EU frameworks. These include national projects with important companies of automotive industry in Spain. Particulary, CTTC has worked in a project with Seat on the air distribution and the general air conditioning of their cars, and in another project with FICOSA in the optimization and thermal design of some components and the cooling of the electrical batteries. For more information, please refer to CTTC web site: http://www.cttc.upc.edu/ We are experts in Computational Fluid Dynamics and Heat Transfer (CFD&HT), developing and making arrangements of our own codes. In our Group we have a PC cluster of 2024 CPUs. Making use of our codes and computational resources, we are able perform simulations with the desired level of detail (from simplified energy balances to the 3D highest level simulations by means of DNS and LES turbulence models) in the thermal and fluid dynamic optimization of the thermal systems and equipment. The following are the most relevant projects that we have been involved in the area: -(H2020-CS2CFP01-2014-01 Cleansky project) "MALET Development of MODELICA libraries for ECS and thermal management architectures" (2015-2017) -(SP1-JTI-CS-2013-02 Cleansky project) "HOT - Humidity Optimization Tool" (2014-2016) -(SP1-JTI-CS-2013-01 Cleansky project) "EFFAN – Efficient Fan" (2014-2016) -Research project with SEAT-Volkswagen: "Thermal Management of Electric Vehicle Cabins" (2015) -Research project with SEAT-Volkswagen: "Climatisation Project" (2015-2018). The following are the topics we would primarily be interested to contribute: MG-1.2-2017: Reducing aviation noise GV-05-2017: Electric vehicle user-centric design for optimised energy efficiency GV-09-2017: Aerodynamic and flexible trucks

# Partner: Detailed building performance simulation expertise

The Heat and Mass Transfer Technological Center (CTTC) has more than 30 years of experience in the modelling of thermal and fluid-dynamic phenomena and in the optimization of thermal systems and equipment. The Group closely collaborates with a spin-off called Termo Fluids S.L., that was born 7 years ago from members of the CTTC. CTTC has actively participated in more than 60 projects with companies, within national and EU frameworks. We are experts in Computational Fluid Dynamics and Heat Transfer (CFD&HT), developing and making arrangements of own codes. In our Group we have a PC cluster of 2024 CPUs. Making use of our codes and computational resources, we are able perform simulations with the desired level of detail (from simplified energy balances to the 3D highest level simulations by means of DNS and LES turbulence models) in the thermal and fluid dynamic optimization of the thermal systems and equipment. The Group has developed a parallel, object-oriented building simulation tool, called NEST, which aims at fast and easy production of multiphysics programs with emphasis on (but not limited to) building simulations. Our model is able to simulate the moisture heat and air transport, taking into account HVAC systems, furniture, occupant schedules, and weather conditions, opening and closing of the doors and windows, among others. The model can incorporate different levels of accuracy depending on the requirements of the simulations and the phenomena, including a module for high accuracy CDF simulations for the desired components of the system. Our expertise in this area is reflected in the ongoing FP7 project titled "REtrofitting Solutions and Services for the enhancement of Energy Efficiency in Public Edification (RESSEEPE)", where our contributions are focused on the design and optimization of a PV ventilated facade which is installed in the demo site, and different high accuracy building simulations. Below are some relevant projects we have contributed related with our expertise: -Reseacrh Project FP7- EeB.NMP.2013-3, E01199; Title: RESEEPE Retrofitting solutions and services for the enhancement of energy efficiency in public edification; Funding: 368.871 Euros; Period 2013-2015. -Research Project H2020-686783 Cleansky2: Funding: 323.812 Euros, Title: MALET Development of MODELICA Libraries for ECS Thermal management architectures, Period: 2015-2017. -Research project Q-00011; Company: EIT-KIC InnoEnergy project; Title: Energy storage as necessary part of energy balanced building and districts; Period: 2011-2014. For more information, please refer to CTTC web site:

http://www.cttc.upc.edu/ The following are the topics we would primarily be interested as a reliable partner to contribute with our experience: -EEB-05-2017: Development of near zero energy building renovation -EEB-06-2017: Highly efficient hybrid storage solutions -EEB-07-2017: Integration of energy harvesting at building and district level

# OPENTIX SL

Organisation Name		
Country	Spain	
City	Castellón	Opentix
Street	Calle de Joaquín Febrer Carbó, 15,	
Website		
Phone		
<b>Organisation Type</b>	SME	
Person		
Name	Raúl Urbano	
Email	rauures@gmail.com	
Job Position	Coach	

# **Organisation Details**

Opentix S.L. is an award-winning cloud technology company that provides Cloud Business Solutions from across a range of industries, including pharmaceutical, wellbeing, retail, security, professional services and learning sectors. OPENTIX is OpenBravo Gold, SUGAR, SAGE and Google for Work Partner Certificated, which ensure the profesionalism, high level of confidence and customer support. Having a Quality Management System based on ISO 9001, allows OPENTIX to provide a high quality consulting service. OPENTIX core competencies include genuine cloud based enterprise software, software consultant and Future Internet solutions. The company has led and delivered successful international collaborative industrial and research projects, including two eGovernment projects in Republic of Panamá and Chile. Currently the company is in the process of diversifying its core competencies, expanding services provided with new lines of businesses, taking advantage from novel and emerged future internet solutions. To this end, the company has recently launched on the market a novel eCommerce solution for the pharmaceutical sector (www.farmagile.com). Moreover, the company offers an ERP-integrated GPS-fleet management solution and staff control for Health sector. In a vertical approach, as Partner of CUCORENT, the company is working on ERP-integrated solutions for security (biometric readers, facil recognition devices, presence control sustems, amon othres). On the other hand, the company has recently established a new R&D Department with the mission to reinforce the research activity of OPEN-TIX. The team involved in the R&D Department has expertise in EU funded projects and has expertise in Future Internet Core Platform, FIWARE; allowing the company to increase the business opportunities for Cloud Business Solution in a Digital world.

# Areas of Activity

# Factories of the Future

- FOF-08-2017 In-line measurement and control for micro-/nano-enabled high-volume manufacturing for enhanced reliability
- FOF-09-2017 Novel design and predictive maintenance technologies for increased operating life of production systems
- FOF-10-2017 New technologies and life cycle management for reconfigurable and reusable customised products
- FOF-12-2017 ICT Innovation for Manufacturing SMEs

# Smart and Sustainable Cities and Energy Efficient Buildings

- EEB-05-2017 Development of near zero energy building renovation
- EEB-07-2017 Integration of energy harvesting at

# The European Green Vehicles Initiative

- GV-01-2017 Optimisation of heavy duty vehicles for alternative fuels use
- GV-04-2017 Next generation electric drivetrains for fully electric vehicles, focusing on high efficiency and low cost
- GV-05-2017 Electric vehicle user-centric design for optimised energy efficiency
- GV-07-2017 Multi-level modelling and testing of electric vehicles and their components
- GV-08-2017 Electrified urban commercial vehicles integration with fast charging infrastructure
- GV-13-2017 Production of next generation battery cells in Europe for transport applications

building and district level

- EEB-08-2017 New business models for energy-efficient buildings through adaptable refurbishment solutions
- EE-12-2017 Integration of Demand Response in Energy Management Systems while ensuring interoperability through Public Private Partnership
- SCC-1-2016-2017 Smart Cities and Communities lighthouse projects
- SC5-21-2017: Cultural heritage as a driver for sustainable growth (Heritage-led rural regeneration)

## **Cooperation Profiles**

# Partner: Technical partner for IT applied solution

We are looking for project proposals which required a IT solution, DSM, ERP, Business Intelligence to be designed (in case of RIA project) or to be updated and integrated (in case of IA project). Our key sectors (but not limited) are pure ICT, eHeatlh, Mobility, Smart City, eGoverment, Digital Security, DRS. If your project needs a ITC component, we are your partner. We have a network of h2020 partners from preview projects which we are willing to bring to your consortium (end-users, public authorities, researches, ....). The team involved in our R&D department (business area) have been involved in preview GV projects, such www.smartv2g.eu and www.mobincity.eu

# Coordinator: YELLYNET - sustainable urban mobility SaaS

The project idea is addressed with the topic GV-10-2017 and suits with the scope of deployment of ICT tools for driver support and services such as communication with back-office, booking, route scheduling, real time monitoring of vehicle performance to enhance eco-driving and for integrating EL-Vs into the urban transport. -- JELLYNET aims to be an intelligent e-mobility assistant capable to provide services for EL-Vs' users. Currently the consortium is compound by a variety of international research entities, cities and IT entities. -- Profile seeking: EL-Vs manufacturer, distributor or ownership of a EL-Vs fleet. The mission of this partner aims to help to carry out the demonstration activities.

# 151 Advisors

Organisation Name	
Country	Turkey
City	Istanbul
Street	Gunaydın Sok. Sehremini 37/5
Website	www.151advisors.com
Phone	
Organisation Type	Consulting

ADVISORS

Person	
Name	Erdogan Lak
Email	elak@151advisors.com
Job Position	Associated Partner



# **Organisation Details**

Management Consulting and Strategic Planning for Technology Companies

Trusted by senior executives around the globe, 151 ADVISORS is a strategic consulting firm that helps Technology companies solve critical business problems, seize new market opportunities, and achieve results in today's highly challenging and rapidly evolving business environment.

We are recognized for providing innovative and practical business solutions that fit your unique time-frame, operational capabilities, and financial objectives.

Our highly seasoned team of professionals has decades of experience in successfully starting and building technology companies, and will work closely with you to develop a winning growth strategy, execute our recommendations, and help ensure business performance targets are ultimately achieved.

## Areas of Activity

## The European Green Vehicles Initiative

- GV-04-2017 Next generation electric drivetrains for fully electric vehicles, focusing on high efficiency and low cost
- GV-05-2017 Electric vehicle user-centric design for optimised energy efficiency
- GV-08-2017 Electrified urban commercial vehicles integration with fast charging infrastructure

## **Cooperation Profiles**

# Partner: 151 Advisors

Management Consulting and Strategic Planning for Technology Companies Trusted by senior executives around the globe, 151 ADVISORS is a strategic consulting firm that helps Technology companies solve critical business problems, seize new market opportunities, and achieve results in today's highly challenging and rapidly evolving business environment. We are recognized for providing innovative and practical business solutions that fit your unique time-frame, operational capabilities, and financial objectives. Our highly seasoned team of professionals has decades of experience in successfully starting and building technology companies, and will work closely with you to develop a winning growth strategy, execute our recommendations, and help ensure business performance targets are ultimately achieved.

# ACTUATE INOVATION AND INFORMATION TECHNOLOGIES

#### Organisation Name

Country	Turkey
City	İstanbul
Street	Ülgen
Website	www.actuate.plus
Phone	
Organisation Type	SME

Person	
Name	Zeynep LÜLECİ
Email	zeynep.luleci@actuate.plus
Job Position	Project Manager

#### **Organisation Details**

Actuate Inovation Technologies know about innovation, entrepreneurship and growth accelerating and share experience to the benefit of Start-Ups, SMEs and Corporate Bodies like non-profit organizations (NGOs), enterprise companies and universities.

#### **Areas of Activity**

#### **Factories of the Future**

 FOF-12-2017 ICT Innovation for Manufacturing SMEs

- SCC-1-2016-2017 Smart Cities and Communities lighthouse projects
- SCC-02-2016-2017 Demonstrating innovative nature-based solutions in cities

# Actuate Inovation and Information Technologies

#### Organisation Name

Turkey
İstanbul
Ülgen
www.actuate.plus
SME

Person	
Name	Selçuk KARAMAĞARA
Email	selcuk@actuate.plus
Job Position	Managing Director

## **Organisation Details**

Actuate Inovation and Information Technologies know about innovation, entrepreneurship and growth accelerating and share experience to the benefit of Start-Ups, SMEs and Corporate Bodies like non-profit organizations (NGOs), enterprise companies and universities.

# Areas of Activity

## Factories of the Future

 FOF-12-2017 ICT Innovation for Manufacturing SMEs

- SCC-1-2016-2017 Smart Cities and Communities lighthouse projects
- SCC-02-2016-2017 Demonstrating innovative nature-based solutions in cities

# Adana Metropolitan Municipality

**Organisation Name** 

Turkey
Adana
Atatürk Caddesi
www.adana.bel.tr
Other

Person	
Name	Filiz ÜNLÜ
Email	filizunlu2@hotmail.com
Job Position	Engineer



# **Organisation Details**

Adana is Turkey's 6th largest city and is a fast growing commercial capital of eastern Mediterranean coast. The city is located on the Seyhan River, in south-central Anatolia and lies in the heart of Çukurova, a geographical, economic and cultural region that covers the provinces of Mersin, Adana, Osmaniye and Hatay. It has a population over 2 million making it one of the most popular cities of Turkey.

Adana Municipality was established in 1986 and has Adana consists of the municipal sections of the five metropolitan districts in the center of the city; Seyhan, Yüreğir, Çukurova, Sarıçam and Karaisalı and ten smaller districts have rural areas outside the city; Aladağ, Ceyhan, Feke, İmamoğlu, Karataş, Kozan, Pozantı, Saimbeyli, Tufanbeyli Yumurtalık within an area of responsibility totally 14.030 km2.

Municipality providing services through 31 Head Departments and 2.688 employees. The major fields of activities are:

- Planning and Local Public Transportation
- GIS and CIS assessment
- Preparing the Municipal Plan controlling development and construction;
- Environmental Preservation, Agriculture and Water Control;
- Culture, Education and Health.

# Areas of Activity

- SCC-1-2016-2017 Smart Cities and Communities lighthouse projects
- SCC-02-2016-2017 Demonstrating innovative nature-based solutions in cities
- SC5-21-2017: Cultural heritage as a driver for sustainable growth (Heritage-led rural regeneration)

# AF Consult-Turkey

# Organisation Name

organisation name		
Country	Turkey	
City	ANKARA	
Street	ODTÜ Teknokent MET Alanı, Mustafa Kemal Mah. Dumlupınar Blv. No: 208, D Block, No:3	BY EXPERIENCE
Website	www.afconsult.com	
Phone		
Organisation Type	Consulting	
Person		
Name	Amir Shileh Baf	
Email	amir.baf@afconsult.com	

#### **Organisation Details**

**Job Position** 

**AF** is an engineering and consulting company with assignments in the energy, industrial and infrastructure sectors, **creating progress for our clients since 1895**. By connecting technologies we provide profitable, innovative, and sustainable solutions to shape the future and improve people's lives. Building on our strong base in Europe, our business and clients are found all over the world.

**Sustainability** is part of AF's business strategy and a prerequisite for AF's business as a whole. We connect technologies to create sustainable progress for you.

With more than one hundred years of experience in helping our clients to find innovative technical solutions to a multitude of problems AF is firmly in the front rank of technical progress. We are proud of our history and what we have achieved and **we are confident that we can do more together** with our clients all over the world. We are prepared to take on your sustainable challenges.

AF has access to more than **100 million hours of engineering experience** – know-how and solutions that are documented in "ONE", our unique knowledge database that is available to every AF employee. This means that:

• Every AF employee can make use of the full, combined strength of AF

Consultant

• AF is ready to tackle every technical challenge, now and in the future

#### **Areas of Activity**

- EEB-05-2017 Development of near zero energy building renovation
- EEB-06-2017 Highly efficient hybrid storage solutions for power and heat in residential buildings and district areas, balancing the supply and demand conditions
- EEB-07-2017 Integration of energy harvesting at building and district level
- EEB-08-2017 New business models for energy-efficient buildings through adaptable refurbishment solutions
- EE-12-2017 Integration of Demand Response in Energy Management Systems while ensuring interoperability through Public Private Partnership

- The European Green Vehicles Initiative
  - GV-01-2017 Optimisation of heavy duty vehicles for alternative fuels use
  - GV-04-2017 Next generation electric drivetrains for fully electric vehicles, focusing on high efficiency and low cost
  - GV-05-2017 Electric vehicle user-centric design for optimised energy efficiency
  - GV-08-2017 Electrified urban commercial vehicles integration with fast charging infrastructure

• SCC-1-2016-2017 Smart Cities and Communities lighthouse projects

## **Cooperation Profiles**

# **Partner:** Seeking Partnership for Project Development and Execution in the Areas of Smart Cities, Energy ,...

We are seeking for partnership with Municipalities, Governments, Utilities, Universities and R&D Centers to develop and cooperate on possible projects in the areas of: \* Smart and Sustainable Cities, \* Smart Grids, \* Automation, \* Distributed Generation, \* Big Data, \* Energy Efficiency. AF Turkey is proficient in Project Development and Execution, Consultancy and Technical Analysis and can provide links in-between its wide range of customers specially in energy distribution sector.

# AF Mercados EMI

Organisation Name	
Country	Turkey
City	Ankara
Street	ODTÜ Teknokent MET Alanı
Website	www.afconsult.com
Phone	
Organisation Type	Consulting

Person	
Name	Okan Benli
Email	okan.benli@afconsult.com
Job Position	Head of Sustainable Cities
	and R&D



## **Organisation Details**

Creating progress since 1895

ÅF is an engineering and consulting company with assignments in the energy, industrial and infrastructure sectors, creating progress for our clients since 1895.

By connecting technologies we provide profitable, innovative, and sustainable solutions to shape the future and improve people's lives.

Building on our strong base in Europe, our business and clients are found all over the world.

ÅF's Operation in Turkey is connected and integrated with the entire activities of ÅF.

This interactive connection enables our Turkey branch to support clients in many different areas and in many different locations besides Turkey; like Yemen, Georgia, Iraq, Albania, FYR of Macedonia, Serbia, Nigeria, Ukraine, Jordan, Azerbaijan, Kazakhstan and others. ÅF in Turkey offers a full set of consulting services with around 50 highly qualified employees in Ankara and Istanbul offices.

Our team in Turkey has expertise especially in leading and consulting Utilities in Turkey in order to support them to improve the operational performance, developing Research & Development Projects with the future vision for Smart Cities. AF Turkey has many types of reference projects in wide variety of Energy Headline. Optimization projects, theft&loss analysis, big-data concept in utilities, distributed generation, investment planning, smart meters etc. AF Turkey has very competent team which have the best experience in energy sector in Turkey and high-academical background. AF Turkey is in the first rank among the consultant and engineering companies in Turkey with the maximum number of R&D projects engagement for Electric distribution utilities. Finally, AF Turkey is the main contractor for the project "Turkey Smart-Grid Roadmap Project - TAŞ 2023)" through which the Smart Grid Roadmap of Turkey shall be published in 2016.

We shall be pleased to cooperate and support the coordinators and/or the partners for any type of project.

## Areas of Activity

## Factories of the Future

- FOF-06-2017 New product functionalities through advanced surface manufacturing processes for mass production
- FOF-10-2017 New technologies and life cycle management for reconfigurable and reusable customised products
- FOF-12-2017 ICT Innovation for Manufacturing SMEs

#### The European Green Vehicles Initiative

- GV-01-2017 Optimisation of heavy duty vehicles for alternative fuels use
- GV-04-2017 Next generation electric drivetrains for fully electric vehicles, focusing on high efficiency and low cost
- GV-05-2017 Electric vehicle user-centric design for optimised energy efficiency
- GV-06-2017 Physical integration of hybrid and

# Smart and Sustainable Cities and Energy Efficient Buildings

- EEB-05-2017 Development of near zero energy building renovation
- EEB-06-2017 Highly efficient hybrid storage solutions for power and heat in residential buildings and district areas, balancing the supply and demand conditions
- EEB-07-2017 Integration of energy harvesting at building and district level
- EEB-08-2017 New business models for energy-efficient buildings through adaptable refurbishment solutions
- EE-12-2017 Integration of Demand Response in Energy Management Systems while ensuring interoperability through Public Private Partnership
- SCC-1-2016-2017 Smart Cities and Communities lighthouse projects
- SCC-02-2016-2017 Demonstrating innovative nature-based solutions in cities
- SC5-08-2017 Large-scale demonstrators on nature-based solutions for hydro-meteorological risk reduction
- SC5-21-2017: Cultural heritage as a driver for sustainable growth (Heritage-led rural regeneration)

electric vehicle batteries at pack level aiming at increased energy density and efficiency

- GV-07-2017 Multi-level modelling and testing of electric vehicles and their components
- GV-08-2017 Electrified urban commercial vehicles integration with fast charging infrastructure
- GV-13-2017 Production of next generation battery cells in Europe for transport applications

# SPIRE-Circular Economy Session

- SPIRE-07-2017 Integrated approach to process optimisation for raw material resources efficiency, excluding recovery technologies of waste streams
- SPIRE-09-2017 Pilot lines based on more flexible and down-scaled high performance processing
- SPIRE-11-2017 Support for the enhancement of the impact of SPIRE PPP projects
- SPIRE-12-2017 Assessment of standardisation needs and ways to overcome regulatory bottlenecks in the process industry

# **Cooperation Profiles**

# Partner: Technical Analysis and Project Development for Smart Cities and Utilities

Proficiency in Smart Grids, Automation, Distributed Generation, IoT, Big Data, Smart Cities Proficiency in Project Development and Execution Link in-between Coordinators, Utilities, Universities Proficiency in Energy Distribution Sector in Turkey and Roadmaps Proficiency in Consultancy, Technical Analysis and Proposals Paper submission for IEEE, International Congresses

# AF Mercados EMI

Organisation Name	
Country	Turkey
City	Ankara
Street	ODTÜ Teknokent MET Alanı, Mustafa Kemal Mah. Dumlupınar Blv. No: 208, D Block, No:3
Website	www.afconsult.com
Phone	
Organisation Type	Consulting

Person	
Name	Göktürk Demir
Email	gokturk.demir@afconsult.com
Job Position	Consultant

## **Organisation Details**

Creating progress since 1895

ÅF is an engineering and consulting company with assignments in the energy, industrial and infrastructure sectors, creating progress for our clients since 1895.

By connecting technologies we provide profitable, innovative, and sustainable solutions to shape the future and improve people's lives.

Building on our strong base in Europe, our business and clients are found all over the world.

ÅF's Operation in Turkey is connected and integrated with the entire activities of ÅF.

This interactive connection enables our Turkey branch to support clients in many different areas and in many different locations besides Turkey; like Yemen, Georgia, Iraq, Albania, FYR of Macedonia, Serbia, Nigeria, Ukraine, Jordan, Azerbaijan, Kazakhstan and others. ÅF in Turkey offers a full set of consulting services with around 50 highly qualified employees in Ankara and Istanbul offices.

Our team in Turkey has expertise especially in leading and consulting Utilities in Turkey in order to support them to improve the operational performance, developing Research & Development Projects with the future vision for Smart Cities. AF Turkey has many types of reference projects in wide variety of Energy Headline. Optimization projects, theft&loss analysis, big-data concept in utilities, distributed generation, investment planning, smart meters etc. AF Turkey has very competent team which have the best experience in energy sector in Turkey and high-academical background. AF Turkey is in the first rank among the consultant and engineering companies in Turkey with the maximum number of R&D projects engagement for Electric distribution utilities. Finally, AF Turkey is the main contractor for the project "Turkey Smart-Grid Roadmap Project - TAŞ 2023)" through which the Smart Grid Roadmap of Turkey shall be published in 2016.

We shall be pleased to cooperate and support the coordinators and/or the partners for any type of project.

## Areas of Activity

# SPIRE-Circular Economy Session

- SPIRE-07-2017 Integrated approach to process optimisation for raw material resources efficiency, excluding recovery technologies of waste streams
- SPIRE-09-2017 Pilot lines based on more flexible and down-scaled high performance processing
- SPIRE-11-2017 Support for the enhancement of the

- EEB-05-2017 Development of near zero energy building renovation
- EEB-06-2017 Highly efficient hybrid storage solutions for power and heat in residential buildings and district areas, balancing the supply and de-

impact of SPIRE PPP projects

• SPIRE-12-2017 Assessment of standardisation needs and ways to overcome regulatory bottlenecks in the process industry

# **Factories of the Future**

- FOF-06-2017 New product functionalities through advanced surface manufacturing processes for mass production
- FOF-10-2017 New technologies and life cycle management for reconfigurable and reusable customised products
- FOF-12-2017 ICT Innovation for Manufacturing SMEs

mand conditions

- EEB-07-2017 Integration of energy harvesting at building and district level
- EEB-08-2017 New business models for energyefficient buildings through adaptable refurbishment solutions
- EE-12-2017 Integration of Demand Response in Energy Management Systems while ensuring interoperability through Public Private Partnership
- SCC-1-2016-2017 Smart Cities and Communities lighthouse projects
- SCC-02-2016-2017 Demonstrating innovative nature-based solutions in cities
- SC5-08-2017 Large-scale demonstrators on nature-based solutions for hydro-meteorological risk reduction
- SC5-21-2017: Cultural heritage as a driver for sustainable growth (Heritage-led rural regeneration)

# The European Green Vehicles Initiative

- GV-01-2017 Optimisation of heavy duty vehicles for alternative fuels use
- GV-04-2017 Next generation electric drivetrains for fully electric vehicles, focusing on high efficiency and low cost
- GV-05-2017 Electric vehicle user-centric design for optimised energy efficiency
- GV-06-2017 Physical integration of hybrid and electric vehicle batteries at pack level aiming at increased energy density and efficiency
- GV-07-2017 Multi-level modelling and testing of electric vehicles and their components
- GV-08-2017 Electrified urban commercial vehicles integration with fast charging infrastructure
- GV-13-2017 Production of next generation battery cells in Europe for transport applications

# **Cooperation Profiles**

# Partner: Technical Analysis and Project Development for Smart Cities and Utilities

Proficiency in Smart Grids, Automation, Distributed Generation, IoT, Big Data, Smart Cities Proficiency in Project Development and Execution Link in-between Coordinators, Utilities, Universities Proficiency in Energy Distribution Sector in Turkey and Roadmaps Proficiency in Consultancy, Technical Analysis and Proposals Paper submission for IEEE, International Congresses

# AF Mercados EMI

Organisation Name		
Country	Turkey	
City	Istanbul	
Street	Camlik Mah. Ikbal Cad. Dinc Sok. No:4 Kat:10 Daire:63	
Website		
Phone		
Organisation Type	Consulting	
Person		
Name	Kahraman Yumak	
Email	kahraman.yumak@afconsult.com	30)
Job Position	Senior Consultant	A

# **Organisation Details**

Creating progress since 1895

ÅF is an engineering and consulting company with assignments in the energy, industrial and infrastructure sectors, creating progress for our clients since 1895.

By connecting technologies we provide profitable, innovative, and sustainable solutions to shape the future and improve people's lives.

Building on our strong base in Europe, our business and clients are found all over the world.

ÅF's Operation in Turkey is connected and integrated with the entire activities of ÅF.

This interactive connection enables our Turkey branch to support clients in many different areas and in many different locations besides Turkey; like Yemen, Georgia, Iraq, Albania, FYR of Macedonia, Serbia, Nigeria, Ukraine, Jordan, Azerbaijan, Kazakhstan and others. ÅF in Turkey offers a full set of consulting services with around 50 highly qualified employees in Ankara and Istanbul offices.

Our team in Turkey has expertise especially in leading and consulting Utilities in Turkey in order to support them to improve the operational performance, developing Research & Development Projects with the future vision for Smart Cities. AF Turkey has many types of reference projects in wide variety of Energy Headline. Optimization projects, theft&loss analysis, big-data concept in utilities, distributed generation, investment planning, smart meters etc. AF Turkey has very competent team which have the best experience in energy sector in Turkey and high-academical background. AF Turkey is in the first rank among the consultant and engineering companies in Turkey with the maximum number of R&D projects engagement for Electric distribution utilities. Finally, AF Turkey is the main contractor for the project "Turkey Smart-Grid Roadmap Project - TAŞ 2023)" through which the Smart Grid Roadmap of Turkey shall be published in 2016.

We shall be pleased to cooperate and support the coordinators and/or the partners for any type of project.

## **Areas of Activity**

## SPIRE-Circular Economy Session

- SPIRE-07-2017 Integrated approach to process optimisation for raw material resources efficiency, excluding recovery technologies of waste streams
- SPIRE-09-2017 Pilot lines based on more flexible and down-scaled high performance processing
- SPIRE-11-2017 Support for the enhancement of the impact of SPIRE PPP projects

- EEB-05-2017 Development of near zero energy building renovation
- EEB-06-2017 Highly efficient hybrid storage solutions for power and heat in residential buildings and district areas, balancing the supply and demand conditions

• SPIRE-12-2017 Assessment of standardisation needs and ways to overcome regulatory bottlenecks in the process industry

# Factories of the Future

- FOF-06-2017 New product functionalities through advanced surface manufacturing processes for mass production
- FOF-10-2017 New technologies and life cycle management for reconfigurable and reusable customised products
- FOF-12-2017 ICT Innovation for Manufacturing SMEs

- EEB-07-2017 Integration of energy harvesting at building and district level
- EEB-08-2017 New business models for energy-efficient buildings through adaptable refurbishment solutions
- EE-12-2017 Integration of Demand Response in Energy Management Systems while ensuring interoperability through Public Private Partnership
- SCC-1-2016-2017 Smart Cities and Communities lighthouse projects
- SCC-02-2016-2017 Demonstrating innovative nature-based solutions in cities
- SC5-08-2017 Large-scale demonstrators on nature-based solutions for hydro-meteorological risk reduction
- SC5-21-2017: Cultural heritage as a driver for sustainable growth (Heritage-led rural regeneration)

# The European Green Vehicles Initiative

- GV-01-2017 Optimisation of heavy duty vehicles for alternative fuels use
- GV-04-2017 Next generation electric drivetrains for fully electric vehicles, focusing on high efficiency and low cost
- GV-05-2017 Electric vehicle user-centric design for optimised energy efficiency
- GV-06-2017 Physical integration of hybrid and electric vehicle batteries at pack level aiming at increased energy density and efficiency
- GV-07-2017 Multi-level modelling and testing of electric vehicles and their components
- GV-08-2017 Electrified urban commercial vehicles integration with fast charging infrastructure
- GV-13-2017 Production of next generation battery cells in Europe for transport applications

## **Cooperation Profiles**

# Partner: Technical Analysis and Project Development for Smart Cities and Utilities

Proficiency in Smart Grids, Automation, Distributed Generation, IoT, Big Data, Smart Cities Proficiency in Project Development and Execution Link in-between Coordinators, Utilities, Universities Proficiency in Energy Distribution Sector in Turkey and Roadmaps Proficiency in Consultancy, Technical Analysis and Proposals Paper submission for IEEE, International Conferences

# AF Turkey

Organisation Name	
Country	Turkey
City	Ankara
Street	Cankaya
Website	
Phone	
Organisation Type	Consulting

Person	
Name	Gökhan Tosun
Email	gokhan.tosun@afconsult.com
Job Position	Head of Smart Grid Solutions

## **Organisation Details**

ÅF is an engineering and *consulting* company for the energy, industrial and infrastructure markets, creating progress for our clients since 1895.

ÅF's Operation in Turkey is connected and integrated with the entire activities of ÅF.

This interactive connection enables our Turkey branch to support clients in many different areas and in many different locations besides Turkey; like Yemen, Georgia, Iraq, Albania, FYR of Macedonia, Serbia, Nigeria, Ukraine, Jordan, Azerbaijan, Kazakhstan and others. ÅF in Turkey offers a full set of consulting services with around 50 highly qualified employees in Ankara and Istanbul offices.

This interactive connection enables our Turkey branch to support clients in many different areas and in many different locations besides Turkey; like Yemen, Georgia, Iraq, Albania, FYR of Macedonia, Serbia, Nigeria, Ukraine, Jordan, Azerbaijan, Kazakhstan and others. ÅF in Turkey offers a full set of consulting services with around 50 highly qualified employees in Ankara and Istanbul offices.

Our team in Turkey has expertise especially in leading and consulting Utilities in Turkey in order to support them to improve the operational performance, developing Research & Development Projects with the future vision for Smart Cities. AF Turkey has many types of reference projects in wide variety of Energy Headline. Optimization projects, theft&loss analysis, big-data concept in utilities, distributed generation, investment planning, smart meters etc. AF Turkey has very competent team which have the best experience in energy sector in Turkey and high-academical background. AF Turkey is in the first rank among the consultant and engineering companies in Turkey with the maximum number of R&D projects engagement for Electric distribution utilities. Finally, AF Turkey is the main contractor for the project "Turkey Smart-Grid Roadmap Project - TAŞ 2023)" through which the Smart Grid Roadmap of Turkey shall be published in 2017.

We shall be pleased to cooperate and support the coordinators and/or the partners for any type of project.

# Areas of Activity

3	
Smart and Sustainable Cities and Energy Efficient Buildings	<ul> <li>The European Green Vehicles Initiative</li> <li>GV-01-2017 Optimisation of heavy duty vehicles</li> </ul>
<ul> <li>EEB-07-2017 Integration of energy harvesting at building and district level</li> </ul>	<ul><li>for alternative fuels use</li><li>GV-04-2017 Next generation electric drivetrains</li></ul>
<ul> <li>EEB-08-2017 New business models for energy-effi- cient buildings through adaptable refurbishment so- lutions</li> </ul>	<ul><li>for fully electric vehicles, focusing on high efficiency and low cost</li><li>GV-07-2017 Multi-level modelling and testing of</li></ul>
• EE-12-2017 Integration of Demand Response in En- ergy Management Systems while ensuring interop- erability through Public Private Partnership	<ul> <li>electric vehicles and their components</li> <li>GV-08-2017 Electrified urban commercial vehicles integration with fast charging infrastructure</li> </ul>
<ul> <li>SCC-1-2016-2017 Smart Cities and Communities</li> </ul>	<ul> <li>GV-10-2017 Demonstration (pilots) for integra-</li> </ul>

lighthouse projects

• SCC-02-2016-2017 Demonstrating innovative nature-based solutions in cities tion of electrified L-category vehicles in the urban transport system

# **Cooperation Profiles**

# Partner: AF Turkey

Icchnical Analysis and Project Development for Smart Cities and Utilities Proficiency in Smart Grids, Automation, Distributed Generation, IoT, Big Data, Smart Cities Proficiency in Project Development and Execution Link in-between Coordinators, Utilities, Universities Proficiency in Energy Distribution Sector in Turkey and Roadmaps Proficiency in Consultancy, Technical Analysis and Proposals Paper submission for IEEE, International Congresses

# Akay Industries Mining Export Co

#### **Organisation Name**

Country	Turkey
City	Adana
Street	Ceyhan Road 37km Yilankale Akay Factory
Website	www.akaykirec.com
Phone	
Organisation Type	SME

Murat Akay
akaykirec@hotmail.com
Chairman



#### **Organisation Details**

Dear Sir

It is a pleasure for us to introduce our company, Akay Industries Mining Co. Ltd. which is in Adana, 60kms to both Mersin and Iskenderun seaports of Turkey till 1983, & modernised with high tech in 2005. The integrated factory was established on the 14,5ha land limestone mine with its facilities together with 6(six) Hoffman Eberhart 25m vertical kilns(ovens), which are fully Akay Patented, entegrated micronising-hydrating-packaging factory. Each automized event gives the ability to get different special kinds or finess anddemanded properties of CaO or Ca(OH)2 which exported to 3 different continents, 11 countries. Basicly our production is 365 days 7/24 systemized as and could be packaged all regular types as demanded. As 150.000 tons/year quicklime, 180.000 tons/year hydrated micronised lime CaO 90%min 12tons perhour;CaO 80%min 24tons perhour; with Ca(OH)2 92%min of lime. Akay Lime is used in food grades, desalination plants, water and waste threatments, construction industries. Hydrated lime is produced and exported as demanded forms like, 40'High Cube Container-Paletized, shrinked 27,5tons (55paperbags x 25kgs x 20pallets) 40'Container-25tons paper-big bags or 40'Container 28tons Loose (1120paperbags x 25kgs) 20'Container-20 tons Loose (800paperbags x 25kgs) and any demanded bulk applications. Akay also produces IZOMAT READY MORTAR developed in R-D department combining Cukurova University and Science & Technology Ministry of Turkey, which is basicly calcium silicat with chemical agents and is the strongest Clor, Waterproof, Sulphat problem solver in construction values. IZOMAT is used on external or wet surfaces and every application which would take care as gypsyum mortar.

From the chimney heat gathered from kilns drying process of mines gives the chance to compete with transport prices over seas. Akay also dries food industry pomaces for Turkey animal feed consumption.

Both the kilns and the hydrated packaging factories are with high tech know how fully automised and operated which is licenced by TUBITAK and both Environmental, Labour and Energy Ministries of the Republic of Turkey, integrated continuing total system of limestone mining as Turkey's 4th largest petroleumcoke allocated burning lime kilns and hydration and packaging factory with its social facilities, laboratories,logistics facilities are activate 7/24 throughout the year.Akay have all national operating licences includingISO9001:2008 & CE. Akay is awarded with 2 different Research and Development projects (Regaining in high tech and exporting with entegrated production)-(Regaining high value rawmaterials from food and mining industries) besides producing lime and mortar kinds. Best regards

Murat Akay

GSM : +90 533 363 89 79 Fax : +90 322 6468113

#### **Areas of Activity**

## SPIRE-Circular Economy Session

- SPIRE-07-2017 Integrated approach to process optimisation for raw material resources efficiency, excluding recovery technologies of waste streams
- SPIRE-08-2017 Carbon dioxide utilisation to produce added value chemicals
- SPIRE-09-2017 Pilot lines based on more flexible and down-scaled high performance processing
- SPIRE-10-2017 New electrochemical solutions for industrial processing, which contribute to a reduction of carbon dioxide emissions
- EE-17-2016-2017 Valorisation of waste heat in industrial systems
- SPIRE-13-2017 Potential of Industrial Symbiosis in Europe

# Factories of the Future

- FOF-06-2017 New product functionalities through advanced surface manufacturing processes for mass production
- FOF-07-2017 Integration of unconventional technologies for multi-material processing into manufacturing systems
- FOF-08-2017 In-line measurement and control for micro-/nano-enabled high-volume manufacturing for enhanced reliability
- FOF-12-2017 ICT Innovation for Manufacturing SMEs

## **Cooperation Profiles**

# **Coordinator:** Hydralic lime, less CO2, efficient ancient mortars suistainable by time, insulation of energy,

Dear Sir It is a pleasure for us to introduce our company, Akay Industries Mining Co. Ltd. which is in Adana, 60kms to both Mersin and Iskenderun seaports of Turkey till 1983, & modernised with high tech in 2005. The integrated factory was established on the 14,5ha land limestone mine with its facilities together with 6(six) Hoffman Eberhart 25m vertical kilns(ovens), which are fully Akay Patented, entegrated micronising-hydrating-packaging factory. Each automized event gives the ability to get different special kinds or finess anddemanded properties of CaO or Ca(OH)2 which exported to 3 different continents, 11 countries. Basicly our production is 365 days 7/24 systemized as and could be packaged all regular types as demanded. As 150.000 tons/year guicklime, 180.000 tons/year hydrated micronised lime CaO 90%min 12tons perhour;CaO 80%min 24tons perhour; with Ca(OH)2 92%min of lime. Akay Lime is used in food grades, desalination plants, water and waste threatments, construction industries. Hydrated lime is produced and exported as demanded forms like, paperbags x 25kgs and any demanded bulk applications. Akay also produces IZOMAT READY MORTAR developed in R-D department combining Cukurova University and Science & Technology Ministry of Turkey, which is basicly calcium silicat with chemical agents and is the strongest Clor, Waterproof, Sulphat problem solver in construction values. IZOMAT is used on external or wet surfaces and every application which would take care as gypsyum mortar. From the chimney heat gathered from kilns drying process of mines gives the chance to compete with transport prices over seas. Akay also dries food industry pomaces for Turkey animal feed consumption. Both the kilns and the hydrated packaging factories are with high tech know how fully automised and operated which is licenced by TUBITAK and both Environmental, Labour and Energy Ministries of the Republic of Turkey, integrated continuing total system of limestone mining as Turkey's 4th largest petroleumcoke allocated burning lime kilns and hydration and packaging factory with its social facilities, laboratories, logistics facilities are activate 7/24 throughout the year. Akay have all national operating licences including ISO9001:2008 & CE. Akay is awarded with 2 different Research and Development projects (Regaining in high tech and exporting with entegrated production)-(Regaining high value rawmaterials from food and mining industries) besides producing lime and mortar kinds. Our basic aim to par-

# Powered by B2Match ©

- EEB-05-2017 Development of near zero energy building renovation
- EEB-08-2017 New business models for energy-efficient buildings through adaptable refurbishment solutions
- SCC-02-2016-2017 Demonstrating innovative nature-based solutions in cities
- SC5-08-2017 Large-scale demonstrators on nature-based solutions for hydro-meteorological risk reduction
- SC5-21-2017: Cultural heritage as a driver for sustainable growth (Heritage-led rural regeneration)

ticipitate is to mention the opportunities of COMPLETELY NEW NHL5 Pure Hydraulic lime and long time use CO2 observant 1000 year guaranteed isolation and construction products use not only in renovation but also in economic construction material as mass production! Prof Dr Vahit Okumus (Istanbul Technical University Construction Engineer) Renovation Specialist will be our Project Manager Murat Akay

# **Coordinator:** Hydralic lime, less CO2, efficient ancient mortars suistainable by time, insulation of energy,

Dear Sir It is a pleasure for us to introduce our company, Akay Industries Mining Co. Ltd. which is in Adana, 60kms to both Mersin and Iskenderun seaports of Turkey till 1983, & modernised with high tech in 2005. The integrated factory was established on the 14,5ha land limestone mine with its facilities together with 6(six) Hoffman Eberhart 25m vertical kilns(ovens), which are fully Akay Patented, entegrated micronising-hydrating-packaging factory. Each automized event gives the ability to get different special kinds or finess anddemanded properties of CaO or Ca(OH)2 which exported to 3 different continents, 11 countries. Basicly our production is 365 days 7/24 systemized as and could be packaged all regular types as demanded. As 150.000 tons/year quicklime, 180.000 tons/year hydrated micronised lime CaO 90%min 12tons perhour;CaO 80%min 24tons perhour; with Ca(OH)2 92%min of lime. Akay Lime is used in food grades, desalination plants, water and waste threatments, construction industries. Hydrated lime is produced and exported as demanded forms like, paperbags x 25kgs and any demanded bulk applications. Akay also produces IZOMAT READY MORTAR developed in R-D department combining Cukurova University and Science & Technology Ministry of Turkey, which is basicly calcium silicat with chemical agents and is the strongest Clor, Waterproof, Sulphat problem solver in construction values. IZOMAT is used on external or wet surfaces and every application which would take care as gypsyum mortar. From the chimney heat gathered from kilns drying process of mines gives the chance to compete with transport prices over seas. Akay also dries food industry pomaces for Turkey animal feed consumption. Both the kilns and the hydrated packaging factories are with high tech know how fully automised and operated which is licenced by TUBITAK and both Environmental, Labour and Energy Ministries of the Republic of Turkey, integrated continuing total system of limestone mining as Turkey's 4th largest petroleumcoke allocated burning lime kilns and hydration and packaging factory with its social facilities, laboratories, logistics facilities are activate 7/24 throughout the year. Akay have all national operating licences including ISO9001:2008 & CE. Akay is awarded with 2 different Research and Development projects (Regaining in high tech and exporting with entegrated production)-(Regaining high value rawmaterials from food and mining industries) besides producing lime and mortar kinds. Our basic aim to participitate is to mention the opportunities of COMPLETELY NEW NHL5 Pure Hydraulic lime and long time use CO2 observant 1000 year guaranteed isolation and construction products use not only in renovation but also in economic construction material as mass production! Prof Dr Vahit Okumus (Istanbul Technical University Construction Engineer) Renovation Specialist will be our Project Manager Murat Akay

# AKG GAZBETON

#### **Organisation Name**

Country	Turkey	
City	Bornova	
Street	Kemalpasa Caddesi 6170/1 Sokak	
Website	www.akg-gazbeton.com	
Phone		
Organisation Type	Company	



Person		
Name	Ozlem AKDAS	
Email	ozlem.akdas@akg-gazbe- ton.com	
Job Position	R & D Senior Researcher	

#### **Organisation Details**

AKG is leading the industry with the broadest product ranges of porous, lightweight, and cement-based concrete products, specifically Autoclaved Aerated Concrete (AAC) under three main categories including -block products, -reinforced products and MINEPOR® Insulation Board in Turkey as a result of its wide- experience. We manufacture the products in three different regions in Turkey; Izmir, Kırıkkale, and Çorlu plants with a total manufacturing capacity of 1,632,000 m3/year.

**MINEPOR ® Insulation Board** is a patented product of the company having improved properties because of its mineral-based lightweight structure.

MINEPOR®;

- · displays perfect pore structure and high durability due to boron and other mineral components,
- A1 class non-combustible heat insulation material that provides fire safety,
- has superior insulation performance with ultra-low thermal conductivity of 0.05 W/mK,
- environment-friendly, high energy efficiency and heat insulation properties,

MINEPOR® has developed as a result of 4-year R&D study, thus we have a great grasp of crystal and porous structure of MINEPOR® in detail and we enable to bring other special properties to this product for specific purposes.

**Wide-spread penetration capability** owing to sales team comprised of 70 sales professionals and more than 250 distributors across Turkey. Additionally, AKG exports its products to 17 countries in various parts of the world.

With over 10-year-experience in R & D, various products has been developed in the field of construction material sector based on creativity and innovation culture of AKG.

#### AKG R&D strategy is to:

-closely monitor all scientific and technological developments in the industry,

-continuously develop new products and methods special for Turkish & Global Market, and

-attempt technology transfers in the field of building materials, especially cement-based concrete materials.

**Two advanced laboratories**, in each of which, with qualified professionals graduated from reputable universities in Turkey and abroad, the studies are conducted on different products.

**AKG Gazbeton closely monitors all scientific and technological developments** in the industry, combines its know-how with its vast experience and continuously develops new products and methods. AKG Gazbeton is always evolving for the better with new ideas and new projects and aims to contribute to the Turkish Building Materials Industry, both nationally and internationally. AKG Gazbeton is working closely with outstanding universities in Turkey, TUBITAK, the Ministry of Science, Industry and Technology, and TTGV.

We are currently getting involved in ongoing FISSAC Project of H2020 programme. FISSAC project is coordinated by Acciona Infraestructuras (Spain). The consortium is composed of 26 partners from 9 countries (8 EU Member States and Turkey). The essential objective of the FISSAC is innovative technological and non-technological processes to transform waste into valuable secondary raw materials. FISSAC represents a new paradigm built on an innovative industrial symbiosis model towards a zero waste approach in the resource intensive industries of the construction. Industrial symbiosis is a form of brokering to bring companies together in innovative collaborations, finding ways to use the waste from one as raw materials for another. For more details you can visit the website of FISSAC: http://fissacproject.eu/en/

# Areas of Activity

#### **SPIRE-Circular Economy Session**

- SPIRE-07-2017 Integrated approach to process optimisation for raw material resources efficiency, excluding recovery technologies of waste streams
- SPIRE-09-2017 Pilot lines based on more flexible and down-scaled high performance processing
- CIRC-01-2017 Systemic, eco-innovative approaches for the circular economy large-scale demonstration projects

## Factories of the Future

- FOF-07-2017 Integration of unconventional technologies for multi-material processing into manufacturing systems
- FOF-09-2017 Novel design and predictive maintenance technologies for increased operating life of production systems
- FOF-10-2017 New technologies and life cycle management for reconfigurable and reusable customised products

# Smart and Sustainable Cities and Energy Efficient Buildings

• EEB-05-2017 Development of near zero energy building renovation

# **Cooperation Profiles**

# Partner: ENERGY EFFICIENT BUILDING MATERIALS AND PRODUCTION PROCESS

o environmental-friendly, lightweight, porous, cement-based building materials, o sustainable buiding materials, o green building materials, o polymer based building materials, o composite building materials, o architectural energy efficient building materials, o mixing technologies, o demonstration opportunities.

## AKG GAZBETON

Organisation Name	
Country	Turkey
City	İzmir
Street	Kemalpaşa
Website	
Phone	
Organisation Type	Company

Person	
Name	Tuğba DALGIÇER
Email	tugba.dalgicer@akg-gazbe- ton.com
Job Position	R & D Researcher



## **Organisation Details**

AKG is leading the industry with the broadest product ranges of porous, lightweight, and cement-based concrete products, specifically Autoclaved Aerated Concrete (AAC) under three main categories including -block products, -reinforced products and MINEPOR® Insulation Board in Turkey as a result of its wide- experience. We manufacture the products in three different regions in Turkey; Izmir, Kırıkkale, and Çorlu plants with a total manufacturing capacity of 1,632,000 m3/year.

**MINEPOR ® Insulation Board** is a patented product of the company having improved properties because of its mineral-based lightweight structure.

MINEPOR®;

- displays perfect pore structure and high durability due to boron and other mineral components,
- A1 class non-combustible heat insulation material that provides fire safety,
- has superior insulation performance with ultra-low thermal conductivity of 0.05 W/mK,
- environment-friendly, high energy efficiency and heat insulation properties,

MINEPOR® has developed as a result of 4-year R&D study, thus we have a great grasp of crystal and porous structure of MINEPOR® in detail and we enable to bring other special properties to this product for specific purposes.

**Wide-spread penetration capability** owing to sales team comprised of 70 sales professionals and more than 250 distributors across Turkey. Additionally, AKG exports its products to 17 countries in various parts of the world.

With over 10-year-experience in R & D, various products has been developed in the field of construction material sector based on creativity and innovation culture of AKG.

## AKG R&D strategy is to:

-closely monitor all scientific and technological developments in the industry,

-continuously develop new products and methods special for Turkish & Global Market, and

-attempt technology transfers in the field of building materials, especially cement-based concrete materials.

**Two advanced laboratories**, in each of which, with qualified professionals graduated from reputable universities in Turkey and abroad, the studies are conducted on different products.

**AKG Gazbeton closely monitors all scientific and technological developments** in the industry, combines its know-how with its vast experience and continuously develops new products and methods. AKG Gazbeton is always evolving for the better with new ideas and new projects and aims to contribute to the Turkish Building Materials Industry, both nationally and internationally. AKG Gazbeton is working closely with outstanding universities in Turkey, TUBITAK, the Ministry of Science, Industry and Technology, and TTGV.

We are currently getting involved in ongoing FISSAC Project of H2020 programme. FISSAC project is coordinated by Acciona Infraestructuras (Spain). The consortium is composed of 26 partners from 9 countries (8 EU Member States and Turkey). The essential objective of the FISSAC is innovative technological and non-technological processes to transform waste into valuable secondary raw materials. FISSAC represents a new paradigm built on an innovative industrial symbiosis model towards a zero waste approach in the resource intensive industries of the construction. Industrial symbiosis is a form of brokering to bring companies together in innovative collaborations, finding ways to use the waste from one as raw materials for another. For more details you can visit the website of FISSAC: http://fissacproject.eu/en/

## Areas of Activity

#### **SPIRE-Circular Economy Session**

- SPIRE-07-2017 Integrated approach to process optimisation for raw material resources efficiency, excluding recovery technologies of waste streams
- SPIRE-09-2017 Pilot lines based on more flexible and down-scaled high performance processing
- CIRC-01-2017 Systemic, eco-innovative approaches for the circular economy large-scale demonstration projects

## Factories of the Future

- FOF-07-2017 Integration of unconventional technologies for multi-material processing into manufacturing systems
- FOF-09-2017 Novel design and predictive maintenance technologies for increased operating life of production systems
- FOF-10-2017 New technologies and life cycle management for reconfigurable and reusable customised products

## Smart and Sustainable Cities and Energy Efficient Buildings

• EEB-05-2017 Development of near zero energy building renovation

## **Cooperation Profiles**

## Partner: ENERGY EFFICIENT BUILDING MATERIALS AND PRODUCTION PROCESS

o environmental-friendly, lightweight, porous, cement-based building materials, o sustainable buiding materials, o green building materials, o polymer based building materials, o composite building materials, o architectural energy efficient building materials, o mixing technologies, o demonstration opportunities.

## AKG GAZBETON

#### **Organisation Name**

Country	Turkey
City	Bornova
Street	Kemalpaşa Street
Website	www.akg-gazbeton.com
Phone	
Organisation Type	Company



Person		
Name	Melike Oya Kader	
Email	oya.kader@akg-gazbe- ton.com	
Job Position	R & D Researcher	

## **Organisation Details**

AKG is leading the industry with the broadest product ranges of porous, lightweight, and cement-based concrete products, specifically Autoclaved Aerated Concrete (AAC) under three main categories including -block products, -reinforced products and MINEPOR® Insulation Board in Turkey as a result of its wide- experience. We manufacture the products in three different regions in Turkey; Izmir, Kırıkkale, and Çorlu plants with a total manufacturing capacity of 1,632,000 m3/year.

**MINEPOR ® Insulation Board** is a patented product of the company having improved properties because of its mineral-based lightweight structure.

MINEPOR®;

- displays perfect pore structure and high durability due to boron and other mineral components,
- A1 class non-combustible heat insulation material that provides fire safety,
- has superior insulation performance with ultra-low thermal conductivity of 0.05 W/mK,
- environment-friendly, high energy efficiency and heat insulation properties,

MINEPOR® has developed as a result of 4-year R&D study, thus we have a great grasp of crystal and porous structure of MINEPOR® in detail and we enable to bring other special properties to this product for specific purposes.

**Wide-spread penetration capability** owing to sales team comprised of 70 sales professionals and more than 250 distributors across Turkey. Additionally, AKG exports its products to 17 countries in various parts of the world.

With over 10-year-experience in R & D, various products has been developed in the field of construction material sector based on creativity and innovation culture of AKG.

#### AKG R&D strategy is to:

-closely monitor all scientific and technological developments in the industry,

-continuously develop new products and methods special for Turkish & Global Market, and

-attempt technology transfers in the field of building materials, especially cement-based concrete materials.

**Two advanced laboratories**, in each of which, with qualified professionals graduated from reputable universities in Turkey and abroad, the studies are conducted on different products.

**AKG Gazbeton closely monitors all scientific and technological developments** in the industry, combines its know-how with its vast experience and continuously develops new products and methods. AKG Gazbeton is always evolving for the better with new ideas and new projects and aims to contribute to the Turkish Building Materials Industry, both nationally and internationally. AKG Gazbeton is working closely with outstanding universities in Turkey, TUBITAK, the Ministry of Science, Industry and Technology, and TTGV.

We are currently getting involved in ongoing FISSAC Project of H2020 programme. FISSAC project is coordinated by Acciona Infraestructuras (Spain). The consortium is composed of 26 partners from 9 countries (8 EU Member States and Turkey). The essential objective of the FISSAC is innovative technological and non-technological processes to transform waste into valuable secondary raw materials. FISSAC represents a new paradigm built on an innovative industrial symbiosis model towards a zero waste approach in the resource intensive industries of the construction. Industrial symbiosis is a form of brokering to bring companies together in innovative collaborations, finding ways to use the waste from one as raw materials for another. For more details you can visit the website of FISSAC: http://fissacproject.eu/en/

## Areas of Activity

#### **SPIRE-Circular Economy Session**

- SPIRE-07-2017 Integrated approach to process optimisation for raw material resources efficiency, excluding recovery technologies of waste streams
- SPIRE-08-2017 Carbon dioxide utilisation to produce added value chemicals
- SPIRE-09-2017 Pilot lines based on more flexible and down-scaled high performance processing
- CIRC-01-2017 Systemic, eco-innovative approaches for the circular economy large-scale demonstration projects

## **Factories of the Future**

- FOF-07-2017 Integration of unconventional technologies for multi-material processing into manufacturing systems
- FOF-09-2017 Novel design and predictive maintenance technologies for increased operating life of production systems
- FOF-10-2017 New technologies and life cycle management for reconfigurable and reusable customised products

## **Cooperation Profiles**

## Partner: ENERGY EFFICIENT BUILDING MATERIALS AND PRODUCTION PROCESS

o environmental-friendly, lightweight, porous, cement-based building materials, o sustainable building materials, o green building materials, o polymer based building materials, o composite building materials, o architectural energy efficient building materials, o mixing technologies, o demonstration opportunities.

## Smart and Sustainable Cities and Energy Efficient Buildings

• EEB-05-2017 Development of near zero energy building renovation

## AKSARAY UNIVERSITY

Organisation Name	
Country	Turkey
City	AKSARAY
Street	AKSARAY ÜNİVERSİTESİ.FİZİK BÖLÜMÜ.AKSARAY- TUR
Website	www.aksaray.edu.tr
Phone	+905325616947
Organisation Type	R&D Institution
Person	
Name	BURHAN DAVARCIOGLU

burdavog@hotmail.com ACADEMICS



## **Organisation Details**

Email

**lob** Position

Climate change emerges as a multifaceted global problem those results in serious environmental and socio-economic consequences. National and international regulations on climate change initiated immense revolution process in industry. Manufacturing sector causes majority of the global emissions. Lately, new concepts emerged in manufacturing business including eco productivity, environmentally friendly technologies, and industrial ecology and thus essentiality of more efficient use of available potentials became imperious both for environmental quality and sustainability of production. Consumption of natural resources including raw materials, water, energy, and commodities is fast increasing due to mining, industrial and agricultural activities. Consequently; solid, liguid and gas wastes generated by these activities have adverse effect on the environment. Metal coating sector-the objective of this work is one of the leading sectors for state economy due to exportation extent and potentials, creating market for by-products, and generating recruitments. Most important environmental effects of the metal coating sector include use of chemicals, consumption of high energy and water, emissions to both surface and ground waters and toxic wastes. Practice of eco-efficiency (cleaner production) includes a wide range of opportunities from zero-cost simpler and better operations to highcost and laborious equipment changes. For the companies in the metal coating sector, by defining the areas of intense resource use and waste production and the parts that could be improved, simple, low-cost and clean production implementation models both for saving resources and reducing waste production were developed. It is imperative to take precautions against elements and factors that will have direct adverse effect on production and competitiveness due to the imposed adaptation to the climate change. It appears that the use of environmentally friendly technologies which is considered to be the most vital method in management of effects resulted by the climate change could deliver substantial advantage for the corporation.

## Areas of Activity

## **SPIRE-Circular Economy Session**

 CIRC-01-2017 Systemic, eco-innovative approaches for the circular economy large-scale demonstration projects

## Smart and Sustainable Cities and Energy Efficient Buildings

 SCC-1-2016-2017 Smart Cities and Communities lighthouse projects

## **Cooperation Profiles**

## The European Green Vehicles Initiative

• GV-06-2017 Physical integration of hybrid and electric vehicle batteries at pack level aiming at increased energy density and efficiency

## **Partner:** Quantitative and Qualitative Assessment of Na-montmorillonitic Clays in Samples Acquired from Selected Clay Deposits of Turkey and Their Usability as Nano-Filler Material

Clay minerals, occurring in geological deposits and soils in varying proportions and varieties, have specific crystal structures and are naturally formed and composed of fine-grained minerals (< 2 micron). They generally show plastic behavior when they are mixed with enough water, however, they become rigid when dried and/or cooked. Clays are used in fabrication of various products of the electronic industry including ceramics, capacitors, fuses, thermistors etc. and as nanofiller, product of nanotechnology, in materials used as isolation products in chemical industry and civil engineering applications. There is increasing number of studies on clays in this context. Nanotechnology, a science dealing with investigation and modification of properties of nano materials at atomic, molecular and macro molecular scale attract great interest of the scientists. Recently, nanotechnology and nanoscience applications in the world and in our country are spreading rapidly, especially production of polymer nanocomposites and use of nano-filler as additives in their production is an essential factor. Research findings obtained from nanoscience used in the production of nanotechnology, nano-materials' physical, chemical, thermal and mechanical properties to improve with the production of various nanocomposites is possible. Nanocomposites are structures in that inorganic particles are distributed within a polymer matrix. Of these substances, types and amounts of materials in the structure determine their efficient use in various areas. Therefore, exceptionally intensive research work is done to determine the quality and quantity of these substances. Differences in physical and chemical properties depending on the composition and structure of the clay minerals lead to their use in different industrial applications. In addition, as a raw material in the synthesis of various organic species and their use at large-scale will be enabled. Particle size, shape, distribution, surface chemistry, surface area and surface charges are the principle features that also cause differences in use. Another significant frontier for their use emerges as nano-filler. In the coverage of proposed 2-year continuum, first type localities will be decided and the information will be plotted on a 1:25000 scale topographic maps. Then clay profiles will be prepared and samples will be collected from the measured sections. Samples will be prepared for differential thermal and thermal gravimetric (DTA-TGA), X-ray diffraction (XRD), scanning electron microscopy (SEM), X-ray fluorescence (XRF), inductively coupled-plasma mass spectrometry (ICP-MS), Fourier Transform infrared spectroscopy (FTIR), and transmission electron microscopy (TEM) analyses. FTIR analyses in addition to the XRD analyses are crucial in that both quality of the clay species and their structural characteristics can be determined. By the FTIR spectral analyses, minerals and elements determined through the chemical analyses will be speciated with respect to functional groups they belong and bond types of the structures will be determined. These analyses will be carried out in the labs of İstanbul Technical University, Hacettepe University, Sakarya University, Anadolu University, and General Directorate of Mineral Research and Exploration of Turkey (MTA) in three ways: (I) Mineralogical characterization (XRD, DTA-TGA and FTIR) in that presence and quantity of Na-montmorillonite in subject samples will be determined; (II) Elemental analyses (XRF and ICP) in that elemental composition of bulk samples and clay fractions will be determined and (III) physical and morphological characterization of the clay particles and nano structures (SEM and TEM) including measuring cation exchange capacities (CEC). Subsequently guantitative and gualitative assessment of the samples will be achieved. Using the results, usability of Na-montmorillonitic clays as nano-filler will be assessed. Experimental activities towards this objective will be carried at the facilities of the Department of Chemical Engineering (Hacettepe University). These activities include following critical steps and stages (I) comparative structural and characteristic analyses of purified clays and their synthesized organic derivatives with the subject samples, (II) synthesizing nanocomposites through interlamellar polymerization and their comparative evaluation with the known similar nanocomposites for structure and properties, (III) preparation of nanocomposites from molten mixture of organo-clays and clays prepared with thermoplastic polymers employing a suitable extrusion system and study of their properties. Because the particles used as filler are extremely fine and they have large surface to volume ratios, nano composites could be very effective irrespective of the amount used. Interface interaction ratios between the organic polymer and the clay particle surfaces should be elevated for extensive physical characteristics and material performance. Most preferred clay mineral in nano composites is montmorillonite structure that is consist of 1.0 nm thick and from a few hundreds nm to micrometers long silicate layers. Compatibility of silicate surface with the polymer matrix is required and chain influence to the silicate layers should be provided in order nano composite structure to form. For this, cations like Na+, Li+, Ca++ occurring in interlayer surfaces/spaces are subjected to exchange reactions with alkylamonium ions to modify them.

## ALCOR ENERGY CONTRACTING JSC

#### Organisation Name

Country	Turkey
City	ISTANBUL
Street	Yeni Mah Cad No41B SARIYER
Website	www.energizingfuture.com
Phone	+905330963878
Organisation Type	SME



Person		
Name	Deniz KAZANCI	
Email	kazancid@gmail.com	XX
Job Position	CEO	ALCOR ENERGY*

#### **Organisation Details**

ALCOR ENERGY CONTRACTING JSC. provides services on sustainable strategies and development policies with a focus on contracting projects in energy sector and tender selection processes: striving for excellence in Engineering, Procurement, Contracting, Turn-Key EPC projects, manufacturing and technology implementations with high added-value, execution and development of sustainable-growth oriented strategies and policies. We are certain that together we can realize efficient, powerful projects that will help us to lead and structure our current and next generation self-sufficient, exergy-efficient, human friendly cities.

#### **KEY SERVICES**

With dedicated vision for sustainability issues key services include;

High-level leadership and commitment to sustainability issues;

Strategic project development and investment desicions based on sustainability analyses;

Promotion of highest exergy implementation via maximizing potential of useful energy production and obtainment;

Rigorous, sensitive analysis based on project constraints and comprehensive project initiation and handling;

Joint decision-making on efficient resource allocation in light of patented technologies;

Use of a broad range of tools in project design and implementation;

Effective and transparent project management and monitoring techniques;

..we are ready for winning partnerships in Governmental, Academic, Private and International Projects..

#### **Areas of Activity**

#### SPIRE-Circular Economy Session

- SPIRE-07-2017 Integrated approach to process optimisation for raw material resources efficiency, excluding recovery technologies of waste streams
- CIRC-01-2017 Systemic, eco-innovative approaches for the circular economy large-scale demonstration projects

## Smart and Sustainable Cities and Energy Efficient Buildings

- EEB-05-2017 Development of near zero energy building renovation
- EEB-06-2017 Highly efficient hybrid storage solutions for power and heat in residential buildings and district areas, balancing the supply and de-

## Factories of the Future

 FOF-12-2017 ICT Innovation for Manufacturing SMEs mand conditions

- EEB-07-2017 Integration of energy harvesting at building and district level
- EEB-08-2017 New business models for energy-efficient buildings through adaptable refurbishment solutions
- EE-12-2017 Integration of Demand Response in Energy Management Systems while ensuring interoperability through Public Private Partnership

## **Cooperation Profiles**

## **Coordinator:** Request for Partnership for H2020 Calls (EE-04-2016-2017, EE-22-2016-2017, SME-2 SME Instrument Phase 2 and other (exergy) efficiency and energy calls on RIA Actions)

ALCOR ENERGY CONTRACTING JSC. provides services on sustainable strategies and development policies with a focus on contracting projects in energy sector and tender selection processes: striving for excellence in Engineering, Procurement, Contracting, Turn-Key EPC projects, manufacturing and technology implementations with high added-value, execution and development of sustainable-growth oriented strategies and policies. We are certain that together we can realize efficient, powerful projects that will help us to lead and structure our current and next generation self-sufficient, exergy-efficient, human friendly cities. KEY SERVICES With dedicated vision for sustainability issues key services include; High-level leadership and commitment to sustainability issues; Strategic project development and investment desicions based on sustainability analyses; Promotion of highest exergy implementation via maximizing potential of useful energy production and obtainment; Rigorous, sensitive analysis based on project constraints and comprehensive project initiation and handling; Joint decision-making on efficient resource allocation in light of patented technologies; Use of a broad range of tools in project design and implementation; Effective and transparent project management and monitoring techniques; ...we are ready for winning partnerships in Governmental, Academic, Private and International Projects.. www.energizingfuture.com

## Anadolu Isuzu

#### **Organisation Name**

CountryTurkeyCityKocaeliStreetOtomotiv Cad.Websitewww.isuzu.com.trPhoneCompany

# ISUZU

Person	
Name	Cengizhan Bilgin
Email	cengizhan.bilgin@isuzu.com.tr
Job Position	R&D Chief



## **Organisation Details**

Anadolu Isuzu is one of the leading medium-sized bus and coach manufacturing companies in Europe whose major shareholders are the Anadolu Group from Turkey, and Isuzu Motors Limited and Itochu Corporation from Japan. The company is the first Japanese joint venture in Turkish automotive industry.

Its main fields of operation are the production and distribution of light duty trucks and midibuses. Since the establishment of the company in 1984, nearly more than 150.000 vehicles have been manufactured in accordance with the Isuzu Motors license agreement.

As a company, producing commercial vehicles with the license of a world-class Japanese brand in the European region, Anadolu Isuzu drives all its production processes according to the world's famous Japanese quality management systems and the European Union's quality standards and regulations. The inevitable results are the products manufactured at the global standards of excellence.

Anadolu Isuzu's export activities cover 26 countries in three continents. Majority of these markets are subject to the European Union regulations. The company is the midibus export leader in Turkey since 2004. In 2012, Anadolu Isuzu actualized 81 percent of the total midibus exports from Turkey.

Areas of Activity	
Smart and Sustainable Cities and Energy Efficient	The European Green Vehicles Initiative
Buildings	GV-05-2017 Electric vehicle user-centric design
<ul> <li>SCC-1-2016-2017 Smart Cities and Communities</li> </ul>	for optimised energy efficiency
lighthouse projects	<ul> <li>GV-08-2017 Electrified urban commercial vehi-</li> </ul>
<ul> <li>SCC-02-2016-2017 Demonstrating innovative na-</li> </ul>	cles integration with fast charging infrastructure
ture-based solutions in cities	<ul> <li>GV-09-2017 Aerodynamic and flexible trucks</li> </ul>
<ul> <li>SC5-21-2017: Cultural heritage as a driver for sus-</li> </ul>	<ul> <li>GV-10-2017 Demonstration (pilots) for integra-</li> </ul>
tainable growth (Heritage-led rural regeneration)	tion of electrified L-category vehicles in the ur-
	ban transport system

## **Cooperation Profiles**

## Partner: Anadolu Isuzu Design Office

As the Design Office of Anadolu Isuzu; our proficiencies are: Industrial Design, Transportation Design, Commercial Vehicle Design, Component Design, Green Vehicles Design, User-centric Design. We seek partnerships to build up new projects for municipalities, city councils, government organizations. We are focused on designing products for smart and connected cities.

## ANADOLU ISUZU

Organisation Name		
Country	Turkey	Large
City	KOCAELI	
Street	OTOMOTIV CADDESI	
Website		
Phone		
Organisation Type	Company	
Person		
Name		
Name	SADIK GELİRLİ	Large
Email	SADIK GELIRLI sadik.gelirli@isuzu.com.tr	Large
		Large
Email	sadik.gelirli@isuzu.com.tr	Large

## **Organisation Details**

Anadolu Isuzu is one of the leading medium-sized bus and coach manufacturing companies in Europe whose major shareholders are the Anadolu Group from Turkey, and Isuzu Motors Limited and Itochu Corporation from Japan. The company is the first Japanese joint venture in Turkish automotive industry.

Its main fields of operation are the production and distribution of light duty trucks and midibuses. Since the establishment of the company in 1984, nearly more than 150.000 vehicles have been manufactured in accordance with the Isuzu Motors license agreement.

As a company, producing commercial vehicles with the license of a world-class Japanese brand in the European region, Anadolu Isuzu drives all its production processes according to the world's famous Japanese quality management systems and the European Union's quality standards and regulations. The inevitable results are the products manufactured at the global standards of excellence.

Anadolu Isuzu's export activities cover 26 countries in three continents. Majority of these markets are subject to the European Union regulations. The company is the midibus export leader in Turkey since 2004. In 2012, Anadolu Isuzu actualized 81 percent of the total midibus exports from Turkey.

## Areas of Activity

Smart and Sustainable Cities and Energy Efficient Buildings

- SCC-1-2016-2017 Smart Cities and Communities lighthouse projects
- SCC-02-2016-2017 Demonstrating innovative nature-based solutions in cities
- SC5-21-2017: Cultural heritage as a driver for sustainable growth (Heritage-led rural regeneration)

The European Green Vehicles Initiative

- GV-05-2017 Electric vehicle user-centric design for optimised energy efficiency
- GV-08-2017 Electrified urban commercial vehicles integration with fast charging infrastructure
- GV-09-2017 Aerodynamic and flexible trucks
- GV-10-2017 Demonstration (pilots) for integration of electrified L-category vehicles in the urban transport system

## **Cooperation Profiles**

## Partner: Anadolu Isuzu Design Office

As the Design Office of Anadolu Isuzu; our proficiencies are: Industrial Design, Transportation Design, Commercial Vehicle Design, Component Design, Green Vehicles Design, User-centric Design. We seek partnerships to build up new projects for municipalities, city councils, government organizations. We are focused on designing products for smart and connected cities.

Turkey

## Anadolu Isuzu

Organisation Name	
Country	Turkey
City	Kocaeli
Street	Otomotiv
Website	
Phone	
<b>Organisation Type</b>	Company

Person		
Name	BARAN GÜRCAN	
Email	baran.gurcan@isuzu.com.tr	
Job Position	Business Development As-	
	sistant Specialist	R

#### **Organisation Details**

- Commercial vehicles
- Manufacturing
- Selling
- Distribution

Anadolu Isuzu is one of the leading medium-sized bus and coach manufacturing companies in Europe whose major shareholders are the Anadolu Group from Turkey, and Isuzu Motors Limited and Itochu Corporation from Japan. The company is the first Japanese joint venture in Turkish automotive industry.

## Areas of Activity

#### **Factories of the Future**

- FOF-06-2017 New product functionalities through advanced surface manufacturing processes for mass production
- FOF-07-2017 Integration of unconventional technologies for multi-material processing into manufacturing systems
- FOF-08-2017 In-line measurement and control for micro-/nano-enabled high-volume manufacturing for enhanced reliability
- FOF-09-2017 Novel design and predictive maintenance technologies for increased operating life of production systems
- FOF-10-2017 New technologies and life cycle management for reconfigurable and reusable customised products
- FOF-12-2017 ICT Innovation for Manufacturing SMEs

## The European Green Vehicles Initiative

- GV-01-2017 Optimisation of heavy duty vehicles for alternative fuels use
- GV-04-2017 Next generation electric drivetrains for fully electric vehicles, focusing on high efficiency and low cost
- GV-05-2017 Electric vehicle user-centric design for optimised energy efficiency
- GV-06-2017 Physical integration of hybrid and electric vehicle batteries at pack level aiming at increased energy density and efficiency
- GV-07-2017 Multi-level modelling and testing of electric vehicles and their components
- GV-08-2017 Electrified urban commercial vehicles integration with fast charging infrastructure
- GV-09-2017 Aerodynamic and flexible trucks
- GV-10-2017 Demonstration (pilots) for integration of electrified L-category vehicles in the urban transport system

## **Cooperation Profiles**

## Partner: Innovation, Smartcity

## Anadolu Isuzu

Organisation Name	
Country	Turkey
City	Kocaeli
Street	Otomotiv Caddesi
Website	www.isuzu.com.tr
Phone	
Organisation Type	Company

Person		
Name	Mertol Altınay	
Email	mertol.altinay@isuzu.com.tr	
Job Position	Innovation Team Leader and	
	Business Development	A
	Spec.	

## **Organisation Details**

Anadolu Isuzu Otomotiv Sanayi ve Ticaret A.Ş. is a open joint stock company founded in the partnership of Anadolu Group, Isuzu Motors Limited and Itochu. The company's main field of activity is production and sales of commercial vehicles such as light truck, truck, midibus, bus and pick-up.

## Areas of Activity

## The European Green Vehicles Initiative

- GV-01-2017 Optimisation of heavy duty vehicles for alternative fuels use
- GV-04-2017 Next generation electric drivetrains for fully electric vehicles, focusing on high efficiency and low cost
- GV-05-2017 Electric vehicle user-centric design for optimised energy efficiency
- GV-06-2017 Physical integration of hybrid and electric vehicle batteries at pack level aiming at increased energy density and efficiency
- GV-08-2017 Electrified urban commercial vehicles integration with fast charging infrastructure
- GV-09-2017 Aerodynamic and flexible trucks
- GV-10-2017 Demonstration (pilots) for integration of electrified L-category vehicles in the urban transport system

## Anadolu ISUZU Automotive

Organisation Name	
Country	Turkey
City	KOCAELI
Street	OTOMOTIV CADDESI
Website	
Phone	
Organisation Type	Company

Person	
Name	HALUK ATASOY
Email	haluk.atasoy@isuzu.com.tr
Job Position	R&D CHIEF

## **Organisation Details**

- Commercial vehicles
- Manufacturing
- Selling
- Distribution

Anadolu Isuzu is one of the leading medium-sized bus and coach manufacturing companies in Europe whose major shareholders are the Anadolu Group from Turkey, and Isuzu Motors Limited and Itochu Corporation from Japan. The company is the first Japanese joint venture in Turkish automotive industry.

## Areas of Activity

## The European Green Vehicles Initiative

- GV-04-2017 Next generation electric drivetrains for fully electric vehicles, focusing on high efficiency and low cost
- GV-06-2017 Physical integration of hybrid and electric vehicle batteries at pack level aiming at increased energy density and efficiency
- GV-07-2017 Multi-level modelling and testing of electric vehicles and their components
- GV-08-2017 Electrified urban commercial vehicles integration with fast charging infrastructure
- GV-09-2017 Aerodynamic and flexible trucks
- GV-13-2017 Production of next generation battery cells in Europe for transport applications

## **Cooperation Profiles**

## Partner: Commercial Electric Vehicles

## Anadolu ISUZU Automotive

Organisation Name	
Country	Turkey
City	KOCAELI
Street	OTOMOTIV CADDESI
Website	
Phone	
Organisation Type	Company

Person	
Name	Sonay Uluca Sabuncu
Email	sonay.sabuncu@isuzu.com.tr
Job Position	Intellectual Property Rights and Incentives Specialist

## **Organisation Details**

#### **Areas of Activity**

## The European Green Vehicles Initiative

- GV-01-2017 Optimisation of heavy duty vehicles for alternative fuels use
- GV-04-2017 Next generation electric drivetrains for fully electric vehicles, focusing on high efficiency and low cost
- GV-05-2017 Electric vehicle user-centric design for optimised energy efficiency
- GV-06-2017 Physical integration of hybrid and electric vehicle batteries at pack level aiming at increased energy density and efficiency
- GV-07-2017 Multi-level modelling and testing of electric vehicles and their components
- GV-08-2017 Electrified urban commercial vehicles integration with fast charging infrastructure
- GV-09-2017 Aerodynamic and flexible trucks
- GV-10-2017 Demonstration (pilots) for integration of electrified L-category vehicles in the urban transport system
- GV-13-2017 Production of next generation battery cells in Europe for transport applications

## Anadolu ISUZU Automotive

Organisation Name	
Country	Turkey
City	KOCAELI
Street	OTOMOTIV CADDESI
Website	
Phone	
Organisation Type	Company

Name     Arif Özer       Email     arif.ozer@isuzu.com.tr	Person	
	Name	Arif Özer
	Email	arif.ozer@isuzu.com.tr
Job Position R&D Director	Job Position	R&D Director

## **Organisation Details**

## Areas of Activity

## The European Green Vehicles Initiative

- GV-01-2017 Optimisation of heavy duty vehicles for alternative fuels use
- GV-04-2017 Next generation electric drivetrains for fully electric vehicles, focusing on high efficiency and low cost
- GV-05-2017 Electric vehicle user-centric design for optimised energy efficiency
- GV-06-2017 Physical integration of hybrid and electric vehicle batteries at pack level aiming at increased energy density and efficiency
- GV-07-2017 Multi-level modelling and testing of electric vehicles and their components
- GV-08-2017 Electrified urban commercial vehicles integration with fast charging infrastructure
- GV-09-2017 Aerodynamic and flexible trucks
- GV-10-2017 Demonstration (pilots) for integration of electrified L-category vehicles in the urban transport system
- GV-13-2017 Production of next generation battery cells in Europe for transport applications

Large

## Anadolu University

Organisation Name	
Country	Turkey
City	Eskisehir
Street	2 eylül Kampüsü Mühendislik Fakültesi Mimarlık Bölümü
Website	
Phone	
Organisation Type	University
Person	
Name	Pınar Demirel Etli
Email	pdetli@anadolu.edu.tr
Job Position	Architect, PhD student

## **Organisation Details**

I am an architect and PhD student in Anadolu University. My thesis subject is about smart cities and smart design principles. I would like to attend the event to collect information about the upcoming projects.

## Areas of Activity

## Smart and Sustainable Cities and Energy Efficient Buildings

- EEB-05-2017 Development of near zero energy building renovation
- EEB-06-2017 Highly efficient hybrid storage solutions for power and heat in residential buildings and district areas, balancing the supply and demand conditions
- EEB-07-2017 Integration of energy harvesting at building and district level
- EEB-08-2017 New business models for energy-efficient buildings through adaptable refurbishment solutions
- SCC-1-2016-2017 Smart Cities and Communities lighthouse projects
- SC5-21-2017: Cultural heritage as a driver for sustainable growth (Heritage-led rural regeneration)

## **Cooperation Profiles**

## Partner: Researcher

## Anadolu University - ARINKOM TTO

#### **Organisation Name**

Country	Turkey
City	Eskisehir
Street	Yunus Emre Kampusu
Website	https://www.anadolu.edu.tr/en
Phone	
Organisation Type	University

Person	
Name	Rabia TAS
Email	rabiatas@anadolu.edu.tr
Job Position	System Manager & H2020
	Coordinator



## **Organisation Details**

Anadolu University was founded in 1982 and since then it has gained a well-deserved place as a modern, dynamic and innovative institution among the largest universities not only in Turkey but also in the world. Anadolu University is an institution, promoting universal higher education values and blazing trails in the Turkish higher education and research. The successful launch of the distance education system ranks at the top of innovative initiatives of Anadolu University. Today the total number of students in three faculties offering distance education is over one million. This system has been taken as a model by many countries. Also Anadolu University has a great experience on student exchanges and international projects in terms of life-long learning.

ARINKOM TTO operating under Anadolu University is an interface bringing university-industry & society together in terms of national and international R&D projects. Operating in the fields of project development and support, university-industry relations, IPR and entrepreneurship; ARINKOM TTO is R&D and Innovation Coordination Center of Anadolu University. Anadolu University has one FP7 and five ongoing H2020 projects whose coordination is supervised by ARINKOM TTO. Carrying out the interface role among university-industry & society; ARINKOM TTO knows the capacity, problems and research areas of the three target groups. Therefore; it is a door opening to create cooperations within the framework of the Horizon 2020 programme.

## Areas of Activity

## **SPIRE-Circular Economy Session**

• SPIRE-07-2017 Integrated approach to process optimisation for raw material resources efficiency, excluding recovery technologies of waste streams

## Smart and Sustainable Cities and Energy Efficient Buildings

- EEB-05-2017 Development of near zero energy building renovation
- EEB-06-2017 Highly efficient hybrid storage solutions for power and heat in residential buildings and district areas, balancing the supply and demand conditions
- EEB-07-2017 Integration of energy harvesting at building and district level
- EEB-08-2017 New business models for energy-efficient buildings through adaptable refurbishment solutions
- SCC-1-2016-2017 Smart Cities and Communities

## The European Green Vehicles Initiative

• GV-13-2017 Production of next generation battery cells in Europe for transport applications

## **Cooperation Profiles**

## Partner: Smart and Sustainable Cities and Energy Efficient Buildings Calls

We'd like to join consortia as a project partner. In terms of smart city calls, Anadolu University is a project parner within the H2020 project named REMOURBAN. REMOURBAN is a 60-month project with a total budget of 23,790,405 € shared among 22 partners from 7 countries. For further information you can chack the web site: http://www.remourban.eu/The-Project/ABOUT.kl

Large

## Arember Bilişim Otomasyon San.Tic. Ltd.Şti.

Organisation Name	
Country	Turkey
City	Başiskele / Kocaeli
Street	Yeniköy Merkez Mah. Vatan Cad. No:83/B32
Website	www.datasera.com
Phone	
<b>Organisation Type</b>	SME

Person	
Name	ÖNDER YÜCE
Email	onder.yuce@datasera.com
Job Position	General Maneger

## Organisation Details

Arember is a "**technology**", "**automation**" and "**service**" company for manufacturing business, and producing industrial machines, systems, softwares and solutions. Formally in 2004, we started our business with the name of "Teknora Software" for producing special industrial softwares. Today, **Arember™ Bilişim Otomasyon San. Tic. Ltd. Şti.** continues its business with **Datasera**® and **Zezna**® trademarks.

**Technology** and **automation.** Crucial component of "design" and "manufacturing" success. Basic necessity for the businesses who require rapid product and production cycle, flexibility, repeatability, productivity and high-quality. **Discover the Manufacturing!...** 

The products which belongs 100% to us, have been developed for many years. These products have combined in 3 groups: MAKSIS, PPT, and ZEZNA.

- MAKSIS: Manufacturing / Operations Management Systems
- PPT: Process, Product, and Quality Traceability Systems
- ZEZNA: Machine / System Design and Automation, Mechatronics

## Areas of Activity

## SPIRE-Circular Economy Session

• SPIRE-09-2017 Pilot lines based on more flexible and down-scaled high performance processing

## Factories of the Future

- FOF-06-2017 New product functionalities through advanced surface manufacturing processes for mass production
- FOF-07-2017 Integration of unconventional technologies for multi-material processing into manufacturing systems
- FOF-08-2017 In-line measurement and control for micro-/nano-enabled high-volume manufacturing for enhanced reliability
- FOF-09-2017 Novel design and predictive maintenance technologies for increased operating life of production systems
- FOF-10-2017 New technologies and life cycle management for reconfigurable and reusable customised products
- FOF-12-2017 ICT Innovation for Manufacturing

## Smart and Sustainable Cities and Energy Efficient Buildings

- EE-12-2017 Integration of Demand Response in Energy Management Systems while ensuring interoperability through Public Private Partnership
- SCC-1-2016-2017 Smart Cities and Communities lighthouse projects

## Partner: Discover the manufacturing

Our company have many project experience in manufacturing industry for more then 15 years especially in automotive industry. Several of them award winning and recognized by multinational industry groups. Our project keywords are automation, MES/MRP, IoT, Vision, manufacturing traceability, optimization, ERP-manufacturing integration, productivity and flexibility in automation, neural networks ((learning, self-developing, human brain methodology). We practice and achive these keywords in manufacturing environments. We can share our experience in a project issue with a partnership.

## ARC

ARÇELİK AŞ	
Organisation Name	
Country	Turkey
City	İstanbul
Street	Tuzla
Website	
Phone	
<b>Organisation Type</b>	Company

Person	
Name	SEMİH OKYAR
Email	semih.okyar@arcelik.com
Job Position	Senior Specialist

## **Organisation Details**

Arcelik is the biggest Home Appliances manufacturer in Turkey which produce Refrigerator, Washing Machine, Dishwasher, TV etc.

## **Areas of Activity**

## **SPIRE-Circular Economy Session**

- SPIRE-07-2017 Integrated approach to process optimisation for raw material resources efficiency, excluding recovery technologies of waste streams
- SPIRE-09-2017 Pilot lines based on more flexible and down-scaled high performance processing
- EE-17-2016-2017 Valorisation of waste heat in industrial systems

## **Factories of the Future**

- FOF-06-2017 New product functionalities through advanced surface manufacturing processes for mass production
- FOF-07-2017 Integration of unconventional technologies for multi-material processing into manufacturing systems
- FOF-08-2017 In-line measurement and control for micro-/nano-enabled high-volume manufacturing for enhanced reliability
- FOF-09-2017 Novel design and predictive maintenance technologies for increased operating life of production systems
- FOF-10-2017 New technologies and life cycle management for reconfigurable and reusable customised products
- FOF-12-2017 ICT Innovation for Manufacturing SMEs

## ARÇELİK AŞ

Organisation Name	
Country	Turkey
City	İSTANBUL
Street	TUZLA
Website	
Phone	
<b>Organisation Type</b>	Company

Person	
Name	Yüksel ÜSTÜNDAĞ
Email	yuksel.ustundag@arcelik.com
Job Position	Senior Specialist

## **Organisation Details**

Arçelik is the biggest Home Appliances company of Turkey which produces Refrigerator, Washing Machine, Dishwasher, Cooking Oven, TV, etc.

## Areas of Activity

## SPIRE-Circular Economy Session

- SPIRE-07-2017 Integrated approach to process optimisation for raw material resources efficiency, excluding recovery technologies of waste streams
- SPIRE-09-2017 Pilot lines based on more flexible and down-scaled high performance processing
- EE-17-2016-2017 Valorisation of waste heat in industrial systems

#### **Factories of the Future**

- FOF-06-2017 New product functionalities through advanced surface manufacturing processes for mass production
- FOF-07-2017 Integration of unconventional technologies for multi-material processing into manufacturing systems
- FOF-08-2017 In-line measurement and control for micro-/nano-enabled high-volume manufacturing for enhanced reliability
- FOF-09-2017 Novel design and predictive maintenance technologies for increased operating life of production systems
- FOF-10-2017 New technologies and life cycle management for reconfigurable and reusable customised products
- FOF-12-2017 ICT Innovation for Manufacturing SMEs

## **Cooperation Profiles**

## Partner: FoF

New Production and Manufacturing Technologies, Big Data,

## Arçelik A.Ş

Organisation Name	
Country	Turkey
City	İstanbul
Street	Tuzla
Website	
Phone	
Organisation Type	Company

Person	
Name	Gökhan Engin
Email	gokhan.engin@arcelik.com
Job Position	Central Production Engi-
	neering Manager

## **Organisation Details**

Having operations in durable consumer goods industry with production, marketing and after-sales services, Arçelik A.Ş. offers products and services around the world with its 27,000 employees, 18 different production facilities in seven countries (Turkey, Romania, Russia, China, Thailand, Pakistan and South Africa), its sales and marketing companies all over the world and its 11 brands (Arçelik, Beko, Grundig, Blomberg, ElektraBregenz, Arctic, Leisure, Flavel, Defy, Dawlance and Altus). As one of the foremost companies in KOÇ Group and Turkish private industry, Arçelik, founded in 1955, has always been the leader in Turkish private sector with its efforts for industrial development. Today, Arçelik Group is the third largest company in home appliances sector in Europe. Arçelik Group achieved a consolidated turnover of EUR 4.4 Billion in 2015. The Company's vision is "Respects the Globe, Respected Globally.

## Areas of Activity

## Factories of the Future

- FOF-06-2017 New product functionalities through advanced surface manufacturing processes for mass production
- FOF-07-2017 Integration of unconventional technologies for multi-material processing into manufacturing systems
- FOF-08-2017 In-line measurement and control for micro-/nano-enabled high-volume manufacturing for enhanced reliability
- FOF-09-2017 Novel design and predictive maintenance technologies for increased operating life of production systems

## Smart and Sustainable Cities and Energy Efficient Buildings

• EEB-08-2017 New business models for energy-efficient buildings through adaptable refurbishment solutions

## Arçelik A.Ş

Organisation Name	
Country	Turkey
City	İstanbul
Street	Tuzla
Website	
Phone	
Organisation Type	Company

Person	
Name	İzlem Tekin Bayrak
Email	izlem.tekin@arcelik.com
Job Position	Production Technologies
	Specialist

## **Organisation Details**

Having operations in durable consumer goods industry with production, marketing and after-sales services, Arçelik A.Ş. offers products and services around the world with its 27,000 employees, 18 different production facilities in seven countries (Turkey, Romania, Russia, China, Thailand, Pakistan and South Africa), its sales and marketing companies all over the world and its 11 brands (Arçelik, Beko, Grundig, Blomberg, ElektraBregenz, Arctic, Leisure, Flavel, Defy, Dawlance and Altus). As one of the foremost companies in KOÇ Group and Turkish private industry, Arçelik, founded in 1955, has always been the leader in Turkish private sector with its efforts for industrial development. Today, Arçelik Group is the third largest company in home appliances sector in Europe. Arçelik Group achieved a consolidated turnover of EUR 4.4 Billion in 2015. The Company's vision is "Respects the Globe, Respected Globally.

## Areas of Activity

## Factories of the Future

- FOF-09-2017 Novel design and predictive maintenance technologies for increased operating life of production systems
- FOF-10-2017 New technologies and life cycle management for reconfigurable and reusable customised products

## Arçelik A.Ş.

Organisation Name	
Country	Turkey
City	İstanbul
Street	Çayırova
Website	www.arcelikas.com
Phone	
Organisation Type	Company

Person	
Name	Evrim Özgül
Email	evrim.ozgul@arcelik.com
Job Position	R&D Team Leader - Technol- ogy Development and R&D Incentives

## **Organisation Details**

Having operations in durable consumer goods industry with production, marketing and after-sales services, Arçelik A.Ş. offers products and services around the world with its 27,000 employees, 18 different production facilities in seven countries (Turkey, Romania, Russia, China, Thailand, Pakistan and South Africa), its sales and marketing companies all over the world and its 11 brands (Arçelik, Beko, Grundig, Blomberg, ElektraBregenz, Arctic, Leisure, Flavel, Defy, Dawlance and Altus). As one of the foremost companies in KOÇ Group and Turkish private industry, Arçelik, founded in 1955, has always been the leader in Turkish private sector with its efforts for industrial development. Today, Arçelik Group is the third largest company in home appliances sector in Europe. Arçelik Group achieved a consolidated turnover of EUR 4.4 Billion in 2015. The Company's vision is "Respects the Globe, Respected Globally.

## **Areas of Activity**

## Factories of the Future

- FOF-06-2017 New product functionalities through advanced surface manufacturing processes for mass production
- FOF-07-2017 Integration of unconventional technologies for multi-material processing into manufacturing systems
- FOF-08-2017 In-line measurement and control for micro-/nano-enabled high-volume manufacturing for enhanced reliability
- FOF-09-2017 Novel design and predictive maintenance technologies for increased operating life of production systems
- FOF-10-2017 New technologies and life cycle management for reconfigurable and reusable customised products
- FOF-12-2017 ICT Innovation for Manufacturing SMEs

## Asaş

Organisation Name	
Country	Turkey
City	Sakarya
Street	İstiklal Mah.
Website	www.asasalu.com.tr
Phone	
<b>Organisation Type</b>	Company

Person	
Name	Caglar Bekiroglu
Email	caglar.bekiroglu@asasalu.com.tr
Job Position	R&D and Method Manager

## **Organisation Details**

Please visit the following web page of the organisation:

www.asasalu.com.tr

## Areas of Activity

Smart and Sustainable Cities and Energy Efficient Buildings

• EEB-05-2017 Development of near zero energy building renovation

🛆 AUGMEA

## AUGMEA SIMULATION TECHNOLOGIES INC.

## **Organisation Name**

Country	Turkey
City	ISTANBUL
Street	TEKNOPARK ISTANBUL KULUÇKA MERKEZİ
Website	
Phone	
Organisation Type	Company



## **Organisation Details**

AUGMEA Simulation Technologies Inc. is a young spin-off of a long-established company specialized in gaming industry. With its qualified engineering personnel and managers with strong business acumen, AUGMEA has years of accumulated experience in simulation technologies and virtual reality in sectors like defence, aerospace, automotive, aviation, energy and architecture.

## Areas of Activity

## The European Green Vehicles Initiative

- GV-05-2017 Electric vehicle user-centric design for optimised energy efficiency
- GV-07-2017 Multi-level modelling and testing of electric vehicles and their components
- GV-09-2017 Aerodynamic and flexible trucks

## Factories of the Future

- FOF-09-2017 Novel design and predictive maintenance technologies for increased operating life of production systems
- FOF-10-2017 New technologies and life cycle management for reconfigurable and reusable customised products

## Smart and Sustainable Cities and Energy Efficient Buildings

• EEB-08-2017 New business models for energy-efficient buildings through adaptable refurbishment solutions

## **Cooperation Profiles**

## **Partner:** Simulation Technologies, Virtual Reality, Virtual Prototyping Smart and Sustainable Cities' and 'Energy Efficient Buildings

With our vast experience on simulation and virtual reality / virtual prototyping, we would like to be a part of a relevant project under the call Smart and Sustainable Cities' and 'Energy Efficient Buildings. We would like to discuss further if we can become partners in your project or project idea.

## **Partner:** Simulation Technologies, Virtual Reality, Virtual Prototyping - The European Green Vehicles Initiative

With our vast experience on simulation and virtual reality / virtual prototyping, we would like to be a part of a relevant project under the call The European Green Vehicles Initiative. We would like to discuss further if we can become partners in your project or project idea.

## **Partner:** Simulation Technologies, Virtual Reality, Virtual Prototyping - Factories of The Future

With our vast experience on simulation and virtual reality / virtual prototyping, we would like to be a part of a relevant

project under the call Factories of The Future. We would like to discuss further if we can become partners in your project or project idea.

## AYVOS Bilgi Teknolojileri Yazilim Otomasyon Sistemleri San. ve Tic. A.S.

<b>O</b>		 
()rd	anisat	ame
VIY	amsac	anc

Large

Person		
Name	ERAY HANGÜL	Large
Email	eray.hangul@ayvos.com	
Job Position	General Manager	

## **Organisation Details**

Ayvos develops technological solutions for border security needs and wide area surveillance requirements. Through the custom developed software and hardware system, borders and wide areas can be traced easly without human effort.

Ayvos continuously applies research and development about video data processing and automation integration.

Our Research & Development activities cover the topics below :

- Object detection on video data (human, vehicle, animal)
- **Object recognition after detection** (guerrilla/soldier/farmer, tactical armored pickup/tank/plane/ helicopter/drone, mule/horse/donkey carrying heavy cargo)
- Scene change detection (Any predefined object was lost or was moved to another position)
- **Object distance and geographic coordinate mapping** (Dynamic programmable area map and laser touched target indicating on map)
- **Unmanned Aerial Vehicle (UAV) prevention systems** (Detecting any UAV, auto-tracking at cloudy sky and dropping connection of it from its controller wt. RF technology)

## **Areas of Activity**

## Factories of the Future

- FOF-09-2017 Novel design and predictive maintenance technologies for increased operating life of production systems
- FOF-12-2017 ICT Innovation for Manufacturing SMEs

## **Cooperation Profiles**

## **Partner:** We are AYVOS here for : Image Processing Based Operational & Productional Systems

As Industrial 4.0 vision said, self adaptable automation systems are going to be at the centre of new factories. So, multi-sensor usage and agent based communication of distributed systems will be our future. Day light, IR, Laser and Thermal cameras are also sensors which had been using as vision tools in some of production and operation fields of different industries. Through capturing image data from cameras, production and operation quality can be increased automatically through using image processing techniques. Example of image processing @ production & operational

areas : - Anomaly detection on production band - Corruption / damage detection on a plane / 3D surface - Calculating area based temperature of any area like box containing ice creams - ... etc.

Large

## Bahcesehir University

Organisation Name	
Country	Turkey
City	Istanbul
Street	Bahcesehir University
Website	
Phone	
Organisation Type	University

Person	
Name	Yavuz Gunalay
Email	yavuz.gunalay@eas.bau.edu.tr
Job Position	Vice Dean

## **Organisation Details**

Bahcesehir University (BAU) is a foundation university, located at the heart of Istanbul. As a higher education institution dedicated to teaching, research, and service to our society, BAU aims to educate the leading work force of future who have an inquiring mind and a critical thinking ability; are sensitive to local and global issues; achieve international standards; contribute to scientific, technological, and cultural knowledge. The University is continuing to develop international collaboration with many partner universities throughout EU and other countries. The office of International Relations at BAU is playing an important role in increasing number of University partners and bilateral agreements during the past fewyears. With these activities allow BAU to expand and streng then the international relations of the University. Under the roof of BAU there is EU Information Center which it works on the purpose to inform citizens about the European Union and Turkey 's accession process. The Center will be run in collaboration with Bahcesehir University, and is part of a network of 21 EUICs across Turkey with coordination of EU Turkey Delegation. BAU also has a international exchange office which conducts Erasmus youth exchange, internship mobility and other EU funds and processes. - Our University consists of 8 Faculties, 1 School of Languages, 2 Vocational Schools - 4 Institute provides post graduate education. - 17.048 registered students study at our university - 1047 academicians lecture at our University. - There are 4 campuses in Istanbul. - The number of our international partners is more than 193 - Our university provides more than 100 programs. - BAU was given the "Superbrands of Turkey" award in 2007. - Bahçeşehir-Uğur Educational Institutions (BAU is part of it) owns 35 kindergarten, 18 elementary and 47 high schools, and 177 private educational centers in Turkey. - Approximately 5000 lecturers work for Bahçeşehir-Uğur Educational Institutions. The university has 8 Faculties and 4 Graduate Institutes with more than 20,000 students.

## Areas of Activity

## SPIRE-Circular Economy Session

- SPIRE-08-2017 Carbon dioxide utilisation to produce added value chemicals
- SPIRE-10-2017 New electrochemical solutions for industrial processing, which contribute to a reduction of carbon dioxide emissions
- CIRC-01-2017 Systemic, eco-innovative approaches for the circular economy large-scale demonstration projects
- CIRC-02-2017 Water in the context of the circular economy
- EE-17-2016-2017 Valorisation of waste heat in industrial systems

## Factories of the Future

 FOF-10-2017 New technologies and life cycle management for reconfigurable and reusable customised

## The European Green Vehicles Initiative

- GV-05-2017 Electric vehicle user-centric design for optimised energy efficiency
- GV-08-2017 Electrified urban commercial vehicles integration with fast charging infrastructure

## Smart and Sustainable Cities and Energy Efficient Buildings

• SC5-21-2017: Cultural heritage as a driver for sustainable growth (Heritage-led rural regeneration) products

• FOF-12-2017 ICT Innovation for Manufacturing SMEs

## **Cooperation Profiles**

**Coordinator:** Electrified urban commercial vehicles integration with fast charging infrastructure

Hybrid and Electrical trucks are getting popular in urban transportation systems. We would like to investigate infrastructure alternatives for energy supply as well as a model that will optimise the transhipment problem for the whole city.

## Balıkesir Edremit Municipality-Edremit Belediyesi

#### Organisation Name

Country	Turkey
City	Balıkesir Edremit
Street	yılmaz akpınar
Website	www.edremit.bel.tr
Phone	
Organisation Type	Authority/Government

Person	
Name	zeynep karakus
Email	zeynep.karakus@yahoo.com
Job Position	Energy Engineer

## **Organisation Details**

Local Government, Municipality EU Preject department

## **Areas of Activity**

## Smart and Sustainable Cities and Energy Efficient Buildings

- EEB-05-2017 Development of near zero energy building renovation
- SC5-21-2017: Cultural heritage as a driver for sustainable growth (Heritage-led rural regeneration)

## **Cooperation Profiles**

## Partner: Reneawable Energy citizen cooperative

Reneawable Energy citizen cooperative



## Balıkesir University

Organisation	Name
--------------	------

Country	Turkey
City	Balikesir
Street	Balikesir University, Cagis Kampüsü
Website	
Phone	
Organisation Type	University

Person	
Name	Yusuf YILDIZ
Email	yusifyildiz@gmail.com
Job Position	vice dean of faculty of ar-
	chitecture



## **Organisation Details**

Balıkesir University was founded in accordance with the law 3837 published in 21281 numbered gazette dated July 11st, 1992. Having incorporated since January 1st, 1993, Balıkesir University has been carrying on its activities with 11 faculties, 5 institues, 5 schools, 16 vocational schools, 20 research centers, 1081 instructors and 38.892 students.

## **Areas of Activity**

Smart and Sustainable Cities and Energy Efficient Buildings

- EEB-05-2017 Development of near zero energy building renovation
- EEB-08-2017 New business models for energy-efficient buildings through adaptable refurbishment solutions
- SCC-1-2016-2017 Smart Cities and Communities lighthouse projects

## **Cooperation Profiles**

## **Partner:** nearly zero enery buildings, energy-efficiency analysis, energy efficient retrofitting

Partner of "Train-to-NZEB: The Building Knowledge Hubs of Europe" project (http://www.train-to-nzeb.com) The "Trainto-NZEB" project aims to provide world-class training on energy efficiency and RES in buildings, based on new training programmes, business plans and up-to-date training equipment for a set of training and consultation centers around Europe. Its goal is to improve the knowledge and skills in the construction sector and to provide practical trainings, demonstrations and comprehensive consulting services for design and construction of Nearly Zero-Energy Buildings (NZEB) supported by RES, based on the Passive House concept. The training centers (or Building Knowledge Hubs) will form an international network, providing trainings on the curricula developed under the European BUILD UP Skills initiative and by project partners, as well as continuous opportunities for exchange, updating and improving of the existing training programmes. The modern training facilities will enable the conduction of practical exercises in addition to the theoretical programmes already available in the focus countries. Topic in interest (Theme, Specific Call/s) \* Smart Cities \* Building Efficiency Your Possible Role (partner or coordinator) \* Partner

## Baran Ungan

Organisation Name	
Country	Turkey
City	Istanbul
Street	Kadikoy
Website	
Phone	
Organisation Type	Consulting

Person	
Name	Baran Ungan
Email	baranungan@yahoo.com
Job Position	Energy Efficiency Consul-
	tant

## **Organisation Details**

I am a freelance consultant specialized in energy efficiency in industry and buildings. My main working areas are energy management systems, energy audits and LEED projects. I hold LEED AP credentials in Building Design & Construction and Operations & Maintenance; and Energy Manager and Auditor certificates issued by the Ministry of Energy of Turkey.

## Areas of Activity

## Smart and Sustainable Cities and Energy Efficient Buildings

- EEB-05-2017 Development of near zero energy building renovation
- EEB-06-2017 Highly efficient hybrid storage solutions for power and heat in residential buildings and district areas, balancing the supply and demand conditions
- EEB-07-2017 Integration of energy harvesting at building and district level
- SCC-1-2016-2017 Smart Cities and Communities lighthouse projects
- SCC-02-2016-2017 Demonstrating innovative nature-based solutions in cities

## **Baskent University**

Organisation Name		
Turkey		
Ankara		
Baglica Campus Etimesgut Eskisehir Yolu 20 km		
www.baskent.edu.tr		
University		

Person	
Name	BIROL KILKIS
Email	bkilkis@baskent.edu.tr
Job Position	Chair, Energy Engineering



## **Organisation Details**

Energy Engineering Graduate Program is involved in renewable energy sources, energy economy, and energy conversion systems with main emphasis to solar and wind energy

## **Areas of Activity**

## SPIRE-Circular Economy Session

- SPIRE-08-2017 Carbon dioxide utilisation to produce added value chemicals
- EE-17-2016-2017 Valorisation of waste heat in industrial systems

## Smart and Sustainable Cities and Energy Efficient Buildings

- EEB-05-2017 Development of near zero energy building renovation
- EEB-06-2017 Highly efficient hybrid storage solutions for power and heat in residential buildings and district areas, balancing the supply and demand conditions
- EEB-07-2017 Integration of energy harvesting at building and district level
- SCC-1-2016-2017 Smart Cities and Communities lighthouse projects
- SCC-02-2016-2017 Demonstrating innovative nature-based solutions in cities

## The European Green Vehicles Initiative

• GV-05-2017 Electric vehicle user-centric design for optimised energy efficiency

## **Cooperation Profiles**

## **Partner:** DEVELOPMENT AND APPLICATION OF SECOND-GENERATION SOLAR PV AND THERMAL IN RESIDENCES

A new PVT system has been developed and a TUBITAK project is pending. The ain is to generate more power and maximze the overall exergy efficiency

## **Partner:** DEVELOPMENT AND APPLICATION OF DOMESTIC BIOGAS PRODUCTION TECHNOL-OGY (ECO-SAN) AND USE IN DOMESTIC COGENERATION SYSTEM

In large apartment complexes the domestic wastes may be used for domestic biogas production. The utilization of biogas may be enhanced by mixing it to a gas engine fuel for domestic cogeneration or trigeneration. The hybrid system will be applied to a social dwelling complex in Giresun University with scientific and technological inputs and collaboration from Baskent University.

## **Bilkent University**

Organisation Name		
Country	Turkey	
City	Ankara	
Street	Ankara	
Website		
Phone		
Organisation Type	University	

Person	
Name	Nihan YILMAZ
Email	nihaneryilmaz@bilkent.edu.tr
Job Position	ТТО

#### **Organisation Details**

Bilkent University was founded in 1984 to provide an environment for learning and intellectual growth encompassing sciences, technology, humanities and arts, to serve human welfare and to foster peace on earth. The educational philosophy rests on the premise that those who produce new knowledge also have the best potential to impart it. Scholarly research at Bilkent extends across a wide spectrum. From nanoscience and nanotechnology to political science, from electronics to economics, from fine arts to management and industrial engineering, from philosophy to computer engineering, and in many other areas of science, letters and the performing arts, our academic staff and resources provide a uniquely integrated environment.

Bilkent University is one of the most well-known and prestigious universities in Turkey, especially in the fields of science, engineering, molecular biology and genetics. Students accepted for departments at Bilkent predominantly rank in the top 1st percentile by the nation-wide university entrance exam. The medium of instruction in the university is English for both undergraduate and graduate programs. Bilkent University has been ranked 28th in the 2015 Times Higher Education 100 Under 50 list of the world's best "young" universities (For the full list of the 2015 Times Higher Education 100 Under 50 :www.timeshighereducation.co.uk/world-university-rankings/).

Members of Bilkent University have managed and/or coordinated 99 EU Projects, including 8 H2020 Projects, so far. Currently they are carrying out 229 projects, 66 of which are international, including 5 ERC Grants.

#### Areas of Activity

#### SPIRE-Circular Economy Session

- SPIRE-07-2017 Integrated approach to process optimisation for raw material resources efficiency, excluding recovery technologies of waste streams
- SPIRE-08-2017 Carbon dioxide utilisation to produce added value chemicals
- SPIRE-09-2017 Pilot lines based on more flexible and down-scaled high performance processing
- SPIRE-10-2017 New electrochemical solutions for industrial processing, which contribute to a reduction of carbon dioxide emissions
- SPIRE-11-2017 Support for the enhancement of the impact of SPIRE PPP projects
- SPIRE-12-2017 Assessment of standardisation needs and ways to overcome regulatory bottlenecks in the process industry
- CIRC-01-2017 Systemic, eco-innovative approaches for the circular economy large-scale demonstration projects

## Smart and Sustainable Cities and Energy Efficient Buildings

- EEB-05-2017 Development of near zero energy building renovation
- EEB-06-2017 Highly efficient hybrid storage solutions for power and heat in residential buildings and district areas, balancing the supply and demand conditions
- EEB-07-2017 Integration of energy harvesting at building and district level
- EEB-08-2017 New business models for energy-efficient buildings through adaptable refurbishment solutions
- EE-12-2017 Integration of Demand Response in Energy Management Systems while ensuring interoperability through Public Private Partnership
- SCC-1-2016-2017 Smart Cities and Communities lighthouse projects
- SCC-02-2016-2017 Demonstrating innovative na-

- CIRC-02-2017 Water in the context of the circular economy
- EE-17-2016-2017 Valorisation of waste heat in industrial systems
- SPIRE-13-2017 Potential of Industrial Symbiosis in Europe

#### Factories of the Future

- FOF-06-2017 New product functionalities through advanced surface manufacturing processes for mass production
- FOF-07-2017 Integration of unconventional technologies for multi-material processing into manufacturing systems
- FOF-08-2017 In-line measurement and control for micro-/nano-enabled high-volume manufacturing for enhanced reliability
- FOF-09-2017 Novel design and predictive maintenance technologies for increased operating life of production systems
- FOF-10-2017 New technologies and life cycle management for reconfigurable and reusable customised products
- FOF-12-2017 ICT Innovation for Manufacturing SMEs

ture-based solutions in cities

- SC5-08-2017 Large-scale demonstrators on nature-based solutions for hydro-meteorological risk reduction
- SC5-21-2017: Cultural heritage as a driver for sustainable growth (Heritage-led rural regeneration)

#### The European Green Vehicles Initiative

- GV-01-2017 Optimisation of heavy duty vehicles for alternative fuels use
- GV-04-2017 Next generation electric drivetrains for fully electric vehicles, focusing on high efficiency and low cost
- GV-05-2017 Electric vehicle user-centric design for optimised energy efficiency
- GV-06-2017 Physical integration of hybrid and electric vehicle batteries at pack level aiming at increased energy density and efficiency
- GV-07-2017 Multi-level modelling and testing of electric vehicles and their components
- GV-08-2017 Electrified urban commercial vehicles integration with fast charging infrastructure
- GV-09-2017 Aerodynamic and flexible trucks
- GV-10-2017 Demonstration (pilots) for integration of electrified L-category vehicles in the urban transport system
- GV-13-2017 Production of next generation battery cells in Europe for transport applications

## Bogazici University

#### **Organisation Name**

Country	Turkey
City	Istanbul
Street	Bebek
Website	Saritepe.boun.edu.tr
Phone	
Organisation Type	University



#### Person

NameEmre OtayEmailotay@boun.edu.trJob PositionBoğaziçi University Kilyos<br/>Campus Coordinator

#### **Organisation Details**

r&d and education in energy efficient buildings, renewable energy

#### Areas of Activity

#### SPIRE-Circular Economy Session

- CIRC-01-2017 Systemic, eco-innovative approaches for the circular economy large-scale demonstration projects
- CIRC-02-2017 Water in the context of the circular economy
- EE-17-2016-2017 Valorisation of waste heat in industrial systems

## Smart and Sustainable Cities and Energy Efficient Buildings

- EEB-05-2017 Development of near zero energy building renovation
- EEB-06-2017 Highly efficient hybrid storage solutions for power and heat in residential buildings and district areas, balancing the supply and demand conditions
- EEB-07-2017 Integration of energy harvesting at building and district level
- EEB-08-2017 New business models for energy-efficient buildings through adaptable refurbishment solutions
- EE-12-2017 Integration of Demand Response in Energy Management Systems while ensuring interoperability through Public Private Partnership
- SCC-1-2016-2017 Smart Cities and Communities lighthouse projects

#### The European Green Vehicles Initiative

- GV-01-2017 Optimisation of heavy duty vehicles for alternative fuels use
- GV-04-2017 Next generation electric drivetrains for fully electric vehicles, focusing on high efficiency and low cost
- GV-05-2017 Electric vehicle user-centric design for optimised energy efficiency
- GV-06-2017 Physical integration of hybrid and electric vehicle batteries at pack level aiming at increased energy density and efficiency
- GV-07-2017 Multi-level modelling and testing of electric vehicles and their components
- GV-08-2017 Electrified urban commercial vehicles integration with fast charging infrastructure
- GV-09-2017 Aerodynamic and flexible trucks
- GV-10-2017 Demonstration (pilots) for integration of electrified L-category vehicles in the urban transport system

- SCC-02-2016-2017 Demonstrating innovative nature-based solutions in cities
- SC5-08-2017 Large-scale demonstrators on nature-based solutions for hydro-meteorological risk reduction

## Bogazici University

#### Organisation Name

Country	Turkey
City	Istanbul
Street	Insaat Muhendisligi Bolumu
Website	http://www.boun.edu.tr/
Phone	
Organisation Type	University

Person	
Name	Semra Çomu
Email	semra.comu@boun.edu.tr
Job Position	Faculty Member

#### **Organisation Details**

http://www.boun.edu.tr/en-US/Content/About\_BU/Vision\_Mission

п

#### Vision

Bogazici University's vision is achieving international excellence in education and research and becoming a "green", sustainable university.

The main tenets of our vision are:

- Reinforcing our capability in undergraduate education and reaching a similar level in graduate education.
- Increasing our competitiveness in academic research and joining the best research universities in the world.
- Developing a "green" and sustainable campus.

#### Mission

The mission of our university is:

1. Educating individuals who endorse our institutional values, who respect ethical standards, who are environmentally conscious, who can think critically and who, with their academic and cultural formation and self confidence, are versatile, creative and capable of being successfully employed in academic institutions and in public or private sectors.

2. Generating universal knowledge and contributing to critical thinking, science and technology while serving humanity

3. Expanding the scientific horizons in Turkey and contributing to the insitutionalization of science, art and culture in our society."

#### **Areas of Activity**

#### Smart and Sustainable Cities and Energy Efficient Buildings

- EEB-05-2017 Development of near zero energy building renovation
- EEB-07-2017 Integration of energy harvesting at building and district level
- EEB-08-2017 New business models for energy-efficient buildings through adaptable refurbishment solutions
- EE-12-2017 Integration of Demand Response in Energy Management Systems while ensuring interoperability through Public Private Partnership

• SCC-02-2016-2017 Demonstrating innovative nature-based solutions in cities

## Bor Software A.S.

Organisation	Name
--------------	------

Country	Turkey
City	Ankara
Street	Beytepe
Website	www.boryazilim.com
Phone	
Organisation Type	SME

Özgür Devrim Orman
ozguro@boryazilim.com
R&D Director



#### **Organisation Details**

Bor software has four different areas of expertise. Those areas are enterprise mobility management, Internet video middleware development, GIS based software solutions and enterprise E-Government and portal solutions. Bor has finished about a dozen projects related to those areas both at domestic and global market since its establishment at 2007. Bor Software has been working on R&D projects funded by various Turkish ministries. Bor has finished an R&D project named on Mobile Application Development Platform, and "Content Based Internet Video Management Platform", also Bor has been working for 5 other on-going R&D projects where 3 of them are labelled at ITEA2's several calls. Even though Bor is a small enterprise; to deal with R&D projects is a mandatory duty according to its establishment agreement and Bor has been dedicating at least %50 percent of its human resources to R&D projects for five years.

#### **Areas of Activity**

## Smart and Sustainable Cities and Energy Efficient Buildings

 EEB-08-2017 New business models for energy-efficient buildings through adaptable refurbishment solutions

## Bozankaya Otomotiv A.S.

Organisation Name		
Country	Turkey	
City	Ankara	
Street	SOB Ankara	<b>3</b> bozankaya <sup>®</sup>
Website		<i>x</i>
Phone		
<b>Organisation Type</b>	Company	
Person		
Name	Emrah DAL	ULUSLARARASI
Email	emrahdal@bozankaya.com	TROLE US SISTEMLERU, STA
Job Position	Electric Vehicles Project Co-	SISTERILICA CAR
	ordinator	

#### **Organisation Details**

Beginning 1989 in Germany, "Bozankaya Engineering" has been a solution collaborator of many brands and the essential partner of "Bozankaya Automotive" in Turkey since 2003. Currently, we are moving towards our goal of being a global vehicle manufacturer.

The most powerful strength of our corporate group, conducting its activities both in Europe and Turkey, is its expertise in fixture and molding technology, which are critical qualifications for manufacturing buses and rail system vehicles.

A keen sense of quality and discipline, improved by co operations with companies, using state of the art technology combined with cutting edge engineering, have allowed Bozankaya to achieve success without compromise. Another feature, which distinguishes Bozankaya Group, is the fact that it embodies all required cycles for the vehicle manufacturing within the structure of the group.

Bozankaya, with its expert research and development staff, has realized a bus, which is a 100 % unique design. Karat, a super low-floored public bus, transports the highest number of passengers and is also the lightest bus in its class. It was first introduced at Busworld Turkey 2012. Currently, Karat has versions with 10.7 m and 12.0 m with diesel engine and 12.0 m CNG.

Bozankaya A.S. manufactures chassis for the world's leading manufacturers of mass transportation vehicles in its facility with 32.000 m2 indoor area established in Ankara.

Bozankaya, manufactures stainless steel and aluminum tram bodies and their subcomponents for the world's leading rail system manufacturers in Turkey and Europe. Moreover, Bozankaya is participating in critical phases of domestic tram production projects, in order to facilitate developing rail system investment and production in Turkey.

#### Areas of Activity

#### The European Green Vehicles Initiative

- GV-04-2017 Next generation electric drivetrains for fully electric vehicles, focusing on high efficiency and low cost
- GV-05-2017 Electric vehicle user-centric design for optimised energy efficiency
- GV-06-2017 Physical integration of hybrid and electric vehicle batteries at pack level aiming at increased energy density and efficiency
- GV-07-2017 Multi-level modelling and testing of electric vehicles and their components
- GV-08-2017 Electrified urban commercial vehicles integration with fast charging infrastructure

• GV-10-2017 Demonstration (pilots) for integration of electrified L-category vehicles in the urban transport system

## Corvus Bilişim

Organisation Name	
Country	Turkey
City	Izmir
Street	IYTE kampüsü Innovasyon binasi
Website	www.corvusbilisim.com
Phone	
Organisation Type	SME

Person		
Name	Tolga Akmazoğlu	
Email	t.akmazoglu@corvusbilisim.com	
Job Position	Co-founder	

#### **Organisation Details**

With a 20 years of IT industry experience in creating new solutions to business needs using the enterprise service awareness and experience of Turkey was Corvus was founded with the aim of being one of the leading IT and consulting companies.

#### Areas of Activity

#### Factories of the Future

• FOF-12-2017 ICT Innovation for Manufacturing SMEs

## Smart and Sustainable Cities and Energy Efficient Buildings

- EEB-08-2017 New business models for energyefficient buildings through adaptable refurbishment solutions
- EE-12-2017 Integration of Demand Response in Energy Management Systems while ensuring interoperability through Public Private Partnership

#### **Cooperation Profiles**

#### Corvus Bilisim

## **DATARAPHIC Information Technologies**

#### Organisation Name

Country	Turkey
City	Ankara
Street	Cevizlidere Mah. 1244. Sok. no 12/7
Website	http://dataraphic.com
Phone	
Organisation Type	SME



Person		
Name	Burcu Bayar Kuzlak	
Email	bkuzlak@dataraphic.com	
Job Position	Head of R&D	

#### **Organisation Details**

Dataraphic is a SME that is supported by The Scientific and Technological Research Council of Turkey and started operating in R&D and technology transfer activities. Dataraphic's business strategy is linked to company's effort in data mining, cloud management, energy efficiency, big data analytics, recommendation engine, smart city's and sustainability.

Dataraphic delivers innovative solutions for companies to connect people with knowledge and understand how to manage big data. Our mission is based on focus on the international market in collaboration with international partners where we can develop products that makes gives innovative solutions for understanding and managing people behavior. Dataraphic focuses on an innovative world by sharing expertise and services with partners in European countries, public organizations, Universities and SMEs will increase our innovative knowledge for a smarter world.

#### Areas of Activity

#### Factories of the Future

- FOF-10-2017 New technologies and life cycle management for reconfigurable and reusable customised products
- FOF-12-2017 ICT Innovation for Manufacturing SMEs

#### Smart and Sustainable Cities and Energy Efficient Buildings

- EEB-05-2017 Development of near zero energy building renovation
- EEB-06-2017 Highly efficient hybrid storage solutions for power and heat in residential buildings and district areas, balancing the supply and demand conditions
- EEB-07-2017 Integration of energy harvesting at building and district level
- EEB-08-2017 New business models for energy-efficient buildings through adaptable refurbishment solutions
- EE-12-2017 Integration of Demand Response in Energy Management Systems while ensuring interoperability through Public Private Partnership
- SCC-1-2016-2017 Smart Cities and Communities lighthouse projects
- SCC-02-2016-2017 Demonstrating innovative nature-based solutions in cities

#### **Cooperation Profiles**

#### **Partner:** Expertise in algorithms tools for Smart Energy Management and Predictive Analytics

Semantic Energy Information Framework: Dataraphic's main role is to develop the platform to integrate data from multiple sources, scales and domains with the purpose of improving the decision making process of the users involved in the planning of energy efficient urban areas. A semantic energy information framework has been developed to integrate the data and to assure their interoperability with a variety of visualization, simulation and analysis tools. Sensor data and User behaviour Dataraphic develops a tool that will characterize the effects of the building's users on its energy performance relying on available data to classify them in established user profiles. The triggers that may produce a change on the user behaviour will be studied for each profile. This will enable also to provide them with real-time efficient recommendations during the operation of the building. http://dataraphic.com

anbul.

## debuIST architecture

#### **Organisation Name**

Country	Turkey
City	IStanbul
Street	Atasehir
Website	www.berilalpagut.com
Phone	
Organisation Type	SME

Name Beril Alpagut	
Email berilalpagut@gm	I.com
Job Position Architect	

#### **Organisation Details**

debuIST architecture is a design startup company established in 2016 by an enthusiastic spirit in architectural design and consultancy. It is founded by Beril Alpagut after 8 years of international experience in architectural design, on building technology, energy efficiency, urban design and refurbishment of historical buildings.

The company plans to play an inter-role between public and private projects funded by local stakeholders, EU commission or United Nations.

#### **Areas of Activity**

## Smart and Sustainable Cities and Energy Efficient Buildings

- EEB-05-2017 Development of near zero energy building renovation
- EEB-07-2017 Integration of energy harvesting at building and district level
- EEB-08-2017 New business models for energy-efficient buildings through adaptable refurbishment solutions
- SCC-02-2016-2017 Demonstrating innovative nature-based solutions in cities
- SC5-21-2017: Cultural heritage as a driver for sustainable growth (Heritage-led rural regeneration)

#### **Cooperation Profiles**

#### Partner: Energy Efficient Buildings

## Demir Enerji

Organisation Name	
Country	Turkey
City	İstanbul
Street	Tophanelioğlu Cd. Murat Sitesi
Website	
Phone	
<b>Organisation Type</b>	SME

Person	
Name	Kaan Emir
Email	kemir@demirenerji.com
Job Position	Specialist

#### **Organisation Details**

Demir Enerji has track records in the field of sustainable energy, energy policy, carbon management and urban sustainability. Demir Enerji participated in numerous projects in the development of Sustainable Energy Action Plan for Municipalities such as İzmir Metropolitan, Bursa Metropolitan, Antalya Metropolitan, Bornova (İzmir), Seferihisar (İzmir), Tepebaşı (Eskişehir), Maltepe (İstanbul) Municipalities, some of them supported by the local Development Agencies. The projects entailed in depth analysis of urban development dynamics and prospects, taking account of urban migration, demographic and economic developments as well as changes in administrative responsibilities. Development of action plans in EE in the built environment, low carbon urban transport, local generation and supply of RE resources, waste and water management. In addition, overall integration of energy planning with urban built environment planning for low carbon futures, training and awareness raising activities for the local government, preparing a guideline to calculate GHG emissions in accordance with international standards (ICLEI, etc.). Working experience with local governments let Demir Enerji to develop and participate EC funded Smart City projects. Demir Enerji became Turkish Demo site leader of ongoing **CITyFiED**project which aims to develop a replicable, systemic and integrated strategy to adapt European cities and urban ecosystems into the smart city of the future, focusing on reducing the energy demand and GHG emissions and increasing the use of renewable energy sources. Later, Demir Enerji was participated the development of lighthouse project called REMOURBAN which became one of the first demonstration project of Horizon 2020, started at the beginning of 2015. REMOURBAN aims the development and validation in three lighthouse cities of a sustainable urban regeneration model that leverages the convergence area of the energy, mobility and ICT sectors in order to accelerate the deployment of innovative technologies, organizational and economic solutions to significantly increase resource and energy efficiency and drastically reduce greenhouse gas emissions.

#### Areas of Activity

## Smart and Sustainable Cities and Energy Efficient Buildings

- EEB-05-2017 Development of near zero energy building renovation
- SCC-1-2016-2017 Smart Cities and Communities lighthouse projects
- SCC-02-2016-2017 Demonstrating innovative nature-based solutions in cities
- SC5-08-2017 Large-scale demonstrators on nature-based solutions for hydro-meteorological risk reduction
- SC5-21-2017: Cultural heritage as a driver for sustainable growth (Heritage-led rural regeneration)

#### **Cooperation Profiles**

### Partner: Smart Cities

Coordination experience in EU projects

## Demir Enerji Danışmanlık

Organisation Name	
Country	Turkey
City	Istanbul
Street	Tophanelioğlu Cad. Murat Sitesi
Website	
Phone	
Organisation Type	SME

Person	
Name	Caner Demir
Email	cdemir@demirenerji.com
Job Position	Managing Consultant

#### **Organisation Details**

Demir Enerji has track records in the field of sustainable energy, energy policy, carbon management and urban sustainability. Demir Enerji participated in numerous projects in the development of Sustainable Energy Action Plan for Municipalities such as İzmir Metropolitan, Bursa Metropolitan, Antalya Metropolitan, Bornova (İzmir), Seferihisar (İzmir), Tepebaşı (Eskişehir), Maltepe (İstanbul) Municipalities, some of them supported by the local Development Agencies. The projects entailed in depth analysis of urban development dynamics and prospects, taking account of urban migration, demographic and economic developments as well as changes in administrative responsibilities. Development of action plans in EE in the built environment, low carbon urban transport, local generation and supply of RE resources, waste and water management. In addition, overall integration of energy planning with urban built environment planning for low carbon futures, training and awareness raising activities for the local government, preparing a guideline to calculate GHG emissions in accordance with international standards (ICLEI, etc.). Working experience with local governments let Demir Enerji to develop and participate EC funded Smart City projects. Demir Enerji became Turkish Demo site leader of ongoing CITyFIED project which aims to develop a replicable, systemic and integrated strategy to adapt European cities and urban ecosystems into the smart city of the future, focusing on reducing the energy demand and GHG emissions and increasing the use of renewable energy sources. Later, Demir Enerji was participated the development of lighthouse project called REMOURBAN which became one of the first demonstration project of Horizon 2020, started at the beginning of 2015. REMOURBAN aims the development and validation in three lighthouse cities of a sustainable urban regeneration model that leverages the convergence area of the energy, mobility and ICT sectors in order to accelerate the deployment of innovative technologies, organizational and economic solutions to significantly increase resource and energy efficiency and drastically reduce greenhouse gas emissions.

#### Areas of Activity

## Smart and Sustainable Cities and Energy Efficient Buildings

- EEB-05-2017 Development of near zero energy building renovation
- EEB-07-2017 Integration of energy harvesting at building and district level
- EEB-08-2017 New business models for energy-efficient buildings through adaptable refurbishment solutions
- EE-12-2017 Integration of Demand Response in Energy Management Systems while ensuring interoperability through Public Private Partnership
- SCC-1-2016-2017 Smart Cities and Communities lighthouse projects
- SCC-02-2016-2017 Demonstrating innovative na-

ture-based solutions in cities

- SC5-08-2017 Large-scale demonstrators on nature-based solutions for hydro-meteorological risk reduction
- SC5-21-2017: Cultural heritage as a driver for sustainable growth (Heritage-led rural regeneration)

#### **Cooperation Profiles**

#### Partner: Smart Cities and Energy Efficient Buildings

Experience in coordination of EU Projects. Looking for partners for EEB and SCC calls

## Demir Enerji Danışmanlık

#### **Organisation Name**

Country	Turkey
City	Istanbul
Street	Tophanelioğlu Cad.
Website	www.demirenerji.com.tr
Phone	
Organisation Type	SME



Person	
Name	Esra Demir
Email	edemir@demirenerji.com
Job Position	Managing Consultant



#### **Organisation Details**

Demir Enerji has track records in the field of sustainable energy, energy policy, carbon management and urban sustainability. Demir Enerji participated in numerous projects in the development of Sustainable Energy Action Plan for Municipalities such as İzmir Metropolitan, Bursa Metropolitan, Antalya Metropolitan, Bornova (İzmir), Seferihisar (İzmir), Tepebaşı (Eskişehir), Maltepe (İstanbul) Municipalities, some of them supported by the local Development Agencies. The projects entailed in depth analysis of urban development dynamics and prospects, taking account of urban migration, demographic and economic developments as well as changes in administrative responsibilities. Development of action plans in EE in the built environment, low carbon urban transport, local generation and supply of RE resources, waste and water management. In addition, overall integration of energy planning with urban built environment planning for low carbon futures, training and awareness raising activities for the local government, preparing a guideline to calculate GHG emissions in accordance with international standards (ICLEI, etc.). Working experience with local governments let Demir Enerji to develop and participate EC funded Smart City projects. Demir Enerji became Turkish Demo site leader of ongoing CITyFIED project which aims to develop a replicable, systemic and integrated strategy to adapt European cities and urban ecosystems into the smart city of the future, focusing on reducing the energy demand and GHG emissions and increasing the use of renewable energy sources. Later, Demir Enerji was participated the development of lighthouse project called REMOURBAN which became one of the first demonstration project of Horizon 2020, started at the beginning of 2015. **REMOURBAN** aims the development and validation in three lighthouse cities of a sustainable urban regeneration model that leverages the convergence area of the energy, mobility and ICT sectors in order to accelerate the deployment of innovative technologies, organizational and economic solutions to significantly increase resource and energy efficiency and drastically reduce greenhouse gas emissions.

#### Areas of Activity

## Smart and Sustainable Cities and Energy Efficient Buildings

- EEB-05-2017 Development of near zero energy building renovation
- SCC-1-2016-2017 Smart Cities and Communities lighthouse projects
- SCC-02-2016-2017 Demonstrating innovative nature-based solutions in cities
- SC5-21-2017: Cultural heritage as a driver for sustainable growth (Heritage-led rural regeneration)

#### **Cooperation Profiles**

#### Partner: Smart Cities and Energy Efficient Buildings

Experience in coordination of EU Projects. Looking for partners for EEB and SCC calls

## Dermoda Deri Tekstil Konf.Araş.Danışmanlık Tic.Ltd.Şti.San

Organisation Name

Country	Turkey
City	Çanakkale
Street	Center
Website	www.dermodaderi.com
Phone	
Organisation Type	SME

Person	
Name	SEVDA KÖKSAL DABAN
Email	sevdakoksal@dermodaderi.com
Job Position	Project Manager

#### **Organisation Details**

Dermoda Deri Tekstil Konf.Araş.Geliş.Dan.Tic.Ltd.Şti.San. was established with Techno-enterprise Capital Support Republic of Turkey Ministry of Science, Industry and Technology in 2014.

#### **Areas of Activity**

#### **SPIRE-Circular Economy Session**

- CIRC-01-2017 Systemic, eco-innovative approaches for the circular economy large-scale demonstration projects
- CIRC-02-2017 Water in the context of the circular economy
- EE-17-2016-2017 Valorisation of waste heat in industrial systems

#### **Factories of the Future**

- FOF-10-2017 New technologies and life cycle management for reconfigurable and reusable customised products
- FOF-12-2017 ICT Innovation for Manufacturing SMEs

## Eczacıbaşı Building Products Division Innovation Center

Organisation Name	
Country	Turkey
City	Bilecik
Street	Eskişehir Karayolu Üzeri 4. km
Website	
Phone	
Organisation Type	Company
Person	
Name	Emre İ. Talşık
Email	emre.talsik@eczacibasi.com.tr
Job Position	R&D Technology Manager

#### **Organisation Details**

#### ABOUT US

**Eczacibaşı Group:** Founded in 1942, Eczacıbaşı is a prominent Turkish industrial group with 41 companies, 12,450 employees and a combined net turnover of TL 7,4 billion in 2014. Eczacibasi's core sectors are building products, healthcare and consumer products. Additionally, the Group is active in finance, information technology, welding technology, mining, and property development and facility management.

**Eczacibaşi Building Products Division:** Building products division is the largest division in terms of work force and turnover. Eczacibasi Building Products Group carries out its production activities in 15 plants in 4 countries. The main production plant is the Group's production campus in Bilecik-Bozuyuk which utilizes environment-friendly technologies, ranking among the top ceramic manufacturing plants in the world in terms of capacity, technology and quality. The Group has 6 plants in Turkey located in Bozuyuk (Bilecik), Gebze (İzmit) and Tuzla (Istanbul) and 9 plants in Germany, France and Russia. The annual production capacity of the Group includes 5 million units of ceramic sanitary ware, 37.5 million m2 of ceramic coating material, 3 million fixtures, 350 thousand bath tubs and shower trays and 340 thousand modules of bathroom furniture. Eczacibasi Building Products Group has around 6,500 employees; around a quarter of these is based abroad and had a turnover of 975 million Euros in 2012. VitrA, Burgbad, Villeroy and Boch and Engers are the main brands of the group.

**VitrA Innovation Center:** VitrA, which develops products in a wide range of fields including ceramic bathroom products, fixtures, coating materials, bath tubs and relevant accessories, aims to create a holistic bathroom. So R&D and design have priority and production skills are developed further through innovation. Eczacibasi Building Products Group's VitrA Innovation Center was set up in 2011 with an investment of 15 million TL at the Bilecik Bozuyuk production campus and gathers all of the R&D teams of the Group under the same roof, all committed to innovation as a corporate value. The center prioritizes market and technology-focused innovation efforts and carries out research, design, development and production activities in new bathroom and tile materials, processes and technologies. Areas such as nanotechnology, electronics, water and energy, sensor technology, acoustics, ergonomics andcomposite materials are explored in the center. Providing a suitable platform where architects and designers unleash their creativity and turn their "imagined" products into reality, the Center follows developments in the world and internal initiatives in order to develop and enrich innovative ideas.

#### **Areas of Activity**

Factories of the Future

FOF-06-2017 New product functionalities through

Smart and Sustainable Cities and Energy Efficient Buildings

- FOF-07-2017 Integration of unconventional technologies for multi-material processing into manufacturing systems
- FOF-10-2017 New technologies and life cycle management for reconfigurable and reusable customised products
- SCC-1-2016-2017 Smart Cities and Communities lighthouse projects

## Eczacıbaşı Building Products Division Innovation Center

Organisation Name		
Country	Turkey	
City	Bilecik	
Street	Eskişehir Karayolu Üzeri 4. km	
Website		
Phone		
Organisation Type	Company	
Person		
Name	Betül Yıldız	
Email	betul.yildiz@eczacibasi.com.tr	

## **Organisation Details**

Engineer

#### **ABOUT US**

**Job Position** 

**Eczacibaşı Group:** Founded in 1942, Eczacıbaşı is a prominent Turkish industrial group with 41 companies, 12,450 employees and a combined net turnover of TL 7,4 billion in 2014. Eczacibasi's core sectors are building products, healthcare and consumer products. Additionally, the Group is active in finance, information technology, welding technology, mining, and property development and facility management.

**Eczacıbaşı Building Products Division:** Building products division is the largest division in terms of work force and turnover. Eczacibasi Building Products Group carries out its production activities in 15 plants in 4 countries. The main production plant is the Group's production campus in Bilecik-Bozuyuk which utilizes environment-friendly technologies, ranking among the top ceramic manufacturing plants in the world in terms of capacity, technology and quality. The Group has 6 plants in Turkey located in Bozuyuk (Bilecik), Gebze (İzmit) and Tuzla (Istanbul) and 9 plants in Germany, France and Russia. The annual production capacity of the Group includes 5 million units of ceramic sanitary ware, 37.5 million m2 of ceramic coating material, 3 million fixtures, 350 thousand bath tubs and shower trays and 340 thousand modules of bathroom furniture. Eczacibasi Building Products Group has around 6,500 employees; around a quarter of these is based abroad and had a turnover of 975 million Euros in 2012. VitrA, Burgbad, Villeroy and Boch and Engers are the main brands of the group.

**VitrA Innovation Center:** VitrA, which develops products in a wide range of fields including ceramic bathroom products, fixtures, coating materials, bath tubs and relevant accessories, aims to create a holistic bathroom. So R&D and design have priority and production skills are developed further through innovation. Eczacibasi Building Products Group's VitrA Innovation Center was set up in 2011 with an investment of 15 million TL at the Bilecik Bozuyuk production campus and gathers all of the R&D teams of the Group under the same roof, all committed to innovation as a corporate value. The center prioritizes market and technology-focused innovation efforts and carries out research, design, development and production activities in new bathroom and tile materials, processes and technologies. Areas such as nanotechnology, electronics, water and energy, sensor technology, acoustics, ergonomics andcomposite materials are explored in the center. Providing a suitable platform where architects and designers unleash their creativity and turn their "imagined" products into reality, the Center follows developments in the world and internal initiatives in order to develop and enrich innovative ideas.

#### **Areas of Activity**

#### **Factories of the Future**

• FOF-06-2017 New product functionalities through

Smart and Sustainable Cities and Energy Efficient Buildings

advanced surface manufacturing processes for mass production

- FOF-07-2017 Integration of unconventional technologies for multi-material processing into manufacturing systems
- FOF-10-2017 New technologies and life cycle management for reconfigurable and reusable customised products
- EEB-08-2017 New business models for energyefficient buildings through adaptable refurbishment solutions
- SCC-1-2016-2017 Smart Cities and Communities lighthouse projects

R

## EGE UNIVERSITY

Organisation Name		
Country	Turkey	
City	Izmir	
Street	Ege University, Department of Civil Engineering, Bornova	
Website		
Phone		
Organisation Type	University	
Person		
Name	GULBEN CALIS	99
Email	gulbencalis@gmail.com	$\Rightarrow$
Job Position	Assistant Professor	

#### **Organisation Details**

Ege University (EGE) is a state university that acts as a focal point for education, research, cultural and social activities in the city of Izmir and the Aegean region. Ege University was established in 1955. Today, Ege University, which is aware of the responsibility of being the first university in the Region, pioneers the cooperation platforms of Izmir and Regional Universities in different areas. Ege University is a research based, teaching oriented institution, training students up to Doctorate level. A total of 55,000 students are enrolled at Ege University in the 2012-2013 academic year, the number of the academic staff is approximately 3,000. Today, Ege University has 13 Faculties, 3 Graduate Schools, 6 four-year Schools, 5 Institutes, 7 two-year Vocational Training Schools and 27 Research and Application Centers.

#### **Areas of Activity**

## Smart and Sustainable Cities and Energy Efficient Buildings

- EEB-05-2017 Development of near zero energy building renovation
- EEB-08-2017 New business models for energy-efficient buildings through adaptable refurbishment solutions
- SCC-1-2016-2017 Smart Cities and Communities lighthouse projects
- SCC-02-2016-2017 Demonstrating innovative nature-based solutions in cities

#### **Cooperation Profiles**

#### Partner: Behavior modeling

Occupant behavior modeling; Partner of Horizon 2020 project-HIT2GAP -Understanding motivation, perception and behavior of occupants with respect to their profiles (ongoing research: understanding their behavior as a group/district level/ cultural effect etc.) -Developing models to mimic occupants and energy consuming loads (such as appliances, HVAC system) for generating human and operation negotiation for energy savings) -Enabling human-building interaction and situational awareness via developing systematic processes to deliver context aware, personalized and timely information to occupants -Developing dynamic, spontaneous and informal ways which will enable occupants to actively participate in reducing energy consumption by changing their behaviors -Developing methodologies to validate the effectiveness of the solutions

## Ege University

#### **Organisation Name**

Country	Turkey
City	Izmir
Street	Ege University
Website	www.ege.edu.tr
Phone	
Organisation Type	University



# PersonNameEngin NurluEmailengin.nurlu@ege.edu.trJob PositionAcademician

#### **Organisation Details**

Ege University is a state university that acts as a focal point for education, research, cultural and social activities in the city of Izmir and the Aegean Region, Turkey. Since, Ege University was founded as an international research university in 1955, it has been one of the leading universities in Turkey on the basis of conducted international research projects. It has actively took part in and managed many COST, Eureka, NATO, NSF, UN, World Bank, Jean Monnet, IN-CO, EUMEDIS, 6th and 7thFramework, Erasmus Mundus ECW, Leonardo and Socrates projects.

#### Areas of Activity

## Smart and Sustainable Cities and Energy Efficient Buildings

- SCC-02-2016-2017 Demonstrating innovative nature-based solutions in cities
- SC5-21-2017: Cultural heritage as a driver for sustainable growth (Heritage-led rural regeneration)

#### **Cooperation Profiles**

#### Partner: Cultural heritage in landscape planning

I took part in national and international projects as a representative/partner or coordinator of Turkey in COST, NATO-CCMS, FAO, Programme INTERREG III B and also British Council and Research Council United Kingdom (RCUK) projects funded by Katip Çelebi Newton Fund. The aim of my attendance of this workshop is to meet researchers on cultural and natural heritage in landscape. The objective of my current project -that I and Professor Sam Turner from Newcastle University, UK, are coordinators of TUBITAK-RCUK project funded by Katip Çelebi-Newton Fund- is to promote the value and sensitive use of landscape heritage to underpin sustainable social and economic development. The RCUK-TUBITAK Research Partnerships link directly with current work by academic staff from UK and Turkey on developing and demonstrating the use of GIS-based characterisation for historic landscape research, public participation and landscape planning in Turkey. The project enables us to strengthen and extend our research partnership and international collaborative networks in cultural heritage in landscape planning.

## EGE UNİVERSITY

#### **Organisation Name**

Country	Turkey
City	İZMİR
Street	Bornova
Website	
Phone	05323075150
Organisation Type	University

Person	
Name	TÜRKAN GÖKSAL ÖZBALTA
Email	tozbalta@gmail.com
Job Position	Prof. Dr. Lecturer

#### **Organisation Details**

State University

#### Areas of Activity

## Smart and Sustainable Cities and Energy Efficient Buildings

- EEB-05-2017 Development of near zero energy building renovation
- EEB-08-2017 New business models for energy-efficient buildings through adaptable refurbishment solutions
- SCC-1-2016-2017 Smart Cities and Communities lighthouse projects

#### **Cooperation Profiles**

#### **Partner:** PF/ EU - ee-wise Project: Energy Efficiency Knowledge Transfer Framework for Building Retroffiting in the Mediterranean Area

ee-WiSE will address the current problems of the Energy Efficiency (EE) Sector and promote the EE Market focusing on building retrofitting in the Mediterranean countries. In order to achieve this, ee-WiSE will develop a Knowledge Transfer Framework, for the agents of the sector's value chain, which will provide tools to solve knowledge transfer breakpoints. Agents will be connected in the Framework with best practices and recommendations that will promote the EE Market through the retrofitting sector enlargement under a common perspective.

#### **Partner:** HIT2GAP Highly Innovative building control Tools Tackling the energy performance GAP Call H2020-EeB-2015 New tools and methodologies to reduce the gap between predicted and actual energy performances at the level of buildings and blocks of buildings

## **Partner:** H2020 Project - 'Train-to-NZEB: The Building Knowledge Hubs — Train-to-NZEB' (Nearly Zero Energy Buildings)

- continuous exchange and knowledge sharing for innovative training approaches and solutions in the construction sector, - prepare curricula for specific trainings for acquiring of qualification on energy efficiency and use of renewable energy in buildings



## Ekodenge AŞ

Organisation Name		
Country	Turkey	-e- ekoder
City	Ankara	
Street	Hacettepe Teknokent No:18 1. ArGe Binası	
Website	www.ekodenge.com	
Phone		
<b>Organisation Type</b>	SME	

zge Yılmaz
ge.yilmaz@ekodenge.com
D Group Coordinator

#### **Organisation Details**

Ekodenge was founded in 1996 to provide consultancy and engineering services shaped around the vision of sustainability and related EU policy. Ekodenge concentrates on environmental technologies, information technologies, research and design of sustainable and energy efficient buildings, cities and industrial clusters, focusing on minimizing the environmental load of the studied domain with the holistic life cycle thinking. We develop solutions and decision support to promote circular economy through sustainability assessment and monitoring based on material and energy flows throughout entire value chains. We deliver convenient, innovative, cost-effective and applicable solutions in addition to environment- and nature-friendly applications thorugh research and development projects. Ekodenge is also experienced in software development for environment and energy related analytics, data mining, and artificial intelligence based forecasting in sustainable process industry and buildings. Integrating the academic and research oriented sustainability expertise; Ekodenge's interdisciplinary team of environmental, chemical, industrial, computer, mechanical, electrical sciences, civil engineers, planners and architects, with Masters and PhD degrees, also has EU and international project key expert references with project management skills, where some of them are certified energy and LCA consultants. We also develop web portals and software for environment and energy related analytics, data mining and artificial intelligence based forecasting and analyses, risk assessment and consequence modelling using GIS infrastructures and graph theory based analyses. Ekodenge is an experienced company in project coordination on international frameworks such as the CIP Eco Innovation, UNDP, WB and EUROPEAID Programmes. The company is working as WP leader or partner in various research projects and very active participant of FP7 and H2020.

#### Areas of Activity

#### SPIRE-Circular Economy Session

- SPIRE-07-2017 Integrated approach to process optimisation for raw material resources efficiency, excluding recovery technologies of waste streams
- CIRC-01-2017 Systemic, eco-innovative approaches for the circular economy large-scale demonstration projects
- CIRC-02-2017 Water in the context of the circular economy
- EE-17-2016-2017 Valorisation of waste heat in industrial systems
- SPIRE-13-2017 Potential of Industrial Symbiosis in Europe

#### Factories of the Future

• FOF-10-2017 New technologies and life cycle management for reconfigurable and reusable customised products

## Smart and Sustainable Cities and Energy Efficient Buildings

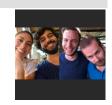
- EEB-05-2017 Development of near zero energy building renovation
- EEB-08-2017 New business models for energy-efficient buildings through adaptable refurbishment solutions
- EE-12-2017 Integration of Demand Response in Energy Management Systems while ensuring interoperability through Public Private Partnership
- SCC-1-2016-2017 Smart Cities and Communities lighthouse projects
- SCC-02-2016-2017 Demonstrating innovative nature-based solutions in cities

## **Ekomim Ecologic Architectural Services**

Orga	nicatio	n Name
Orga	insatio	i name

Country	Turkey	
City	Istanbul	ekom
Street	İstanbul Technical University Ayazaga Campus MED B23	CRUIT
Website	http://www.ekomim.com/	
Phone		
Organisation Type	Consulting	

Person	
Name	Ece Kalaycıoğlu
Email	ozdemirto@itu.edu.tr
Job Position	Architect



#### **Organisation Details**

Davaau

Ekomim Environmental Architectural Consulting Firm is a fully qualified R&D company located in ARI Teknokent Technology and Science Park, İstanbul Technical University, İstanbul, Turkey.

Ekomim gives consultancy about ecological-sustainable architecture, new and existing building energy performance analysis and nearly zero energy and cost efficient building design with the most competent experts in the country. It also provides services such as, but not limited to, determination of primary energy consumption, determination of CO2 emissions, development of carbon emission reduction strategies at building and settlement scale, socio-economic sustainability with feasibility and cost analysis of energy systems, building energy performance assessment and development of energy consumption reduction strategies, smart district energy systems, integration of renewable energy sources, whole building energy simulations within the scope of green building certifications, development of optimization scenarios for different energy systems, thermal-visual-acoustical comfort analysis, architectural acoustic design and detailed acoustic modeling, measuring and simulations of room acoustics and noise control, daylight modeling, material selection, etc.

The offered services focus on Green Building Services like Building Energy Modelling & Solar Simulation, Dynamic Thermal Modelling; Energy Assessment & Performance Study; Feasibility Study and Building Rating System (LEED/ BREEAM) Facilitation, etc.

Ekomim Ecologic Architectural Services is also strongly engaged in cooperative research with the belief of smart solutions need for systematic approach.

#### **Areas of Activity**

#### Smart and Sustainable Cities and Energy Efficient Buildings

- EEB-05-2017 Development of near zero energy building renovation
- EEB-06-2017 Highly efficient hybrid storage solutions for power and heat in residential buildings and district areas, balancing the supply and demand conditions
- EEB-07-2017 Integration of energy harvesting at building and district level
- EEB-08-2017 New business models for energy-efficient buildings through adaptable refurbishment solutions

- EE-12-2017 Integration of Demand Response in Energy Management Systems while ensuring interoperability through Public Private Partnership
- SCC-1-2016-2017 Smart Cities and Communities lighthouse projects
- SCC-02-2016-2017 Demonstrating innovative nature-based solutions in cities
- SC5-08-2017 Large-scale demonstrators on nature-based solutions for hydro-meteorological risk reduction
- SC5-21-2017: Cultural heritage as a driver for sustainable growth (Heritage-led rural regeneration)

#### **Cooperation Profiles**

#### Partner: Energy-Efficiency analysis, Energy saving cunsultancy, Sustainable development

The Ekomim group consists of engineers, architects, academic staff and postgraduate researchers with an experience of more than 35 years in sustainable building design. Ekomim has the opportunity to use the facilities of ARI Teknokent and also Istanbul Technical University by the means of experts in different areas, research laboratories and technical infrastructure. Ekomim was basically founded to develop the computation of the net-energy part of the national building energy certification system, BEP-TR. Since then Ekomim conducted and became a partner in many different research and development projects. Between 2013-2015, with TUBITAK's financial support, the "Determination of Turkish Reference Buildings and National Method for Defining Cost Optimum Energy Efficiency Level Of Buildings" project was completed and the reference buildings for residential buildings are described in detail for the first time in Turkey. In 2015, with cooperation of Turkish Ministry of Environment and Urbanization, R&D project titled as "Establishment of Ecological Settlements Standards for Turkey and Sample Settlement Design For Eskişehir Kocakır" was completed.

## ELDER-Association of Electricity Distribution System Operators

**Organisation Name** 

Country	Turkey
City	Ankara
Street	Eskisehir Yolu No:266 Tepe Prime
Website	www.elder.org.tr
Phone	
Organisation Type	Association/Agency

Person	
Name	istemi mavi
Email	istemi.mavi@elder.org.tr
Job Position	International Projects Coor- dinator

#### **Organisation Details**

ELDER is the association of electricity distribution system operators of Turkey; representing all 21 DSO. As an umbrella organization ELDER is treated as the sector representative of DSOs in the eye of the regulator and Ministry of Energy. (like euroelectric) The board of elder is established by the major shareholders of the DSOs therefore the decisions taken by the board have an power of implementation at DSO level.

Currently ELDER has 2 ongoing Horizon 2020 projects. Namely, Smarteremc2 (www.smarteremc2.eu) and peakapp (www.peakapp.eu)

Together with EMRA, Energy Market Regulatory Authority of Turkey (www.emra.org.tr) ELDER is preparing the smart grid road map of Turkey with the contribution of 21 DSO and AF Mercados as the consultant.

ELDER has an cooperation with USTDA for pilot project implementation of smart grid projects.

#### Areas of Activity

#### Factories of the Future

 FOF-12-2017 ICT Innovation for Manufacturing SMEs

#### Smart and Sustainable Cities and Energy Efficient Buildings

- EEB-08-2017 New business models for energy-efficient buildings through adaptable refurbishment solutions
- EE-12-2017 Integration of Demand Response in Energy Management Systems while ensuring interoperability through Public Private Partnership
- SCC-1-2016-2017 Smart Cities and Communities lighthouse projects
- SCC-02-2016-2017 Demonstrating innovative nature-based solutions in cities

## ELEKTRONET A.Ş.

#### **Organisation Name**

Country	Turkey
City	İSTANBUL
Street	Kayışdağı Cad. No:152 Ataşehir
Website	http://elektronet.com.tr/
Phone	
Organisation Type	SME



Person		
Name	Nusret Can YANYALI	
Email	cyanyali@elektronet.com.tr	<b>ELEBRICATION</b>
Job Position	Managing Director	

#### **Organisation Details**

ELEKTRONET has been providing end-to-end, turn-key technology solutions and products for the banking and finance industry, SMEs and state institutions with a 20 year experience in the information and communication technology sector. We provides 24/7 on/off site technical support, consultancy, design, engineering, manufacturing, sales and after sales support, installation, technical training and contract outsourcing services with its specialized and certified technical staff. ELEKTRONET has solutions and sevice through the inovative technology in 4 main categories: Banking & Finance, Smart City Solutions, Software Solutions, Service Level Agreement Solutions. All ICT based solution reveals some Smart City products including ATMs,Ticket Vending Machine, Smart Teller Machine, Self Service Kiosks, Dashboard and Platform Design Tools etc. The total integrated base for self-service kiosk technologies is estimated at 28.2 M TL budgeted unit in 2015 and annual growth rate is 3.7 % from 2010 to 2015. ELEKTRONET Inc. offers design and developement of system architecture, developement hardware services, management of big data collection, modelling of IoT based solution in Smart City Infrastracture.

#### **Areas of Activity**

#### Factories of the Future

- FOF-07-2017 Integration of unconventional technologies for multi-material processing into manufacturing systems
- FOF-10-2017 New technologies and life cycle management for reconfigurable and reusable customised products
- FOF-12-2017 ICT Innovation for Manufacturing SMEs

#### Smart and Sustainable Cities and Energy Efficient Buildings

- SCC-1-2016-2017 Smart Cities and Communities lighthouse projects
- SCC-02-2016-2017 Demonstrating innovative nature-based solutions in cities

#### **SPIRE-Circular Economy Session**

• CIRC-01-2017 Systemic, eco-innovative approaches for the circular economy large-scale demonstration projects

#### The European Green Vehicles Initiative

• GV-06-2017 Physical integration of hybrid and electric vehicle batteries at pack level aiming at increased energy density and efficiency

#### **Cooperation Profiles**

## **Partner:** Smart City, Smart Transportation, IoT, Finance, Software, Industry 4.0, Ticketing Systems

Elektronet with over 20 years of experience in the Information and Communication industry, has actually been expanding its scope of technology from financial solutions to the digital infrastructure. Elektronet's approach on smart city solutions with the implementation and integration of emerging technologies in which aims to operate with a 'continous improvement approach' in order to address the requirements and challenges of "Smart" Industry domains. Elektronet works with small, medium and large enterprises across various industries along with government institutions in order to design, develop, implement, and manage specialized projects, based on multi level technology solutions. Elektronet enables to provide customer oriented technological solutions and services at multiple levels that appeals to a wide range of corporate customers. Elektronet's digital infrastructure systems and services have an objection to provide guidance on the integration of smart industries (finance, telecommunications, transportation, security, energy and healthcare) with an end-to-end and turnkey implementation of innovative technology solutions. As Elektronet, we would like to participate and cooperate in the areas of hardware design and development along with software development for the smart industry.

## Eliar Elektronik San. A.S

#### **Organisation Name**

Country	Turkey	
City	İstanbul	
Street	Levazım	
Website	www.eliar.com.tr	
Phone		
Organisation Type	Company	

Person	
Name	Devrim Dilbaz
Email	devrim.dilbaz@eliar.com.tr
Job Position	Coordinator

#### **Organisation Details**

Eliar Elektronik San A.Ş. was founded in 1984 in Istanbul.

Eliar's history reflects its broad capabilities in and focus on research and development. Eliar's R&D efforts have contributed to many industries including but not limited to Textiles, Glass, Insulation, Ceramics and Chemicals in form of many innovative devices, systems and software solutions. It has been a close partner to many industries and has led them through their journey toward automation.

## Eliar Elektronik San. A.Ş.

#### **Organisation Name**

Country	Turkey
City	istanbul
Street	Besiktas
Website	eliar.com.tr
Phone	
<b>Organisation</b> Type	Company

Person	
Name	İbrahim Muhsin Tataroğlu
Email	ibrahim.tataroglu@eliar.com.tr
Job Position	After Sales Responsible

#### **Organisation Details**

Eliar Elektronik San A.Ş. was founded in 1984 in Istanbul.

Eliar's history reflects its broad capabilities in and focus on research and development. Eliar's R&D efforts have contributed to many industries including but not limited to Textiles, Glass, Insulation, Ceramics and Chemicals in form of many innovative devices, systems and software solutions. It has been a close partner to many industries and has led them through their journey toward automation.

Eliar's industrial automation operations have commenced in 1984 mainly to cater to glass manufacturers. Eliar currently services both local and international markets via its weighing and dosing solutions specifically designed and developed for glass (float, container, tableware, fiber, sodium silicate), construction chemicals, insulation and ceramics sectors.

In the late 80's, Eliar began servicing the textile industry by developing fabric and yarn dying process control devices. The advanced batch control devices that Eliar has designed and developed for automation of textile dying machines are being used locally in Turkey and abroad since 1989.

Eliar has begun focusing in on the field of Mechatronics in 1996, and has continued this focus since then. It has produced advanced liquid / powder chemical weighing / measurement and distribution systems, dying process control devices that are integrated to these systems, as well as systems that allow fully automated control and recording of end-to-end dying processes. Eliar has developed central tracking, planning and reporting software that have made it possible to build systems that are integrated from the dying machine level up to management information level.

Today, devices and systems that have been designed, and developed by Eliar, are being operated successfully in many countries across Asia, Europe, Central and South America, Middle-East and Africa

#### **Areas of Activity**

#### **Factories of the Future**

 FOF-09-2017 Novel design and predictive maintenance technologies for increased operating life of production systems

## Elkon Elektrik Sanayi ve Ticaret A.S.

#### Organisation Name

Country	Turkey
City	Istanbul
Street	Rauf Orbay Cad. Baran İş Merkezi No:39 Tuzla
Website	http://www.elkon-tr.com
Phone	
Organisation Type	Company

Person		
Name	Erdeniz Erol	
Email	eer@elkon-tr.com	
Job Position	Project Manager	



#### **Organisation Details**

Electrical System Integrator Company, specialized in Ship Electricity Distribution systems, drivers and bridge consoles.

#### **Areas of Activity**

#### The European Green Vehicles Initiative

- GV-04-2017 Next generation electric drivetrains for fully electric vehicles, focusing on high efficiency and low cost
- GV-05-2017 Electric vehicle user-centric design for optimised energy efficiency
- GV-06-2017 Physical integration of hybrid and electric vehicle batteries at pack level aiming at increased energy density and efficiency
- GV-08-2017 Electrified urban commercial vehicles integration with fast charging infrastructure
- GV-10-2017 Demonstration (pilots) for integration of electrified L-category vehicles in the urban transport system

#### **Cooperation Profiles**

#### Partner: Electrical System Integrator

Interested in following call topics: H2020 2017 Call Topics - Green Vehicles GV-01-2017: Optimisation of heavy duty vehicles for alternative fuels use GV-04-2017: Next generation electric drivetrains for fully electric vehicles, focusing on high efficiency and low cost GV-05-2017: Electric vehicle user-centric design for optimised energy efficiency GV-06-2017: Physical integration of hybrid and electric vehicle batteries at pack level aiming at increased energy density and efficiency GV-08-2017: Electrified urban commercial vehicles integration with fast charging infrastructure

#### Turkey

## EMKO ELEKTRONIK AS

#### **Organisation Name**

Country	Turkey	
City	BURSA	
Street	DOSAB, karanfil Sokak, No 6	
Website	www.emkoelektronik.com.tr	
Phone		
Organisation Type	SME	

Person		
Name	Ayhan Ispalar	Large
Email	ayhan@emkoelektronik.com.tr	
Job Position	General Manager	

#### **Organisation Details**

Emko Elektronik AS carries out the design and manufacture of Industrial Automation Systems, Instruments, Embedded Software's, Sensors such as Programmable Multi-Function process-control instruments, Custom Oriented Boards and Controllers for OEM, Humidity & Temperature Sensors, Control and Protection Generating Systems, Web Servers for Remote Monitoring & Data Logging of Industrial Automation Systems. Our product range and services meet the needs of the textile, food, plastic, glass, automotive, chemicals, iron and steel, cement, machinery production, energy and other sectors, with regard to the automation and process-control materials and services. The quality policy and procedures issued by the management of our company, which possesses the TS ISO EN 9001 Quality System Certificate, complete customer satisfaction in the areas of design, production and service is guaranteed. Our products & Services As follows.

1. Measurement and Control Instruments & Sensors : Temperature Measuring Control, Process Controller, Process Indicator, Cooling Controller, Owen-Cooking Controller, Poultry House Controller, Customizable PLC's, Thermocouple, Thermoresistance, Multifunctional Timer, Counter, Totalizer, Batch-Counter, Chronometer, Frequency Meter, Tachometer and Axis Readout and Control,Remote I/O Web Server, Remote Data Logging and Control software (SCADA).

2. Power Generating Control and Protection Systems: Automatic Gen-Set Controller, AMF, ATS, Auto-Start, Key-Start protection&control units, Remote Data Monitoring & Control (GSM, GPRS) WeB Server, Generating Set's Remote Control & Visualisation Software, sychronization & Load Sharing Controller, Gen-Set Battery Charger, Altenator AVR units.

#### **Areas of Activity**

#### **Factories of the Future**

• FOF-12-2017 ICT Innovation for Manufacturing SMEs

## Smart and Sustainable Cities and Energy Efficient Buildings

• EEB-07-2017 Integration of energy harvesting at building and district level

#### **Cooperation Profiles**

#### **Coordinator: WEB Management Platform for Distributed Shop Floors**

Flexible & customizable web based software for monitoring, data logging, alarming, reports and remote control on the distributed shop floors. Objectives: -to offer flexiable process implementation, -to offer customizable user HMI's for user, -to offer various connectivity (Ethernet, GSM, GPRS, Serial Com., Can Bus, Usb, ...) -to offer various communication protocol, -To offer one stop system not only WEB Management software and also including DCS's, RTU's and IOT's. i.e HW electronics units.

# Energon Energy Efficiency Consultancy

#### Organisation Name

Country	Turkey
City	Istanbul
Street	GIRNE CAD. NO20 D4
Website	www.energon.com.tr
Phone	
Organisation Type	SME

Person	
Name	Haydar Burak Ozturk
Email	burak.ozturk@energon.com.tr
Job Position	Mechanical Engineer



# **Organisation Details**

Energon Energy Efficiency Consultant company provides coordination and administration support to the customers with technical documentation and information for the construction of BMS for HVAC system

Energon offers a wide range of specific solutions for customers. The services provided varies from on site work-site engineering, project inspection and consultancy, project management, application and integration of Building Automation and Management Systems (BMS), HVAC/R Automation & Systems.

Energon employs experts who have Energy Management Certificate for residential to perform energy audits. We can help our customers to design sustainable and energy efficient buildings.

Energon offers solutions to small, middle and large scale smart homes (villas, residential areas) as well as large scale commercial buildings (educational, health related, governmental buildings, hotels, shopping malls, sports areas, etc.). We help our customers with installation, supervision, commissioning, start-up, and testing procedures both in design and on site work. Our consultants have been involved in international projects, which enables us to have experience about all world standards protocols (like LONWorks, EIB, BacNet, N2, ModBus).

# Areas of Activity

# Smart and Sustainable Cities and Energy Efficient Buildings

- EEB-05-2017 Development of near zero energy building renovation
- EEB-06-2017 Highly efficient hybrid storage solutions for power and heat in residential buildings and district areas, balancing the supply and demand conditions
- EEB-07-2017 Integration of energy harvesting at building and district level
- EEB-08-2017 New business models for energy-efficient buildings through adaptable refurbishment solutions
- EE-12-2017 Integration of Demand Response in Energy Management Systems while ensuring interoperability through Public Private Partnership
- SCC-1-2016-2017 Smart Cities and Communities lighthouse projects
- SCC-02-2016-2017 Demonstrating innovative nature-based solutions in cities

• SC5-08-2017 Large-scale demonstrators on naturebased solutions for hydro-meteorological risk reduction

# **Cooperation Profiles**

# Energon Energy Efficiency Consultancy / Beneficiary of REMOURBAN (grant agreement No 646511)

Building Energy Management System, Building Energy Automation System, Installation and commissioning of measurement and control systems of HVAC.

# ENOCTA e-Learning Technologies

#### Organisation Name

Country	Turkey
City	İstanbul
Street	Ruzgarlıbahce Smart Plaza B Blok
Website	www.enocta.com
Phone	
Organisation Type	SME

Person	
Name	Gonca Kara Demir
Email	gonca.kara@enocta.com
Job Position	R&D Center Manager



# **Organisation Details**

Founded in 1999, Enocta is the first and the leading R&D and innovation-focused SME on learning solutions/technologies in Turkey. With its cutting-edge technologies and state-of-the-art learning solutions, Enocta provides high-end products and services to meet the needs of businesses and individuals in both local and neighboring markets. Listed in Brandon-Hall Custom Content Developers Knowledgebase, Enocta offers adult training and delivers 1700+ contents and thousands of learning and development materials in three different catalogues to more than 500 institutions, universities and companies in 25 industries ranging from banking to telecommunication, energy and logistics. Currently, more than 2 million users regularly follow the learning solutions provided by Enocta.

With its expertise on Software Development, Learning Management Systems Mobile & Social Learning, Online Interactivity Design, Content Development, Instructional Design, Gamification, Authoring Tool Development, Virtual & Augmented Reality and Learning Analytics, Enocta has run and participated several national, international and EU Funded Projects. Our EU projects are:

- Technical Assistance for Capacity Development of Employees and Employers via Information and Communication Technologies (ICT) which cover activities for increasing the adaptability of employees, employers and enterprises through increasing their ICT-related skills and abilities (180 online courses). Funded under IPA Programme (EuropeAid/136645/IH/SER/TR)
- ELEVATE (FP7) Integrating Pedagogically-Documented, Value-Added E-Training Add-Ons in Commercial Software Products of European Software SMEs- Project funded under Research for SMEs Programme
- INTOUCH-ICT (LLP) ICT Professionals in Touch: New non-routine skills via mobile game-based learning
- Education Goes Green (LLP)- Spread knowledge about IT potential regarding environmental issues in order to stimulate green thinking and to create Eco-innovation "IT green thinking" module which could be incorporated in to training courses.

Having its headquarters in Istanbul and its branch in Ankara, Enocta team has 110 professionals working on R&D Team (48), Enterprise Solutions (17), Content Development Team (26), and Sales & Admin Team (19).

# Areas of Activity

# Smart and Sustainable Cities and Energy Efficient Buildings

- SCC-1-2016-2017 Smart Cities and Communities lighthouse projects
- SC5-21-2017: Cultural heritage as a driver for sustainable growth (Heritage-led rural regeneration)

# ENVE ENERJİ

Turkey
İSTANBUL
TUNCAY ARTUN CD PALMİYE SK NO6 EMİRGAN
www.enve.com:tr
Consulting

Person	
Name	ARZU GÜRKAN
Email	agurkan@enve.com.tr
Job Position	Deputy General Manager

# **Organisation Details**

"ENVE ENERJİ Mühendislik Proje Müşavirlik Taahhüt Tic.A.Ş"; is a corporation established within "KA MÜHENDİSLİK" which has over 40 years of engineering service experience in Mechanical and Electrical Applications.

"ENVE ENERJİ" according to the Energy Efficiency Law which aims at providing energy efficiency for industry and building sectors and which became valid when published on official gazette #5627 on 2 May 2007; is authorized as a consultancy corporation by General Directorate Of Electric Power Resources Survey And Development Administration Energy Efficiency Consultancy Corporation For Buildings And Industry.

"ENVE ENERJİ" offers a variety services aiming at Building And Industry Sector Corporations' working with maximum efficience without any sacrifice from the quality. Offered services include Consultancy, Measurement, Project Designing, Training, Application.

Our corporation performs project planning, designing and electric and mechanical installation works of any technical systems including office buildings, hotels, hospitals, industrial plants, housing, shopping and wellness centers, sport complex, electricity and machine engineering. Our corporation has proven successful in hundreds of project up to the present with its experienced managers, specialized technical staff and experience of more than 40 years. Our corporation offers complete solutions with project planning, consultancy, application accompanied by sales, after sales support and servicing, for its customers.

"ENVE" does not only offer engineering services , but it also establishes the infrastructure and approach, which are required for proper management of energy. This approach brings along the awareness to make the corporations use energy more efficiently.

# **OUR SERVICES**

# ENERGY EFFICIENCE CONSULTANCY

The most important objective for a corporation is to reduce energy costs. Through the consultancy services we are offering, aiming at efficient use of energy and energy resources, we provide benefits such as reduction in operation expenses, increase in profit, reduction in insurance and maintenance, reduction in carbon emission, improvement in working conditions.

# ENERGY SURVEY

It is performed for the purpose of determining the energy saving potentials of the corporations, their green house gas emission and energy waste, and revealing the technical and economic aspects of re-claiming such losses, or preventive measures against such loss.

"ENVE ENERJİ" has performed about 300 public and private enterprise's energy survey processes on their service buildings and industrial sites, performed also assessment and evaluation processes and hence it is discovered that an energy saving of above % 40 is possible. In other words, it contributed greatly in reducing the energy spent for economic and life standards within manufacture and services sectors in our country.

# **ENERGY EFFICIENCY APPLICATION SERVICES**

"ENVE Energy" has been performing planning of the projects for below applications with its electro-mechanical engineering experience of over 40 years on a turn-key basis.

- System and Plumbing Isolation Practices
- Energy Measurement and Tracking Systems
- Electro-mechanical Automation
- Solar Energy Applications
- Heat-Pump Applications
- Central Hot Water System and Heating Costs Distribution System
- Energy Efficiency Applications for Pressurized Air Systems
- Waste Heat Recovery Applications
- Energy Efficiency Applications for Cooling Systems
- Energy Efficiency Applications for Lighting Systems
- Energy Efficiency Applications for Boilers
- Energy Efficiency Applications for Water Cooling Towers
- Energy Efficiency Applications for Electric Motors
- Reactive Power Compensation Applications
- Energy Efficiency Applications in Steam Systems
- Energy Efficiency Applications for Industrial Ovens
- Cogeneration and Trigeneration Survey and Consultancy Services
- Energy Efficiency Applications in Air Conditioning Systems

# PROJECT

Taking as its basis the fact that energy resources are not infinite, "ENVE ENERJİ Proje Grubu" prepares projects of mechanical and electrical installations; as stipulated by law, regulation and standards; and also in consideration of optimum functionality, visual aspects and efficiency.

Project planning, designing and preparing of the tender dossiers of any technical system which involves electric and machinery engineering, such as office buildings, hotels, hospitals, industrial plants, shopping and wellness centers, sport complexes.

"ENVE ENERJİ Proje Grubu" as it is also within the body of an energy efficiency corporation, utilizes the experience and know-how from it, and makes energy-efficient environmentalist designs as well, just as suggested by its mission and vision. Design department has various certification and relevant experience on green buildings; it reflects the requirements of LEED and BREEAM certifications on its designs.

"ENVE Proje" offers project planning services for Building and Industrial Corporations in the fields listed below.

# **ENERGY PERFORMANCE CERTIFICATE**

"ENVE ENERJİ" has been authorized by Ministry of Public Works to perform the trainings of Energy Performance Certificate which is a requisite, as stipulated by the "Energy Efficiency Law" and "Regulation on Buildings' Energy Performance".

**Present Buildings:** "ENVE ENERJİ" is one of the energy consultancy corporations, whose authority to issue energy performance certificate has been granted by General Directorate Of Electric Power Resources Survey And Development Administration. "ENVE ENERJİ" is an Energy Consultancy Corporation Authorized By General Directorate Of Electric Power Resources Survey And Development Administration, and it has full authority to issue Energy Performance Certificate for present buildings.

**New Buildings:** So as to be able to receive energy performance certificate, they have to apply to engineering offices which have Independent Consulting Engineer Certificate granted by Trade Association, and which have the power to issue energy performance certificate. "ENVE ENERJİ" as a corporation which is authorized as an Independent Consulting Engineer registered by Chamber Of Mechanical Engineers and Chamber Of Electrical Engineers; has the power to perform Energy Performance Certificate surveys also on new buildings.

# TRAINING

"ENVE ENERJİ" has been authorized by Ministry of Public Works to perform the trainings of Energy Performance Certificate which is a requisite, as stipulated by the "Energy Efficiency Law" article #5627 and "Regulation on Buildings' Energy Performance". It has certified around 600 engineers through the training sessions it performed on the grounds of the granted authority.

# MEASUREMENT

"ENVE ENERJİ" has been performing measurements since 2009. So as to adopt and apply internationally valid methods and to make this service a reliable one and to increase its performance; it has decided and stadrted to work in accordance with Quality Management System, which is established taking as its basis TS EN ISO/IEC 17025 and TS CEN/ TS 15675 standards.

Our objective is to meet the customer demand at its best, by expert staff -who are continuously trained in their specific field of expertise- and in conformance with national/international standards , by utilizing the state-of-art measurement devices.

# TEST AND ADJUSTMENT(TAB), COMMISSIONING PROCESS

Commissioning the present plant and installations according to whether they were picked in conformance with their design and technical specifications, whether their performances conform with project-design figures, and after they are commissioned; performing the "measurement, test and adjustment(TAB; Test and Balance)" tasks and reporting, and in controversial circumstances; performing "independent" expertise are some of the services we offer. Measurements, tests and capacity calculations are done in accordance with ASHRAE standards.

# SOCIAL DEVELOPMENT

"Enve Enerji" supports any activity and establishment which would increase the social awareness. "ENVE ENERJI" within the scope of sustainable energy action plan, is aware of the fact that a broad range of the society from nongovernmental organizations, public sector to universities must cooperate within the scope of sustainable energy action plan.

# Areas of Activity

# Smart and Sustainable Cities and Energy Efficient Buildings

- EEB-08-2017 New business models for energy-efficient buildings through adaptable refurbishment solutions
- EE-12-2017 Integration of Demand Response in Energy Management Systems while ensuring interoperability through Public Private Partnership
- SCC-1-2016-2017 Smart Cities and Communities lighthouse projects
- SCC-02-2016-2017 Demonstrating innovative nature-based solutions in cities
- SC5-21-2017: Cultural heritage as a driver for sustainable growth (Heritage-led rural regeneration)

# **Cooperation Profiles**

# Coordinator: Energy Efficiency Audits/Engineering

Commissioning Process Management 3rd Party Measurement & Verification Testing, Adjusting and Balancing (TAB) Building Energy Management Energy Performance Certificates

# Ericsson Turkey

Organisation Name	
Country	Turkey
City	Istanbul
Street	ARI-2, B Blok 3-1
Website	www.ericsson.com
Phone	
<b>Organisation Type</b>	Company

Person	
Name	Fatma Özdemir
Email	fatma.ozdemir@ericsson.com
Job Position	Turkey R&D Director

# **Organisation Details**

Ericsson is the driving force behind the Networked Society – a world leader in communications technology and services. Our long-term relationships with every major telecom operator in the world allow people, business and society to fulfill their potential and create a more sustainable future. Our services, software and infrastructure – especially in mobility, broadband and the cloud – are enabling the telecom industry and other sectors to do better business, increase efficiency, improve the user experience and capture new opportunities. With approximately 115,000 professionals and customers in 180 countries, we combine global scale with technology and services leadership.

# ESG Turkey Consultancy

#### **Organisation Name**

Country	Turkey
City	ISTANBUL
Street	Ali Sami Yen Sk. Vefa Araligi No: 3/12
Website	www.esgturkey.com
Phone	
<b>Organisation Type</b>	Consulting

Person	
Name	Cenk Turker
Email	cenk@esgturkey.com
Job Position	Managing Director , Senior
	Consultant



# **Organisation Details**

#### Our motto

Seize the day, Save the future...

As for us; the essence of life is to live the moment during life, in addition to that while doing so preserving the future

#### **Our Vision**

To add value to business world for wealthy communities, satisfied employees, pleased customers and preserved natural resources

# **Our Mission**

Our mission is to create value in business world by involving all stakeholders inline with Sustainable Development. To do so; we provide the most effective management, consultancy, planning, reporting, training & research services.

# **Our Services**

# 1: Sustainability Analysis

This service is to give the Situation Analysis of the Company in terms of sustainability. Determination of the existing data, information, documentation, procedures, strategies, objectives, and targets of the company. Benchmark with national & international peer companies could be provided with in the service.

# 2: Sustainability Organizational Structural Analysis

Suggestions on Sustainability Organizational Structure inline with Company's existing organizational chart, sustainability strategies, sector.

# 3: Sustainability Strategic & Tactical Planning

Development of sustainability strategies, targets, tactic plans and roadmaps of the Companies in accordance with their targets, competitors, and conjectural & sectorial circumstances. Benchmark with national & international peer companies could be provided with in the service.

# 4: Sustainability Risk Management

Determination of sustainability risks and risk mapping inline with companies' sectors & conjuncture. Defines the possible sustainability risks of the companies and equips them by action plans.

# 5: Sustainability Reporting (GRI, UNGC CoP)

After having Sustainability Strategies, Companies report in international standards and shares their Sustainability Management outputs by their stakeholders. We help to prepare particularly 2 types of Sustainability reporting formats;

# 1) Global Reporting Initiative (GRI) Reporting

#### 2) United Nations Global Compact Communication on Progress (UNGC CoP)

#### 6: Sustainability Reporting Verification

We could provide verification services for Sustainability reporting with international expertise.

#### 7: Preparation & Reporting for Sustainability Indices (DJSI, BIST SI, etc.)

Leading Stock Exchanges have Sustainability Indices which rank companies according to their performances at Environmental, Social & Governance (ESG) dimensions. With this market mechanism; companies that can manage their sustainability risks & opportunities are able to attract more investment and raise their market value. At the same time; ESG Indices are instruments to determine companies' sustainability gaps and make them benefit from their good performances.

Borsa İstanbul Sustainability Index was put into practice in 2014. For the first year; BIST 30 companies evaluated through ESG Criteria and the coverage will be expanded.

ESG Indices expect advanced reporting or explanations from companies. We help companies to be prepared for such evaluations or support to prepare reports.

#### 8: Developing Corporate Social Responsibility (CSR) Projects

Developing or conducting CSR projects are of our services. In addition to that; we provide services to design, plan and conduct brand new or existing projects

#### 9: Sustainability Trainings & University Certificate Programs

We develop diversified types of Sustainability Trainings in order to support the organizational change management activities and a better organizational sustainability performance. The concept, scope, economy, risks & opportunities of Sustainability and more could be transferred by the help of Sustainability Trainings.

Sustainability Trainings have a key role throughout Sustainable Business transformation process. We are able to develop and conduct them for diversified target audience with unique content, various time, scope, methodology and formats.

In addition to them, in the aim of disseminating the Sustainable Business phenomenon we developed Certificate Programs on Sustainable Business.

## 10: Strategy Development for Climate Change Management

Climate Change is an undeniable reality and business world should adopt itself to that reality.

Companies should act in order to

- Keep their production and business alive,
- Minimize their resource consumption and to save,
- To develop new products, services and solutions,
- To stop Global Warming & Climate Change in macro bases.

Companies' efforts on adaption & mitigation activities against Climate Change became more effective by the following market mechanisms:

- Actions taken by regulating authorities,
- Market mechanisms,
- Enforcements by global trade,
- Customer preferences & stakeholder expectations,
- Avoiding risks & taking opportunities,
- Continuity of business.

Due to above mentioned reasons; we develop short, mid and long term strategies for Climate Change adaptation and mitigation activities. To create opportunities from risks; furthermore creating benefits for the company and the society could be achieved by a well-designed strategy.

11: Reporting for Climate Change Management (CDP – Carbon Disclosure Project, WDP – Water Disclosure Project)

We develop short, mid and long term strategies for Climate Change adaptation and mitigation activities. To create opportunities from risks; furthermore creating benefits for the company and the society could be achieved by a well-designed strategy.

Measurement becomes insufficient to adapt to climate change; strategy and regular reporting for successful management becomes more important.

Stakeholders asks companies' Climate Change Management plans, targets and strategies.

Companies benefit from Environmental Footprint (eg. Carbon, water, waste management) measurement, management and reporting particularly for the following reasons:

- Efficiency & savings,
- Benefits (Earnings, incentives, market value, etc.)
- More fund attraction,
- Preserving the nature & the society,
- Meeting the expectations of the customers & stakeholders

CDP Project is one of the most esteemed, recognized and effective examples serving for these purposes. CDP expects a report about Climate Change Management from companies. Most of the crucial things to be considered is only measurement & targeting are insufficient for successful results at rankings. A well-designed strategy and risk-opportunity planning should also be developed.

We serve for the most effective CDP Reporting to add value and gain the above mentioned benefits.

# **Areas of Activity**

# SPIRE-Circular Economy Session

- SPIRE-07-2017 Integrated approach to process optimisation for raw material resources efficiency, excluding recovery technologies of waste streams
- SPIRE-08-2017 Carbon dioxide utilisation to produce added value chemicals
- SPIRE-10-2017 New electrochemical solutions for industrial processing, which contribute to a reduction of carbon dioxide emissions
- CIRC-01-2017 Systemic, eco-innovative approaches for the circular economy large-scale demonstration projects
- CIRC-02-2017 Water in the context of the circular economy
- EE-17-2016-2017 Valorisation of waste heat in industrial systems

# Factories of the Future

- FOF-06-2017 New product functionalities through advanced surface manufacturing processes for mass production
- FOF-10-2017 New technologies and life cycle management for reconfigurable and reusable customised products

# Smart and Sustainable Cities and Energy Efficient Buildings

- EEB-07-2017 Integration of energy harvesting at building and district level
- SCC-02-2016-2017 Demonstrating innovative nature-based solutions in cities

# The European Green Vehicles Initiative

- GV-10-2017 Demonstration (pilots) for integration of electrified L-category vehicles in the urban transport system
- GV-13-2017 Production of next generation battery cells in Europe for transport applications

#### **Cooperation Profiles**

# Partner: Sustainable Strategy & Business Development

Sustainable Strategy & Business Development We are working with many companies from diversified industries such as construction, automotive, energy to conduct sustainable business. The possible collaboration areas could be developing sustainable business strategy, sustainable product development. Besides we are focusing on energy management, emission reduction, water management strategies and activities. We also prepare international reports such as Carbon Disclosure Project that adds value to companies.

# Partner: Sustainable Cities

We have been working with many companies from diversified industries such as construction, automotive, energy to conduct sustainable business. The possible collaboration areas could be developing sustainable business strategy, sustainable product development. Besides we are focusing on energy management, emission reduction, water management strategies and activities. We also prepare international reports such as Carbon Disclosure Project that adds value to companies. We are also eager to work on strategy development; energy, emission and water management for sustainable cities.

# Etkin Proje

Organisation Name	
Country	Turkey
City	Istanbul
Street	eğirmen Sokak Ar Plaza A Blok No:16 Kat.4 Daire/ 41
Website	
Phone	
Organisation Type	Authority/Government
Person	
Name	Beste Bener
Email	beste.bener@etkinproje.com

# **Organisation Details**

Etkin Proje is a consultancy with over 200 companies and 47 R&D centres in Turkey.

Business Development Man-

# Areas of Activity

**Job Position** 

#### **SPIRE-Circular Economy Session**

• SPIRE-07-2017 Integrated approach to process optimisation for raw material resources efficiency, excluding recovery technologies of waste streams

ager

- SPIRE-08-2017 Carbon dioxide utilisation to produce added value chemicals
- SPIRE-09-2017 Pilot lines based on more flexible and down-scaled high performance processing
- SPIRE-10-2017 New electrochemical solutions for industrial processing, which contribute to a reduction of carbon dioxide emissions

# Etkin Proje

Organisation Name	
Country	Turkey
City	Istanbul
Street	eğirmen Sokak Ar Plaza A Blok No:16 Kat.4 Daire/ 41
Website	www.etkinproje.com
Phone	
Organisation Type	Consulting
Person	

Name	Dr Rosen Dimov
Email	rosen.dimov@etkinproje.com
Job Position	EU Projects Manager



# **Organisation Details**

Etkin Proje is a consultancy company with over 200 customers and 45 R&D centers from Turkey and Europe.

#### Areas of Activity

Smart and Sustainable Cities and Energy Efficient Buildings

• EEB-05-2017 Development of near zero energy building renovation

# Eşarj Elektrikli Araçlar Şarj Sistemleri AŞ

#### **Organisation Name**

Turkey	
TUIKEy	
İstanbul	
Namık Kemal Mah	
www.esarj.com	
Company	

Cem Bahar
cem.bahar@esarj.com
Co-Founder



# **Organisation Details**

With installing over 600 (both commercial and private) charging stations, Esarj is the leading Electric Vehicle (EV) Charging operator in Turkey. It is the only company which offers up and running infrasutructure to EV users.

# Areas of Activity

Smart and Sustainable Cities and Energy Efficient Buildings

- EEB-05-2017 Development of near zero energy building renovation
- EEB-06-2017 Highly efficient hybrid storage solutions for power and heat in residential buildings and district areas, balancing the supply and demand conditions

#### The European Green Vehicles Initiative

- GV-01-2017 Optimisation of heavy duty vehicles for alternative fuels use
- GV-04-2017 Next generation electric drivetrains for fully electric vehicles, focusing on high efficiency and low cost
- GV-05-2017 Electric vehicle user-centric design for optimised energy efficiency
- GV-07-2017 Multi-level modelling and testing of electric vehicles and their components
- GV-08-2017 Electrified urban commercial vehicles integration with fast charging infrastructure
- GV-10-2017 Demonstration (pilots) for integration of electrified L-category vehicles in the urban transport system
- GV-13-2017 Production of next generation battery cells in Europe for transport applications

# **Cooperation Profiles**

# Partner: Expanding Electric Vehicle Charging Infrastructure

Turkey's national car brand will have battery electric and PHEV options. Since these cars will be sold in late 2019, till then sufficient infrastructure for these car needs to be created. Esarj's software and hardware infrastructures are up and running and used by EV users. Our aim is to increase Number of public stations all around country with the support of private sector as well as government and individual investors.

# Eşarj Elektrikli Araçlar Şarj Sistemleri AŞ

#### **Organisation Name**

Country	Turkey	
City	İstanbul	
Street	Namık Kemal Mah	
Website	www.esarj.com	
Phone		
Organisation Type	Company	

Person	
Name	Candost Bayraktar
Email	candost.bayraktar@esarj.com
Job Position	Partner



# **Organisation Details**

With installing over 600 (both commercial and private) charging stations, Esarj is the leading Electric Vehicle (EV) Charging operator in Turkey. It is the only company which offers up and running infrasutructure to EV users.

# Areas of Activity

Smart and Sustainable Cities and Energy Efficient Buildings

• EEB-06-2017 Highly efficient hybrid storage solutions for power and heat in residential buildings and district areas, balancing the supply and demand conditions

#### The European Green Vehicles Initiative

- GV-01-2017 Optimisation of heavy duty vehicles for alternative fuels use
- GV-04-2017 Next generation electric drivetrains for fully electric vehicles, focusing on high efficiency and low cost
- GV-05-2017 Electric vehicle user-centric design for optimised energy efficiency
- GV-06-2017 Physical integration of hybrid and electric vehicle batteries at pack level aiming at increased energy density and efficiency
- GV-07-2017 Multi-level modelling and testing of electric vehicles and their components
- GV-08-2017 Electrified urban commercial vehicles integration with fast charging infrastructure
- GV-10-2017 Demonstration (pilots) for integration of electrified L-category vehicles in the urban transport system
- GV-13-2017 Production of next generation battery cells in Europe for transport applications

# **Cooperation Profiles**

# Partner: Expanding Electric Vehicle Charging Infrastructure

Turkey's national car brand will have battery electric and PHEV options. Since these cars will be sold in late 2019, till then sufficient infrastructure for these car needs to be created. Esarj's software and hardware infrastructures are up and running and used by EV users. Our aim is to increase Number of public stations all around country with the support of private sector as well as government and individual investors.

# FEV TR Otomotiv ve Enerji Araştırma ve Mühendislik Ltd. Şti.

#### Organisation Name

Country	Turkey
City	Istanbul
Street	ITU ARI Teknokent
Website	http://www.fev.com/de/turkey.html
Phone	
Organisation Type	Company

Person	
Name	UMUT DOĞAN
Email	dogan_a@fev.com
Job Position	Automotive Software Engi-
	neer

#### **Organisation Details**

The FEV Group is an internationally recognized powertrain and vehicle engineering company that supplies the global transportation industry.

FEV offers a complete range of engineering services, providing support across the globe to customers in the design, analysis, prototyping, powertrain and transmission development, as well as vehicle integration, calibration and homologation for advanced internal combustion gasoline-, diesel-, and alternative-fueled powertrains. FEV also designs, develops and prototypes advanced vehicle / powertrain electronic control systems and hybrid-electric engine concepts that address future emission and fuel economy standards. The company has expanded its engineering capabilities to include full vehicle systems and now offers broad expertise in electronics, telematics and infotainment system engineering. The FEV Test Systems division is a global supplier of advanced test cell, instrumentation and test equipment.

# Areas of Activity

# The European Green Vehicles Initiative

- GV-01-2017 Optimisation of heavy duty vehicles for alternative fuels use
- GV-04-2017 Next generation electric drivetrains for fully electric vehicles, focusing on high efficiency and low cost
- GV-05-2017 Electric vehicle user-centric design for optimised energy efficiency
- GV-06-2017 Physical integration of hybrid and electric vehicle batteries at pack level aiming at increased energy density and efficiency
- GV-07-2017 Multi-level modelling and testing of electric vehicles and their components
- GV-08-2017 Electrified urban commercial vehicles integration with fast charging infrastructure
- GV-10-2017 Demonstration (pilots) for integration of electrified L-category vehicles in the urban transport system

# **Cooperation Profiles**

Turkey

Partner: GV-01-2017: Optimisation of heavy duty vehicles for alternative fuels use

**Partner:** GV-04-2017 (RIA) Next generation electric drivetrains for fully electric vehicles, focusing on high efficiency and low cost

**Partner:** GV-05-2017 (RIA) Electric vehicle user-centric design for optimised energy efficiency

**Partner:** GV-06-2017(IA) Physical integration of hybrid and electric vehicle batteries at pack level aiming at increased energy density & efficiency

**Partner:** GV-07-2017 (RIA) Multi-level modelling and testing of electric vehicles and their components

**Partner:** GV-08-2017 (IA) Electrified urban commercial vehicles integration with fast charging infrastructure

**Partner:** GV-10-2017 (IA) Demonstration (pilots) for integration of electrified L-category vehicles in the urban transport system

# FEV TR Otomotiv ve Enerji Araştırma ve Mühendislik Ltd. Şti.

#### Organisation Name

Country	Turkey
City	Istanbul
Street	İTÜ Ayazağa Kampüsü ARI Teknokent
Website	http://www.fev.com/de/turkey.html
Phone	
Organisation Type	Company

Person		
Name	Ender Nadir	Large
Email	nadir@fev.com	
Job Position	Team Leader	

#### **Organisation Details**

FEV Türkiye, merkezi Almanya Aachen'da bulunan dünyanın lider ileri teknoloji güç üretim ve araç teknolojileri geliştirme şirketi FEV GmbH'nın bir alt kuruluşudur. Tüm motor bilesenleri üzerine Ar-Ge çalışmaları yapmaktadır. Bu çalışmalarin bir bölümü de hibrit arac icin guc ve aktarma organlari gelistirilmesidir.

Ozellikle Türkiye pazarına yönelik olarak geliştirilmesi düsünülen yerli platformlara ait motor ve aktarma organlarının projelerinin gündemde olduğu dönemde, motor geliştirme teknolojileri alanındaki güçlü bilgi birikimini Türkiye'ye taşımak, hem de Türkiye'nin bu alandaki ihracat payını yükseltmek için girmiştir.

#### **Areas of Activity**

#### The European Green Vehicles Initiative

- GV-04-2017 Next generation electric drivetrains for fully electric vehicles, focusing on high efficiency and low cost
- GV-05-2017 Electric vehicle user-centric design for optimised energy efficiency
- GV-06-2017 Physical integration of hybrid and electric vehicle batteries at pack level aiming at increased energy density and efficiency
- GV-07-2017 Multi-level modelling and testing of electric vehicles and their components

Turkey

# Footprint&Sustainability Society (Ayakizi ve Sürdürülebilirlik Derneği)

**Organisation Name** 

organisation name		
Country	Turkey	
City	İstanbul	
Street	34.Sokak	
Website	www.ayakizimiz.org	
Phone		
Organisation Type	Association/Agency	
Deveen		
Person		
Name	Gülnur Mevlüde Özdemir	Large
Email	g.ozdemir@ayakizimiz.org	
Job Position	Board Member	

# **Organisation Details**

We are a group of people concerned about the future of ecological sustainability of our planet. With this reason we founded our society (Ayakizi ve Sürdürülebilirlik Derneği, Footprint and Sustainability Society) as a model of "think and do tank" in 2014.

Our society consists of 30 members, 9 of whom are the board members. Our members are individually focused on main subject of the society. They are all graduted from universities, directly or closely related branches. We have academicians and a large variety of deputies from private sectors. Since this year we have merged with the Turkey branch team of Swiss association called "MyClimate" (www.myclimate.org) and empowered our abilites in terms of being able to focus on climate change and carbon footprint calculations of the companies.

Since our founding, we have been developing several projects. One of these projects, which is named as "OVEK" (Efficient Usage of Sources at Schools) is related with the energy efficiency of governmental buildings, especially schools. 2 years ago we signed a protocol with Fatih & Beykoz District National Education Directorate. The content of the protocol includes the consumption amount of energy sources such as Electricity, Natural Gas and Water. Authorities in the District National Education Directorate, fill in a form which has been prepared by our organisation, and report us about their monthly consumption and physical situations of the school buildings, so that we can analyse and observe the weakest chain. After monitoring the consumption amounts, we determine the buildings which need to be urgently enhanced, and share this information with the authorities so that they can arrange their upcoming budget accordingly, or as an association we try to find sponsors who will be voluntere to provide the budget needed to enhance.

The second project of our organisation is to manage an education program in schools both for managers, teachers, students and parents, so that every student is going to be an ecological inspector at school as well as all the city. The inspector who will be elected for a specific period of time will observe their environment including schools and report their experience and observations to their teachers and managers. By doing these, students will be motivated to protect nature and share their knowledge and experience with their surroindings. According to the results (experience and observations) they report to their teachers, they will be promoted with extra points, and between those points there will be a termly competition between students, so that the best inspector will be elected as "The Ecologist Of The Term".

Since the foundation we figured out that, there has never been a study about the terminological database regarding to sustainability and footprint in Turkish language. We aim to prepare a reference database including the vocabulary, academic studies and researches to lead the people who are interested in this field of study.

As an association we may seem like a narrow team, but actually we are developing projects by our rich network which consists of governmental authorities, academicians and opinion leaders. We are open for new collaborations and looking for partners to develop projects worldwide. To contact us about developing opportunities don't hesitate to contact me via email, g.ozdemir@ayakizimiz.org

# SPIRE-Circular Economy Session

- SPIRE-08-2017 Carbon dioxide utilisation to produce added value chemicals
- SPIRE-10-2017 New electrochemical solutions for industrial processing, which contribute to a reduction of carbon dioxide emissions
- CIRC-01-2017 Systemic, eco-innovative approaches for the circular economy large-scale demonstration projects

# Smart and Sustainable Cities and Energy Efficient Buildings

- EEB-05-2017 Development of near zero energy building renovation
- EEB-06-2017 Highly efficient hybrid storage solutions for power and heat in residential buildings and district areas, balancing the supply and demand conditions
- SC5-08-2017 Large-scale demonstrators on nature-based solutions for hydro-meteorological risk reduction

# **Cooperation Profiles**

# **Partner:** Seeking partnership and sponsors with our recent projects related with energy efficient buildings and education programs.

We are seeking for partnership with Municipalities, Governmental Authorities, Utilities, Universities, social responsibility project seeker private sector companies to develop and cooperate on possible projects in the areas of: - Smart and Sustainable Cities, - Energy Efficient Buildings We can be the coordinator if the project will be executed in Turkey. We can be a partner, and share our knowledge if the project is going to be executed in some several countries. We are the only and leading association in sustainability and footprint. We also have the ability to calculate carbon footprint knowledge since our joining with the Swiss associations' Turkish branch MyClimate. As long as we are a young association, this is our first attendance to R&D grands.

# FORD OTOSAN

#### **Organisation Name**

Country	Turkey	
City	ISTANBUL	
Street	HASAN BASRİ	
Website	www.fordotosan.com.tr	
Phone		
Organisation Type	Company	

Person		
Name	EMRAH KINAV	
Email	ekinav@ford.com.tr	1
Job Position	R&D Management Special- ist	

# **Organisation Details**

Automotive OEM (Heavy duty trucks, light/medium commertial vehicles, passenger vehicles, diesel engines for trucks and marine industry)

# **Areas of Activity**

#### Factories of the Future

- FOF-06-2017 New product functionalities through advanced surface manufacturing processes for mass production
- FOF-07-2017 Integration of unconventional technologies for multi-material processing into manufacturing systems
- FOF-09-2017 Novel design and predictive maintenance technologies for increased operating life of production systems
- FOF-10-2017 New technologies and life cycle management for reconfigurable and reusable customised products
- FOF-12-2017 ICT Innovation for Manufacturing SMEs

# Smart and Sustainable Cities and Energy Efficient Buildings

• SCC-1-2016-2017 Smart Cities and Communities lighthouse projects

#### The European Green Vehicles Initiative

- GV-01-2017 Optimisation of heavy duty vehicles for alternative fuels use
- GV-04-2017 Next generation electric drivetrains for fully electric vehicles, focusing on high efficiency and low cost
- GV-05-2017 Electric vehicle user-centric design for optimised energy efficiency
- GV-06-2017 Physical integration of hybrid and electric vehicle batteries at pack level aiming at increased energy density and efficiency
- GV-07-2017 Multi-level modelling and testing of electric vehicles and their components
- GV-08-2017 Electrified urban commercial vehicles integration with fast charging infrastructure
- GV-09-2017 Aerodynamic and flexible trucks
- GV-10-2017 Demonstration (pilots) for integration of electrified L-category vehicles in the urban transport system

# **Cooperation Profiles**

# **Partner:** We are looking for reliable partners for, not necessarily limited to below mentioned calls(Universities, SMEs, OEMs and Tier1s as solution development partners)

We are looking for reliable partners (Universities, SMEs, OEMs and Tier1s as solution development partners) from all over EU to participate in below mentioned calls of 2016-17; ART-03-2017: Multi-Brand platooning in real traffic conditions => FORD CARGO based, 40T tracktor, with many variants are being offered for innovative autonomous platooning developments. We also offer our new test track for all off-traffic development processes. ART-07-2017: Full-scale demonstration of urban road transport automation => Dolmuş, Turkish public transport variant using FORD TRANSIT type small busses and vans used in urban transport in Istanbul are offered as a perfect solution. Willing to create a concortium for Innovative concepts of smart mobility and automation projects within the call. MG-2.1-2017: Innovations for energy efficiency and emission control in waterborne transport => With the most compititive expertise in heavy duty truck engines from fuel economy and emission control point of view, ECOTORQ MARINE engines and inhouse developed after treatment system are going to be our base in waterborne transport solution developments. Willing to join consortiums as innovative marine power system developer/partner. GV-01-2017: Optimisation of heavy duty vehicles for alternative fuels use => Cost / perfprmence / efficiency optimised FORD CARGO trucks and ECO-TORQ engines are to be now optimised for alternative fuels of biofuels and natural gas in various applications. We are open to coordinate / take part in consortiums. GV-08-2017: Electrified urban commercial vehicles integration with fast charging infrastructure => Patented fast charging application for trucks (refuse collection & freight - food delivery) and minibuses (people movers & load carrying) are to be developed within a consortium. Electrification partners with high expertise and knowledge are sought. GV-09-2017: Aerodynamic and flexible trucks => We are wiling to take part in innovative aerodynamics and energy management developments to be optimised for different customers / loads / environments.

# Ford Otosan

Organisation Name	
Country	Turkey
City	istanbul
Street	Hasan Basri-sancaktepe
Website	
Phone	
Organisation Type	Company

Person	
Name	Lale Korkmaz
Email	lkorkmaz@ford.com.tr
Job Position	Innovation Leader

# **Organisation Details**

OEM

# **Areas of Activity**

# **SPIRE-Circular Economy Session**

- CIRC-01-2017 Systemic, eco-innovative approaches for the circular economy large-scale demonstration projects
- SPIRE-13-2017 Potential of Industrial Symbiosis in Europe

# Factories of the Future

- FOF-08-2017 In-line measurement and control for micro-/nano-enabled high-volume manufacturing for enhanced reliability
- FOF-09-2017 Novel design and predictive maintenance technologies for increased operating life of production systems
- FOF-10-2017 New technologies and life cycle management for reconfigurable and reusable customised products
- FOF-12-2017 ICT Innovation for Manufacturing SMEs

# Smart and Sustainable Cities and Energy Efficient Buildings

- SCC-02-2016-2017 Demonstrating innovative nature-based solutions in cities
- SC5-21-2017: Cultural heritage as a driver for sustainable growth (Heritage-led rural regeneration)

# The European Green Vehicles Initiative

• GV-09-2017 Aerodynamic and flexible trucks

# Ford Otosan

Organisation Name		
Country	Turkey	
City	İstanbul	
Street	Hasan Basri Cad.	
Website		
Phone		
Organisation Type	Company	
Person		
Name	bengusu yalçın Kadakal	

# **Organisation Details**

Email

**Job Position** 

Ford OTOSAN is a leading automotive OEM in Turkey, designing and manufacturing vehicles (commercial, passenger) and covering a with wide service network.

bkadakal@ford.com

**R&D** Expert

Founded in 1959 as "OTOSAN A.Ş.", Ford OTOSAN was the first automotive company in Turkey. In 1966, it manufactured the first domestic passenger car Anadol, which was designed by Turkish engineers, and in 1986 the first diesel engine. In 2009, it was the first Turkish company to export automotives to the USA and automotive export leader 5 times in Turkey.

Ford OTOSAN has the largest R&D center of the Turkish automotive industry, and the 3rd largest R&D center of Ford Motor Company, with approximately 1,300 engineers developing advanced technologies and products to dominate in global competition. It is the global design and engineering center for Ford's heavy commercial vehicles and diesel engines. The Sancaktepe R&D Center, established in 2014, replacing the Gebze R&D Center, pioneers the engineering of Ford's global diesel engine production as well as heavy duty trucks. Ford OTOSAN's R&D investments continue in parallel with new vehicle and engine projects.

Turkey's commercial powerhouse, Ford OTOSAN accounted for 57% of Turkey's commercial vehicle production and 61% of commercial vehicle exports in 2013. With a capacity of 330,000 commercial vehicles and 66,000 engines at Kocaeli and İnönü Plants, Ford OTOSAN reached a capacity of 415,000 units at the end of 2014.

In 2013, Ford OTOSAN started to manufacture the new Ford Cargo truck and Ford Transit Custom, which was "2013 International Van of the Year". This year, investment towards the production of the new 9-liter and 13-liter Ecotorq engines is made, developed by Ford "EH engineers, the intellectual property rights of which are wholly owned by Ford OTOSAN. Ford OTOSAN, continuing its R&D activities since 1961, has become an engineering center which provides employment to approximately 1300 engineers, develops and manufactures domestic engines, and provides licenses in accordance with international agreements. In 2013-14, exporting engine and heavy duty truck technology to China is achieved by means of an agreement signed with JMC, to produce under licence Ecotorq engines and Cargo heavy duty trucks in the world's largest truck market, China.

Ford OTOSAN is experienced in complete design, validation, manufacturing and homologation phases of engine/vehicle families, as well as testing, service and after sales operations.

Ford OTOSAN is interested to work and collaborate on development of connected and autonomous vehicles to gain experience specifically on heavy duty truck/powertrain applications. Performance of the system in all environmets (all geography and weather conditions) in our markets and security of web services about freight services/ intelligent transportation systems are in our scope of R&D activities.

Fuel economy and cleanliness is a main focus area regarding engine and vehicle technologies. In this context, we are willing to collaborate in Battery Electric and Range extended electric vehicles as well as alternative fuels / powertrains (especially heavy duty applications). LNG, CNG, LPG are direct focus area in alternative fuels, as well as electrification and fuel economy. We are interested to work in partnership about enhancing the energy efficiency of vehicle through

smart GSM - GPS - WEB based driver assistance systems. All kinds of vehicle / engine optimizations are in our interests.

Lightweight materials and structures, regenerative systems, active noise control, connectivity and electrification are also among the research topics.

# **Areas of Activity**

#### **SPIRE-Circular Economy Session**

• CIRC-01-2017 Systemic, eco-innovative approaches for the circular economy large-scale demonstration projects

#### The European Green Vehicles Initiative

- GV-01-2017 Optimisation of heavy duty vehicles for alternative fuels use
- GV-04-2017 Next generation electric drivetrains for fully electric vehicles, focusing on high efficiency and low cost
- GV-05-2017 Electric vehicle user-centric design for optimised energy efficiency
- GV-06-2017 Physical integration of hybrid and electric vehicle batteries at pack level aiming at increased energy density and efficiency
- GV-07-2017 Multi-level modelling and testing of electric vehicles and their components
- GV-08-2017 Electrified urban commercial vehicles integration with fast charging infrastructure
- GV-09-2017 Aerodynamic and flexible trucks
- GV-10-2017 Demonstration (pilots) for integration of electrified L-category vehicles in the urban transport system
- GV-13-2017 Production of next generation battery cells in Europe for transport applications

# **Cooperation Profiles**

# Partner: Aerodynamic and Flexible Trucks

Ford Otosan, within OptiTruck consortium, has just been awarded with support in H2020-GV6-2015 (Powertrain control for heavy-duty vehicles with optimised emission), aiming to reduce fuel economy/emissions of long haulage trucks. Previously, Ford Otosan was involved in a FP6 - GREEN Project and currently have numerous H2020 applications awaiting funding. We are looking for reliable partners (Universities, SMEs, OEMs and Tier1s as solution development partners) from all over EU to participate in below mentioned calls of 2016-2017; GV-09-2017: Aerodynamic and flexible trucks; We are wiling to take part in innovative aerodynamics and energy management developments to be optimised for different customers / loads / environments.

# Smart and Sustainable Cities and Energy Efficient Buildings

• SCC-1-2016-2017 Smart Cities and Communities lighthouse projects

# GEBZE ORGANIZED INDUSTRIAL ZONE (GOSB)

#### Organisation Name

Country	Turkey
City	KOCAELİ
Street	GOSB Yönetim Merkezi GEBZE
Website	www.gosb.com.tr
Phone	
Organisation Type	Other

Person	
Name	Zeynep Karamanlı
Email	zeynep@gosb.com.tr
Job Position	Project Manager

#### **Organisation Details**

GOSB is an organized industrial zone, operating in accordance with the Law No.4562 on Organized Industrial Zones. It is founded in 1985 to provide a disciplined area for goods and services production. It is located 40 km. east of Istanbul, in Gebze, Kocaeli, Turkey and established on a **537,-ha** land, with a total number of **191** industrial plots.

Main areas of production of the industrial facilities located in GOSB are; metal goods, chemicals, plastics and rubber, food manufacturing, electrical equipment, and pharmaceuticals. Total number of employees in the Zone is 22.000.

By the Management of GOSB, the services provided to the facilities within the Zone are as follows:

- 34,5 kV electricity distribution (492.759 kWh in 2015)
- Natural gas distribution (456.628 Sm3 in 2015)
- Water distribution (990.573 m3 in 2015)
- Wastewater collection and treatment
- Solid wastes collection
- Firefighting services
- Telecommunication services (f/o network, VOIP, etc.)
- Construction permit, certificate of occupancy
- Operating permit
- Logistics and services (truck park, gas station, banks, notary public)
- Recreational and social areas (sports facilities, conference halls, restaurants)

Currently, the implementation of SCADA and automatic metering system project is carried out in order to manage electricity, natural gas, water and waterwater networks in a more efficient way. Furthermore, an advanced treatment system is being installed in the wastewater treatment plant to reuse the wastewater in manufacturing processes and irrigation.

# Areas of Activity

# SPIRE-Circular Economy Session

- CIRC-02-2017 Water in the context of the circular economy
- SPIRE-13-2017 Potential of Industrial Symbiosis in Europe

# Factories of the Future

 FOF-12-2017 ICT Innovation for Manufacturing SMEs

# Smart and Sustainable Cities and Energy Efficient Buildings

• SCC-1-2016-2017 Smart Cities and Communities lighthouse projects

# **GEBZE TECHNICAL UNIVERSITY**

#### **Organisation Name**

Country City Street Website Phone Organisation Type	Turkey KOCAELİ GEBZE TECHNICAL UNIVERSITY, ENVIRONMENTAL ENGINEERING DEPARTMENT University	GEBZE TEKNIK ÜNIVERSITESI
Person		

Name	MURAT EYVAZ
Email	murateyvaz@gmail.com
Job Position	RESEARCH ASSISTANT



# **Organisation Details**

It is a university for undergraduate and graduate studies and research activities located in a specifically selected area in Gebze, one of the most industrialized regions of the Marmara Region. The university has 79 research and/or teaching laboratories equipped with state-of-the-art hardware. Every major department has its own computer network and laboratory for its students. In addition, public computer laboratories are available workdays and weekends.

#### **Areas of Activity**

#### SPIRE-Circular Economy Session

- CIRC-01-2017 Systemic, eco-innovative approaches for the circular economy large-scale demonstration projects
- CIRC-02-2017 Water in the context of the circular economy
- EE-17-2016-2017 Valorisation of waste heat in industrial systems
- SPIRE-13-2017 Potential of Industrial Symbiosis in Europe

# Factories of the Future

• FOF-10-2017 New technologies and life cycle management for reconfigurable and reusable customised products

# Smart and Sustainable Cities and Energy Efficient Buildings

- EEB-05-2017 Development of near zero energy building renovation
- SCC-02-2016-2017 Demonstrating innovative nature-based solutions in cities

# GERSAN ELEKTRİK TİC. ve SAN. A.Ş.

#### Organisation Name

Country	Turkey
City	IST
Street	AYOSB
Website	www.gersan.com.tr
Phone	
Organisation Type	Company



Person	
Name	MUSTAFA SERDAR SALCI
Email	serdar@gersan.com.tr
Job Position	PRODUCT AND MARKETING MANAGER



#### **Organisation Details**

GERSAN A.Ş., a leading company in electrical industry manufactures that carry, combine and protect systems and materials conductive over the line from power plants to the sockets at houses.

Manufacture in this industry started in 1980 under the name Gersan Ticaret. From 1985 onwards, it went on business under the name GERSAN A.Ş. and had an experience spanning 26 years.

Our main fields of operations are: manufacture of Busbar transmission and Distribution systems, Cable support systems, Grounding and Lightning prevention systems, spark gap arresters, main and intermediate distribution plates, elevated type cable supports and bauds, ventilation systems, support elements, various cable combinations, disconnect, connect and support elements, cable and pipe tagging systems, special conveyors that must be applied at any kind of projects, steel construction combination and fixation systems required for power transmission lines, Mechanical conveyor systems, Building, Industrial plants, Car factories, Airports, Oil-Gas refineries, Malls, platform grills and fixation to concrete systems.

Since the very first day of starting production, GERSAN A.Ş., provides any kind of technical services and solutions to its customers at stages from production of items to their use with qualified technical and academic personnel. In this sense, GERSAN A.Ş. is a complete "R & D" company and provides its customers with the future's products.

Verification of temperature increase, electrical characteristics, structural strength, strength against crush, isolation strength against extraordinary temperatures, flame propagation strength, fire barrier, voltage decrease in system and EMC tests mentioned in IEC EN 60439/1 and 2 standards are executed by means of precision devices. Our items which hold international certificates such as GOST, IEC, BS, TSE, EN, ISO, CE are source of pride at projects realized at various countries such as Viet Nam, Chili, Argentina, Sri Lanka, Algeria, Russia Morocco, Turkic countries, Albania, Dubai and Qatar.Our quality policy is to offer quality items and services that would meet requirements of our customers for competitive prices, to make timely deliveries and to ensure continuance of service and quality. Our target is constantly producing high quality items. Our basic target is to be a world brand at our field of operation.

Our products are under patent. Gersan A.Ş. is a 60% publicly held company quoted to BIST (Istanbul Stock Exchange)

#### **Areas of Activity**

Smart and Sustainable Cities and Energy Efficient Buildings

# The European Green Vehicles Initiative

- SCC-1-2016-2017 Smart Cities and Communities lighthouse projects
- GV-08-2017 Electrified urban commercial vehicles integration with fast charging infrastructure

# **Cooperation Profiles**

# Partner: EVSE MANUFACTURER

EVSE MANUFACTURER

# Partner: LED SYSTEMS

LED SYSTEMS

# Partner: POWER LINE AUTOMATION SYSTEMS

POWER LINE AUTOMATION SYSTEMS

# GOKSER MAKINA SAN TIC LTD STI

#### Organisation Name

Country	Turkey
City	ANKARA
Street	1229. SOKAK NO:4 OSTIM
Website	www.gokser.com
Phone	
Organisation Type	SME

Person	
Name	Hilal UNAL
Email	hilal@gokser.com
Job Position	Project Manager

# **Organisation Details**

GOKSER MAKINA was established in 1987 in order to manufacture climatisation systems. We developed 8 products for heating, cooling ventilation purposes. We desing and manufacture the heating cooling venilation products according to our customer requests with three brands GOKSER, TECHNIFLEX and THERMACOOL.

We have completed many R/D projects supported by the TUBITAK and European Commission. We have completed tow FP7 projects as a partner and 2 FP7 projects as a coordinator.

# **Areas of Activity**

# Factories of the Future

- FOF-10-2017 New technologies and life cycle management for reconfigurable and reusable customised products
- FOF-12-2017 ICT Innovation for Manufacturing SMEs

# Smart and Sustainable Cities and Energy Efficient Buildings

- EEB-06-2017 Highly efficient hybrid storage solutions for power and heat in residential buildings and district areas, balancing the supply and demand conditions
- EEB-08-2017 New business models for energy-efficient buildings through adaptable refurbishment solutions

# **Cooperation Profiles**

Partner: climatisation systems with renewable energy/energy efficient buildings

# Güney Ege Kalkınma Ajansı (GEKA)

Organisation Name		
Country	Turkey	T.C.
City	Denizli	
Street	Pamukkale Ünv.Kınıklı Kampüsü Teknokent Binası Kat:2	GERA
Website	www.geka.gov.tr	
Phone		
<b>Organisation Type</b>	Association/Agency	
Person		
Name	Emre Kemik	T.C.
Email	emrekemik@geka.gov.tr	Güney Ege Kalkınm
Job Position	Specialist	GER

# **Organisation Details**

Southern Aegean Development Agency is a regional development agency which is responsible for the TR32 (Aydin-Denizli-Muğla) NUTS-2 Region. Our agency, which carries out activities mainly in the areas of regional planning and designing financial support programs in accordance with these plans, is also interested in benefiting from national and international funds for the region at maximum level.

# Areas of Activity

# SPIRE-Circular Economy Session

- SPIRE-10-2017 New electrochemical solutions for industrial processing, which contribute to a reduction of carbon dioxide emissions
- SPIRE-11-2017 Support for the enhancement of the impact of SPIRE PPP projects
- CIRC-01-2017 Systemic, eco-innovative approaches for the circular economy large-scale demonstration projects

# **Cooperation Profiles**

# **Coordinator:** We are looking for potential partners to join consortium to work together on a proposal for: INNOSUP 03 2017

This call aims to ensure cross-border access of manufacturing SMEs to technology services and/or facilities enabling them to integrate innovative advanced manufacturing technologies for clean production into their production process and to create a network within this scope.

# Habitus Research

Organisation Name	
Country	Turkey
City	Istanbul
Street	Çavuşoğlu Mah. Çoban Yıldızı Cad. No:38 Kartal
Website	http://www.habitusresearch.com/
Phone	
Organisation Type	Company

Person	
Name	AYBIL GÖKER
Email	aybil@habitusresearch.com
Job Position	Co-founder and director of
	research



# **Organisation Details**

We use corporate ethnography to provide insights on how to improve the work atmosphere. We study the influence of culture and individual diversity in corporate and organizational settings and present concrete solutions on how to enhance team building, internal and external communications as well as organizational restructuring frameworks and design. We place equanimity, dynamism, and the ability to analyze and ask the right questions at the center of our work. Hence, facilitating and conducting participatory workshops to reach maximum precise, innovative as well as applicable outcomes is granted. We offer consulting services to agencies and organizations working in the field of international development sector. We work with grant donors as well as grantees from civil society organization in the process of projects development, design and qualitative evaluation. Our anthropologists use ethnography and participatory action research as main approach and methodology to give nuanced and evolving perspectives on the process of social change from community as well as stakeholders perspectives. As trained 'outside' observers and skilled writers, we document and analyze the researched topic considering the unfolding and evolving nature of the environment surrounding the target group/ research interlocutors.Habitus research have experienced anthropologists who worked in the field of international development on international level with focus on gender mainstreaming and inequality issues

# Areas of Activity

Smart and Sustainable Cities and Energy Efficient Buildings

• SC5-21-2017: Cultural heritage as a driver for sustainable growth (Heritage-led rural regeneration)

# **Cooperation Profiles**

# Partner: Habitus Research Company

We use corporate ethnography to provide insights on how to improve the work atmosphere. We study the influence of culture and individual diversity in corporate and organizational settings and present concrete solutions on how to enhance team building, internal and external communications as well as organizational restructuring frameworks and design. We place equanimity, dynamism, and the ability to analyze and ask the right questions at the center of our work. Hence, facilitating and conducting participatory workshops to reach maximum precise, innovative as well as applicable outcomes is granted. We offer consulting services to agencies and organizations working in the field of international development sector. We work with grant donors as well as grantees from civil society organization in the process of projects development, design and qualitative evaluation. Our anthropologists use ethnography and participatory action research as main approach and methodology to give nuanced and evolving perspectives on the process of social change from community as well as stakeholders perspectives. As trained 'outside' observers and skilled writers, we document and analyze the researched topic considering the unfolding and evolving nature of the environment surrounding the target group/ research interlocutors. Habitus research have experienced anthropologists who worked in the field of international level with focus on gender mainstreaming and inequality is-

sues, HIV and AIDS and sexual and reproductive health and rights for women and young people. Basically, we combine the theories of anthropological thoughts, theories of developmental practices as well as hands on ethnographic research along with precise conclusions and outcomes from the creative strategy team of our company.

# HAVELSAN INC.

Organisation Name	
Country	Turkey
City	Ankara
Street	Mustafa Kemal Mah
Website	
Phone	
Organisation Type	Company

Person	
Name	Ali TELLİ
Email	atelli@havelsan.com.tr
Job Position	Systems Principal Engineer

# **Organisation Details**

Havelsan was founded more than three decades ago as an affiliate of the Turkish Armed Forces.

But over the years its business and portfolio have diversified;

the company has the goal of transforming itself from a defence company to a more generic IT company.

# You can check our website http://www.havelsan.com.tr

**HAVELSAN** is one of the leaders in software and information technologies

and would like to be the pioneer in 5G CORE NETWORK area in TURKEY.

Currently, we are creating an ecosystem to work together and to make a baseline for making partnerships for HORI-ZON 2020 5G projects.

Please find our proposed working areas and open HORIZON 2020 calls that we target below.

# Working Areas:

- 5G SDN (Software Defined Network)
- 5G NFV (Network Function Virtualization)
- 5G API (Application Programming Interface)
- 5G SON (Self Organized Networks)
- 5G IOT (Internet of Things)
- 5G CLOUD
- 5G HETNET
- 5G SECURITY
- 5G Standarts
- 5G Centralized or Distributed Topologies
- 5G Multimedia Applications

IOT is one of the area that we are interested in. We are cureently working on project proposals together with other companies and universities targeting smart city applications.

# Areas of Activity

# Factories of the Future

 FOF-10-2017 New technologies and life cycle management for reconfigurable and reusable customised products

# Smart and Sustainable Cities and Energy Efficient Buildings

• SCC-1-2016-2017 Smart Cities and Communities lighthouse projects

# **Cooperation Profiles**

# Coordinator: HAVELSAN

Havelsan was founded more than three decades ago as an affiliate of the Turkish Armed Forces. But over the years its business and portfolio have diversified; the company has the goal of transforming itself from a defence company to a

more generic IT company. You can check our website http://www.havelsan.com.tr HAVELSAN is one of the leaders in software and information technologies and would like to be the pioneer in 5G CORE NETWORK area in TURKEY. Currently, we are creating an ecosystem to work together and to make a baseline for making partnerships for HORIZON 2020 5G projects, and looking for European partners. Please find our proposed working areas and open HORIZON 2020 calls that we target below. Working Areas: • 5G SDN (Software Defined Network) • 5G NFV (Network Function Virtualization) • 5G API (Application Programming Interface) • 5G SON (Self Organized Networks) • 5G IOT (Internet of Things) • 5G CLOUD • 5G HETNET • 5G SECURITY • 5G Standarts • 5G Multimedia Applications We are interested in smart city and factory applications. Currently, we are preparing a proposal together with other companies and universities targeting Smart City ICT solutions.

# HEXAGON STUDIO

Organisation Name	
Country	Turkey
City	KOCAELİ
Street	TOSB 1.CADDE 15.YOL ŞEKERPINAR/KOCAELİ
Website	
Phone	
Organisation Type	Company

Person	
Name	ENGIN PINAR
Email	engin.pinar@hexagonstudio.com.tr
Job Position	SENIOR TRIM AND HVAC DESIGN
	ENGINEER

# **Organisation Details**

HEXAGON STUDIO provides capacity, capability and connection to its customers doing business in Mobility and Defence Industries, along the Product Development value chain.

# Capability;

Hexagon Studio provides Engineering Capability that are not present at the product development teams of automotive and defense industry companies.

Design and Engineering activities in the Product Development process has a very broad spectrum. It is not efficient and cost effective to keep expert teams in all fields under payroll. Hence companies tend to keep expertise on key areas in house and tend to outsource considerably less frequent required activities. At that Point Hexagon Studio aims to be available as a capability provider for its customers lacking expertise in their development teams.

# Capacity;

• Expansion Tank to local and international manufacturing and engineering companies. For development projects, there are always up's and down's in workload, consequently companies intent to have optimum number of employees under their payroll. This means doing more with the available resources. For those cases HEXA-GON STUDIO aims to be an expansion tank for its customers' organizations, where they have capability but not enough resource at different steps of the PD cycle.

Connection;

• Engineering Hub as a main contractor, to bridge resources in Turkey and International Platforms. Turkey has a bright future in terms of design, engineering, prototyping and testing facilities and resources. On the other hand Turkey based companies require some special services that have to be supplied by international resources. HEXAGON STUDIO will be the bridge connecting in between the local and international demand and supply in automotive engineering arena.

# Areas of Activity

# The European Green Vehicles Initiative

- GV-01-2017 Optimisation of heavy duty vehicles for alternative fuels use
- GV-04-2017 Next generation electric drivetrains for fully electric vehicles, focusing on high efficiency and low cost
- GV-05-2017 Electric vehicle user-centric design for optimised energy efficiency
- GV-06-2017 Physical integration of hybrid and electric

vehicle batteries at pack level aiming at increased energy density and efficiency

- GV-07-2017 Multi-level modelling and testing of electric vehicles and their components
- GV-08-2017 Electrified urban commercial vehicles integration with fast charging infrastructure
- GV-09-2017 Aerodynamic and flexible trucks
- GV-10-2017 Demonstration (pilots) for integration of electrified L-category vehicles in the urban transport system
- GV-13-2017 Production of next generation battery cells in Europe for transport applications

# HEXAGON STUDIO

Organisation Name	
Country	Turkey
City	KOCAELİ
Street	TOSB 1.CADDE 15.YOL ŞEKERPINAR/KOCAELİ
Website	
Phone	
Organisation Type	Company

Person		
Name	SERHAN SAPMAZ	and the
Email	serhan.sapmaz@hexagonstudio.com.tr	
Job Position	R&D INCENTIVES AND INTELLECTUAL PROPERTY SPECIALIST	

# **Organisation Details**

HEXAGON STUDIO provides capacity, capability and connection to its customers doing business in Mobility and Defence Industries, along the Product Development value chain.

### Capability;

Hexagon Studio provides Engineering Capability that are not present at the product development teams of automotive and defense industry companies.

Design and Engineering activities in the Product Development process has a very broad spectrum. It is not efficient and cost effective to keep expert teams in all fields under payroll. Hence companies tend to keep expertise on key areas in house and tend to outsource considerably less frequent required activities. At that Point Hexagon Studio aims to be available as a capability provider for its customers lacking expertise in their development teams.

Capacity;

• Expansion Tank to local and international manufacturing and engineering companies. For development projects, there are always up's and down's in workload, consequently companies intent to have optimum number of employees under their payroll. This means doing more with the available resources. For those cases HEXA-GON STUDIO aims to be an expansion tank for its customers' organizations, where they have capability but not enough resource at different steps of the PD cycle.

Connection;

• Engineering Hub as a main contractor, to bridge resources in Turkey and International Platforms. Turkey has a bright future in terms of design, engineering, prototyping and testing facilities and resources. On the other hand Turkey based companies require some special services that have to be supplied by international resources. HEXAGON STUDIO will be the bridge connecting in between the local and international demand and supply in automotive engineering arena.

### Areas of Activity

# The European Green Vehicles Initiative

- GV-01-2017 Optimisation of heavy duty vehicles for alternative fuels use
- GV-04-2017 Next generation electric drivetrains for fully electric vehicles, focusing on high efficiency and low cost
- GV-05-2017 Electric vehicle user-centric design for optimised energy efficiency
- GV-06-2017 Physical integration of hybrid and electric vehi-

cle batteries at pack level aiming at increased energy density and efficiency

- GV-07-2017 Multi-level modelling and testing of electric vehicles and their components
- GV-08-2017 Electrified urban commercial vehicles integration with fast charging infrastructure
- GV-09-2017 Aerodynamic and flexible trucks
- GV-10-2017 Demonstration (pilots) for integration of electrified L-category vehicles in the urban transport system
- GV-13-2017 Production of next generation battery cells in Europe for transport applications

# HEXAGON STUDIO

Organisation Name	
Country	Turkey
City	KOCAELİ
Street	TOSB 1.CADDE 15.YOL ŞEKERPINAR/KOCAELİ
Website	
Phone	
Organisation Type	Company

Person	
Name	NİLAY YALÇINKAYA YÖRÜK
Email	nilay.yoruk@hexagonstudio.com.tr
Job Position	R&D INCENTIVES AND INTELLEC-
	TUAL PROPERTY TEAM LEADER

### **Organisation Details**

HEXAGON STUDIO provides capacity, capability and connection to its customers doing business in Mobility and Defence Industries, along the Product Development value chain.

### Capability;

Hexagon Studio provides Engineering Capability that are not present at the product development teams of automotive and defense industry companies.

Design and Engineering activities in the Product Development process has a very broad spectrum. It is not efficient and cost effective to keep expert teams in all fields under payroll. Hence companies tend to keep expertise on key areas in house and tend to outsource considerably less frequent required activities. At that Point Hexagon Studio aims to be available as a capability provider for its customers lacking expertise in their development teams.

# Capacity;

• Expansion Tank to local and international manufacturing and engineering companies. For development projects, there are always up's and down's in workload, consequently companies intent to have optimum number of employees under their payroll. This means doing more with the available resources. For those cases HEXA-GON STUDIO aims to be an expansion tank for its customers' organizations, where they have capability but not enough resource at different steps of the PD cycle.

Connection;

• Engineering Hub as a main contractor, to bridge resources in Turkey and International Platforms. Turkey has a bright future in terms of design, engineering, prototyping and testing facilities and resources. On the other hand Turkey based companies require some special services that have to be supplied by international resources. HEXAGON STUDIO will be the bridge connecting in between the local and international demand and supply in automotive engineering arena.

### Areas of Activity

# The European Green Vehicles Initiative

- GV-01-2017 Optimisation of heavy duty vehicles for alternative fuels use
- GV-04-2017 Next generation electric drivetrains for fully electric vehicles, focusing on high efficiency and low cost
- GV-05-2017 Electric vehicle user-centric design for optimised energy efficiency

- GV-06-2017 Physical integration of hybrid and electric vehicle batteries at pack level aiming at increased energy density and efficiency
- GV-07-2017 Multi-level modelling and testing of electric vehicles and their components
- GV-08-2017 Electrified urban commercial vehicles integration with fast charging infrastructure
- GV-09-2017 Aerodynamic and flexible trucks
- GV-10-2017 Demonstration (pilots) for integration of electrified L-category vehicles in the urban transport system
- GV-13-2017 Production of next generation battery cells in Europe for transport applications

# HISBIM

Organisation Name	
Country	Turkey
City	Eskisehir
Street	Atap OSB Odunpazarı
Website	www.hisbim.com
Phone	
Organisation Type	SME

Person	
Name	Taskin KIZIL
Email	taskin@hisbim.com
Job Position	General Manager

### Organisation Details

We are looking project idea.

www.hisarlar.com.tr

www.turkar4x4.com.tr

#### **Areas of Activity**

#### **Factories of the Future**

- FOF-06-2017 New product functionalities through advanced surface manufacturing processes for mass production
- FOF-07-2017 Integration of unconventional technologies for multi-material processing into manufacturing systems
- FOF-08-2017 In-line measurement and control for micro-/nano-enabled high-volume manufacturing for enhanced reliability
- FOF-09-2017 Novel design and predictive maintenance technologies for increased operating life of production systems
- FOF-10-2017 New technologies and life cycle management for reconfigurable and reusable customised products
- FOF-12-2017 ICT Innovation for Manufacturing SMEs

# Smart and Sustainable Cities and Energy Efficient Buildings

- EEB-05-2017 Development of near zero energy building renovation
- EEB-06-2017 Highly efficient hybrid storage solutions for power and heat in residential buildings and district areas, balancing the supply and demand conditions
- EEB-07-2017 Integration of energy harvesting at building and district level
- EEB-08-2017 New business models for energy-effi-

### The European Green Vehicles Initiative

- GV-01-2017 Optimisation of heavy duty vehicles for alternative fuels use
- GV-04-2017 Next generation electric drivetrains for fully electric vehicles, focusing on high efficiency and low cost
- GV-05-2017 Electric vehicle user-centric design for optimised energy efficiency
- GV-06-2017 Physical integration of hybrid and electric vehicle batteries at pack level aiming at increased energy density and efficiency
- GV-07-2017 Multi-level modelling and testing of electric vehicles and their components
- GV-08-2017 Electrified urban commercial vehicles integration with fast charging infrastructure
- GV-09-2017 Aerodynamic and flexible trucks
- GV-10-2017 Demonstration (pilots) for integration of electrified L-category vehicles in the urban transport system



cient buildings through adaptable refurbishment solutions

- EE-12-2017 Integration of Demand Response in Energy Management Systems while ensuring interoperability through Public Private Partnership
- SCC-1-2016-2017 Smart Cities and Communities lighthouse projects
- SCC-02-2016-2017 Demonstrating innovative nature-based solutions in cities
- SC5-08-2017 Large-scale demonstrators on nature-based solutions for hydro-meteorological risk reduction

# **Cooperation Profiles**

# Partner: We are looking project idea.

We are looking project idea.



Organisation Name	
Country	Turkey
City	Istanbul
Street	Erkanı Harp Sok.
Website	
Phone	
<b>Organisation Type</b>	Authority/Government

Person	
Name	Fatih Canıtez
Email	fatih.canitez@iett.gov.tr
Job Position	Manager of Project Manage-
	ment Department

### **Organisation Details**

IETT is a public transport company operating bus and metrobus services in Istanbul and employing more than 7000 people. It also monitors and regulates the private bus operations. IETT currently works on electric vehicle technologies, intelligenet transport systems, smart mobility planning; which are important to know for other firms.

#### **Areas of Activity**

Smart and Sustainable Cities and Energy Efficient	The European Green Vehicles Initiative
Buildings	<ul> <li>GV-04-2017 Next generation electric drivetrains</li> </ul>
<ul> <li>EEB-05-2017 Development of near zero energy</li> </ul>	for fully electric vehicles, focusing on high efficien-
building renovation	cy and low cost

- GV-05-2017 Electric vehicle user-centric design for optimised energy efficiency
- GV-07-2017 Multi-level modelling and testing of electric vehicles and their components
- GV-10-2017 Demonstration (pilots) for integration of electrified L-category vehicles in the urban transport system

Orga	nisation	Name
o gu	moacion	itanic

Country	Turkey
City	EKİNCİLER CADDESİ
Street	KAVACIK
Website	www.medipol.edu.tr
Phone	
Organisation Type	University

Person	
Name	duygu erten
Email	derten@medipol.edu.tr
Job Position	Director

### **Organisation Details**

### Areas of Activity

# **Factories of the Future**

• FOF-10-2017 New technologies and life cycle management for reconfigurable and reusable customised products

### Smart and Sustainable Cities and Energy Efficient Buildings

- EEB-05-2017 Development of near zero energy building renovation
- EEB-08-2017 New business models for energy-efficient buildings through adaptable refurbishment solutions
- SCC-1-2016-2017 Smart Cities and Communities lighthouse projects
- SCC-02-2016-2017 Demonstrating innovative nature-based solutions in cities

# **Cooperation Profiles**

# SUSTAINABILITY IN THE BUILT ENVIRONMENT

We are interested with all kind of cooporation for energy efficiency/zero net energy buildings/green building standarts and certifications/eco products related projects.

# Individual Consultant

Organisation Name	
Country	Turkey
City	Istanbul
Street	-
Website	www.linkedin.com/in/nazbeykan
Phone	
Organisation Type	Consulting

Person	
Name	Naz Beykan
Email	nbeykan@post.harvard.edu
Job Position	Consultant



# **Organisation Details**

Naz Beykan practices as a sustainability and ecology consultant. Currently, she is working with The World Bank Group's Climate Efficient Industries team on eco-industrial parks and industrial resilience, and with IFC's Green Buildings team on market development of EDGE green buildings certification system in Turkey.

# Areas of Activity

# SPIRE-Circular Economy Session

- CIRC-01-2017 Systemic, eco-innovative approaches for the circular economy large-scale demonstration projects
- CIRC-02-2017 Water in the context of the circular economy

# Smart and Sustainable Cities and Energy Efficient Buildings

- EEB-08-2017 New business models for energy-efficient buildings through adaptable refurbishment solutions
- EE-12-2017 Integration of Demand Response in Energy Management Systems while ensuring interoperability through Public Private Partnership
- SCC-02-2016-2017 Demonstrating innovative nature-based solutions in cities
- SC5-08-2017 Large-scale demonstrators on nature-based solutions for hydro-meteorological risk reduction

### **Cooperation Profiles**

Partner: interested to work in projects related to green buildings or green industries

# infoTRON A.S.

Organisation Name	
Country	Turkey
City	ANKARA
Street	ODTU Teknokent Silikon Blok K1-2
Website	www.infotron.com.tr
Phone	
Organisation Type	Company

Person	
Name	Esin Soycan
Email	esin.soycan@infotron.com.tr
Job Position	R&D Projects and Incentives Specialist

### **Organisation Details**

www.infotron.com.tr

#### **Areas of Activity**

### Factories of the Future

- FOF-09-2017 Novel design and predictive maintenance technologies for increased operating life of production systems
- FOF-10-2017 New technologies and life cycle management for reconfigurable and reusable customised products
- FOF-12-2017 ICT Innovation for Manufacturing SMEs

# Invest in Turkey

Organisation Name	
Country	Turkey
City	istanbul
Street	istanbul dünya ticaret merkezi
Website	
Phone	
Organisation Type	Authority/Government

Person	
Name	ISMET KAGAN YILDIRIM
Email	kyildirim@invest.gov.tr
Job Position	Project Director

# **Organisation Details**

Support and promotion agency of Turkey

# lstac

Organisation Name	
Country	Turkey
City	Istanbul
Street	Piyale pasa
Website	istac.ist
Phone	
<b>Organisation Type</b>	Company

Person	
Name	Firat Sarp
Email	fsarp@istac.ist
Job Position	Energy manager

### **Organisation Details**

Www.istac.ist

# Areas of Activity

### SPIRE-Circular Economy Session

- SPIRE-07-2017 Integrated approach to process optimisation for raw material resources efficiency, excluding recovery technologies of waste streams
- SPIRE-08-2017 Carbon dioxide utilisation to produce added value chemicals
- SPIRE-09-2017 Pilot lines based on more flexible and down-scaled high performance processing
- SPIRE-10-2017 New electrochemical solutions for industrial processing, which contribute to a reduction of carbon dioxide emissions
- SPIRE-11-2017 Support for the enhancement of the impact of SPIRE PPP projects
- SPIRE-12-2017 Assessment of standardisation needs and ways to overcome regulatory bottlenecks in the process industry
- CIRC-01-2017 Systemic, eco-innovative approaches for the circular economy large-scale demonstration projects
- CIRC-02-2017 Water in the context of the circular economy
- EE-17-2016-2017 Valorisation of waste heat in industrial systems
- SPIRE-13-2017 Potential of Industrial Symbiosis in Europe

# Smart and Sustainable Cities and Energy Efficient Buildings

- EEB-05-2017 Development of near zero energy building renovation
- EEB-07-2017 Integration of energy harvesting at building and district level
- EEB-08-2017 New business models for energy-efficient buildings through adaptable refurbishment

# The European Green Vehicles Initiative

- GV-01-2017 Optimisation of heavy duty vehicles for alternative fuels use
- GV-13-2017 Production of next generation battery cells in Europe for transport applications

solutions

- SC5-08-2017 Large-scale demonstrators on nature-based solutions for hydro-meteorological risk reduction
- SC5-21-2017: Cultural heritage as a driver for sustainable growth (Heritage-led rural regeneration)

# istanbul büyükşehir belediyesi (istanbl metropolitan municipality)

**Organisation Name** 

-	
Country	Turkey
City	güngören
Street	mehmet nezifi özmen mah. kasım sokak
Website	
Phone	
Organisation Type	Authority/Government
Person	
Name	FATİH ÖZDEMİR

Nume		
Email	fatih.ozdemir@ibb.gov.tr	
Job Position	project coodinator	

# **Organisation Details**

Istanbul Metropolitan Municipality (IMM) holds a very important place in local administration organization of Istanbul. Its area of responsibility encompasses the entire provincial territory, which spans a total area of 5,343 km2. IMM has 27 municipal enterprises, 2 subsidiary public utility corporations (Transport Authority and Water & Sanitation Authority) and 50.474 employees in total. This year, the biggest budget was reserved for the IMM with a consolidated budget of 38.6 billion Turkish Lira (\$13.2 billion), exceeding the budgets of 19 ministries. Istanbul's budget increased %21 compared to the previous year. It is responsible for wide variety of areas including environment, natural-gas supply, energy, infrastructure, planning and development, IT, transportation, community services and vocational education, health-wellness, food & catering, culture, tourism etc.

# Areas of Activity

### SPIRE-Circular Economy Session

- CIRC-02-2017 Water in the context of the circular economy
- EE-17-2016-2017 Valorisation of waste heat in industrial systems

# Istanbul Gedik University

Organisation Name	
Country	Turkey
City	Kartal
Street	Cumhuriyet Mahallesi İlkbahar Sokak No: 1-3-5
Website	http://ww3.gedik.edu.tr/eng/
Phone	
Organisation Type	University

Person		
Name	Cigdem Gundogan Turker	Large
Email	cgundoganturker@gmail.com	
Job Position	Asistant Professor	

# **Organisation Details**

Gedik Education Foundation, ever since it was established in 1994, has disseminated the knowledge, technology and scientific opportunities that it has created in its field of activity to various sectors of industry. Gedik Education Foundation which is continuously getting stronger and widening in its field of activity has the desire to use its strength not just in the fields of welding technologies and engineering but in all fields for which there is a need in this country. Because of this, the following reasons for establishing a university are in the forefront:

- To offer education – training services first of all in the fields of engineering followed by other fields for which there is a need in this country.

- The increase in need for specialized schools and training in many fields of engineering especially in welding technologies and the apparent inability to meet this increased need,

- The high level of knowledge and experience that Gedik Education Foundation has accumulated in many fields ever since 1994 and its confidence in its potential in this matter,

- Its ability to be able to gather top experts in quite different fields in Turkey under one roof,

- Its ability to bring international information mainly in welding technologies as well as in other scientific and social studies to Turkey,

- Its ability to keep up with state-of-the-art in welding both in Turkey as well as around the world and being the point of contact,

# Areas of Activity

# Factories of the Future

- FOF-06-2017 New product functionalities through advanced surface manufacturing processes for mass production
- FOF-07-2017 Integration of unconventional technologies for multi-material processing into manufacturing systems
- FOF-08-2017 In-line measurement and control for micro-/nano-enabled high-volume manufacturing for enhanced reliability
- FOF-09-2017 Novel design and predictive maintenance technologies for increased operating life of production systems
- FOF-10-2017 New technologies and life cycle management for reconfigurable and reusable cus-

# The European Green Vehicles Initiative

- GV-01-2017 Optimisation of heavy duty vehicles for alternative fuels use
- GV-04-2017 Next generation electric drivetrains for fully electric vehicles, focusing on high efficiency and low cost
- GV-05-2017 Electric vehicle user-centric design for optimised energy efficiency
- GV-06-2017 Physical integration of hybrid and electric vehicle batteries at pack level aiming at increased energy density and efficiency
- GV-07-2017 Multi-level modelling and testing of electric vehicles and their components
- GV-08-2017 Electrified urban commercial vehicles integration with fast charging infrastructure

tomised products

 FOF-12-2017 ICT Innovation for Manufacturing SMEs

# Smart and Sustainable Cities and Energy Efficient Buildings

- EEB-05-2017 Development of near zero energy building renovation
- EEB-06-2017 Highly efficient hybrid storage solutions for power and heat in residential buildings and district areas, balancing the supply and demand conditions
- EEB-07-2017 Integration of energy harvesting at building and district level
- EEB-08-2017 New business models for energy-efficient buildings through adaptable refurbishment solutions
- EE-12-2017 Integration of Demand Response in Energy Management Systems while ensuring interoperability through Public Private Partnership
- SCC-1-2016-2017 Smart Cities and Communities lighthouse projects
- SCC-02-2016-2017 Demonstrating innovative nature-based solutions in cities
- SC5-08-2017 Large-scale demonstrators on naturebased solutions for hydro-meteorological risk reduction
- SC5-21-2017: Cultural heritage as a driver for sustainable growth (Heritage-led rural regeneration)

# **Cooperation Profiles**

# Partner: Looking for cooperation in research projects

I received the PHD degree for the thesis about "Sensorless Control of E-Core Transverse Flux Machine" supported from a Denmark Company AWS Technology and Tubitak. Now I have been working as associate researcher at the Department of Electrical Drive Systems and Power Electronics, Technical University of Munich since 18 months. I work about "Model Predictive Control of Electric Drives". Also, I hold the position as Assistant Professor at Istanbul Gedik University. I am interested in the research projects and offer cooperation for the following topics; \* Control of Electrical Machines \* Electric Drive Systems \* Sensorless Control \* Model Predictive Current Control, Model Precictive Torque Control of Two Level or Three Level Inverters.

- GV-09-2017 Aerodynamic and flexible trucks
- GV-10-2017 Demonstration (pilots) for integration of electrified L-category vehicles in the urban transport system
- GV-13-2017 Production of next generation battery cells in Europe for transport applications

# Istanbul Kultur University

#### **Organisation Name**

Country	Turkey
City	Istanbul
Street	Atakoy Campus
Website	http://net4society.pt-dlr.de//in- dex.php?file=show.php&ref=1786
Phone	+92124984307
Organisation Type	University



Person		
Name	Elif Damla Arisan	
Email	d.arisan@iku.edu.tr	
Job Position	Director of Project Develop- ment and Coordination Unit	2-0

# **Organisation Details**

#### ABOUT US

Istanbul Kültür University (IKU) is a Foundation University with a public entity, which was established on 15 July 1997. IKU was established by a foundation where educators who have successfully been dealing with education since the 1930s. Following inspections and evaluations conducted by the Higher Education Council in Turkey (YÖK), the university became entitled to state support for 14 years.

IKU has 7 Faculties (Economics and Administrative Sciences, Law, Engineering, Architecture, Art and Design, Education) and 2 vocational schools (Business Administration and Technical Sciences). Under the roof of the Faculty of Economics and Administrative Sciences there are four departments, namely Business Administration (BA), International Relations, Economics and International Trade. IKU is one of the leading and well-known universities in Istanbul with over 8000 national and international undergraduate/graduate students and 1000 staff. It performs many R&D activities in order to manage several international and national R&D and Erasmus+ projects and also conduct research in various scientific disciplines. It also organizes different science and society activities, info-days, conferences and encourages university researchers, students and other stakeholders (CSOs, public bodies, municipalities etc.) to be highly involved in those scientific events. Through this way it could raise the awareness and create networking environment in building up new partnerships in science, research and innovation. IKU has been involved in many national and international funded projects (Turkish Scientific and Technological Research Council-TUBITAK grants, COST Actions and Erasmus+ Programme) in different fields such as Molecular Biology and Genetics, Physics, Chemistry, Neuroscience, Education, Architecture, Political Science and International Relations. IKU also continues participating to the projects in such following programmes as TUBITAK, Horizon 2020, European Research Council, COST Actions and Turkish Development Agency.

http://www.iku.edu.tr/EN/ects\_bolum.php?m=1&f=1&p=4&r=0&ects=main

http://www.iku.edu.tr/ENG/9/504/social-projects.html

### Areas of Activity

### **SPIRE-Circular Economy Session**

- CIRC-01-2017 Systemic, eco-innovative approaches for the circular economy large-scale demonstration projects
- SPIRE-13-2017 Potential of Industrial Symbiosis in Europe

# Smart and Sustainable Cities and Energy Efficient Buildings

- SCC-1-2016-2017 Smart Cities and Communities lighthouse projects
- SC5-21-2017: Cultural heritage as a driver for sustainable growth (Heritage-led rural regeneration)

### **Factories of the Future**

# Powered by B2Match ©

- FOF-06-2017 New product functionalities through advanced surface manufacturing processes for mass production
- GV-13-2017 Production of next generation battery cells in Europe for transport applications

# **Cooperation Profiles**

**Partner:** Smart and Sustainable Cities and Energy Efficient Buildings **Partner:** Cultural Heritage as driver for sustainable growth

# Istanbul Kultur University

Organisation Name	
Country	Turkey
City	Istanbul
Street	Atakoy Yerleskesi Bakirkoy
Website	http://net4society.pt-dlr.de//in- dex.php?file=show.php&ref=1786
Phone	
Organisation Type	University
Person	
Name	Seda Goksu

# Emails.goksu@iku.edu.trJob PositionSenior Project Development<br/>Expert

# **Organisation Details**

Istanbul Kültür University (IKU) is a Foundation University with a public entity, which was established on 15 July 1997. IKU was established by a foundation where educators who have successfully been dealing with education since the 1930s. Following inspections and evaluations conducted by the Higher Education Council in Turkey (YÖK), the university became entitled to state support for 14 years.

IKU has 7 Faculties (Economics and Administrative Sciences, Law, Engineering, Architecture, Art and Design, Education) and 2 vocational schools (Business Administration and Technical Sciences). Under the roof of the Faculty of Economics and Administrative Sciences there are four departments, namely Business Administration (BA), International Relations, Economics and International Trade. IKU is one of the leading and well-known universities in Istanbul with over 8000 national and international undergraduate/graduate students and 1000 staff. It performs many R&D activities in order to manage several international and national R&D and Erasmus+ projects and also conduct research in various scientific disciplines. It also organizes different science and society activities, info-days, conferences and encourages university researchers, students and other stakeholders (CSOs, public bodies, municipalities etc.) to be highly involved in those scientific events. Through this way it could raise the awareness and create networking environment in building up new partnerships in science, research and innovation. IKU has been involved in many national and international funded projects (Turkish Scientific and Technological Research Council-TUBITAK grants, COST Actions and Erasmus+ Programme) in different fields such as Molecular Biology and Genetics, Physics, Chemistry, Neuroscience, Education, Architecture, Political Science and International Relations. IKU also continues participating to the projects in such following programmes as TUBITAK, Horizon 2020, European Research Council, COST Actions and Turkish Development Agency.

http://www.iku.edu.tr/EN/ects\_bolum.php?m=1&f=1&p=4&r=0&ects=main

http://www.iku.edu.tr/ENG/9/504/social-projects.html

### **Areas of Activity**

# Smart and Sustainable Cities and Energy Efficient Buildings

- SCC-1-2016-2017 Smart Cities and Communities lighthouse projects
- SC5-21-2017: Cultural heritage as a driver for sustainable growth (Heritage-led rural regeneration)

# **Cooperation Profiles**

# Partner: Smart and Sustainable Cities and Energy Efficient Buildings, Cultural Heritage as

driver for sustainable growth

# Istanbul Kultur University

Organisation Name	
Country	Turkey
City	Istanbul
Street	Bakirkoy
Website	http://www.iku.edu.tr/7/105/ic-mimarlik-ve-cevre- tasarimi-turkce.html
Phone	
Organisation Type	University
Person	
Name	Rana Kutlu

r.kutlu@iku.edu.tr

Assoc.Prof.

Large

# **Organisation Details**

Email

**lob** Position

Istanbul Kültür University (IKU) is a Foundation University with a public entity, which was established on 15 July 1997. IKU was established by a foundation where educators who have successfully been dealing with education since the 1930s. Following inspections and evaluations conducted by the Higher Education Council in Turkey (YÖK), the university became entitled to state support for 14 years.

IKU has 7 Faculties (Economics and Administrative Sciences, Law, Engineering, Architecture, Art and Design, Education) and 2 vocational schools (Business Administration and Technical Sciences). Under the roof of the Faculty of Economics and Administrative Sciences there are four departments, namely Business Administration (BA), International Relations, Economics and International Trade. IKU is one of the leading and well-known universities in Istanbul with over 8000 national and international undergraduate/graduate students and 1000 staff. It performs many R&D activities in order to manage several international and national R&D and Erasmus+ projects and also conduct research in various scientific disciplines. It also organizes different science and society activities, info-days, conferences and encourages university researchers, students and other stakeholders (CSOs, public bodies, municipalities etc.) to be highly involved in those scientific events. Through this way it could raise the awareness and create networking environment in building up new partnerships in science, research and innovation. IKU has been involved in many national and international funded projects (Turkish Scientific and Technological Research Council-TUBITAK grants, COST Actions and Erasmus+ Programme) in different fields such as Molecular Biology and Genetics, Physics, Chemistry, Neuroscience, Education, Architecture, Political Science and International Relations. IKU also continues participating to the projects in such following programmes as TUBITAK, Horizon 2020, European Research Council, COST Actions and Turkish Development Agency.

http://www.iku.edu.tr/EN/ects\_bolum.php?m=1&f=1&p=4&r=0&ects=main

http://www.iku.edu.tr/ENG/9/504/social-projects.html

### **Areas of Activity**

# Smart and Sustainable Cities and Energy Efficient Buildings

- EEB-05-2017 Development of near zero energy building renovation
- EEB-07-2017 Integration of energy harvesting at building and district level
- SCC-1-2016-2017 Smart Cities and Communities lighthouse projects
- SC5-21-2017: Cultural heritage as a driver for sustainable growth (Heritage-led rural regeneration)

### **Cooperation Profiles**

# Partner: Smart and Sustainable Cities and Energy Efficient Buildings

# Istanbul Kultur University

Organisation Name	
Country	Turkey
City	Istanbul
Street	Bakirkoy
Website	http://www.iku.edu.tr/7/105/ic-mimarlik-ve-cevre- tasarimi-turkce.html
Phone	
Organisation Type	University
Person	
Name	Banu Manav

b.manav@iku.edu.tr

Assoc.Prof.

# **Organisation Details**

Email

**lob** Position

Istanbul Kültür University (IKU) is a Foundation University with a public entity, which was established on 15 July 1997. IKU was established by a foundation where educators who have successfully been dealing with education since the 1930s. Following inspections and evaluations conducted by the Higher Education Council in Turkey (YÖK), the university became entitled to state support for 14 years.

IKU has 7 Faculties (Economics and Administrative Sciences, Law, Engineering, Architecture, Art and Design, Education) and 2 vocational schools (Business Administration and Technical Sciences). Under the roof of the Faculty of Economics and Administrative Sciences there are four departments, namely Business Administration (BA), International Relations, Economics and International Trade. IKU is one of the leading and well-known universities in Istanbul with over 8000 national and international undergraduate/graduate students and 1000 staff. It performs many R&D activities in order to manage several international and national R&D and Erasmus+ projects and also conduct research in various scientific disciplines. It also organizes different science and society activities, info-days, conferences and encourages university researchers, students and other stakeholders (CSOs, public bodies, municipalities etc.) to be highly involved in those scientific events. Through this way it could raise the awareness and create networking environment in building up new partnerships in science, research and innovation. IKU has been involved in many national and international funded projects (Turkish Scientific and Technological Research Council-TUBITAK grants, COST Actions and Erasmus+ Programme) in different fields such as Molecular Biology and Genetics, Physics, Chemistry, Neuroscience, Education, Architecture, Political Science and International Relations. IKU also continues participating to the projects in such following programmes as TUBITAK, Horizon 2020, European Research Council, COST Actions and Turkish Development Agency.

http://www.iku.edu.tr/EN/ects\_bolum.php?m=1&f=1&p=4&r=0&ects=main

http://www.iku.edu.tr/ENG/9/504/social-projects.html

# **Areas of Activity**

# Smart and Sustainable Cities and Energy Efficient Buildings

- EEB-05-2017 Development of near zero energy building renovation
- EEB-07-2017 Integration of energy harvesting at building and district level
- SCC-1-2016-2017 Smart Cities and Communities lighthouse projects
- SC5-21-2017: Cultural heritage as a driver for sustainable growth (Heritage-led rural regeneration)

# **Cooperation Profiles**

# Partner: Smart and Sustainable Cities and Energy Efficient Buildings

# Istanbul Metropolitan Municipality

#### **Organisation Name**

Country	Turkey
City	Istanbul
Street	Yeniyol sk.
Website	www.ibb.gov.tr
Phone	
Organisation Type	Authority/Government

Person	
Name	Murat Guneri
Email	murat.guneri@ibb.gov.tr
Job Position	Project Coordinator

# **Organisation Details**

**Istanbul Province** (Turkish: *İstanbul ili*), also the **Istanbul Metropolitan Municipality** (İstanbul Büyükşehir Belediyesi)[2] is a province located in north-west Turkey. It has an area of 5,343.02 square kilometres (2,062.95 sq mi) and a population of 14,377,018 as of 2014.[3] It is surrounded by the provinces of Tekirdağ to the west, Kocaeli to the east, the Black Sea to the northern part and the Sea of Marmara to the south. The Bosphorus Strait divides the province in two parts: the European side and the Asian side. Out of a population of 12.9 million in 2009, roughly 8 million lived on the European side and the remaining 5 million lived on the Asian.

The metropolitan municipality of Istanbul has had the same boundaries as the province since 2004.

# Areas of Activity

# Smart and Sustainable Cities and Energy Efficient Buildings

- SCC-1-2016-2017 Smart Cities and Communities lighthouse projects
- SCC-02-2016-2017 Demonstrating innovative nature-based solutions in cities

# istanbul metropolitan municipality

#### Organisation Name

Country	Turkey
City	istanbul
Street	mehmet nezihi özmen
Website	
Phone	
Organisation Type	Other

Person	
Name	Burcu Onuk Bayındır
Email	burcu.onuk@ibb.gov.tr
Job Position	project coordinator



# **Organisation Details**

Istanbul Metropolitan Municipality (IMM) holds a very important place in local administration organization of Istanbul. Its area of responsibility encompasses the entire provincial territory, which spans a total area of 5,343 km2. IMM has 27 municipal enterprises, 2 subsidiary public utility corporations (Transport Authority and Water & Sanitation Authority) and 50.474 employees in total. This year, the biggest budget was reserved for the IMM with a consolidated budget of 38.6 billion Turkish Lira (\$13.2 billion), exceeding the budgets of 19 ministries. Istanbul's budget increased %21 compared to the previous year. It is responsible for wide variety of areas including environment, natural-gas supply, energy, infrastructure, planning and development, IT, transportation, community services and vocational education, health-wellness, food & catering, culture, tourism etc.

### Areas of Activity

#### Smart and Sustainable Cities and Energy Efficient Buildings

- EEB-05-2017 Development of near zero energy building renovation
- EEB-06-2017 Highly efficient hybrid storage solutions for power and heat in residential buildings and district areas, balancing the supply and demand conditions
- EEB-07-2017 Integration of energy harvesting at building and district level
- EEB-08-2017 New business models for energy-efficient buildings through adaptable refurbishment solutions
- EE-12-2017 Integration of Demand Response in Energy Management Systems while ensuring interoperability through Public Private Partnership
- SCC-1-2016-2017 Smart Cities and Communities lighthouse projects
- SCC-02-2016-2017 Demonstrating innovative nature-based solutions in cities
- SC5-08-2017 Large-scale demonstrators on nature-based solutions for hydro-meteorological risk reduction
- SC5-21-2017: Cultural heritage as a driver for sustainable growth (Heritage-led rural regeneration)

### The European Green Vehicles Initiative

- GV-01-2017 Optimisation of heavy duty vehicles for alternative fuels use
- GV-04-2017 Next generation electric drivetrains for fully electric vehicles, focusing on high efficiency and low cost
- GV-05-2017 Electric vehicle user-centric design for optimised energy efficiency
- GV-06-2017 Physical integration of hybrid and electric vehicle batteries at pack level aiming at increased energy density and efficiency
- GV-07-2017 Multi-level modelling and testing of electric vehicles and their components
- GV-08-2017 Electrified urban commercial vehicles integration with fast charging infrastructure
- GV-09-2017 Aerodynamic and flexible trucks
- GV-10-2017 Demonstration (pilots) for integration of electrified L-category vehicles in the urban transport system
- GV-13-2017 Production of next generation battery cells in Europe for transport applications

# **Cooperation Profiles**

# Partner: searching for new project consortiums

We take part in Project in various areas including health, ict, transport, energy, environment etc. and we are open to new Project consortiums!

### Turkey

# ISTANBUL METROPOLITAN MUNICIPALITY

# Organisation Name

Country	Turkey
City	İSTANBUL
Street	Kasım
Website	
Phone	
<b>Organisation Type</b>	Authority/Government

Person	
Name	DİDEM OĞUR
Email	didem.ogur@ibb.gov.tr
Job Position	traductrice

# **Organisation Details**

public

\_



### Turkey

# **ISTANBUL METROPOLITAN MUNICIPALITY**

Organisation Name	
Country	Turkey
City	ISTANBUL
Street	ISTANBUL METROPOLITAN MUNICIPALITY EU RELA- TIONS DIRECTORATE MEHMET NEZİHİ OZMEN MAH. KASIN SOK. EK B BINA KAT 5
Website	
Phone	
Organisation Type	Authority/Government

Person	
Name	Zeynep Merve Çakır
Email	zmervemurtezaoglu@gmail.com
Job Position	Project Coordinator

# Organisation Details

Istanbul Metropolitan Municipality (IMM) Directorate of European Union Relations was established in 2005. The Directorate has five different areas of activity: Training, inter-institutional relations and support, EU projects, EU acquis and publicity.

We organize training seminars and EU information meetings in different districts of Istanbul for women and young people. We also organize training activities on EU acquis for the staff of IMM. Because, as IMM, we are aware of the importance of the process in which our country entered on the way to the EU, and local authorities are a crucial part of this process. In addition, we organize inter-institutional relations and support activities (EU Local Information Network, training seminars for district municipalities in Istanbul etc.) in order to inform local administrations in Istanbul about European funds and grants available in their own field and to help improve their capacity.

As a consequence, we prepare project proposals for EU funds on behalf of IMM, contact prospective project partners, establish and coordinate cooperation for project partnerships for EU grants.

Some selected projects:

CITY Service Development Kit (SDK), "Smart City Services Development Kits and Application Pilots" for more information: http://www.citysdk.eu/

VITAL, Created of Smart, Secure, Virtual, Appropriate Cost Programmable Interface Based on Internet in Smart Cities" for more information: http://vital-iot.eu/

JADE, "Joining Innovative Approaches for the Integration and Development of Transnational Knowledge Clusters Policies related to Independent Living of Elderly"

for more information: http://www.jadeproject.eu/

LEARNINC, "Business Incubators for Improving Creativity & Entrepreneurship in Historical Centre Clusters" for more information: www.learninc.eu/

SMARTSPACES, "Saving Energy in Europe's Public Buildings Using ICT" for more information: http://www.smartspaces.eu

RING, " Support Transfer Project for Caretaker" for more information: www.comune.torino.it

SUMPA MED, "Adaptation of Sustainable Urban Mobility Plans in Mediterranean" for more information: www.sumpamed.net

VIAJEO PLUS, for more information: http://viajeoplus.eu/

OSIRIS, for more information: www.osirisrail.eu/

LOG4GREEN, for more information: www.log4green.eu/

# Istanbul Metropolitan Municipality

**Organisation Name** 

Country	Turkey
City	istanbul
Street	mehmet nezihi
Website	
Phone	
Organisation Type	Other

Person	
Name	Mehmet Nuri Öztürk
Email	mehmetnuri.ozturk@ibb.gov.tr
Job Position	Project Coordinator



# **Organisation Details**

Istanbul Metropolitan Municipality (IMM) holds a very important place in local administration organization of Istanbul. Its area of responsibility encompasses the entire provincial territory, which spans a total area of 5,343 km2. IMM has 27 municipal enterprises, 2 subsidiary public utility corporations (Transport Authority and Water & Sanitation Authority) and 50.474 employees in total. This year, the biggest budget was reserved for the IMM with a consolidated budget of 38.6 billion Turkish Lira (\$13.2 billion), exceeding the budgets of 19 ministries. Istanbul's budget increased %21 compared to the previous year. It is responsible for wide variety of areas including environment, natural-gas supply, energy, infrastructure, planning and development, IT, transportation, community services and vocational education, health-wellness, food & catering, culture, tourism etc.

# Areas of Activity

### **SPIRE-Circular Economy Session**

• SPIRE-10-2017 New electrochemical solutions for industrial processing, which contribute to a reduction of carbon dioxide emissions

# Factories of the Future

- FOF-06-2017 New product functionalities through advanced surface manufacturing processes for mass production
- FOF-07-2017 Integration of unconventional technologies for multi-material processing into manufacturing systems
- FOF-08-2017 In-line measurement and control for micro-/nano-enabled high-volume manufacturing for enhanced reliability
- FOF-09-2017 Novel design and predictive maintenance technologies for increased operating life of production systems
- FOF-10-2017 New technologies and life cycle management for reconfigurable and reusable customised products
- FOF-12-2017 ICT Innovation for Manufacturing SMEs

# Smart and Sustainable Cities and Energy Efficient Buildings

- EEB-05-2017 Development of near zero energy building renovation
- EEB-06-2017 Highly efficient hybrid storage solutions for power and heat in residential buildings and district areas, balancing the supply and demand conditions
- EEB-07-2017 Integration of energy harvesting at building and district level
- EEB-08-2017 New business models for energyefficient buildings through adaptable refurbishment solutions
- EE-12-2017 Integration of Demand Response in Energy Management Systems while ensuring interoperability through Public Private Partnership
- SCC-1-2016-2017 Smart Cities and Communities lighthouse projects
- SCC-02-2016-2017 Demonstrating innovative nature-based solutions in cities
- SC5-08-2017 Large-scale demonstrators on nature-based solutions for hydro-meteorological risk reduction
- SC5-21-2017: Cultural heritage as a driver for sustainable growth (Heritage-led rural regeneration)

### The European Green Vehicles Initiative

- GV-01-2017 Optimisation of heavy duty vehicles for alternative fuels use
- GV-04-2017 Next generation electric drivetrains for fully electric vehicles, focusing on high efficiency and low cost
- GV-05-2017 Electric vehicle user-centric design for optimised energy efficiency
- GV-06-2017 Physical integration of hybrid and electric vehicle batteries at pack level aiming at increased energy density and efficiency
- GV-07-2017 Multi-level modelling and testing of electric vehicles and their components
- GV-08-2017 Electrified urban commercial vehicles integration with fast charging infrastructure
- GV-09-2017 Aerodynamic and flexible trucks
- GV-10-2017 Demonstration (pilots) for integration of electrified L-category vehicles in the urban transport system
- GV-13-2017 Production of next generation battery cells in Europe for transport applications

**Cooperation Profiles** 

Partner: .

# Istanbul Metropolitan Municipality

#### **Organisation Name**

Country	Turkey
City	istanbul
Street	mehmet nezihi özmen
Website	
Phone	
Organisation Type	Other

Person	
Name	hayati çalçoban
Email	hayati.calcoban@ibb.gov.tr
Job Position	project coordinator

# **Organisation Details**

Istanbul metropolitan Municipality is open to new project proposals in a wide range of areas.

# Areas of Activity

# Factories of the Future

- FOF-06-2017 New product functionalities through advanced surface manufacturing processes for mass production
- FOF-07-2017 Integration of unconventional technologies for multi-material processing into manufacturing systems
- FOF-08-2017 In-line measurement and control for micro-/nano-enabled high-volume manufacturing for enhanced reliability
- FOF-09-2017 Novel design and predictive maintenance technologies for increased operating life of production systems
- FOF-10-2017 New technologies and life cycle management for reconfigurable and reusable customised products
- FOF-12-2017 ICT Innovation for Manufacturing SMEs

# Smart and Sustainable Cities and Energy Efficient Buildings

- EEB-05-2017 Development of near zero energy building renovation
- EEB-06-2017 Highly efficient hybrid storage solutions for power and heat in residential buildings and district areas, balancing the supply and demand conditions
- EEB-07-2017 Integration of energy harvesting at building and district level
- EEB-08-2017 New business models for energy-efficient buildings through adaptable refurbishment solutions
- EE-12-2017 Integration of Demand Response in Energy Management Systems while ensuring in-

# The European Green Vehicles Initiative

- GV-01-2017 Optimisation of heavy duty vehicles for alternative fuels use
- GV-04-2017 Next generation electric drivetrains for fully electric vehicles, focusing on high efficiency and low cost
- GV-05-2017 Electric vehicle user-centric design for optimised energy efficiency
- GV-06-2017 Physical integration of hybrid and electric vehicle batteries at pack level aiming at increased energy density and efficiency
- GV-07-2017 Multi-level modelling and testing of electric vehicles and their components
- GV-08-2017 Electrified urban commercial vehicles integration with fast charging infrastructure
- GV-09-2017 Aerodynamic and flexible trucks
- GV-10-2017 Demonstration (pilots) for integration of electrified L-category vehicles in the urban transport system
- GV-13-2017 Production of next generation battery cells in Europe for transport applications

teroperability through Public Private Partnership

- SCC-1-2016-2017 Smart Cities and Communities lighthouse projects
- SCC-02-2016-2017 Demonstrating innovative nature-based solutions in cities
- SC5-08-2017 Large-scale demonstrators on nature-based solutions for hydro-meteorological risk reduction
- SC5-21-2017: Cultural heritage as a driver for sustainable growth (Heritage-led rural regeneration)

# istanbul metropolitan municipality

#### **Organisation Name**

Country	Turkey
City	istanbul
Street	kasım
Website	
Phone	
Organisation Type Company	

Person	
Name	çiğdem paşaoğlu aktürkoğlu
Email	cigdem.pasaoglu@ibb.gov.tr
Job Position	proje coordinator

# **Organisation Details**

Istanbul Metropolitan Municipality prepares and carries out EU funded projects in various areas.

# Areas of Activity

# SPIRE-Circular Economy Session

- SPIRE-07-2017 Integrated approach to process optimisation for raw material resources efficiency, excluding recovery technologies of waste streams
- SPIRE-08-2017 Carbon dioxide utilisation to produce added value chemicals
- SPIRE-10-2017 New electrochemical solutions for industrial processing, which contribute to a reduction of carbon dioxide emissions
- SPIRE-11-2017 Support for the enhancement of the impact of SPIRE PPP projects
- SPIRE-12-2017 Assessment of standardisation needs and ways to overcome regulatory bottlenecks in the process industry

# Istanbul Sehir University

<b>Organisation Nar</b>	me
-------------------------	----

Turkey
Istanbul
Kusbakisi
University

Person		
Name	Murat Kucukvar	
Email	muratkucukvar@sehir.edu.tr	
Job Position	Department Chair in Indus- trial Engineering	

# **Organisation Details**

İstanbul Şehir University rose with an academic pursuit which has directed the Foundation for Sciences and Arts since 1986. İstanbul Şehir University, which took the road as a real "foundation university", started its actual foundation works in 2007. Istanbul Sehir University is a research based private institution and dedicated to sustainable solutions in Turkey.

As an endowment organization, ŞEHİR envisions itself to become one of the prominent top-tier research and higher education institution to offer a unique combination of training in the areas of humanities, social and natural sciences, as well as engineering disciplines for the next generation of professionals and to-be-academics. ŞEHİR has a solid foundation of knowledge in the areas of social sciences and humanities while it expands its research potential towards Engineering and Natural Sciences.

ŞEHİR has established an array of cross-disciplinary departments and graduate schools with an integrated agenda of (re)search for true knowledge, innovation for sustainability and service for society. As part of its founding philosophy, ŞEHİR aims to direct its research efforts and investments with the fundamental objectives of generating intellectual property to solve current and prospective problems, and contributing to the progress of the society in general. With its Faculty members having international experience in the areas of research, development, teaching, industry and business, ŞEHİR aims to provide a dynamic, free and interdisciplinary environment that allows faculty members and students to develop complementary skills and experience.

Research activities are carried out in the College of Humanities and Social Sciences, School of Law, School of Islamic Studies, College of Communications, School of Management and Administrative Sciences, College of Engineering and Natural Sciencesas well as in research centers, Center for Urban Studies and Center for Modern Turkish Studies.

# Areas of Activity

# SPIRE-Circular Economy Session

- SPIRE-07-2017 Integrated approach to process optimisation for raw material resources efficiency, excluding recovery technologies of waste streams
- CIRC-01-2017 Systemic, eco-innovative approaches for the circular economy large-scale demonstration projects
- CIRC-02-2017 Water in the context of the circular economy

# Smart and Sustainable Cities and Energy Efficient Buildings

EEB-05-2017 Development of near zero energy

# The European Green Vehicles Initiative

- GV-01-2017 Optimisation of heavy duty vehicles for alternative fuels use
- GV-04-2017 Next generation electric drivetrains for fully electric vehicles, focusing on high efficiency and low cost
- GV-08-2017 Electrified urban commercial vehicles integration with fast charging infrastructure

### **Factories of the Future**

• FOF-10-2017 New technologies and life cycle management for reconfigurable and reusable customised products building renovation

- EEB-08-2017 New business models for energy-efficient buildings through adaptable refurbishment solutions
- SCC-1-2016-2017 Smart Cities and Communities lighthouse projects

#### **Cooperation Profiles**

## Partner: Systems Analysis for Sustainability

Dr. Murat Kucukvar serves as the Chairman and Assistant Professor of the Department of Industrial Engineering at Istanbul Sehir University, Turkey. He is also a founding member and co-director of the Sustainable Systems & Solutions Lab (S3-Lab) at Istanbul Sehir University. He also holds the positions of International Programs & Erasmus Coordinator and Board Member of Graduate School of Engineering and Applied Sciences at SEHIR. Dr. Kucukvar is working on developing system based tools (e.g. life cycle sustainability assessment) for macro-level sustainability analysis of buildings, transportation systems, production, and cities. S3-Lab is an interdisciplinary research and practice lab dedicated to develop system-based sustainability solutions for the socio-economic and environmental issues by bridging the academia and industry. Please check S3-Lab's website at http://s3-lab.sehir.edu.tr/. He is also looking for partners working on development of decision support tools and models for sustainability accounting of energy, transportation, manufacturing, and urban environment.

# Istanbul Sehir University

#### **Organisation Name**

Country	Turkey
City	İstanbul
Street	Kusbakısı
Website	
Phone	
Organisation Type	University

Person	
Name	Ceren Kutlu
Email	cerenkutlu@sehir.edu.tr
Job Position	Project Specialist

## **Organisation Details**

Established in 2008 by the Foundation for Science and Arts (BISAV), İstanbul Şehir University (ŞEHİR) has accepted its first students in 2010-11. ŞEHİR has a solid foundation of knowledge in the areas of social sciences and humanities while it expands its research potential towards Engineering and Natural Sciences.

ŞEHİR has established an array of cross-disciplinary departments and graduate schools with an integrated agenda of (re)search for true knowledge, innovation for sustainability and service for society.

İstanbul Şehir University Technology Transfer Office is established in 2011 and is currently one of 25 TTOs supported and sponsored through the special grant by The Scientific and Technological Research Council of Turkey (TÜBİTAK). ŞEHİR TTO is comprised of 8 personnel who are working in 4 departments:

- Sponsored Projects
- Industry-University Alliances
- IP & Commercialization
- Technological and Social Incubation @ incuba.city, which is the incubation center within ŞEHİR TTO

## Areas of Activity

#### **SPIRE-Circular Economy Session**

• CIRC-01-2017 Systemic, eco-innovative approaches for the circular economy large-scale demonstration projects

## Smart and Sustainable Cities and Energy Efficient Buildings

- EEB-07-2017 Integration of energy harvesting at building and district level
- EEB-08-2017 New business models for energy-efficient buildings through adaptable refurbishment solutions
- SCC-02-2016-2017 Demonstrating innovative nature-based solutions in cities

# Istanbul Sehir University

**Organisation Name** 

Country	Turkey
City	Istanbul
Street	Kusbakisi cad.
Website	http://www.sehir.edu.tr/en/Pages/home.aspx
Phone	
Organisation Type	University



Person	
Name	Nuri Cihat Onat
Email	onatcihat@gmail.com
Job Position	Assistant Prof.



## **Organisation Details**

İstanbul Şehir University rose with an academic pursuit which has directed the Foundation for Sciences and Arts since 1986. İstanbul Şehir University, which took the road as a real "foundation university", started its actual foundation works in 2007. Istanbul Sehir University is a research based private institution and dedicated to sustainable solutions in Turkey.

As an endowment organization, ŞEHİR envisions itself to become one of the prominent top-tier research and higher education institution to offer a unique combination of training in the areas of humanities, social and natural sciences, as well as engineering disciplines for the next generation of professionals and to-be-academics. ŞEHİR has a solid foundation of knowledge in the areas of social sciences and humanities while it expands its research potential towards Engineering and Natural Sciences.

ŞEHİR has established an array of cross-disciplinary departments and graduate schools with an integrated agenda of (re)search for true knowledge, innovation for sustainability and service for society. As part of its founding philosophy, ŞEHİR aims to direct its research efforts and investments with the fundamental objectives of generating intellectual property to solve current and prospective problems, and contributing to the progress of the society in general. With its Faculty members having international experience in the areas of research, development, teaching, industry and business, ŞEHİR aims to provide a dynamic, free and interdisciplinary environment that allows faculty members and students to develop complementary skills and experience.

Research activities are carried out in the College of Humanities and Social Sciences, School of Law, School of Islamic Studies, College of Communications, School of Management and Administrative Sciences, College of Engineering and Natural Sciencesas well as in research centers, Center for Urban Studies and Center for Modern Turkish Studies.

## Areas of Activity

## SPIRE-Circular Economy Session

• CIRC-01-2017 Systemic, eco-innovative approaches for the circular economy large-scale demon-

## Smart and Sustainable Cities and Energy Efficient Buildings

EEB-05-2017 Development of near zero energy

stration projects

- CIRC-02-2017 Water in the context of the circular economy
- SPIRE-13-2017 Potential of Industrial Symbiosis in Europe

## Factories of the Future

 FOF-10-2017 New technologies and life cycle management for reconfigurable and reusable customised products building renovation

- EEB-08-2017 New business models for energy-efficient buildings through adaptable refurbishment solutions
- SCC-1-2016-2017 Smart Cities and Communities lighthouse projects

## The European Green Vehicles Initiative

- GV-01-2017 Optimisation of heavy duty vehicles for alternative fuels use
- GV-05-2017 Electric vehicle user-centric design for optimised energy efficiency
- GV-06-2017 Physical integration of hybrid and electric vehicle batteries at pack level aiming at increased energy density and efficiency
- GV-07-2017 Multi-level modelling and testing of electric vehicles and their components
- GV-08-2017 Electrified urban commercial vehicles integration with fast charging infrastructure
- GV-10-2017 Demonstration (pilots) for integration of electrified L-category vehicles in the urban transport system
- GV-13-2017 Production of next generation battery cells in Europe for transport applications

## **Cooperation Profiles**

## Partner: Sustainable Systems Analysis

Dr. Nuri Onat serves as Assistant Professor in the Department of Industrial Engineering at Istanbul Sehir University, Turkey. He is also co-director of the Sustainable Systems & Solutions Lab (S3-Lab) at Istanbul Sehir University. He also works as an adjunct online faculty at the Global Institute of Sustainability (GIOS) at the Arizona State University (ASU), giving lectures about Systems Thinking. Dr. Onat is working on developing system based tools (e.g. life cycle sustainability assessment) for macro-level sustainability analysis of transportation, building systems, production, and cities. He prepared Circular Economy lectures for professional certificates at GIOS at the Arizona State University. He actively works on alternative vehicle technologies and their sustainability impacts. Our new sustainability lab, S3-Lab, is an interdisciplinary research and practice lab dedicated to develop system-based sustainability solutions for the socio-economic and environmental issues by bridging the academia and industry. Please check S3-Lab's website at http://s3-lab.sehir.edu.tr/. He is also looking for partners working on development of decision support tools and models for sustainability accounting of transportation (smart-grid, V2H, V2H), buildings (NZEB), and urban sustainability.

<b>Organisation Na</b>	
Urganisation Na	me

Country	Turkey
City	Istanbul
Street	Ayazaga Campus
Website	
Phone	
Organisation Type	University

Person	
Name	Jale Arslan
Email	arslanj@itu.edu.tr
Job Position	Expert

## **Organisation Details**

Istanbul Technical University aims to create a new generation of technology and innovation to drive economic growth by conducting value-added and industrially applicable research. ITU's researchers carry out research in the fields of engineering, core sciences, earth/planetary sciences, arts and social sciences. Particular research areas, in which the ITU researchers pursue discoveries and implement projects, are materials science, nanotechnology, aeronautics, mechatronics, biotechnology, renewable energy, sustainable building systems and design.

ITU is one of the leading research-intensive technical universities in Turkey. Regarding EU funded research; ITU currently has 22 projects from 6th Framework Programme, 47 projects from 7th Framework Programme, 4 projects from MEDA Programme, 2 projects from MINERVA Programme, 1 project from Leonardo Da Vinci Programme, 1 project from MATRA Programme, 1 project from Grundtvig Programme, 1 Project from Youth in Action Programme and 1 project from Black Sea Cross Border Cooperation Programme, 1 project from Erasmus Intensive Programme, 7 projects from Horizon 2020 Programme. Besides, ITU is actively involved in wide range of national projects. In this respect, ITU has around 7600 projects funded by different national research programmes since 2003.

## Areas of Activity

## Factories of the Future

- FOF-06-2017 New product functionalities through advanced surface manufacturing processes for mass production
- FOF-07-2017 Integration of unconventional technologies for multi-material processing into manufacturing systems
- FOF-08-2017 In-line measurement and control for micro-/nano-enabled high-volume manufacturing for enhanced reliability
- FOF-09-2017 Novel design and predictive maintenance technologies for increased operating life of production systems
- FOF-10-2017 New technologies and life cycle management for reconfigurable and reusable customised products
- FOF-12-2017 ICT Innovation for Manufacturing SMEs

# Smart and Sustainable Cities and Energy Efficient Buildings

## The European Green Vehicles Initiative

- GV-01-2017 Optimisation of heavy duty vehicles for alternative fuels use
- GV-04-2017 Next generation electric drivetrains for fully electric vehicles, focusing on high efficiency and low cost
- GV-05-2017 Electric vehicle user-centric design for optimised energy efficiency
- GV-06-2017 Physical integration of hybrid and electric vehicle batteries at pack level aiming at increased energy density and efficiency
- GV-07-2017 Multi-level modelling and testing of electric vehicles and their components
- GV-08-2017 Electrified urban commercial vehicles integration with fast charging infrastructure
- GV-09-2017 Aerodynamic and flexible trucks
- GV-10-2017 Demonstration (pilots) for integration of electrified L-category vehicles in the urban transport system

- EEB-05-2017 Development of near zero energy building renovation
- EEB-06-2017 Highly efficient hybrid storage solutions for power and heat in residential buildings and district areas, balancing the supply and demand conditions
- EEB-07-2017 Integration of energy harvesting at building and district level
- EEB-08-2017 New business models for energy-efficient buildings through adaptable refurbishment solutions
- EE-12-2017 Integration of Demand Response in Energy Management Systems while ensuring interoperability through Public Private Partnership
- SCC-1-2016-2017 Smart Cities and Communities lighthouse projects
- SCC-02-2016-2017 Demonstrating innovative nature-based solutions in cities
- SC5-08-2017 Large-scale demonstrators on nature-based solutions for hydro-meteorological risk reduction
- SC5-21-2017: Cultural heritage as a driver for sustainable growth (Heritage-led rural regeneration)

## **Organisation Name**

Country	Turkey
City	Istanbul
Street	Maslak
Website	
Phone	
Organisation Type	University

Person	
Name	Zuhal Er
Email	zuhaler@yahoo.com.tr
Job Position	Asist. Prof.Dr.

## **Organisation Details**

ITU Physics Engineerin Department

## Areas of Activity

Smart and Sustainable Cities and Energy Efficient Buildings

- EEB-05-2017 Development of near zero energy building renovation
- EEB-08-2017 New business models for energy-efficient buildings through adaptable refurbishment solutions

# Organisation NameCountryTurkeyCityMaslak-IstabulStreetITU Department of Electrical EngineeringWebsiteFhoneOrganisation TypeUniversity

Person	
Name	Aydogan Ozdemir
Email	ozdemiraydo@itu.edu.tr
Job Position	Academic Staff and Project
	Manager



It is a polytechnic university comprising almast all technical disciplines.

## Areas of Activity

Smart and Sustainable Cities and Energy Efficient Buildings

- EE-12-2017 Integration of Demand Response in Energy Management Systems while ensuring interoperability through Public Private Partnership
- SCC-1-2016-2017 Smart Cities and Communities lighthouse projects

## The European Green Vehicles Initiative

• GV-06-2017 Physical integration of hybrid and electric vehicle batteries at pack level aiming at increased energy density and efficiency

#### **Organisation Name**

Country	Turkey
City	Istanbul
Street	Maslak Campus
Website	www.energy.itu.edu.tr
Phone	
Organisation Type	University

Person	
Name	Hatice Sözer
Email	hsozer@hotmail.com
Job Position	Assoc. Professor

## **Organisation Details**

The Energy Institute at Istanbul Technical University is a university-based research and development organization in the broad area of energy science and engineering. It provides education, research and collaborative opportunities with partner organizations and individuals. The Institute was established in 1961 with the name of the Nuclear Energy Institute to address nuclear energy issues raised by the growing energy demand of Turkey. In 2003, the institute was renamed as the Energy Institute to form a center for advanced research into the energy aspects in a broader respect.

The Energy Institute teaching and research programs on graduate level are of an applied and interdisciplinary nature involving students, faculty, staff and off-campus persons from the fields of Science, Engineering, Architecture and Agriculture. The Institute is engaged in the collection, development, and dissemination of information and research about energy in general and sustainability for the improvement of environment quality, economics, and human life. The Energy Institute emphasizes distinguished research programs in the energy fields, complementing instruction at both graduate and undergraduate levels. It serves for identification, initiation, and execution of interdisciplinary research, policy-related studies on critical energy issues affecting Turkey, and the world.

## Areas of Activity

## Smart and Sustainable Cities and Energy Efficient Buildings

- EEB-05-2017 Development of near zero energy building renovation
- EEB-07-2017 Integration of energy harvesting at building and district level
- EEB-08-2017 New business models for energy-efficient buildings through adaptable refurbishment solutions
- SCC-1-2016-2017 Smart Cities and Communities lighthouse projects
- SCC-02-2016-2017 Demonstrating innovative nature-based solutions in cities

## **Cooperation Profiles**

**Partner:** Energy Efficient Building Design, Renewable integratiom, BIM application, retrofitting

# Istanbul Technical University, Building Materials Laboratory and Infrastructure Materials Laboratory

#### **Organisation Name**

Country	Turkey
City	Istanbul
Street	Civil Engineering Faculty Building Materials Lab. Maslak
Website	www.itu.edu.tr
Phone	
Organisation Type	University

Person	
Name	Ozgur Ekincioglu
Email	ekincioglu@itu.edu.tr
Job Position	Assist. Prof.



## **Organisation Details**

- Istanbul Technical University is an international technical university located in Istanbul, Turkey. Founded in 1773, it is the world's third oldest technical university dedicated to engineering sciences as well as social sciences, and is one of the most prominent educational institutions in Turkey.
- ITU offers 39 graduate programs at 13 faculties, 39 postgraduate and doctoral programs at 6 institutes on five different campuses, all of them located in the heart of Istanbul.
- ITU has 360 laboratories and 13 research centers. With 23 engineering programs accredited by ABET Accreditation, ITU is the world's leader among universities. Students participating in International Exchange Graduate Programs complete a part of their education at one of the partner universities in the USA and receive a dual diploma. ITU offers a number of double major programs and is the top university in Turkey providing a broad range of Erasmus exchange programs with more than 900 international agreements.
- ITU is the cradle of science, industry and technology conducting over 200 Ar-Ge projects in the scope of ARI Teknokent. In cooperation with the entrepreneurship ecosystem ITU Seed, the university provides support to students-entrepreneurs.
- Turkey's first communication satellite, first electric mini bus, first hydrogen-powered boat, first driverless car, first national computer were launched by ITU. The first television broadcast in Turkey was made from ITU, the first university radio station was opened in ITU.
- ITUNOVA TTO, the technology transfer office of Istanbul Technical University, is proud to support its academics in applying for and managing funding from national and international funding bodies as well as protecting the intellectual property resulting from their research. Further, it acts as bridge to industry whereby the resultant technologies are primed for commercialization.
- Several construction materials tests can be conducted in a 2500 m2 Construction Materials Laboratory and 500 m2 Infrastructure Materials Laboratory in Civil Engineering Faculty. The activities of the Laboratories are performed by 10 educational staff, 4 Research Assistants and PhD and MSc. researchers.

## Areas of Activity

## Smart and Sustainable Cities and Energy Efficient Buildings

- EEB-05-2017 Development of near zero energy building renovation
- EEB-07-2017 Integration of energy harvesting at building and district level

- EEB-08-2017 New business models for energy-efficient buildings through adaptable refurbishment solutions
- SCC-1-2016-2017 Smart Cities and Communities lighthouse projects
- SCC-02-2016-2017 Demonstrating innovative nature-based solutions in cities

## Turkey

# Istanbul University

# Organisation NameLargeCountryTurkeyLargeCityIstanbulLargeStreetSariyerSariyerWebsitehttp://aves.istanbul.edu.tr/zekic/O212 338 24 00Organisation TypeUniversity

Person		
Name	Zeki Candan	Large
Email	zekic@istanbul.edu.tr	
Job Position	Academician	

## **Organisation Details**

Istanbul University

Faculty of Forestry

Department of Forest Products Engineering

Sariyer, 34473, Istanbul, Turkey

## Areas of Activity

## Factories of the Future

 FOF-08-2017 In-line measurement and control for micro-/nano-enabled high-volume manufacturing for enhanced reliability

## **Cooperation Profiles**

## Partner: Nanotechnology for future green biomaterials

I have been working on nanotechnology applications on forest products. Nanotechnology offers many advantageous to develop green materials for future. Low cost, low weight, and high performance materials could be engineered by nanoscience and nanotechnology.

## Turkey

# istanbul University

Organisation Name	
Country	Turkey
City	İstanbul
Street	Avcilar Yerleskesi-Avcilar
Website	
Phone	
<b>Organisation Type</b>	University

Person	
Name	ŞAH İSMAİL KIRBAŞLAR
Email	ismailkirbaslar@gmail.com
Job Position	İSTANBUL TEKNOKENT MANAGER

## **Organisation Details**

İstanbul Teknokent has got 100 companies, all of them research company. It has got 20 start up companies.

# Kadir Has University

#### **Organisation Name**

Country	Turkey	
City	Istanbul	
Street	Kadir Has Cad Cibali	
Website	www.khas.edu.tr	
Phone		
Organisation Type	University	

Person	
Name	Gokhan Kirkil
Email	gokhan.kirkil@khas.edu.tr
Job Position	Assistant Professor

#### **Organisation Details**

KHAS Center for Energy and Sustainable Development have undergraduate and graduate programs that give special emphasis on energy science and engineering and sustainable energy management topics. Faculty members in the faculty Prof Volkan Ediger, Dr. Ahmet Yucekaya, Dr. Gokhan Kirkil, Dr. Emre Çelebi and are interested in modelling and analysis of energy systems.

Our research interest include include emission trading and markets, scheduling of fossil fuel power plants, energy economics and policy, alternative energy sources in transforming current energy infrastructure, short to long term energy resource forecasts, sustainable urban development and climate change, models of energy markets, large-scale optimization/equilibrium problems, economic analysis of energy markets, optimal control of energy infrastructure assets.

#### **Areas of Activity**

## SPIRE-Circular Economy Session

- CIRC-01-2017 Systemic, eco-innovative approaches for the circular economy large-scale demonstration projects
- CIRC-02-2017 Water in the context of the circular economy

## Factories of the Future

- FOF-07-2017 Integration of unconventional technologies for multi-material processing into manufacturing systems
- FOF-10-2017 New technologies and life cycle management for reconfigurable and reusable customised products
- FOF-12-2017 ICT Innovation for Manufacturing SMEs

# Smart and Sustainable Cities and Energy Efficient Buildings

- EEB-05-2017 Development of near zero energy building renovation
- EEB-06-2017 Highly efficient hybrid storage solutions for power and heat in residential buildings and district areas, balancing the supply and demand conditions
- EEB-07-2017 Integration of energy harvesting at building and district level
- EEB-08-2017 New business models for energy-efficient buildings through adaptable refurbishment solutions
- EE-12-2017 Integration of Demand Response in Energy Management Systems while ensuring interoperability through Public Private Partnership
- SCC-1-2016-2017 Smart Cities and Communities lighthouse projects
- SCC-02-2016-2017 Demonstrating innovative nature-based solutions in cities
- SC5-08-2017 Large-scale demonstrators on nature-based solutions for hydro-meteorological risk reduction
- SC5-21-2017: Cultural heritage as a driver for sustainable growth (Heritage-led rural regeneration)

## The European Green Vehicles Initiative

• GV-09-2017 Aerodynamic and flexible trucks

# Kadir Has University

#### **Organisation Name**

Country	Turkey	
City	Istanbul	
Street	Fatih	
Website	www.khas.edu.tr	
Phone		
Organisation Type	University	

Person	
Name	Selcuk Ogrenci
Email	ogrenci@khas.edu.tr
Job Position	Assistant Professor



## **Organisation Details**

Founded in 1997 as a private non-profit institution, Kadir Has University (KHAS) is one of the leading mid-size universities in Turkey. The university, which has six faculties and three vocational schools, is dedicated to becoming a leader in university education in Turkey and neighbouring areas. More than 5000 undergraduate students were enrolled in 2016 at twenty-nine different departments in the faculties of Engineering and Natural Sciences, Economics, Administrative and Social Sciences, Communications, Law, Art and Design, and Applied Sciences. The university also strives to link research with graduate education through its twenty Master's and eight Doctoral degree programs in the graduate schools of social sciences as well as science and engineering. As an outcome of the concrete steps taken since the strategic decision to shift its orientation from education to research was made in 2006, the university's current research portfolio boasts 151 projects of which 90 are funded by sources other than KHAS. For the last three years, the university has ranked in the top 50 universities in the University Entrepreneurship and Innovation Index List, prepared by the Turkish Ministry of Science, Industry and Technology. The university's Innovation and Technology Transfer Research and Application Center (INEO) has been awarded funding by TÜBİTAK in 2014 for capacity building.

## Areas of Activity

## Factories of the Future

 FOF-12-2017 ICT Innovation for Manufacturing SMEs

## Smart and Sustainable Cities and Energy Efficient Buildings

- EE-12-2017 Integration of Demand Response in Energy Management Systems while ensuring interoperability through Public Private Partnership
- SCC-1-2016-2017 Smart Cities and Communities lighthouse projects

## **Cooperation Profiles**

## Partner: Interest to participate in a consortium: Smart data processing for Big Data

Extensive experience in data science, computational intelligence, machine learning and paralel computing techniques to be applied at Big Data. Experience in modeling, design and development of database systems, enterprise web and mobile applications along with project management capability. Especially expertise in event or anomaly detection, IoT based data collection and processing.

# Kadir Has University Life Long Learning Center Real Estate Development Academy

#### Organisation Name

Country	Turkey
City	İstanbul
Street	Kadir Has Caddesi Cibali
Website	www.ggaistanbul.com
Phone	
Organisation Type	Consulting

Person	
Name	Hülya Uğuz Yedievli
Email	uguzyedievli@yahoo.com
Job Position	Coordinator of Real Estate
	Development Academy



## **Organisation Details**

#### Kadir Has University Life Long Learning Center Real Estate Development Academy

Turkey's real estate market continuously grows with various dynamics such as the restoration of the unqualified buildings because of the population growth and the increase in the number of the nuclear families that migrate to the cities. The sector companies are in a speedy reorganization to be able to meet the demands. Also many foreign investors and financiers come to Turkey. As demand and supply increase, the competition also increases and quality, cost, after-sales services and competent human resource become important.

The need of the real estate sector for the competent human resource is provided from different sectors. The interdisciplinary structure of the sector requires that even the highly qualified human resource to have new knowledge and qualifications.

Real Estate Development Academy is established to provide for the people who enter to the real estate sector recently to attain the competencies and aspects of the sector and enable them to be specialized; to support the professional development of the sector specialists in parallel to the changes in the market. Various activities, conferences, trainings, certificate programs and executive programs will be held within the body of the academy. Real Estate Development Academy also aims to be the meeting place and communication network of the thought leaders of the sector.

## Areas of Activity

# Smart and Sustainable Cities and Energy Efficient Buildings

- EEB-05-2017 Development of near zero energy building renovation
- EEB-06-2017 Highly efficient hybrid storage solutions for power and heat in residential buildings and district areas, balancing the supply and demand conditions
- EEB-07-2017 Integration of energy harvesting at building and district level
- EEB-08-2017 New business models for energy-efficient buildings through adaptable refurbishment solutions
- SCC-02-2016-2017 Demonstrating innovative nature-based solutions in cities
- SC5-08-2017 Large-scale demonstrators on nature-based solutions for hydro-meteorological risk

#### **Cooperation Profiles**

## Partner: Sustainable Settlements & Energy Efficient Buildings Benchmark Project

Objective: To collect "Sustainable Settlements & Energy Efficient Buildings Benchmark Data" with an economist and real estate development expert view. To make research about sustainable settlements of different countries. Expected Results: To write a book about sustainable settlements and energy efficient buildings as a following publish to my first book, Real Estate Development and Sustainability. To make an awareness about sustainable settlements in Building Sector and Building Materials Sector.

# Kahramanmaras Metropolitan Municipality

Organisation Name		
Country	Turkey	
City	Kahramanmaras	Kahramanmaraş
Street	Azerbaycan boulevard Ismetpasa neighbourhood number 25	Büyükşehir Belediyesi 🕚
Website	http://kahramanmaras.bel.tr/	
Phone	+903442284600	
Organisation Type	Authority/Government	
Person		
Name	Yavuz KAMALAK	
Email	yavuzkamalak@kahramanmaras.bel.tr	
Job Position	Manager	

## **Organisation Details**

Kahramanmaras Municipality was established in 1869 and became a Metropolitan Municipality in 2014. There are a total of 1044 personnel including 606 civil servants, 15 contracted personnel and 423 employees. Kahramanmaras Metropolitan Municipality's current organizational structure of Private Office of the General Counsel, Internal Audit Department, the Internal Audit Unit Head, Secretary General, Deputy Secretary General consist of the 15 Department and the Department depending on the Presidency 53 Branch.

Directorate of R&D and External Relation; we're intersted in EU project, IPA's project, Ministry of Development Agency project and different kinds of Essambly project. We apply some of them project that are social, women, young and smart cities. We'd like to participate some EU project that deal all smart cities project as a project partner.

## Areas of Activity

## Smart and Sustainable Cities and Energy Efficient Buildings The Europe

- EEB-05-2017 Development of near zero energy building renovation
- EEB-07-2017 Integration of energy harvesting at building and district level
- EEB-08-2017 New business models for energy-efficient buildings through adaptable refurbishment solutions
- EE-12-2017 Integration of Demand Response in Energy Management Systems while ensuring interoperability through Public Private Partnership
- SCC-1-2016-2017 Smart Cities and Communities lighthouse projects
- SC5-21-2017: Cultural heritage as a driver for sustainable growth (Heritage-led rural regeneration)

## The European Green Vehicles Initiative

- GV-04-2017 Next generation electric drivetrains for fully electric vehicles, focusing on high efficiency and low cost
- GV-08-2017 Electrified urban commercial vehicles integration with fast charging infrastructure

## **Cooperation Profiles**

## Partner: Smart Cities and sustainable transport

New transprotation systems. Smart transportation systems The Dynamic Intersection Control System (CHAOS) We take part in Project in various areas including ict, transport, energy, environment etc.

# Kale Holding

Organisation Name	
Country	Turkey
City	Levent
Street	Levent
Website	
Phone	
Organisation Type	Company
-	
Person	
Marine a	

Name	Zeynep Ozler Kıroglu
Email	zeynepozler@kale.com.tr
Job Position	Corporate Communication Manager

## **Organisation Details**

Major area of operation is ceramics also operates in building materials, energy, defense and aviation.

# Kale Holding A.Ş.

#### **Organisation Name**

Country	Turkey
City	İstanbul
Street	Büyükdere Cad. Kaleseramik Binası Levent
Website	http://www.kale.com.tr/
Phone	
Organisation Type	Company

Kale

Person		
Name	Oğuzhan Özçoban	
Email	oguzhanozcoban@kale.com.tr	
Job Position	Corporate Strategy and Busi- ness Development Manager	

#### **Organisation Details**

Kale Holding comprises 17 industrial companies which operate in Ceramics, Building Materials, Chemicals, Mining, Transportation, Aerospace and Defense industries.

Revenues over 600 m USD. Employees 4.500+.

#### **Areas of Activity**

## **SPIRE-Circular Economy Session**

• SPIRE-07-2017 Integrated approach to process optimisation for raw material resources efficiency, excluding recovery technologies of waste streams

## Factories of the Future

- FOF-06-2017 New product functionalities through advanced surface manufacturing processes for mass production
- FOF-07-2017 Integration of unconventional technologies for multi-material processing into manufacturing systems
- FOF-08-2017 In-line measurement and control for micro-/nano-enabled high-volume manufacturing for enhanced reliability

# Smart and Sustainable Cities and Energy Efficient Buildings

- EEB-06-2017 Highly efficient hybrid storage solutions for power and heat in residential buildings and district areas, balancing the supply and demand conditions
- EEB-08-2017 New business models for energyefficient buildings through adaptable refurbishment solutions

## The European Green Vehicles Initiative

- GV-04-2017 Next generation electric drivetrains for fully electric vehicles, focusing on high efficiency and low cost
- GV-05-2017 Electric vehicle user-centric design for optimised energy efficiency

## **Cooperation Profiles**

## Partner: Applications of Construction Chemicals in Smart Cities

I am interested in new applications of construction chemicals in new buildings.

## Partner: Applications of Ceramic Tiles in Smart Cities

I am interested in how ceramic tiles can be useful in smart houses. For example, smart ceramic applications, ceramic tiles with data collection capabilities by the use of sensors and etc.

# Kanca Dövme Çelik A.Ş.

#### **Organisation Name**

Country	Turkey
City	Kocaeli
Street	TOSB 1cd.
Website	www.kanca.com.tr
Phone	
Organisation Type	Company

Person		
Name	Ali Mamedov	Large
Email	ali.mamedov@kanca.com.tr	
Job Position	R&D Engineer	

#### **Organisation Details**

When you need a reliable long term partner for your forging solutions, KANCA offers a wide range of products, providing satisfaction in quality, logistics, work ethics, costs and sustainability.

KANCA began production of hand tools in the early 1960s as a family owned company with a workforce of just 20. A short time later, as the quality of the products was well accepted by the market, the range expanded to cover a very extensive spectrum of hand tools.

A new plant of 15.000 m2 was constructed and began operation in 1974 where the expanded and modernized forging lines made it also possible to supply high quality forged parts to other industries.

Starting from 1980s, the demand from the automotive industry had lead the way to further increase the production capacity of forged parts and supply higher quality parts to local OEMs, those times Fiat, Mercedes, Iveco, Ford and Renault.

During the 1990s, KANCA had become a reliable partner and indispensable source of supply to dozens of customers in the passenger, commercial and agricultural vehicles, defense and construction industries.

A new cold forging line, started in 1997, had enabled KANCA to provide even wider range for metal forming, which was served also as a know-how base for warm forging sector.

Having all the necessary facilities such as product and tool design, production, forging, heat treatment and machining under the same roof, KANCA has proven to be a single point of supply, expending with further customers like VW Group, BMW, Toyota, TRW, Delphi, Bosch, ZF, Scania and many others, those rely upon the renowned quality of KAN-CA.

Working 30 years at this location, it was no more possible to enlarge physically and in 2004, KANCA constructed at the east border of Istanbul, a brand new 55.000 m2 forging plant, of that 25.000 m2 closed. This new location was inside of TAYSAD industrial area, where Mr. Kanca made significant contributions, with a group of volunteer colleagues from the automotive industry, transferring this land of meadows into a one of the most industrialized and effective industrial zones in Turkey.

In 2009, warm forging has been established, proving parts to the diesel industry, which brought a new and alternative perspective to KANCA, with relatively smaller parts but enormous volumes. It was time in 2010, to gather the engineering competence in metal forming, machining, metallurgy and design, under the same roof. KANCA established the first Research and Development centre in hot forging field in Turkey.

Short time later, increased KANCA its production capacity with new investments, implementing automations, installing modern laboratory and inspection equipment. So today through modern QA techniques and the certifications according to ISO TS 16949, ISO 14001, KANCA is one the leading forging companies in Turkey, not only supplying parts to its customers, but also the long term reliability & satisfaction and strong financial background. KANCA produces today nearly 30.000 tons of forged products annually and exporting more than half of its turnover to EU.

## **Areas of Activity**

#### **Factories of the Future**

• FOF-07-2017 Integration of unconventional technologies for multi-material processing into manufacturing systems

#### **Cooperation Profiles**

## **Coordinator:** Integration of unconventional technologies for multi-material processing into manufacturing systems

KANCA Forging Inc. is pleased to propose a project on "Integration of unconventional technologies for multi-material processing into manufacturing systems". KANCA as a major forging company in Turkey attaches a high importance to develop an efficient die manufacturing technology, which will ensure extended service life. We are looking for the EU organizations that can participate in development of proposed technology and investigation of posterior processes in order to further improve die characteristics.

# Karabuk University

# Organisation NameCountryTurkeyCityKarabükStreetDemir Çelik KampüsüWebsitewww.karabuk.edu.trPhoneUniversity

Person		
Name	Raif BAYIR	Large
Email	rbayir@karabuk.edu.tr	
Job Position	Researchers & Advisor	

## **Organisation Details**

We are study electric vehicles and technogies. Also devoloped small size battery electric car.

## Areas of Activity

## The European Green Vehicles Initiative

- GV-04-2017 Next generation electric drivetrains for fully electric vehicles, focusing on high efficiency and low cost
- GV-05-2017 Electric vehicle user-centric design for optimised energy efficiency
- GV-07-2017 Multi-level modelling and testing of electric vehicles and their components

#### **Cooperation Profiles**

## Partner: Electric Vehicles

Research and develop for Battery electric vehicle and technology

# Karma Danışmanlık Bilgisayar Ltd.

#### **Organisation Name**

Country	Turkey
City	İzmir
Street	Yalı Caddesi
Website	
Phone	
Organisation Type	Company

Person	
Name	Gökhan Dogu
Email	gokhan@karmayazilim.com
Job Position	Project Manager

## **Organisation Details**

An industrial software company in which its main areas of activity are energy, chemical and manufacturing industries. The main goal is to build an infrastructure for industrial premises to have a reliable, continious data from sources. We believe the real time data and its usage method will transform the world.

## Areas of Activity

## Factories of the Future

- FOF-06-2017 New product functionalities through advanced surface manufacturing processes for mass production
- FOF-07-2017 Integration of unconventional technologies for multi-material processing into manufacturing systems
- FOF-12-2017 ICT Innovation for Manufacturing SMEs

## Smart and Sustainable Cities and Energy Efficient Buildings

• EE-12-2017 Integration of Demand Response in Energy Management Systems while ensuring interoperability through Public Private Partnership

# KARTEK KART VE BILISIM TEKNOLOJILERI TIC. A.S.

Organisation Name

Turkey
ISTANBUL
KATAR CADDESI
www.cardtek.com
Company

Person	
Name	OZGUN ALGIN
Email	ozgun.algin@cardtek.com
Job Position	R&D DIRECTOR

## **Organisation Details**

**Cardtek** is founded in 2001 to meet the growing demand in chip and payment technologies mandated by EMV standards.

The founders of the group are still actively involved in the executive management which makes the group a private, management-owned organization.

Up until last decade, the payment system was a linear industry; managed, operated and regulated by banking and financial institutions. But today, it is a vertical market where mobile network operators, retailers, governments and municipalities are also very strong players on top of banks and financial institutions. Surrounding all this ecosystem, Cardtek becomes a unique example in the payment systems with its highly professional and awarded management philosophy, emphasis on R&D, 360 degrees solutions / product family, 300+ installations and fully dedicated, high caliber, 300+ employees.

Cardtek together with its international affiliates is directly operating from 5 different countries; USA, Canada, Turkey, United Arab Emirates and Azerbaijan.

**Cardtek Payment Solutions**, flagship of Cardtek, was established in 2001 to fulfill the payment system requirements based on chip technologies providing complete payment processing solutions including acquiring, switching, issuing and card management, fraud detection and prevention, loyalty, transit, instant, mass card personalization and terminal & card kernel solutions.

With a focus on payment systems, Cardtek Payment Solutions became one of the leading solution providers serving largest banks, retailers, government and manufacturers in 30+ countries through 90+ partners and resellers. Cardtek Payment Solutions' solutions are fully compliant and certified by global authorities.

Being one of the five MasterCard accredited companies globally in 2010, Cardtek Payment Solutions provides EMV training and consultancy services to the payment systems industry.

**Cardtek Hardware Solutions** was established in 2009 to provide innovative hardware solutions to the market. Specialized in POS Networking to offer high performance in transaction management and data transmission, Cardtek Hardware Solutions became one of the leading solution providers in the payment system industry.

The recently announced ManageATM solution is well accepted for remote management of ATM, Kiosk terminals and data centers. Collecting physical environment statistics in order to use in taking corrective and preventive actions, the system aims to decrease field support service and timing cost and increase availability and efficiency.

Cardtek Payment Processing Services, third party processing company of Cardtek, is a leading global provider of

payment processing services for financial institutions, mobile payment and money transfer services for mobile network operators and issuer banks, public transportation services for municipalities, loyalty services for retail market. The critical role of acquiring ECR/POS transactions and routing the transactions to issuer banks and Ministry of Finance in real time, makes Cardtek Payment Processing Services a unique example worldwide.

Cardtek Payment Processing Services has received ISO, PCI DSS and MasterCard MSP certificates related to transaction processing information security, business sustainability, operation service management and disaster recovery.

In line with group's global growth strategy, Cardtek established its USA office in 2010 and started offering its high quality products and solutions in US and Canada. The group aims to play a major role in the migration to EMV in North America which will soon be followed by mobile and digital convergence deployments. Some of the key accounts are FIS, one of the largest processing companies in States; Everlink, one of the leading processing companies in Canada and IPS (used Cardtek's solutions for personalizing Google Wallet Cards).

**Cardtek Mobile & EMV Solutions**, with the help of 14 years of Cardtek's experience in payment systems, is positioned to provide nascent technologies in mobile industry to establish payment infrastructures covering, mobile financial services, TSM (provisioning and life cycle management of any types of secure elements), mobile loyalty, mobile wallet and NFC.

Cardtek Mobile & EMV Solutions provides mobile payment solutions and services for 10+ MNOs and 30+ Service Providers in 6 countries. Some of the key accounts are T-Mobile, Vodafone, Trevica (a third party processing company owned by MasterCard), Orange, Turkcell, SSB SIA, YKB (UniCredit Group), DenizBank (Sberbank), Samsung SEAP.

#### **Areas of Activity**

#### Factories of the Future

 FOF-12-2017 ICT Innovation for Manufacturing SMEs

## Smart and Sustainable Cities and Energy Efficient Buildings

- EEB-07-2017 Integration of energy harvesting at building and district level
- EE-12-2017 Integration of Demand Response in Energy Management Systems while ensuring interoperability through Public Private Partnership
- SCC-1-2016-2017 Smart Cities and Communities lighthouse projects
- SCC-02-2016-2017 Demonstrating innovative nature-based solutions in cities

# KARTEK KART VE BILISIM TEKNOLOJILERI TIC. A.S.

Organisation Name

Country	Turkey
City	ISTANBUL
Street	KATAR CADDESI
Website	www.cardtek.com
Phone	
Organisation Type	Company

Person	
Name	SINEM ALTUNCU
Email	sinem.altuncu@cardtek.com
Job Position	CHIEF FINANCIAL OFFICER

## **Organisation Details**

**Cardtek** is founded in 2001 to meet the growing demand in chip and payment technologies mandated by EMV standards.

The founders of the group are still actively involved in the executive management which makes the group a private, management-owned organization.

Up until last decade, the payment system was a linear industry; managed, operated and regulated by banking and financial institutions. But today, it is a vertical market where mobile network operators, retailers, governments and municipalities are also very strong players on top of banks and financial institutions. Surrounding all this ecosystem, Cardtek becomes a unique example in the payment systems with its highly professional and awarded management philosophy, emphasis on R&D, 360 degrees solutions / product family, 300+ installations and fully dedicated, high caliber, 300+ employees.

Cardtek together with its international affiliates is directly operating from 5 different countries; USA, Canada, Turkey, United Arab Emirates and Azerbaijan.

**Cardtek Payment Solutions**, flagship of Cardtek, was established in 2001 to fulfill the payment system requirements based on chip technologies providing complete payment processing solutions including acquiring, switching, issuing and card management, fraud detection and prevention, loyalty, transit, instant, mass card personalization and terminal & card kernel solutions.

With a focus on payment systems, Cardtek Payment Solutions became one of the leading solution providers serving largest banks, retailers, government and manufacturers in 30+ countries through 90+ partners and resellers. Cardtek Payment Solutions' solutions are fully compliant and certified by global authorities.

Being one of the five MasterCard accredited companies globally in 2010, Cardtek Payment Solutions provides EMV training and consultancy services to the payment systems industry.

**Cardtek Hardware Solutions** was established in 2009 to provide innovative hardware solutions to the market. Specialized in POS Networking to offer high performance in transaction management and data transmission, Cardtek Hardware Solutions became one of the leading solution providers in the payment system industry.

The recently announced ManageATM solution is well accepted for remote management of ATM, Kiosk terminals and data centers. Collecting physical environment statistics in order to use in taking corrective and preventive actions, the system aims to decrease field support service and timing cost and increase availability and efficiency.

Cardtek Payment Processing Services, third party processing company of Cardtek, is a leading global provider of

payment processing services for financial institutions, mobile payment and money transfer services for mobile network operators and issuer banks, public transportation services for municipalities, loyalty services for retail market. The critical role of acquiring ECR/POS transactions and routing the transactions to issuer banks and Ministry of Finance in real time, makes Cardtek Payment Processing Services a unique example worldwide.

Cardtek Payment Processing Services has received ISO, PCI DSS and MasterCard MSP certificates related to transaction processing information security, business sustainability, operation service management and disaster recovery.

In line with group's global growth strategy, Cardtek established its USA office in 2010 and started offering its high quality products and solutions in US and Canada. The group aims to play a major role in the migration to EMV in North America which will soon be followed by mobile and digital convergence deployments. Some of the key accounts are FIS, one of the largest processing companies in States; Everlink, one of the leading processing companies in Canada and IPS (used Cardtek's solutions for personalizing Google Wallet Cards).

**Cardtek Mobile & EMV Solutions**, with the help of 14 years of Cardtek's experience in payment systems, is positioned to provide nascent technologies in mobile industry to establish payment infrastructures covering, mobile financial services, TSM (provisioning and life cycle management of any types of secure elements), mobile loyalty, mobile wallet and NFC.

Cardtek Mobile & EMV Solutions provides mobile payment solutions and services for 10+ MNOs and 30+ Service Providers in 6 countries. Some of the key accounts are T-Mobile, Vodafone, Trevica (a third party processing company owned by MasterCard), Orange, Turkcell, SSB SIA, YKB (UniCredit Group), DenizBank (Sberbank), Samsung SEAP.

#### **Areas of Activity**

#### Factories of the Future

• FOF-12-2017 ICT Innovation for Manufacturing SMEs

## Smart and Sustainable Cities and Energy Efficient Buildings

- EEB-05-2017 Development of near zero energy building renovation
- EEB-07-2017 Integration of energy harvesting at building and district level
- EEB-08-2017 New business models for energy-efficient buildings through adaptable refurbishment solutions
- SCC-1-2016-2017 Smart Cities and Communities lighthouse projects
- SCC-02-2016-2017 Demonstrating innovative nature-based solutions in cities

# KARTEK KART VE BILISIM TEKNOLOJILERI TIC. A.S.

Organisation Name

Country	Turkey
City	ISTANBUL
Street	KATAR CADDESI
Website	www.cardtek.com
Phone	
Organisation Type	Company

Person	
Name	OZAN ILHAN
Email	ozan.ilhan@cardtek.com
Job Position	INVESTMENT PROJECTS AS-
	SISTANT SPECIALIST

## **Organisation Details**

**Cardtek** is founded in 2001 to meet the growing demand in chip and payment technologies mandated by EMV standards.

The founders of the group are still actively involved in the executive management which makes the group a private, management-owned organization.

Up until last decade, the payment system was a linear industry; managed, operated and regulated by banking and financial institutions. But today, it is a vertical market where mobile network operators, retailers, governments and municipalities are also very strong players on top of banks and financial institutions. Surrounding all this ecosystem, Cardtek becomes a unique example in the payment systems with its highly professional and awarded management philosophy, emphasis on R&D, 360 degrees solutions / product family, 300+ installations and fully dedicated, high caliber, 300+ employees.

Cardtek together with its international affiliates is directly operating from 5 different countries; USA, Canada, Turkey, United Arab Emirates and Azerbaijan.

**Cardtek Payment Solutions**, flagship of Cardtek, was established in 2001 to fulfill the payment system requirements based on chip technologies providing complete payment processing solutions including acquiring, switching, issuing and card management, fraud detection and prevention, loyalty, transit, instant, mass card personalization and terminal & card kernel solutions.

With a focus on payment systems, Cardtek Payment Solutions became one of the leading solution providers serving largest banks, retailers, government and manufacturers in 30+ countries through 90+ partners and resellers. Cardtek Payment Solutions' solutions are fully compliant and certified by global authorities.

Being one of the five MasterCard accredited companies globally in 2010, Cardtek Payment Solutions provides EMV training and consultancy services to the payment systems industry.

**Cardtek Hardware Solutions** was established in 2009 to provide innovative hardware solutions to the market. Specialized in POS Networking to offer high performance in transaction management and data transmission, Cardtek Hardware Solutions became one of the leading solution providers in the payment system industry.

The recently announced ManageATM solution is well accepted for remote management of ATM, Kiosk terminals and data centers. Collecting physical environment statistics in order to use in taking corrective and preventive actions, the system aims to decrease field support service and timing cost and increase availability and efficiency.

**Cardtek Payment Processing Services**, third party processing company of Cardtek, is a leading global provider of payment processing services for financial institutions, mobile payment and money transfer services for mobile network operators and issuer banks, public transportation services for municipalities, loyalty services for retail market. The critical role of acquiring ECR/POS transactions and routing the transactions to issuer banks and Ministry of Finance in real time, makes Cardtek Payment Processing Services a unique example worldwide.

Cardtek Payment Processing Services has received ISO, PCI DSS and MasterCard MSP certificates related to transaction processing information security, business sustainability, operation service management and disaster recovery.

In line with group's global growth strategy, Cardtek established its USA office in 2010 and started offering its high quality products and solutions in US and Canada. The group aims to play a major role in the migration to EMV in North America which will soon be followed by mobile and digital convergence deployments. Some of the key accounts are FIS, one of the largest processing companies in States; Everlink, one of the leading processing companies in Canada and IPS (used Cardtek's solutions for personalizing Google Wallet Cards).

**Cardtek Mobile & EMV Solutions**, with the help of 14 years of Cardtek's experience in payment systems, is positioned to provide nascent technologies in mobile industry to establish payment infrastructures covering, mobile financial services, TSM (provisioning and life cycle management of any types of secure elements), mobile loyalty, mobile wallet and NFC.

Cardtek Mobile & EMV Solutions provides mobile payment solutions and services for 10+ MNOs and 30+ Service Providers in 6 countries. Some of the key accounts are T-Mobile, Vodafone, Trevica (a third party processing company owned by MasterCard), Orange, Turkcell, SSB SIA, YKB (UniCredit Group), DenizBank (Sberbank), Samsung SEAP.

## Areas of Activity

## Factories of the Future

 FOF-12-2017 ICT Innovation for Manufacturing SMEs

# Smart and Sustainable Cities and Energy Efficient Buildings

- EE-12-2017 Integration of Demand Response in Energy Management Systems while ensuring interoperability through Public Private Partnership
- SCC-1-2016-2017 Smart Cities and Communities lighthouse projects
- SCC-02-2016-2017 Demonstrating innovative nature-based solutions in cities

# KARTEK KART VE BILISIM TEKNOLOJILERI TIC. A.S.

Organisation Name

Country	Turkey
City	ISTANBUL
Street	KATAR CADDESI
Website	www.cardtek.com
Phone	
Organisation Type	Company

Person	
Name	HACER TASOLUK
Email	hacer.tasoluk@cardtek.com
Job Position	INVESTMENT PROJECTS SU-
	PERVISOR

## **Organisation Details**

**Cardtek** is founded in 2001 to meet the growing demand in chip and payment technologies mandated by EMV standards.

The founders of the group are still actively involved in the executive management which makes the group a private, management-owned organization.

Up until last decade, the payment system was a linear industry; managed, operated and regulated by banking and financial institutions. But today, it is a vertical market where mobile network operators, retailers, governments and municipalities are also very strong players on top of banks and financial institutions. Surrounding all this ecosystem, Cardtek becomes a unique example in the payment systems with its highly professional and awarded management philosophy, emphasis on R&D, 360 degrees solutions / product family, 300+ installations and fully dedicated, high caliber, 300+ employees.

Cardtek together with its international affiliates is directly operating from 5 different countries; USA, Canada, Turkey, United Arab Emirates and Azerbaijan.

**Cardtek Payment Solutions**, flagship of Cardtek, was established in 2001 to fulfill the payment system requirements based on chip technologies providing complete payment processing solutions including acquiring, switching, issuing and card management, fraud detection and prevention, loyalty, transit, instant, mass card personalization and terminal & card kernel solutions.

With a focus on payment systems, Cardtek Payment Solutions became one of the leading solution providers serving largest banks, retailers, government and manufacturers in 30+ countries through 90+ partners and resellers. Cardtek Payment Solutions' solutions are fully compliant and certified by global authorities.

Being one of the five MasterCard accredited companies globally in 2010, Cardtek Payment Solutions provides EMV training and consultancy services to the payment systems industry.

**Cardtek Hardware Solutions** was established in 2009 to provide innovative hardware solutions to the market. Specialized in POS Networking to offer high performance in transaction management and data transmission, Cardtek Hardware Solutions became one of the leading solution providers in the payment system industry.

The recently announced ManageATM solution is well accepted for remote management of ATM, Kiosk terminals and data centers. Collecting physical environment statistics in order to use in taking corrective and preventive actions, the system aims to decrease field support service and timing cost and increase availability and efficiency.

**Cardtek Payment Processing Services**, third party processing company of Cardtek, is a leading global provider of payment processing services for financial institutions, mobile payment and money transfer services for mobile network operators and issuer banks, public transportation services for municipalities, loyalty services for retail market. The critical role of acquiring ECR/POS transactions and routing the transactions to issuer banks and Ministry of Finance in real time, makes Cardtek Payment Processing Services a unique example worldwide.

Cardtek Payment Processing Services has received ISO, PCI DSS and MasterCard MSP certificates related to transaction processing information security, business sustainability, operation service management and disaster recovery.

In line with group's global growth strategy, Cardtek established its USA office in 2010 and started offering its high quality products and solutions in US and Canada. The group aims to play a major role in the migration to EMV in North America which will soon be followed by mobile and digital convergence deployments. Some of the key accounts are FIS, one of the largest processing companies in States; Everlink, one of the leading processing companies in Canada and IPS (used Cardtek's solutions for personalizing Google Wallet Cards).

**Cardtek Mobile & EMV Solutions**, with the help of 14 years of Cardtek's experience in payment systems, is positioned to provide nascent technologies in mobile industry to establish payment infrastructures covering, mobile financial services, TSM (provisioning and life cycle management of any types of secure elements), mobile loyalty, mobile wallet and NFC.

Cardtek Mobile & EMV Solutions provides mobile payment solutions and services for 10+ MNOs and 30+ Service Providers in 6 countries. Some of the key accounts are T-Mobile, Vodafone, Trevica (a third party processing company owned by MasterCard), Orange, Turkcell, SSB SIA, YKB (UniCredit Group), DenizBank (Sberbank), Samsung SEAP.

## Areas of Activity

Factories of the Future

 FOF-12-2017 ICT Innovation for Manufacturing SMEs

# Smart and Sustainable Cities and Energy Efficient Buildings

- EEB-07-2017 Integration of energy harvesting at building and district level
- EE-12-2017 Integration of Demand Response in Energy Management Systems while ensuring interoperability through Public Private Partnership
- SCC-1-2016-2017 Smart Cities and Communities lighthouse projects
- SCC-02-2016-2017 Demonstrating innovative nature-based solutions in cities

# Kastamonu Entegre

Organisation Name	
Country	Turkey
City	İstanbul
Street	Mahir İz Cad.
Website	www.keas.com.tr
Phone	
Organisation Type	Company

Person		
Name	Hüseyin METİN	Large
Email	hmetin@keas.com.tr	
Job Position	Business Development	

## **Organisation Details**

In 7 factories in Turkey, 2 in Romania, 1 in Bulgaria, 1 in Bosnia Herzegovina and 2 in Russia, KEAS is producing particleboard, MDF, laminate flooring, melamine faced boards, worktops and doorskins.

With its total production capacity 5.000.000/m3 KEAS is worlds 7th, EU's 4th biggest wood based panel manufacturer. Our 2015 turnover of 1.2 billion \$"

## Kastamonu Entegre Company Video: https://www.youtube.com/watch?v=Y9nbeOB82Jc

## Areas of Activity

## SPIRE-Circular Economy Session

- SPIRE-07-2017 Integrated approach to process optimisation for raw material resources efficiency, excluding recovery technologies of waste streams
- SPIRE-09-2017 Pilot lines based on more flexible and down-scaled high performance processing
- SPIRE-10-2017 New electrochemical solutions for industrial processing, which contribute to a reduction of carbon dioxide emissions
- SPIRE-12-2017 Assessment of standardisation needs and ways to overcome regulatory bottlenecks in the process industry
- CIRC-01-2017 Systemic, eco-innovative approaches for the circular economy large-scale demonstration projects
- EE-17-2016-2017 Valorisation of waste heat in industrial systems

## Factories of the Future

- FOF-06-2017 New product functionalities through advanced surface manufacturing processes for mass production
- FOF-07-2017 Integration of unconventional technologies for multi-material processing into manufacturing systems
- FOF-08-2017 In-line measurement and control for micro-/nano-enabled high-volume manufacturing for enhanced reliability
- FOF-09-2017 Novel design and predictive maintenance technologies for increased operating life of production systems
- FOF-10-2017 New technologies and life cycle management for reconfigurable and reusable customised products
- FOF-12-2017 ICT Innovation for Manufacturing SMEs

## **Cooperation Profiles**

## Partner: KASTAMONU ENTEGRE

We are interested in SPIRE and Factories of the Future Calls. Previously we took part in WASTE-6a-2015 and CIRC-01-2016-2017 topics. We have 14 production lines in 5 different countries. We are interested in eco-innovative products, circular economy, energy efficiency and next generation gluing technologies. We would like to take part as a demonstration partner in those projects.

# Kocaeli University

Organisation Name		
Country	Turkey	
City	Kocaeli	
Street	Umuttepe Campus	
Website		
Phone		
Organisation Type	University	

Feriha ERFAN KUYUMCU
erfan@kocaeli.edu.tr
Academic Stuff



## **Organisation Details**

Kocaeli University, Deparment of Electrical Engineering, Theoretical and practise studies on electrical machinery and their design on electrical vehicles, power electronics and control.

## Areas of Activity

## The European Green Vehicles Initiative

- GV-04-2017 Next generation electric drivetrains for fully electric vehicles, focusing on high efficiency and low cost
- GV-07-2017 Multi-level modelling and testing of electric vehicles and their components

#### **Cooperation Profiles**

# **Partner:** Design and analyze of electrical machines (especially PMDC, Reluctance Machines, PMSM) for electrical vehicles

Our working experiences; Outer rotor reluctance machine design in-wheel drives, Robust and adaptive high performance control of PMSM, Brushed DC Alternator Design for vehicles.

# Kocaeli University

Organisation Name	
Country	Turkey
City	Kocaeli
Street	Umuttepe Campus
Website	
Phone	
Organisation Type	University

Person	
Name	Fuat Kilic
Email	fuat.kilic1@kocaeli.edu.tr
Job Position	Researcher

## **Organisation Details**

Kocaeli University, Deparment of Electrical Engineering, Theoretical and practise studies on electrical machinery and their design on electrical vehicles, power electronics and control.

## Areas of Activity

## The European Green Vehicles Initiative

- GV-04-2017 Next generation electric drivetrains for fully electric vehicles, focusing on high efficiency and low cost
- GV-07-2017 Multi-level modelling and testing of electric vehicles and their components

## **KOD'ECO Design & Engineering**

Organisation Name	
Country	Turkey
City	İzmir
Street	Dokuz Eylül Teknopark Mithatpaşa Cad. No:56/20 DEPARK Zeytin Binası B05/A Balçova
Website	www.kodeco.com.tr
Phone	
Organisation Type	SME
Person	

i ei son	
Name	Kerem Odabasi
Email	k.odabasi@kodeco.com.tr
Job Position	Managing Director



#### **Organisation Details**

The Company's main focus is renewable energy and smart solutions for mobility and transportation. We design, engineer and prototype products and develop the idea ready for volume manufacturing. ECOtour is the company's first released product. It is a three wheeler vehicle and it can run with solar power only. Our R&D team has been working for a new four wheel electric model which will have a smart energy managment system and flexible modular stracture.

Specialties: Light Weight Vehicle Design, Product Design, Electronics & Smart Systems, Photovoltaics, Prototyping, Sustainable Design

#### Areas of Activity

#### The European Green Vehicles Initiative

- GV-05-2017 Electric vehicle user-centric design for optimised energy efficiency
- GV-10-2017 Demonstration (pilots) for integration of electrified L-category vehicles in the urban transport system

#### **Cooperation Profiles**

## Partner: Industrial Design - Smart Systems

Skills of you and your organisation Bsc. Control & Computer Engineering (Istanbul Technical University - Turkey / Alumni 2002) Msc. Design for Product Interaction (Delft University of Technology - Industrial Design Faculty - Holland / Alumni 2006) Phd. Renewable Energy Technology (Ege University, Solar Energy Institute - Turkey / Expected 2017) Our team key skills such as; Conceptualization, Visualization, product/Industrial design, Embedded Systems, Control Systems, Photovoltaic-Vehicle integration, Rapid Prototyping Topics you are interested in from 2017 Transport Call GV-10-2017: Demonstration (pilots) for integration of electrified L-category vehicles in the urban transport system GV-05-2017: Electric vehicle user-centric design for optimised energy efficiency GV-07-2017: Multi-level modelling and testing of electric vehicles and their components Involvement in previous / on-going projects in the area We are looking forward to involve in for 2017. Our project "solar powered ultra light weight vehicle" were subsidenced by TUBİTAK (In Turkey),

## Konya Food and Agriculture University

#### **Organisation Name**

Country	Turkey
City Konya	
Street Beyşehir Cad. No	
Website gidatarim.edu.t	
Phone	
Organisation Type	University

Person	
Name	Levent Aksoy
Email	levent.aksoy@gidatarim.edu.tr
Job Position	Manager, Center for Continu- ing Education

#### **Organisation Details**

Unversity specialized in food and agriculture.

#### **Areas of Activity**

#### SPIRE-Circular Economy Session

- SPIRE-07-2017 Integrated approach to process optimisation for raw material resources efficiency, excluding recovery technologies of waste streams
- CIRC-02-2017 Water in the context of the circular economy
- EE-17-2016-2017 Valorisation of waste heat in industrial systems

#### Factories of the Future

- FOF-09-2017 Novel design and predictive maintenance technologies for increased operating life of production systems
- FOF-12-2017 ICT Innovation for Manufacturing SMEs

# Smart and Sustainable Cities and Energy Efficient Buildings

- EEB-06-2017 Highly efficient hybrid storage solutions for power and heat in residential buildings and district areas, balancing the supply and demand conditions
- SCC-02-2016-2017 Demonstrating innovative nature-based solutions in cities
- SC5-08-2017 Large-scale demonstrators on nature-based solutions for hydro-meteorological risk reduction
- SC5-21-2017: Cultural heritage as a driver for sustainable growth (Heritage-led rural regeneration)

#### The European Green Vehicles Initiative

- GV-01-2017 Optimisation of heavy duty vehicles for alternative fuels use
- GV-04-2017 Next generation electric drivetrains for fully electric vehicles, focusing on high efficiency and low cost
- GV-05-2017 Electric vehicle user-centric design for optimised energy efficiency
- GV-06-2017 Physical integration of hybrid and electric vehicle batteries at pack level aiming at increased energy density and efficiency
- GV-07-2017 Multi-level modelling and testing of electric vehicles and their components
- GV-08-2017 Electrified urban commercial vehicles integration with fast charging infrastructure

## Coordinator: Electric semi-trailer

Battery technologies are still far behind the energy requirements of heavy transportation. However huge fossil fuel savings would be possible if semi trailers powered with electric motors creating an overall hybrid vehicle. Electric motors will provide support when accelerating and/or going uphill, reducing the power requirements of the semi truck engine - thus increasing fuel efficiency. Electric propulsion might also eliminate the need for a truck within the facility. The project is limited to developing a prototype to demonstrate fuel savings.

# Korgün Yazılım

. .. ..

Organisation Name	
Country	Turkey
City	İstanbul
Street	Tarabya
Website	www.korgun.com.tr
Phone	
Organisation Type	SME

Person	
Name	zeynep tulan
Email	turkyilmaz.suheyla@gmail.com
Job Position	Financial Analyst

#### **Organisation Details**

Korgün, which has been developing software for manufacturing systems (such as MRP) since 1992, also started to develop software for retailing and the logistics for the aim of solving supply chain management related problems of SMEs.

In a changing World, Korgün Software, which foresees the reverberation of manufacturing/supplying technics, competition through the SMEs, produced the ERP software solutions in order to meet the requirements of Enterprise Resource Planning concept for the real economy.

Today, Korgün is developing not only special software for manufacturing and supplying companies that aim to succeed within today's competing environment but also developing mobile solutions, geographical location based softwares, los-Android based applications, embedded softwares, which can also be used personally in the market and Korgün is proud of developing all of these solutions.

#### Areas of Activity

#### SPIRE-Circular Economy Session

- SPIRE-09-2017 Pilot lines based on more flexible and down-scaled high performance processing
- CIRC-01-2017 Systemic, eco-innovative approaches for the circular economy large-scale demonstration projects
- CIRC-02-2017 Water in the context of the circular economy
- EE-17-2016-2017 Valorisation of waste heat in industrial systems
- SPIRE-13-2017 Potential of Industrial Symbiosis in Europe

#### **Factories of the Future**

- FOF-06-2017 New product functionalities through advanced surface manufacturing processes for mass production
- FOF-07-2017 Integration of unconventional technologies for multi-material processing into manufacturing systems
- FOF-08-2017 In-line measurement and control for micro-/nano-enabled high-volume manufacturing for enhanced reliability
- FOF-10-2017 New technologies and life cycle management for reconfigurable and reusable customised products
- FOF-12-2017 ICT Innovation for Manufacturing SMEs

#### **Cooperation Profiles**

## **Partner:** Development of a Different Retailing in the Retail-D2R2

D2R2 is an innovative platform developed for feasible multilevel store management that aims to meet end-users' requirements efficiently by using relevant neuroscience technics in decision making. Contribution to energy and cost saving is one of the most important aims of the platform.

# Korgün Yazılım

Organisation Name		
Country	Turkey	
City	İstanbul	
Street	Cumhuriyet Mah. Arabayolu Cad. Dönence Sok. No: 19 Hacıosman,Tarabya	
Website		
Phone		
Organisation Type	SME	
Person		
Name	süheyla türkyılmaz	
Email	suheyla.turkyilmaz@korgun.com.tr	
Job Position	Head of the Department	

#### **Organisation Details**

Korgün Software, which is one of the first national software companies was established in 1992. Korgün has been developing software software for retailing and the logistics for the aim of solving supply chain management related problems of SMEs. We are also developing our solutions by using cloud computing technology. In order to optimize the systems and the solutions, operating system level virtualization is very important for us. For example, it is possible to run multiple operating systems on a singlepieceofhardware. We are also very good at the development of many value added developed on mobile platforms both on IOS or Android.

Recently, we have completed an R&D Project related to better management of a specific sector's supply chain management. We are also a partner of a large scale HRM project for improving solutions about mobile and the cloud. Another international project about the Mining has been already approved and we are waiting for another country's official approval. Recently, we have submitted to a project (D2R2) to itea and another one about artificial intelligence to Tübitak. Please visit our website for detailed information (www.korgun.com.tr).

#### Areas of Activity

#### SPIRE-Circular Economy Session

SPIRE-13-2017 Potential of Industrial Symbiosis in Europe

#### Factories of the Future

• FOF-12-2017 ICT Innovation for Manufacturing SMEs

# Smart and Sustainable Cities and Energy Efficient Buildings

- SCC-02-2016-2017 Demonstrating innovative nature-based solutions in cities
- SC5-21-2017: Cultural heritage as a driver for sustainable growth (Heritage-led rural regeneration)

#### **Cooperation Profiles**

## Partner: ICT Innovation for Manufacturing SMEs

I am working for Korgün Software as R&D Expert. Our company (which is one of the first national software companies) was established for the aim of developing automation softwares for SMEs in 1992. We have been developing ERP softwares for the manufacturing systems in order to meet the requirements of retailers. We have been also optimizing the software in terms of reflecting the recent technological changes in order to meet the end users requirements very well (You could also find detailed information about our organization on www.korgun.com.tr). We have also deep experience in national and international R&D Projects, which could be seen in the following table: Project Type Subject Status Submitted To 1 7160446 SME-R&D Artificial Intelligence based Decision Support System for Retail Sector 2 9150220 International-R&D Real Time Miner Tracking, Communication, Early Warning System and Emergent Cases for Mining 3 3150857 Industry-R&D (MiKADES) Mobile Employment Decision Support System Approved (Official Approval Letter Pending) 4 7141451 SME-R&D Intelligent Manufacturing Resources supported by Data Mining Methods for Leather and Leather Products 5 644617 (ICT-07-2014) International-R&D Cloudteams (Collaborative Software Development Framework based on Trusted, Secure Cloud-based Pool of Users) We have got also valuable experience related

to mobile applications, efficient database management (especially by using Cloud Computing Technologies) and image processing (You could have information from www.korgun.com.tr). We are very interested in developing new intelligent solutions not only for the infrastructure of the system but also the processes (also using BAT) in terms of energy saving and making contribution to saving the environment.

## Leo Mühendislik Limited Şirketi

#### **Organisation Name**

Country	Turkey
City	İstanbul
Street	İTÜ Ayazağa Kampüsü, KOSGEB A Blok, No :26
Website	www.leomuhendislik.com
Phone	
Organisation Type	Company

Person	
Name	Samet Kütük
Email	samet.kutuk@leomuhendislik.comö
Job Position	Kurucu Ortak

#### **Organisation Details**

Leo Mühendislik is an engineering service and product sales company formed by engineers from defence, automotive and electronics industries. Our core markets are automotive, defence, aerial/mobile mapping, robotics and marine sectors.

Our core engineering skill sets are towards autonomous systems. We are working with industry standard sensors and solely represent them in the Turkish market such as Velodyne LiDAR, SBG Systems, Mobileye, Hemisphere GNSS, Smart Micro Radars, Applanix Land Systems.

We have outstanding product development capabilities; our engineering team consists of embedded HW and SW engineers, algorithm designers, people with field specific experiences (i.e. autonomous car development, geomatics engineering).

We are conveniently located at Istanbul Technical University, where we have very close engagement to the academic world.

Furthermore, as partners of the company, we have great deal of project management expertise, thus, funding programmes are our primary focus for company growth. We always seek collaboration at projects within and outside of country borders.

#### Areas of Activity

#### **Factories of the Future**

- FOF-06-2017 New product functionalities through advanced surface manufacturing processes for mass production
- FOF-07-2017 Integration of unconventional technologies for multi-material processing into manufacturing systems
- FOF-08-2017 In-line measurement and control for micro-/nano-enabled high-volume manufacturing for enhanced reliability
- FOF-09-2017 Novel design and predictive maintenance technologies for increased operating life of production systems
- FOF-10-2017 New technologies and life cycle management for reconfigurable and reusable customised products
- FOF-12-2017 ICT Innovation for Manufacturing SMEs

#### The European Green Vehicles Initiative

- GV-06-2017 Physical integration of hybrid and electric vehicle batteries at pack level aiming at increased energy density and efficiency
- GV-07-2017 Multi-level modelling and testing of electric vehicles and their components
- GV-13-2017 Production of next generation battery cells in Europe for transport applications

## Lojika

Organisation Name	
Country	Turkey
City	istanbul
Street	Ecza
Website	http://www.lojika.net/
Phone	
Organisation Type	SME

Person		
Name	Melike Sevindik	Large
Email	melike.sevindik@lojika.net	
Job Position	CFO	

#### **Organisation Details**

https://www.youtube.com/watch?v=aaVXHEhmL8A

Lojika was established by seasoned technology entrepreneurs in order to develop a carpooling solution named TAG that will become a mainstream transportation alternative to achieve the urban, social, and public goals. Lojika is not engaged in any other product or initiative, enabling it to be strategically aligned with the success of this project by committing 100% of its resources for realization first in Istanbul and thereupon in the other EU cities. Since its founding, Lojika has made significant progress towards its goal:

**Strong team:** Lojika has 27 talented engineers, developers, and designers with several M.Sc. degrees and ongoing PhD programs. Also, Lojika is led by a management team with backgrounds from top technology and finance companies (such as McKinsey, Microsoft, IBM, eBay, and Deutsche Bank).

**Technology edge:** Lojika has developed proprietary algorithms in accordance with TAG project. These R&D efforts are awarded 3 separate grants totaling  $\leq$ 400k by Turkish state R&D support agency TUBITAK. Apart from these, our TAG project has been granted by EU under H2020/SME-INST Phase 2 with  $\leq$ 2.4 million. Recently, we are also starting to develop a logistics project depending on peer-to-peer delivery optimization awarded by EU under FTI with  $\leq$ 1.7 million. Lojika carries out the project as a coordinator with the assistance of three prominent transport companies and one leading university from Europe.

**Financed by leading investors:** Lojika recently closed a financing round from a group of 21 investors. Our investors include people from the main shareholder of Turkish Telekom, CEOs of major banks in Turkey, head of an important quasi state institution, owner of the one of the largest media agencies in Turkey and other successful entrepreneurs.

#### Areas of Activity

# Smart and Sustainable Cities and Energy Efficient Buildings

• SCC-1-2016-2017 Smart Cities and Communities lighthouse projects

#### **Cooperation Profiles**

## Coordinator: Physical Internet

The fundamental technology which Lojika puts in forth is strongly related with mobility management. In particular, peer to peer transport solutions focusing on both urban level carpooling and logistics optimization is the major subject of our expertise. DynaHUBs is a disruptive technology for urban logistics. It allows the formation of instantly forming stations for cargo and humans to change from one mode of transport to others to utilise idle capacity. It will comprise living mechanisms and will change dynamically according to users' needs, traffic patterns, weather conditions, and extreme situations such as natural or manmade disasters. DynaHUBs is envisaged to replace the Hub-Spoke model in logistics and reduce total journey distances significantly. Solution: DynaHUBs is designed to start the development of the Physical Internet using a crowd-sourced approach. Starting with motorcycles, it will test the technology and the business model to provide a new way of connecting routes and increasing capacity for door-to-door cargo and freight

logistics. Once proven on motorcycles, this capability will be used for all vehicles and existing transportation systems for not only freight but also people. Benefits: (i) This solution will enable the neighbourhood to access cross-country cargo delivery systems, logistics capacity sharing, car sharing, carpooling, and demand-responsive transport. (ii) It will act as a facilitation platform matching the idle urban delivery capacity with the last-mile demand via its proprietary solution. The system will eventually be used for people transport through integration to carpooling, car-sharing, and taxi-sharing solutions. This method will reduce total journey distances by 20-40% and thus provide savings regarding costs and pollution.

## Lojika Fields Lab

Organisation Name		
Country	Turkey	Large
City	İstanbul	
Street	Ecza Sok Gültepe	
Website	http://www.lojika.net	
Phone		
<b>Organisation Type</b>	SME	

Person	
Name	Rıdvan Salih Kuzu
Email	ridvan.salih@gmail.com
Job Position	R&D Manager

#### **Organisation Details**

https://www.youtube.com/watch?v=aaVXHEhmL8A

Lojika was established by seasoned technology entrepreneurs in order to develop a carpooling solution named TAG that will become a mainstream transportation alternative to achieve the urban, social, and public goals. Lojika is not engaged in any other product or initiative, enabling it to be strategically aligned with the success of this project by committing 100% of its resources for realization first in Istanbul and thereupon in the other EU cities. Since its founding, Lojika has made significant progress towards its goal:

**Strong team:** Lojika has 27 talented engineers, developers, and designers with several M.Sc. degrees and ongoing PhD programs. Also, Lojika is led by a management team with backgrounds from top technology and finance companies (such as McKinsey, Microsoft, IBM, eBay, and Deutsche Bank).

**Technology edge:** Lojika has developed proprietary algorithms in accordance with TAG project. These R&D efforts are awarded 3 separate grants totaling  $\leq$ 400k by Turkish state R&D support agency TUBITAK. Apart from these, our TAG project has been granted by EU under H2020/SME-INST Phase 2 with  $\leq$ 2.4 million. Recently, we are also starting to develop a logistics project depending on peer-to-peer delivery optimization awarded by EU under FTI with  $\leq$ 1.7 million. Lojika carries out the project as a coordinator with the assistance of three prominent transport companies and one leading university from Europe.

**Financed by leading investors:** Lojika recently closed a financing round from a group of 21 investors. Our investors include people from the main shareholder of Turkish Telekom, CEOs of major banks in Turkey, head of an important quasi state institution, owner of the one of the largest media agencies in Turkey and other successful entrepreneurs.

#### Areas of Activity

#### **SPIRE-Circular Economy Session**

• CIRC-01-2017 Systemic, eco-innovative approaches for the circular economy large-scale demonstration projects

#### **Cooperation Profiles**

## Coordinator: Physical Internet

The fundamental technology which Lojika puts in forth is strongly related with mobility management. In particular, peer to peer transport solutions focusing on both urban level carpooling and logistics optimization is the major subject of our expertise. DynaHUBs is a disruptive technology for urban logistics. It allows the formation of instantly forming stations for cargo and humans to change from one mode of transport to others to utilise idle capacity. It will comprise living mechanisms and will change dynamically according to users' needs, traffic patterns, weather conditions, and extreme situations such as natural or manmade disasters. DynaHUBs is envisaged to replace the Hub-Spoke model in logistics and reduce total journey distances significantly. Solution: DynaHUBs is designed to start the development of the Physical Internet using a crowd-sourced approach. Starting with motorcycles, it will test the technology and the business model to provide a new way of connecting routes and increasing capacity for door-to-door cargo and freight

Large

logistics. Once proven on motorcycles, this capability will be used for all vehicles and existing transportation systems for not only freight but also people. Benefits: (i) This solution will enable the neighbourhood to access cross-country cargo delivery systems, logistics capacity sharing, car sharing, carpooling, and demand-responsive transport. (ii) It will act as a facilitation platform matching the idle urban delivery capacity with the last-mile demand via its proprietary solution. The system will eventually be used for people transport through integration to carpooling, car-sharing, and taxi-sharing solutions. This method will reduce total journey distances by 20-40% and thus provide savings regarding costs and pollution.

# Lostar Bilgi Güvenliği

#### **Organisation Name**

<b>Turkey</b>
stanbul
brahim Ağa sk 10/5 Kadıköy
www.lostar.com
SME



Person	
Name	Murat Lostar
Email	murat.lostar@gmail.com
Job Position	CEO



#### **Organisation Details**

Lostar has been offering consultancy, training and auditing services in IT governance, risk and compliance (IT-GRC) since 1998. The Company is specialized in ensuring the continuity and security of information, an asset with increasingly growing value, as well as providing its regulatory compliance. The primary objective is to offer solution-oriented services with its multi-disciplinary team, which is able to provide brand-independent service. Lostar is Turkey's leading firm in COBIT-related activities and CISA training programs, and offers a methodology that ensures human-independent and permanent information security management systems (ISMS) that also guarantee conformity with ISO 27001, and Security Checkup services that reveal security vulnerabilities. Recognizing that corporate changes will not succeed unless they are espoused by employees, Lostar implements the leading method in employee awareness and behavior change in Turkey.

#### **Areas of Activity**

#### Factories of the Future

- FOF-07-2017 Integration of unconventional technologies for multi-material processing into manufacturing systems
- FOF-09-2017 Novel design and predictive maintenance technologies for increased operating life of production systems
- FOF-10-2017 New technologies and life cycle management for reconfigurable and reusable customised products
- FOF-12-2017 ICT Innovation for Manufacturing SMEs

# Smart and Sustainable Cities and Energy Efficient Buildings

• SCC-1-2016-2017 Smart Cities and Communities lighthouse projects

#### **Cooperation Profiles**

## Partner: ICT/Cyber-Security Expertise Offering

Our Istanbul/Turkey based engineering SME has expertise on cyber-security. We can create security and cyber-risk assurance for any software, IoT system. Please contact us for more information.

## Manisa Metropolitan Municipality

#### Organisation Name

Country	Turkey	
City	Manisa	
Street	Merkezefendi Mah. 3819 Sk. No:80	
Website	www.manisa.bel.tr	
Phone		
Organisation Type	Authority/Government	

Person	
Name	Yasemin Ertaş
Email	yasemenertas@gmail.com
Job Position	Specialist

#### **Organisation Details**

Manisa Province, also Manisa Metropolitan Municipality with 17 districts is located in western Turkey. It has an area of 1.232 square kilometers and population 1.380.366. It is the fourteenth most populous city of Turkey and in terms of total population after İzmir, Manisa is the second largest province Aegean Region. It is surrounded by the provinces of İzmir to the west, Aydın to the South, Denizli to the southeast, Uşak to the east, Kütahya to the Northeast and Balıkesir to the North. Manisa is a growing center of industry and services advantaged by its closeness to the international port city of İzmir and and with its fertile hinterland rich in quantity and variety of agricultural production. It has been decided to convert Manisa Municipality to Manisa Metropolitan Municipality in 2014. It provides to service through 20 head departments, affiliates and 3569 employees.

Manisa Metropolitan Municipality has partnership of ongoing Cityfied Project. It is a systematic and integrated strategy to adapt European cities and urban ecosystems into the smart cities of the future. Cityfied Project aims to develop this strategy. It focuses on reducing energy demand and greenhouse gas emissions by increasing the use of renewable energy technologies.

#### Areas of Activity

#### Smart and Sustainable Cities and Energy Efficient Buildings

- EEB-05-2017 Development of near zero energy building renovation
- SCC-1-2016-2017 Smart Cities and Communities lighthouse projects
- SCC-02-2016-2017 Demonstrating innovative nature-based solutions in cities
- SC5-21-2017: Cultural heritage as a driver for sustainable growth (Heritage-led rural regeneration)

#### **Cooperation Profiles**

## Partner: Looking for partners about energy and environment in new projects

We want to create new opportunities for energy and environment developing issues. We are member of Cityfied project as an holder of district heating assembler and actuator. We want to find new opportunities for energy saving issues and EU projects.

# Manisa Metropolitan Municipality

**Organisation Name** 

Country	Tu
City	M
Street	38
Website	ht
Phone	+9
Organisation Type	Aι

Turkey MANİSA 3819. Sk. No:80 http://www.manisa.bel.tr/ +905077213427 Authority/Government



Person	
Name	
Email	
lob Position	

Emre TÜRKER emreturker2010@hotmail.com Mechanical Engineer

## **Organisation Details**

Manisa Province, also Manisa Metropolitan Municipality with 17 districts is located in western Turkey. It has an area of 1.232 square kilometers and population 1.380.366. It is the fourteenth most populous city of Turkey and in terms of total population after İzmir, Manisa is the second largest province Aegean Region. It is surrounded by the provinces of İzmir to the west, Aydın to the South, Denizli to the southeast, Uşak to the east, Kütahya to the Northeast and Balıkesir to the North. Manisa is a growing center of industry and services advantaged by its closeness to the international port city of İzmir and and with its fertile hinterland rich in quantity and variety of agricultural production. It has been decided to convert Manisa Municipality to Manisa Metropolitan Municipality in 2014. It provides to service through 20 head departments, affiliates and 3569 employees.

Manisa Metropolitan Municipality has partnership of ongoing Cityfied Project. It is a systematic and integrated strategy to adapt European cities and urban ecosystems into the smart cities of the future. Cityfied Project aims to develop this strategy. It focuses on reducing energy demand and greenhouse gas emissions by increasing the use of renewable energy technologies.

#### **Areas of Activity**

# Smart and Sustainable Cities and Energy Efficient Buildings

- EEB-05-2017 Development of near zero energy building renovation
- EEB-07-2017 Integration of energy harvesting at building and district level
- SCC-1-2016-2017 Smart Cities and Communities lighthouse projects
- SCC-02-2016-2017 Demonstrating innovative nature-based solutions in cities
- SC5-21-2017: Cultural heritage as a driver for sus-



#### **Cooperation Profiles**

## Partner: Looking for partners about energy and environment in new projects.

We want to create new opportunities for energy and environment developing issues. We are member of Cityfied project as an holder of district heating assembler and actuator. We want to find new opportunities for energy saving issues and EU projects.

## Marmara University, Faculty of Technology, Department of Electrical and Electronics Engineering

#### Organisation Name

j	
Country	Turkey
City	Istanbul
Street	Kuyubası
Website	http://elm.teknoloji.marmara.edu.tr/en/general-in- formation/
Phone	
Organisation Type	University
Person	
Name	Erkan Dursun
Email	erkandursun@marmara.edu.tr

Faculty Member

Large

#### **Organisation Details**

**Job Position** 

Marmara University is one of the oldest educational institutions in Turkey. Established on 16 January, 1883 under the name *Hamidiye Ticaret Mekteb-i Âlisi*, and affiliated with the Commercial, Agriculture, Forestry and Mining industry, Marmara University began its life in a house behind the Istanbul High School for Girls in Cağoğlu. The first graduates (13 people) matriculated in 1887. On 21 September, 1889 the school was affiliated with the Education Ministry; in 1893 the school was closed, with the idea that it would be reformed and reopened in the near future. On 15 October, 1897 the school, still affiliated with the Education Ministry, was reopened; from this date on the university has provided education.

The institution became known as the Istanbul Economic and Commercial Sciences Academy in 1959; in 1982, with regulations that were carried out, the institute became officially known as Marmara University and took its place among Turkish Institutes of Higher Education.

In the 1982 - 1983 academic year, education began at Marmara University, which consisted of 9 faculties, 1 school, 1 institute. Today, the number of faculties is 16, the number of schools is 9, and there are 11 institutes. The number of currently operating associate and degree courses at the university is 199.

Close to 3,000 academic staff and more than 70,000 students are making contributions to Marmara University's academic activities today, making it one of the most important institutes of higher education in Turkey. In the academic faculties, including the Economics Faculty, Business Faculty, Faculty of Fine Arts, Political Sciences Faculty, Faculty of Technology, Engineering Faculty, Medicine Faculty, Dentistry Faculty and Theology Faculty, education is provided in five different languages, Turkish, English, French, German and Arabic; these qualities make Marmara the only multilingual university in Turkey.

Marmara University has rapidly expanded, providing education-training and research activities from 1982 on, in the faculties, institutes, schools and vocational schools and research-implementation centers. In addition to education and training, the University has developed in social services, giving great importance to publishing and consultancy projects; in this century when the industrial society has been replaced by the information society, in keeping with the demands of society, the university has made contributions to the development of man power and technology as needed by the country; the education approach of providing solutions to economic, political, cultural and similar problems of the university has been represented at home and abroad.

Marmara University, Faculty of Technology is appling existing information to all areas of technology and adapting to new applications. Solving problems in implementation of improved technologies. Choosing and using current techniques and tools in the field of technology. Working effectively at disciplinary and multidisciplinary teams as individual. Following information in the relevant field using with foreign language skills. Communicating with colleagues?Having the sense of professional, ethical and social responsibility and aware of lifelong learning.

Department of Electrical-Electronics Engineering established in 2010 in Marmara University Faculty of Technology. The

purpose of the department is educating student as an engineer having application-oriented knowledge and skills besides theoretical concepts who can contribute national and international technological developments and respond the needs of industry, having an active role in academic activities.Besides other Engineering faculties, our department has a program that adopt the tendency of "Training in Industry" which is optional or mandatory in some universities having one term or full year training duration having the chance to work in an industrial environment, whilst doing a degree, is an invaluable experience that dramatically improves one's career prospects. The year in industry scheme gives a real taste of what the future working life could be like, and shows prospective employers that may have a serious commit-ment to work in the field of a chosen subject area.There are three sub-programs in the department: Electrical, Electronic-Communication and Control. Each sub-program has different elective and common mandatory courses. Students can choose all courses from any sub-program so they can specialize on this field or they can choose from different sub-programs and vary their professional experiences. Department laboratory apparatuses and equipment have been renewed within the scope of the World Bank and European Union Projects.

#### Areas of Activity

#### Smart and Sustainable Cities and Energy Efficient Buildings

- EEB-05-2017 Development of near zero energy building renovation
- EEB-06-2017 Highly efficient hybrid storage solutions for power and heat in residential buildings and district areas, balancing the supply and demand conditions
- EEB-07-2017 Integration of energy harvesting at building and district level
- EEB-08-2017 New business models for energy-efficient buildings through adaptable refurbishment solutions
- EE-12-2017 Integration of Demand Response in Energy Management Systems while ensuring interoperability through Public Private Partnership
- SCC-02-2016-2017 Demonstrating innovative nature-based solutions in cities

#### The European Green Vehicles Initiative

- GV-04-2017 Next generation electric drivetrains for fully electric vehicles, focusing on high efficiency and low cost
- GV-05-2017 Electric vehicle user-centric design for optimised energy efficiency
- GV-06-2017 Physical integration of hybrid and electric vehicle batteries at pack level aiming at increased energy density and efficiency

#### **Cooperation Profiles**

## **Coordinator:** CONSUMER EDUCATION PROGRAM (CEP) FOR RESIDENTIAL BUILDINGS: FROM SMART CONSUMERS TO THE SMART ENERGY REGIONS

Sustainable energy has been identified as the most important part of sustainable development and environment. The basic principles of sustainable energy are efficient use of energy and energy savings. Turkey needs sustainable energy policies especially for residential building sector. According to the International Energy Agency (IEA) energy use in buildings accounts for 38% of global total energy consumption. Which of , 45% is consumed in OECD countries and around 55% in non-OECD countries. According to Directive 2002/91/EC, buildings accounts for more than 40% of final energy consumption in the European Union Countries. The share of total electricity consumption in residential buildings has been increasing. The electricity consumption of the residential is 41,410,700 MWh in 2010 constituting 24.1% of the national electricity consumption. By the end of 2014, the building stock in Turkey is estimated to reach around 9.2 million, where close to 90% of the stock is residential buildings, and the number of dwellings is estimated at 22 million according to the Turkish Statistical Institute (TSI) and Energy Agencies. As a result, this will lead to higher carbon dioxide emissions in residential buildings. Turkey's greenhouse gas (GHG) emissions are growing rapidly; the primary focus on energy efficiency is driven by the imperative to address CO2 emissions. All the data shows that residing end-users in the dwelling are the most important actors for sustainable energy policies and sustainable environment. The efficient use of energy with the training of final energy consumer will be faster and more efficient feedback from all attempts in energy efficiency projects. The residing end-users that will have an impact on the long term creation of low carbon regions in Turkey. This project will achieve energy efficiency and provide added value for sustainable energy. This project will foster and accelerate short-term development in Turkey residential energy users with Consumer Education Program (CEP). The CEP is consisting of two main training packages, including mechanical and electrical. Training will be provided by experts in each field. The courses will provide the knowledge needed to identify and manage energy usage and effectively create efficiency in residential energy using. The project will be conducted in collaboration with Marmara University and EYODER (Energy Management Association). In addition to the statistical

analysis of the billing data, survey research plays an important role in evaluation and verification methods for Consumer Education Program (CEP) evaluations. We will conduct surveys for residential energy users. The survey will consist of two parts, pre-training survey and telephone follow-up survey after the training. Specially trained interviewers will collect energy characteristics from houses, usage patterns, and demographic structure from the residential energy users. Surveys are an important technique used in residential energy efficiency studies. They provide feedback from the point of view of the users. Moreover, the surveys will lead to the evaluation of the project.

## Medical Sciences University Antalya Training and Research Hospital

Organisation Name	
Country	Turkey
City	ANTALYA
Street	Varlık Mah.
Website	
Phone	
<b>Organisation Type</b>	University
Person	
Name	Gulcan Dogan
Email	gulcandogan_19@hotmail.com
Job Position	Project Manager

#### **Organisation Details**

Antalya Training and Research Hospital began to provide healthcare services with its modern architecture in 2008. It is one of the best and modern hospitals of the region with its convenient and safe patient rooms and living spaces. Our hospital serves with 3534 personnel in total, 1204 patient beds, 171 intensive care beds, 24 surgery rooms, and MR, BT, etc. examination rooms in all branches.

Antalya Training and Research Hospital is located in the centre of Antalya, which is one of the most popular tourism destinations in Turkey. It is 17 km away from Antalya Airport, 1 km away from Konyaaltı Beach, 3 km away from Kaleiçi (Oldtown) that houses various historical artefacts and 15 km away from Lara Beach. Located in the vicinity are more than 100 Hotels certified by the Ministry of Tourism that provide the patients and their relatives with necessary accommodation. International Patient Departments are available in most public hospitals to cooperate with their international patients and their insurance companies in English, German, Russian and Arabic languages 7/24.

While supplying healthcare services, our hospital aims to provide timely service, to prioritize the safety of the patients and their relatives, to provide occupational safety and satisfaction for its the employees, to support a qualified, educated and systematic approach, to serve a sustainable service concept, to increase awareness of team work, and to develop every passing day with the purpose of being a fair and principled hospital respecting to ethical values.

#### Areas of Activity

## Smart and Sustainable Cities and Energy Efficient

#### Buildings

- EEB-05-2017 Development of near zero energy building renovation
- EEB-08-2017 New business models for energy-efficient buildings through adaptable refurbishment solutions

# Mercedes Benz Türk A.Ş.

**R&D** Engineer

Organisation Name		
Country	Turkey	Large
City	İstanbul	
Street	Sanayi Mh. No:5	
Website		
Phone		
Organisation Type	Company	
Person		
Name	onur akyol	Large
Email	onur.akyol@daimler.com	

#### **Organisation Details**

**Job Position** 

Mercedes-Benz Turk which has been established in Istanbul in 1967 with 36% partnership of Daimler-Benz AG under the title of Otomarsan, has started the manufacturing of 0 302 type buses in 1968.Starting exportation in 1970, only 2 years after launching the manufacturing process, the company has become Mercedes-Benz's General Representative in Turkey.And in 1986, the company's truck factory in Aksaray of Central Anatolia has started the manufacturing in parallel with the development potential of Turkey.In November, 1990, trade name of the company has been changed as Mercedes-Benz Turk INC.Today, Mercedes-Benz INC. is one of the largest foreign investments in Turkey with its total investments over 885 million Euros and employs over 6,000 personnel. 80% of Mercedes-Benz Turk employees have a university degree and they know at least one foreign language. Additionally, 4,000 employees work at the network of retail dealers and post-sales services all around Turkey.Daimler AG has the share of 67% in the capital of Mercedes-Benz Turk.

Nowadays, Mercedes-Benz Turk's facilities in Istanbul, Hosdere factory manufacturing intercity buses municipality buses, and the one in Aksaray manufacturing light- medium-heavy and heavy trucks constitute building bricks of development and manufacture network of Daimler AG. The company carries out the sales and exportation of the products including the models produced only in Turkey. Moreover, Mercedes-Benz Turk carries out the importation and sales of Mercedes-Benz light commercial vehicles and all the automobile brands under Daimler AG. Thanks to its high-quality products equipped with the latest technologies, Mercedes-Benz Turk is the leading company in the intercity bus market and market of trucks over 6 tones in turkey. The company also has a leading position in terms of bus and truck exportation in Turkey. The fact that the most important exportation markets of Mercedes-Benz Turk are the Western European countries is a striking detail.

#### Areas of Activity

#### Factories of the Future

- FOF-06-2017 New product functionalities through advanced surface manufacturing processes for mass production
- FOF-07-2017 Integration of unconventional technologies for multi-material processing into manufacturing systems
- FOF-08-2017 In-line measurement and control for micro-/nano-enabled high-volume manufacturing for enhanced reliability
- FOF-09-2017 Novel design and predictive maintenance technologies for increased operating life of production systems
- FOF-10-2017 New technologies and life cycle management for reconfigurable and reusable cus-

#### The European Green Vehicles Initiative

• GV-09-2017 Aerodynamic and flexible trucks

#### **Cooperation Profiles**

# **Partner:** Cooperations in lightweight structures and fiber-reinforced plastics - composite materials topics

Topics in interest: Lightweight structures for commercial vehicles, Developing of new sustainable and effective materials, Modelling and testing of composite materials, Possible Role: Main role of Mercedes-Benz Türk is coordinating projects, but according to the project details Mercedes-Benz Türk can support the project as a project partner. Competences on the specified topic: Coordination between project partners (universities, OEM's..) Strength and durability analyses, fatigue life calculations, anisotropic material modelling Expertise: There isn't any expertise from previous FP7 and H2020 grands. The first such cooperation is aimed to be achieved.

## Mercedes Benz Türk A.Ş.

**Organisation Name** 

Country	Turkey
City	İstanbul
Street	Sanayi Mh. No:5
Website	
Phone	00902126227545
Organisation Type	Company



Person	
Name	Okan Otuz
Email	okan.otuz@daimler.com
Job Position	R&D Engineer



#### **Organisation Details**

Mercedes-Benz Turk which has been established in Istanbul in 1967 with 36% partnership of Daimler-Benz AG under the title of Otomarsan, has started the manufacturing of 0 302 type buses in 1968.Starting exportation in 1970, only 2 years after launching the manufacturing process, the company has become Mercedes-Benz's General Representative in Turkey.And in 1986, the company's truck factory in Aksaray of Central Anatolia has started the manufacturing in parallel with the development potential of Turkey.In November, 1990, trade name of the company has been changed as Mercedes-Benz Turk INC.Today, Mercedes-Benz INC. is one of the largest foreign investments in Turkey with its total investments over 885 million Euros and employs over 6,000 personnel. 80% of Mercedes-Benz Turk employees have a university degree and they know at least one foreign language. Additionally, 4,000 employees work at the network of retail dealers and post-sales services all around Turkey.Daimler AG has the share of 67% in the capital of Mercedes-Benz Turk.

Nowadays, Mercedes-Benz Turk's facilities in Istanbul, Hosdere factory manufacturing intercity buses municipality buses, and the one in Aksaray manufacturing light- medium-heavy and heavy trucks constitute building bricks of development and manufacture network of Daimler AG. The company carries out the sales and exportation of the products including the models produced only in Turkey. Moreover, Mercedes-Benz Turk carries out the importation and sales of Mercedes-Benz light commercial vehicles and all the automobile brands under Daimler AG. Thanks to its high-quality products equipped with the latest technologies, Mercedes-Benz Turk is the leading company in the intercity bus market and market of trucks over 6 tones in turkey. The company also has a leading position in terms of bus and truck exportation in Turkey. The fact that the most important exportation markets of Mercedes-Benz Turk are the Western European countries is a striking detail.

#### Areas of Activity

#### Factories of the Future

- FOF-07-2017 Integration of unconventional technologies for multi-material processing into manufacturing systems
- FOF-08-2017 In-line measurement and control for micro-/nano-enabled high-volume manufacturing for enhanced reliability
- FOF-09-2017 Novel design and predictive maintenance technologies for increased operating life of production systems
- FOF-10-2017 New technologies and life cycle management for reconfigurable and reusable customised products

#### The European Green Vehicles Initiative

• GV-09-2017 Aerodynamic and flexible trucks

# **Coordinator:** Cooperations in lightweight structures and fiber-reinforced plastics - composite materials topics

Topics in interest: Lightweight structures for commercial vehicles, Developing of new sustainable and effective materials, Modelling and testing of composite materials, Possible Role: Main role of Mercedes-Benz Türk is coordinating projects, but according to the project details Mercedes-Benz Türk can support the project as a project partner. Competences on the specified topic: Coordination between project partners (universities, OEM's..) Strength and durability analyses, fatigue life calculations, anisotropic material modelling Expertise: There isn't any expertise from previous FP7 and H2020 grands. The first such cooperation is aimed to be achieved.

## Metro Istanbul A.Ş.

#### **Organisation Name**

Country	Turkey
City	Istanbul
Street	Metro Sk No:3 Esenler
Website	www.metro.istanbul
Phone	
Organisation Type	Authority/Government

Person	
Name	LUTFU AKCIL
Email	lutfu.akcil@metro.istanbul
Job Position	R&D MANAGER



#### **Organisation Details**

Metro Istanbul is the municipal railway operator in Istanbul. Istanbul Metropoitan Municipality has a great vision for 2023 and aimed for 400km railway. As an operator company, we're developing operational efficiency and technical capabilities. We would like to meet sme's and bir companies which have innovative ideas about public transportation and especially on rail transportation. Metro Istanbul wants to participate and demostrate future innovative projects in Istanbul.

#### Areas of Activity

# Smart and Sustainable Cities and Energy Efficient Buildings

- EEB-05-2017 Development of near zero energy building renovation
- EEB-07-2017 Integration of energy harvesting at building and district level
- EE-12-2017 Integration of Demand Response in Energy Management Systems while ensuring interoperability through Public Private Partnership
- SCC-1-2016-2017 Smart Cities and Communities lighthouse projects
- SC5-21-2017: Cultural heritage as a driver for sustainable growth (Heritage-led rural regeneration)

#### **Cooperation Profiles**

## Partner: Metro Istanbul A.S.

Metro Istanbul wants to participate in possible in public transportation future projects as demonstrator.

#### The European Green Vehicles Initiative

• GV-13-2017 Production of next generation battery cells in Europe for transport applications

# Metropolitan Municipality Of Konya

#### **Organisation Name**

Country	Turkey
City	Konya
Street	Vatan Caddesi
Website	www.konya.bel.tr
Phone	
Organisation Type	Authority/Government

Person	
Name	Harun YİĞİT
Email	harun.yigit@konya.bel.tr
Job Position	Manager Of Software Devel-
	opment

#### **Organisation Details**

Local Government of Konya

#### **Areas of Activity**

#### Smart and Sustainable Cities and Energy Efficient Buildings

- EEB-05-2017 Development of near zero energy building renovation
- EEB-06-2017 Highly efficient hybrid storage solutions for power and heat in residential buildings and district areas, balancing the supply and demand conditions
- EEB-07-2017 Integration of energy harvesting at building and district level
- EEB-08-2017 New business models for energy-efficient buildings through adaptable refurbishment solutions
- EE-12-2017 Integration of Demand Response in Energy Management Systems while ensuring interoperability through Public Private Partnership
- SCC-1-2016-2017 Smart Cities and Communities lighthouse projects
- SCC-02-2016-2017 Demonstrating innovative nature-based solutions in cities
- SC5-08-2017 Large-scale demonstrators on nature-based solutions for hydro-meteorological risk reduction
- SC5-21-2017: Cultural heritage as a driver for sustainable growth (Heritage-led rural regeneration)

# Metropolitan Municipality Of Konya

#### **Organisation Name**

Country	Turkey
City	Konya
Street	Vatan Caddesi
Website	www.konya.bel.tr
Phone	
Organisation Type	Authority/Government

Person	
Name	Yaşar İncikli
Email	yasar.incikli@konya.bel.tr
Job Position	Head Of IT Department

#### **Organisation Details**

Local Government of Konya

#### Areas of Activity

#### Smart and Sustainable Cities and Energy Efficient Buildings

- EEB-05-2017 Development of near zero energy building renovation
- EEB-06-2017 Highly efficient hybrid storage solutions for power and heat in residential buildings and district areas, balancing the supply and demand conditions
- EEB-07-2017 Integration of energy harvesting at building and district level
- EEB-08-2017 New business models for energy-efficient buildings through adaptable refurbishment solutions
- EE-12-2017 Integration of Demand Response in Energy Management Systems while ensuring interoperability through Public Private Partnership
- SCC-1-2016-2017 Smart Cities and Communities lighthouse projects
- SCC-02-2016-2017 Demonstrating innovative nature-based solutions in cities
- SC5-08-2017 Large-scale demonstrators on nature-based solutions for hydro-meteorological risk reduction
- SC5-21-2017: Cultural heritage as a driver for sustainable growth (Heritage-led rural regeneration)

## **METU-BILTIR Research and Application Center**

#### **Organisation Name**

Country	Turkey
City	Ankara
Street	ODTÜ (METU CAMPUS)
Website	www.biltir.metu.edu.tr
Phone	
Organisation Type	R&D Institution

Person	
Name	Tarkan GÜRBÜZ
Email	tarkan@metu.edu.tr
Job Position	Instructer



#### **Organisation Details**

Middle East Technical University (METU) is an international research university which seeks excellence in serving the country, region and the world. As of December 31, 2015, METU has completed 230 international projects with a total budget of about 492M€. METU has approximately 400 R&D projects nationally funded and 60 R&D projects internationally sponsored, mainly by the EU Research and Innovation Framework Programmes.

METU-BILTIR Center which is the multidisciplinary research and application center of METU, is a bridge between university and industry. METU-BILTIR Center is also in close contact with METU's technopark "ODTÜ TEKNOKENT". Being the first and the most innovative technopark of Turkey, ODTÜ TEKNOKENT with more than 300 tenant companies and about 5000 R&D personnel, has undersigned exemplary success stories to serve as a model for other technoparks in Turkey. METU-BILTIR Center Industry 4.0 Platform is formed by faculty members of the below listed disciplines, relevant Research and Development Centers and Institutes of METU:

(Faculty members from other disciplines joins the activities as needed by the ongoing projects.)

- METU-BILTIR Center
- TAF Modeling and Simulation R&D Center (MODSIMMER)
- Center for Image Analysis (OGAM)
- Science and Technology Policy Studies (TEKPOL)
- Center for STEM Education (BİLTEMM)
- Computer Education and Instructional Technology
- Chemical Engineering
- Metallurgical and Materials Engineering
- Computer Engineering
- Electrical and Electronics Engineering
- Mechanical Engineering
- Industrial Engineering
- Civil Engineering
- Informatics Institute
- Business Administration
- Economics
- Chemistry
- Statistics
- Industrial Design
- Architecture

As METU-BILTIR Industry 4.0 platform, on one hand we offer solutions for improving effectiveness in manufacturing; on the other hand we also provide our expertise through the application of smart systems, system of systems, information and communication technologies and other Industry 4.0 technologies on different sectors such as automotive, defense-security, energy and retail. Our platform has the ability to implement all these technologies on different sectors through a combined perspective including science and technology policies.

#### **Cooperation Profiles**

Partner: Factories of Future

## **METU-BILTIR Research and Application Center**

#### Organisation Name

Country	Turkey
City	Ankara
Street	ODTÜ
Website	www.biltir.metu.edu.tr
Phone	
Organisation Type	R&D Institution

Person		
Name	Mustafa İlhan Gökler	
Email	gokler@metu.edu.tr	(E)
Job Position	Director of METU-BILTIR Re- search and Application Cen- ter	

#### **Organisation Details**

Middle East Technical University (METU) is an international research university which seeks excellence in serving the country, region and the world. As of December 31, 2015, METU has completed 230 international projects with a total budget of about 492M€. METU has approximately 400 R&D projects nationally funded and 60 R&D projects internationally sponsored, mainly by the EU Research and Innovation Framework Programmes.

METU-BILTIR Center which is the multidisciplinary research and application center of METU, is a bridge between university and industry. METU-BILTIR Center is also in close contact with METU's technopark "ODTÜ TEKNOKENT". Being the first and the most innovative technopark of Turkey, ODTÜ TEKNOKENT with more than 300 tenant companies and about 5000 R&D personnel, has undersigned exemplary success stories to serve as a model for other technoparks in Turkey. METU-BILTIR Center Industry 4.0 Platform is formed by faculty members of the below listed disciplines, relevant Research and Development Centers and Institutes of METU:

(Faculty members from other disciplines joins the activities as needed by the ongoing projects.)

METU-BILTIR Center TAF Modeling and Simulation R&D Center (MODSİMMER) Center for Image Analysis (OGAM) Science and Technology Policy Studies (TEKPOL) Center for STEM Education (BİLTEMM) Computer Education and Instructional Technology Chemical Engineering Metallurgical and Materials Engineering Computer Engineering Electrical and Electronics Engineering Mechanical Engineering Industrial Engineering Civil Engineering Informatics Institute Business Administration Economics Chemistry Statistics Industrial Design Architecture City and Regional Planning As METU-BILTIR Industry 4.0 platform, on one hand we offer solutions for improving effectiveness in manufacturing; on the other hand we also provide our expertise through the application of smart systems, system of systems, information and communication technologies and other Industry 4.0 technologies on different sectors such as automotive, defense-security, energy and retail. Our platform has the ability to implement all these technologies on different sectors through a combined perspective including science and technology policies.

#### Areas of Activity

#### Factories of the Future

- FOF-06-2017 New product functionalities through advanced surface manufacturing processes for mass production
- FOF-07-2017 Integration of unconventional technologies for multi-material processing into manufacturing systems
- FOF-08-2017 In-line measurement and control for micro-/nano-enabled high-volume manufacturing for enhanced reliability
- FOF-09-2017 Novel design and predictive maintenance technologies for increased operating life of

#### The European Green Vehicles Initiative

- GV-01-2017 Optimisation of heavy duty vehicles for alternative fuels use
- GV-04-2017 Next generation electric drivetrains for fully electric vehicles, focusing on high efficiency and low cost
- GV-05-2017 Electric vehicle user-centric design for optimised energy efficiency
- GV-06-2017 Physical integration of hybrid and electric vehicle batteries at pack level aiming at increased energy density and efficiency
- GV-07-2017 Multi-level modelling and testing of

production systems

• FOF-10-2017 New technologies and life cycle management for reconfigurable and reusable customised products electric vehicles and their components

- GV-08-2017 Electrified urban commercial vehicles integration with fast charging infrastructure
- GV-09-2017 Aerodynamic and flexible trucks
- GV-10-2017 Demonstration (pilots) for integration of electrified L-category vehicles in the urban transport system
- GV-13-2017 Production of next generation battery cells in Europe for transport applications

# **METU-BILTIR Research and Application Center**

Organisation Name		
Country	Turkey	
City	Ankara	
Street	ODTÜ	
Website		
Phone		
Organisation Type	<b>R&amp;D</b> Institution	

Person	
Name	Cevdet Kural
Email	ckural@metu.edu.tr
Job Position	Specialist

#### **Organisation Details**

Middle East Technical University (METU) is an international research university which seeks excellence in serving the country, region and the world. As of December 31, 2015, METU has completed 230 international projects with a total budget of about 492M€. METU has approximately 400 R&D projects nationally funded and 60 R&D projects internationally sponsored, mainly by the EU Research and Innovation Framework Programmes.

METU-BILTIR Center which is the multidisciplinary research and application center of METU, is a bridge between university and industry. METU-BILTIR Center is also in close contact with METU's technopark "ODTÜ TEKNOKENT". Being the first and the most innovative technopark of Turkey, ODTÜ TEKNOKENT with more than 300 tenant companies and about 5000 R&D personnel, has undersigned exemplary success stories to serve as a model for other technoparks in Turkey. METU-BILTIR Center Industry 4.0 Platform is formed by faculty members of the below listed disciplines, relevant Research and Development Centers and Institutes of METU: (Faculty members from other disciplines joins the activities as needed by the ongoing projects.)

METU-BILTIR Center TAF Modeling and Simulation R&D Center (MODSİMMER) Center for Image Analysis (OGAM) Science and Technology Policy Studies (TEKPOL) Center for STEM Education (BİLTEMM) Computer Education and Instructional Technology Chemical Engineering Metallurgical and Materials Engineering Computer Engineering Electrical and Electronics Engineering Mechanical Engineering Industrial Engineering Civil Engineering Informatics Institute Business Administration Economics Chemistry Statistics Industrial Design Architecture City and Regional Planning As METU-BILTIR Industry 4.0 platform, on one hand we offer solutions for improving effectiveness in manufacturing; on the other hand we also provide our expertise through the application of smart systems, system of systems, information and communication technologies and other Industry 4.0 technologies on different sectors such as automotive, defense-security, energy and retail. Our platform has the ability to implement all these technologies on different sectors through a combined perspective including science and technology policies.

#### Areas of Activity

#### Factories of the Future

- FOF-06-2017 New product functionalities through advanced surface manufacturing processes for mass production
- FOF-07-2017 Integration of unconventional technologies for multi-material processing into manufacturing systems
- FOF-08-2017 In-line measurement and control for micro-/nano-enabled high-volume manufacturing for enhanced reliability
- FOF-09-2017 Novel design and predictive maintenance technologies for increased operating life of production systems
- FOF-10-2017 New technologies and life cycle man-

#### The European Green Vehicles Initiative

- GV-01-2017 Optimisation of heavy duty vehicles for alternative fuels use
- GV-04-2017 Next generation electric drivetrains for fully electric vehicles, focusing on high efficiency and low cost
- GV-05-2017 Electric vehicle user-centric design for optimised energy efficiency
- GV-06-2017 Physical integration of hybrid and electric vehicle batteries at pack level aiming at increased energy density and efficiency
- GV-07-2017 Multi-level modelling and testing of electric vehicles and their components
- GV-08-2017 Electrified urban commercial vehicles

agement for reconfigurable and reusable customised products

FOF-12-2017 ICT Innovation for Manufacturing SMEs

integration with fast charging infrastructure

- GV-09-2017 Aerodynamic and flexible trucks
- GV-10-2017 Demonstration (pilots) for integration of electrified L-category vehicles in the urban transport system
- GV-13-2017 Production of next generation battery cells in Europe for transport applications

#### Organisation Name

Country	Turkey
City	Ankara
Street	Dumlupınar Bulvarı, No. 1
Website	metu.edu.tr
Phone	
Organisation Type	University

Person		
Name	Nerkis Kural	Large
Email	nerkiskural@hotmail.com	
Job Position	architect-urban planner	

#### **Organisation Details**

METU, Faculty of Architecture is an educational institution with departments of architecture, urban planning, industrial design, restoration.

#### **Areas of Activity**

Smart and Sustainable Cities and Energy Efficient Buildings

- EEB-07-2017 Integration of energy harvesting at building and district level
- SCC-1-2016-2017 Smart Cities and Communities lighthouse projects

#### **Cooperation Profiles**

#### Partner: Phd. in sustainable urban design

Lecturing in Middle East Technical University on Sustainable urban design. In connection with my expertise I work for Consumer Rights Association in Ankara, and represent consumers in the ANEC General Assembly -standardization association- located in Brussels. I am also a member of the ANEC Sustainability Work Group involved in various sustainability standardization issues on behalf of consumers. I am a member of the Turkish Standardization Institute mirror commitee (MC111) which follows the work of TC 350 -Sustainable Construction.

#### **Coordinator:** Phd in sustainable urban design, general assembly member in anec, member in anec sustainability work group, mc111 member for tc 350 building sustainability for turkish standards institution

Lecturing at middle east technical university, faculty of architecture on sustainable urban design. The voluntary work done thru memberships in the eu supported organisation anec is on standardisation issues in design, energy, urbanism, consumer rights.

## Middle East Technical University

#### **Organisation Name**

Country	Turkey
City	Ankara
Street	Dumlupınar Bulvarı No:1
Website	www.metu.edu.tr
Phone	
Organisation Type	University

Person	
Name	Hediye Tuydes-Yaman
Email	htuydes@metu.edu.tr
Job Position	Faculty Member

#### **Organisation Details**

Middle East Technical University is a fairly large state university located in a campus in Ankara. In addition to many engineering and applied science program, it holds multidiciplinary research centers, such as the METU-BILTIR Research Center, which has started an ITS Unit in 2013.

#### Areas of Activity

Smart and Sustainable Cities and Energy Efficient	The European Green Vehicles Initiative
Buildings	GV-08-2017 Electrified urban commercial vehicles
<ul> <li>SCC-1-2016-2017 Smart Cities and Communities</li> </ul>	integration with fast charging infrastructure
lighthouse projects	

lighthouse projectsSCC-02-2016-2017 Demonstrating innovative na-

ture-based solutions in cities

Powered by B2Match ©

## Middle East Technical University - Environmental Environmental Eng. Dept.

Organisation Name

- <b>J</b>	
Country	Turkey
City	Ankara
Street	Dumlupinar Bulvari, No:1
Website	enve.metu.edu.tr
Phone	
Organisation Type	University

Person	
Name	Emre Alp
Email	emrealp@metu.edu.tr
Job Position	Faculty Member

Large

#### **Organisation Details**

Middle East Technical University (METU) is the first and only university in Turkey to enter the top 100 in The Times Higher Education World University Rankings 2014 list. This well-deserved reputation is partly a reflection of its leading position in terms of international scientific publications and share of research funds from national scientific research funds, primarily The Scientific and Technological Research Council of Turkey (TÜBİTAK) among the most prominent universities of Turkey. Moreover, METU - as an international research-intensive university - has also been the leading university in Turkey in terms of depth and breadth of international research projects and the amount of funds generated from research activities. 30-35% of total revenues of METU are derived from competitive research funds. METU has actively taken part in and managed various projects under the Instrument for Pre-Accession Assistance (IPA), especially the Framework Programmes (FP) as well as other international projects, such as COST, Erasmus, NATO, NSF, UN, etc. In this context, as of December 31, 2014, METU has completed 212 international projects with a total budget of about 444M€ and METU's share is nearly 27M€. 109 of these projects were FP projects with a total budget of 404M€, within which METU's share is nearly 22M€. In addition to these completed FP projects, METU is also currently involved in 40 FP projects with a total budget of about 152M€ and an METU share of about 8M€. In 2014, METU researchers have submitted a total of 49 H2020 project proposals. 4 H2020 projects with a total budget of 10M€ and METU budget of 400,000 € have been accepted. At any given time, METU has approximately 400 R&D projects nationally funded by TÜBİTAK and various ministries and 60 R&D projects internationally sponsored, mainly by the EU Research and Innovation Framework Programmes. This track record translates into METU bringing in about 9% of the FP-sourced research funds acquired by Turkey till now.

The Department of Environmental Engineering (DEE), METU, was established in January 1973 in response to the growing concern over the environment and the need for fully qualified engineers capable of undertaking professional responsibilities for optimum development and prudent management of water, air and land resources. Environmental Engineering Department provides the high quality environmental engineering education as required by the industry and the public; to advance the understanding and application of the principles of environmental science and engineering; to enhance and maintain sustainable economic development efforts and to improve the well-being of the society in general through teaching, research and community outreach programs. DEE offers B.S., M.Sc. and Ph.D programs. The undergraduate program of Environmental Engineering was accredited by the Engineering Accreditation Commission of ABET. Faculty members of DEE are highly productive in research activities. They have conducted many projects funded through national and international sources.

#### **Areas of Activity**

**SPIRE-Circular Economy Session** 

CIRC-02-2017 Water in the context of the circular economy

#### Smart and Sustainable Cities and Energy Efficient Buildings

• SCC-02-2016-2017 Demonstrating innovative na-

Turkey

ture-based solutions in cities

• SC5-08-2017 Large-scale demonstrators on nature-based solutions for hydro-meteorological risk reduction

#### **Cooperation Profiles**

## Partner: Water Centric Ecocities

I have an 19 years of experience and have been involved in extensive number of projects related to the water resources problems in a watershed scale both in Turkey and the U.S. I have been teaching and carrying out research activities in Middle East Technical University, Environmental Engineering Department. My research focuses on investigation of the water quality problems and development of water quality management alternatives to be implemented as a part of watershed management plans. I also conduct studies to develop economical tools to aid policy makers in different levels of water management. I would like to joint a consortium (as a partner) which will include the following activities or areas in the context of sustainable cities: \* Water-Energy Nexus \* Stormwater management and modelling \* Abetment of urban diffuse pollution \* Urban stream restoration \* Water conservation and water efficiency

## MIDDLE EAST TECHNICAL UNIVERSITY - MODSIMMER

#### **Organisation Name**

Country	Turkey
City	ANKARA
Street	ODTÜ, DUMLUPINAR BULVARI NO:1 MODSİMMER
Website	http://modsim.metu.edu.tr/
Phone	05327799811
Organisation Type	R&D Institution

YAKUP YILDIRIM
yakupbey@hotmail.com
PROGRAM MANAGER



#### **Organisation Details**

Middle East Technical University - Turkish Armed Forces Modeling and Simulation Research and Development Center (METU-TAF MODSIMMER) was established to facilitate the development of an integrated Joint Operations Simulation System (JOSIMS) in line with 21st Century technologies and standards based on a collaboration agreement among Turkish Armed Forces (TAF), Undersecretariat for Defense Industries (SSM) and Middle East Technical University (METU).

#### **Areas of Activity**

# Smart and Sustainable Cities and Energy Efficient Buildings

- SCC-1-2016-2017 Smart Cities and Communities lighthouse projects
- SCC-02-2016-2017 Demonstrating innovative nature-based solutions in cities

#### **Cooperation Profiles**

### Coordinator: Middle East Technical University Smart City/Campus Projects Coordination

My organization is responsible for coordination of all smart city and smart campus related projects within METU. I am assigned as the program manager for this coordination. There is a variety of interest areas regarding to smart city/ campus projects including smart transportaion, smart grid and energy, securtly solutions for smart cities. We are on way to start up a program to transform our campus to a smart campus. More than 20 projects proposals have been collected for evaluation.

### Middle East Technical University -- Dept. of Computer Engineering

Organisation Name		
Country	Turkey	
City	Ankara	
Street	-	
Website		
Phone		
<b>Organisation Type</b>	University	
Person		
1 613011		1572
Name	Cevat Şener	
Email	sener@ceng.metu.edu.tr	and the second second
Job Position	Vice Chair of the Depart-	O OFTA DOGU TEKNIK UNIVESITE
	ment	

#### **Organisation Details**

Middle East Technical University (METU), founded in 1956, is an international research university, which seeks excellence in serving the country, region and the world. METU currently has about 23K students in 50 undergraduate, 93 masters and 61 doctorate programs. Since its foundation, METU as an international research university has been the leading university in Turkey in terms of depth and breadth of international research projects and the amount of funds generated from research activities. Research activities carried out by 5 faculties, 5 graduate schools and 22 research centres generate 30% of total revenues of METU each year. It holds expertise in many diverse fields of science and engineering. METU actively took part in and managed many projects under Framework and H2020 Programmes as well as other International Projects such as COST, Eureka, NSF, UN, World Bank, etc. It has completed about 200 international projects with a total budget of more than 370M Euro and 75% of this funding is from Framework and H2020 Programmes.

The Department of Computer Engineering at METU was seeded back in 1967, as a service department to teach courses in computer science discipline to other academic departments in Middle East Technical University (METU). In 1977, the department was integrated into Faculty of Engineering with the current name of "Department of Computer Engineering", delegated the new mission of providing degree programs of its own. The goal of the department is to teach, produce and disseminate theory, principles, practice and know-how of computing for the critical analysis, design, evaluation, and improvement of computer-based systems in the contexts of computers and man, computers and the society, computers and the industry and services.

#### Areas of Activity

solutions

Smart and Sustainable Cities and Energy Efficient Buildings	<ul> <li>Factories of the Future</li> <li>FOF-09-2017 Novel design and predictive mainte-</li> </ul>
<ul> <li>EEB-05-2017 Development of near zero energy building renovation</li> <li>EEB-07-2017 Integration of energy harvesting at building and district level</li> <li>EEB-08-2017 New business models for energy-effi-</li> </ul>	<ul><li>nance technologies for increased operating life of production systems</li><li>FOF-12-2017 ICT Innovation for Manufacturing SMEs</li></ul>

#### **Cooperation Profiles**

lighthouse projects

cient buildings through adaptable refurbishment

 EE-12-2017 Integration of Demand Response in Energy Management Systems while ensuring interoperability through Public Private Partnership
 SCC-1-2016-2017 Smart Cities and Communities

### Partner: BigData Analysis and Prediction

The Dept. of Computer Engineering at METU has many research laboratories, including High-Performance Computing Lab, BigData and Innovation Lab, Software Defined Systems and IoT Lab, etc. Also, we have participated in FP6 SEE-GRID2, FP7 SEE-GRID-SCI and FP7 SCI-BUS projects, being WP Leader in the last two. Based on the background mentioned, we would like to join a project with our expertise in the fields of - IoT, Networking and Optimized Protocols, -Cloud Computing, Distributed Systems, HPC, - BigData Systems: NoSQL, Hadoop, Spark, Storm, etc., - Batch and Stream processing and analysis of BigData, - Optimized and High-Performance Solutions, - Data Analysis and Mining, Machine Learning, Prediction Methods, - Predictive analysis of BigData for Energy Consumption, Power Failures, etc., -Science Gateway technologies to submit, control, monitor and share operations, data and results.

# Mimar Sinan Fine Arts University

#### **Organisation Name**

Country	Turkey	
City	Istanbul	
Street	Meclis-i Mebusan	
Website	www.msgsu.edu.tr	
<b>Phone</b> +9053557348		
Organisation Type	University	

Person	
Name	Ömer AKSOYAK
Email	ekognozi@gmail.com
Job Position	Architect

#### **Organisation Details**

State University

#### Areas of Activity

Smart and Sustainable Cities and Energy Efficient Buildings

• SC5-21-2017: Cultural heritage as a driver for sustainable growth (Heritage-led rural regeneration)

#### **Cooperation Profiles**

### Coordinator: Mr. Omer Aksoyak

Heritage Management, academic researchs

# Mir Ar-Ge

Organisation Name	
Country	Turkey
City	Istanbul
Street	Yildiz Teknik Universitesi
Website	http://mirarge.com.tr/?lang=en
Phone	
<b>Organisation</b> Type	SME

Person	
Name	Rusen Can Acet
Email	rusencanacet@mirarge.com.tr
Job Position	R&D Engineer



#### **Organisation Details**

Mir Arastirma ve Gelistirme Inc. (Mir Ar-Ge) was founded in July 2007 as a sister company of Dizayn Grup Inc, who was founded in 1987 and now is one of the biggest plastic pipe producers in Turkey. Company staff has wide scientific and manufacturing experiences based on productive cooperation with universities for many years. All of the company's projects, patents and scientific articles have produced by this cooperation. Although the research & development capabilities of Mir Ar-Ge provide her an enormous advantage in many international projects,

Mir has research projects on Agriculture, Biomedical Science, Energy Science (Energy efficiency, low exergy heating cooling technologies, energy production and management ), Advanced Materials Science, Pipe Technology and its implementations, Pipe Production Technology, Computational modeling and analysis fields in addition to fluid transportation subjects as a professional R&D company.

Mir R&D Inc. has the sources following;

- CAD/CAM/CAE softwares and ability to use them efficiently, High performance work stations
- Building energy simulation test laboratory a pipe and fitting development and performance testing laboratory,
- Polymer composites laboratory for both thermoplastic and thermosetting composites production and testing,
- · General chemistry and electrochemical sensors evaluation and development laboratory,
- Coating and compounding facility including mini extrusion coating equipment, powder coating systems and mini twin-screw extruder,

Moreover Mir Ar-Ge takes an active part the cluster of water management (Acqueau) in Euroka as a member of board.

Recently, Mir Ar-Ge has involved in two European Projects which are R2CITIES and CITYFIED

Within the CITYFIED project, Mir have taken following roles:

- Designing district heating system and conducting R&D activities on piping components, -
- Low temperature radiant heating system design, implementation, commissioning.
- Research activities on various thermal insulation solutions

For further information please check the project website: http://www.cityfied.eu/

Within the R2CITIES project, Mir have taken following roles:

- Designing of Low temperature heating &cooling system to achieve better indoor environmental quality
- Research activities on indoor environmental quality
- Research Activities on innovative energy storage solutions
- Research activities on various thermal insulation solutions

· Contribution of solar thermal, waste management tasks

For further information please check the project website: http://r2cities.eu/

#### Areas of Activity

# Smart and Sustainable Cities and Energy Efficient Buildings

- EEB-05-2017 Development of near zero energy building renovation
- EEB-08-2017 New business models for energy-efficient buildings through adaptable refurbishment solutions
- EE-12-2017 Integration of Demand Response in Energy Management Systems while ensuring interoperability through Public Private Partnership
- SCC-1-2016-2017 Smart Cities and Communities lighthouse projects
- SCC-02-2016-2017 Demonstrating innovative nature-based solutions in cities
- SC5-08-2017 Large-scale demonstrators on naturebased solutions for hydro-meteorological risk reduction

#### **Cooperation Profiles**

### Partner: Thermo-Fluid and Energy Research

Mir Ar-Ge is a project-based Research and Development company working with interdisciplinary studies with its 60 employees from different sectors. The aim of our company is to develop technologies, products and processes in following fields: • Chemistry • Materials science : Polymers and Composites (continous, discontinous, bio-based, thermoplastics, thermoset matrices) • Agricultural sciences • Bioengineering, Biomedical sciences • Transport mechanisms -Fluid, heat, mass • Design, analysis, construction, mechanics, mechatronics Mir Ar-Ge's Thermo-Fluid and Energy Research Department is aiming to involve with projects related with energy efficiency and sustainability. We are mainly focused on energy efficient heating & cooling systems, low exergy energy systems, sustainable building solutions. In the other hand, Mir has capability to work in various subjects related with fluid dynamics, heat transfer and thermodynamics. Mir Ar-Ge aims to participate in Horizon 2020 calls as an R&D performer company (SME). MIR has been a partner in two smart cities projects are called R2CITIES and CITYFIED. Thermo-Fluid and Energy Research Department of Mir has capability to take following roles for the future projects: \*Low Exergy Heating and Cooling System design, development and research activities based on ECMs \*Research activities on Indoor environmental quality. \*Low temperature District Heating-Cooling System design and application (including Pipes, fittings and all sanitary products). \*Supporting BIM activities \*Supporting Building Energy Performance Analysis \*Research and Development Activities on indoor environmental quality (Computational Fluid Dynamics Simulations, Experimental Comfort Analysis) \*Research on renewable energy technologies \*Research on solar heating and thermal storage solutions. \*Research and development activities on innovative HVAC and building energy efficiency solutions. In our Simulation Lab: \*Thermal performance and efficiency tests of various heating-cooling systems can be performed by using multi-purpose testing room \*Local and general thermal comfort conditions in the testing room can be investigated according to ISO 7730 and ASHRAE 55. \*Additionally, comfort conditions of a human body in the testing room can also be simulated.

# Mir Araştırma ve Geliştirme A.Ş.

Organisation Name	
Country	Turkey
City	İstanbul
Street	Yıldız Teknik Üniversitesi Teknokenti, B2 Blok, No: 105, Esenler
Website	www.mirarge.com.tr
Phone	
Organisation Type	SME

Person		
Name	Zafer Gemici	- HILL STREET,
Email	zafer@mirarge.com	
Job Position	R&D Coordinator / Deputy General Manager	

#### **Organisation Details**

**M**ir Unique Solutions which was established as an R & D company in 1987, has put its pipe technology products on market, being the outcome of the first Research and Development activities by establishing Dizayn Group and up to today has carried out several R & D works related to pipe technologies and has achieved extraordinary success. With diversification of strategic areas over time, Mir Unique's R & D issues have increased and therewith Mir Unique has started to implement different R & D projects for different sectors.

In 2007, Mir Unique Solutions began operations in a techno-park as an R & D company developing the technology, developing the products and processes, performing initial trials by making pilot production and having all infrastructure required for them so that these studies excluded from the concentration of Dizayn Group can be more effectively carried out.

Mir Unique Solutions cooperates in the fields of the sales of technology and know-how, giving R& D services and the development of product and of joint R & D projects outside the Mir Unique as well as R & D services given to Mir Unique companies by this company. Company just concentrating on R & D has reached a turnover of 12 million Turk-ish Lira with only sale of know-how today. The studies are project-based and interdisciplinary studies.

Project leader, project team and infrastructure are created and collaborations are done with the universities for the issues appearing strategic and deciding to work on. Certainly, at least one academician is in every project and master's and doctoral students are included in the project team. Thus, the studies are implemented which are very strong academic aspects.

Mir Unique Solutions is active in the fields of:

- Transport processes (fluid, heat and mass transport),
- Materials science (polymers and composite structures),
- Construction, mechanism design, mechatronics,
- Computational flow analysis and structural analysis,
- Chemistry,
- Bioengineering,
- Agricultural sciences.

areas continues.

#### Areas of Activity

Smart and Sustainable Cities and Energy Efficient Buildings

EEB-05-2017 Development of near zero energy

building renovation

- EEB-06-2017 Highly efficient hybrid storage solutions for power and heat in residential buildings and district areas, balancing the supply and demand conditions
- EEB-07-2017 Integration of energy harvesting at building and district level
- EEB-08-2017 New business models for energy-efficient buildings through adaptable refurbishment solutions
- EE-12-2017 Integration of Demand Response in Energy Management Systems while ensuring interoperability through Public Private Partnership
- SCC-1-2016-2017 Smart Cities and Communities lighthouse projects
- SCC-02-2016-2017 Demonstrating innovative nature-based solutions in cities
- SC5-08-2017 Large-scale demonstrators on nature-based solutions for hydro-meteorological risk reduction
- SC5-21-2017: Cultural heritage as a driver for sustainable growth (Heritage-led rural regeneration)

# Mir Unique Solutions

#### Organisation Name

Country	Turkey
City	Istanbul
Street	YTÜ Teknopark B2/105 Esenler
Website	http://mirarge.com.tr/
Phone	+902124837070
Organisation Type	SME

Person		
Name	UMIT TURE	Large
Email	umitture@mirarge.com	
Job Position	M.Sc. Civil Engineer	

#### **Organisation Details**

Mir Unique Solutions which was established as an R&D company in 1987, has put its pipe technology products on market, being the outcome of the first Research and Development activities by establishing Dizayn Group and up to today has carried out several R & D works related to pipe technologies and has achieved extraordinary success. With diversification of strategic areas over time, Mir Unique's R & D issues have increased and therewith Mir Unique has started to implement different R & D projects for different sectors. In 2007, Mir Unique Solutions began operations in a techno-park as an R & D company developing the technology, developing the products and processes, performing initial trials by making pilot production and having all infrastructure required for them so that these studies excluded from the concentration of Dizayn Group can be more effectively carried out.

Mir Unique Solutions cooperates in the fields of the sales of technology and know-how, giving R& D services and the development of product and of joint R & D projects outside the Mir Unique as well as R & D services given to Mir Unique companies by this company. Company just concentrating on R & D has reached a turnover of 12 million Turk-ish Lira with only sale of know-how today. The studies are project-based and interdisciplinary studies.

Project leader, project team and infrastructure are created and collaborations are done with the universities for the issues appearing strategic and deciding to work on. Certainly, at least one academician is in every project and master's and doctoral students are included in the project team. Thus, the studies are implemented which are very strong academic aspects.

Mir has TS EN ISO 9001:2008 Quality Management System certification and uses Quality as a basic tool with which to obtain products and services in line with the characteristics and requirements of each customer.

Mir Unique Solutions is active in the fields of:

- Transport processes (fluid, heat and mass transport),
- Materials science (polymers and composite structures),
- Construction, mechanism design, mechatronics,
- Computational flow analysis and structural analysis,
- Chemistry,
- Bioengineering,
- Agricultural sciences.
- Civil engineering

### umitture@mirarge.com

### https://tr.linkedin.com/in/ümit-türe-2273901a

### Areas of Activity

Smart and Sustainable Cities and Energy Efficient Buildings Large

- EEB-05-2017 Development of near zero energy building renovation
- EEB-06-2017 Highly efficient hybrid storage solutions for power and heat in residential buildings and district areas, balancing the supply and demand conditions
- EEB-07-2017 Integration of energy harvesting at building and district level
- EEB-08-2017 New business models for energy-efficient buildings through adaptable refurbishment solutions
- SCC-1-2016-2017 Smart Cities and Communities lighthouse projects
- SCC-02-2016-2017 Demonstrating innovative nature-based solutions in cities

### **Cooperation Profiles**

### Partner: Civil Engineering Technologies

Civil Engineering department we are 3 engineers with MS degree. 1) Mr. Ümit Türe (Department chief) : Civil engineer with MS degree in structural engineering. Has 17 years of experience in civil / water engineering and has worked on a broad range of projects, especially in sea discharges, water&wastewater treatment plants, infrastructure projects (water supply and sanitation). He has experience working with both contractors and consultant engineers, from project identification and feasibility studies to detailed design and construction supervision. He is also experienced in tender works prepared as per Turkish Legislation of Construction and also per FIDIC. Mr. Türe is a proven team player with excellent skills in communication and consensus building. 2) Mr. Babak Rouzegari : Civil engineer with MS degree in geotechnical engineering. His doctorate study which is related to computer modelling of plastic pipes-soil interaction, has just launched. We can contribute to tasks related to; - pipe hydraulics - pipe mechanics, - soil mechanics, - cost calculation of civil works, - construction planning.

# Municipality of Kartal

#### **Organisation Name**

Country	Turkey
City	Kartal/İstanbul
Street	Yukarı mahallesi Belediye Cad. No:6
Website	www.kartal.bel.tr
Phone	
Organisation Type	Authority/Government

Person	
Name	Burak Korkmaz
Email	burakkorkmaz@kartal.bel.tr
Job Position	Architect

#### **Organisation Details**

Municipality of Kartal

#### Areas of Activity

#### SPIRE-Circular Economy Session

• CIRC-01-2017 Systemic, eco-innovative approaches for the circular economy large-scale demonstration projects

# Smart and Sustainable Cities and Energy Efficient Buildings

- SCC-1-2016-2017 Smart Cities and Communities lighthouse projects
- SC5-21-2017: Cultural heritage as a driver for sustainable growth (Heritage-led rural regeneration)

#### **Cooperation Profiles**

**Partner:** We are interested in Energy Efficiency, Sustainability, Green Buildings, Smart Grids and Smart City Projects

We are looking forward to have a partner or a follower city role in new projects. We are interested in CIRC-01, GV-10, SCC-1, SC5-21 proposals. We do have experience in EU projects. We completed 2 societal projects (Enhancing Services for People with Disabilities) and currently in a FP7 project (R2CITIES) as a partner.

# Municipality of Çukurova

Organisation Name

Country	Turkey
City	Adana
Street	Türkmenbaşı Bulvarı No:62
Website	http://www.cukurova.bel.tr/
Phone	
Organisation Type	Authority/Government



# Person Name Suna TOKTAŞ Email toktassuna@hotmail.com Job Position Director External Relations



#### **Organisation Details**

With its population of 340.473 the district of Çukurova is a central district where is connected to the city of Adana, TURKEY. Çukurova County is one of the 4 central counties, the most advanced, the most advancing one because of its location. The surface area of Çukurova County is 24.008 hectares and the county has 27 neighborhood. 407 staff have been working in 32 departments in our Municipality. Our municipality which was established in 2008, carries out activities and performances with the aim of turning our county to a more modern place to live which is ruled democratically and participative in the fields of economic, social and cultural. Also, our municipality aims to embrace people from every race and every religion. And aims to create county where all this people can live more brotherly.

With the aim of enhancing the life standards of our county and bring it into a prestigious city, we want to serve fairly, quality, productively and effectively by using national and international funds and grants at maximum possibility too.

As a municipality; we care about every type of work to be done in the context of energy, renewable energy, environment and sustainable waste management.

We would like you to know that we can collaborate in the works about the topics of energy, renewable energy, environment and sustainable waste management. We would like to carry out collaborative works with institutions and organizations which provide grant in this field or which want to invest in this field. We will be grateful if you inform us about this topic.

#### Areas of Activity

# Smart and Sustainable Cities and Energy Efficient Buildings

- EE-12-2017 Integration of Demand Response in Energy Management Systems while ensuring interoperability through Public Private Partnership
- SCC-02-2016-2017 Demonstrating innovative nature-based solutions in cities

#### **Cooperation Profiles**

Partner: Finding of partners about energy and enviromental issues.

#### Turkey

### NETAS

Organisation Name	
Country	Turkey
City	Istanbul
Street	Yenişehir Mah. Osmanlı Bulvarı No:11 Esas Aeropark Binası
Website	
Phone	
Organisation Type	Company
Person	
Name	ONUR ARPACIOGLU
Email	onura@neteas.com.tr
Job Position	R&D Manager and Software Architect

#### **Organisation Details**

Netas provides innovative end-to-end value added systems integration and technology services in the fields of information and communications technologies (ICT). Its customers range from telco providers to public and private enterprises in domestic and international markets. Netas's constant increase in productivity is based on its next generation competencies around technology skillset and expertise. The company holds a track-record of 49 years and continues its foray in the field of information technologies, supported by with its experienced, best of breed research and development department. Netas also plays an important role in the modernization of the Turkish Armed Forces defense communication networks.

Within the Turkey's first 500 Companies', Netas, awarded 4 times as the "Software Export Champion" developing software solutions for more than 160 global operators within the region. According to the financial results of first 500 companies in 2014, Netas continues its leadership in " Network Hardware of the Year" and " System Integrator - Hardware of the Year " categories. The company, provides its customers with networking, security, unified communications, virtualization, cloud computing, broadband access, defense technologies, optical and carrier Ethernet, GSM-R, IT integration services, strategic outsourcing and tailored software development solutions. Netas provides extensive and goal oriented services, ranging from technology consultancy to post-sale assistance for government entities, companies and defense contractors in the Asia-Pacific, CIS and North African territories.

Netas's majority shareholders are OEP (One Equity Partners) Turkey Tech B.V with 48,04% and The Turkish Armed Forces Foundation with 15%. The remaining shares of 36,96% are traded on Borsa Istanbul (BIST).

#### Turkey

### NETAS

Organisation Name	
Country	Turkey
City	Istanbul
Street	Yenişehir Mah. Osmanlı Bulvarı No:11 Esas Aeropark Binası
Website	
Phone	
Organisation Type	Company
Person	
Name	ONUR ARPACIOGLU
Email	onura@netas.com.tr
Job Position	R&D Manager and Software Architect

#### **Organisation Details**

Netas provides innovative end-to-end value added systems integration and technology services in the fields of information and communications technologies (ICT). Its customers range from telco providers to public and private enterprises in domestic and international markets. Netas's constant increase in productivity is based on its next generation competencies around technology skillset and expertise. The company holds a track-record of 49 years and continues its foray in the field of information technologies, supported by with its experienced, best of breed research and development department. Netas also plays an important role in the modernization of the Turkish Armed Forces defense communication networks.

Within the Turkey's first 500 Companies', Netas, awarded 4 times as the "Software Export Champion" developing software solutions for more than 160 global operators within the region. According to the financial results of first 500 companies in 2014, Netas continues its leadership in " Network Hardware of the Year" and " System Integrator - Hardware of the Year " categories. The company, provides its customers with networking, security, unified communications, virtualization, cloud computing, broadband access, defense technologies, optical and carrier Ethernet, GSM-R, IT integration services, strategic outsourcing and tailored software development solutions. Netas provides extensive and goal oriented services, ranging from technology consultancy to post-sale assistance for government entities, companies and defense contractors in the Asia-Pacific, CIS and North African territories.

Netas's majority shareholders are OEP (One Equity Partners) Turkey Tech B.V with 48,04% and The Turkish Armed Forces Foundation with 15%. The remaining shares of 36,96% are traded on Borsa Istanbul (BIST).

#### Turkey

### NETAS

Organisation Name	
Country	Turkey
City	istanbul
Street	Yenişehir Mah. Osmanlı Bulvarı No:11
Website	
Phone	
Organisation Type	Company
-	
Person	

i ci son	
Name	Mehmet Dagli
Email	mdagli@netas.com.tr
Job Position	Engineer

#### **Organisation Details**

Netas provides innovative end-to-end value added systems integration and technology services in the fields of information and communications technologies (ICT). Its customers range from telco providers to public and private enterprises in domestic and international markets. Netas's constant increase in productivity is based on its next generation competencies around technology skillset and expertise. The company holds a track-record of 47 years and continues its foray in the field of information technologies, supported by with its experienced, best of breed research and development department. Netas also plays an important role in the modernization of the Turkish Armed Forces defense communication networks.

Netas charters its vision to become Turkey's and Region's #1 systems integrator working as per global standards. The company provides a wide array of services to enterprises functioning in various vertical segments, particularly telco providers, finance and general industry. The company nurtures strategic partnerships with global technology giants to provide its customers an insight helps them keep pace with the latest developments in the field of ICT and adopt them more efficiently, and continues to develop software solutions for more than 200 global operators.

In 2013, Netas was selected by Cisco as the "Global Enterprise Partner Of The Year". On "Top 500 ICT Companies" survey, Netas excelled against 500 other Turkish companies to win the title "Software Export Champion" three times in the last seven years, and 2013 took the first place in "Systems Integrator", "Network Hardware" and "Software Export" categories amongs other systems integrators. In patent applications, Netas ranked 2nd in the telecom sector and 7th in Turkey with 34 patent applications in 2013. Netas was also selected as the "Most successful R&D Center in Turkish telecom sector" amongs 69 R&D Centers, based on 2012 performance index evaluation of Turkish Ministry of Science, Industry and Technology.

The company, with 23% CAGR in revenue in the last 7 years, provides its customers with networking, security, unified communications, virtualization, cloud computing, broadband access, defense technologies, optical and carrier Ethernet, GSM-R, IT integration services, strategic outsourcing and tailored software development solutions. Netas provides extensive and goal oriented services, ranging from technology consultancy to post-sale assistance for government entities, companies and defense contractors in the Asia-Pacific, CIS and North African territories.

#### Areas of Activity

#### Factories of the Future

 FOF-12-2017 ICT Innovation for Manufacturing SMEs

## NETAS

Organisation Name	
Country	Turkey
City	istanbul
Street	kurtkoy
Website	
Phone	
Organisation Type	Company

Person	
Name	Ozlem Demir
Email	ozlem.demir@netas.com.tr
Job Position	Team Leader

#### **Organisation Details**

NETAS is the one of the Biggest Telecommunication Company in Turkey.

#### Areas of Activity

#### Factories of the Future

- FOF-06-2017 New product functionalities through advanced surface manufacturing processes for mass production
- FOF-07-2017 Integration of unconventional technologies for multi-material processing into manufacturing systems
- FOF-08-2017 In-line measurement and control for micro-/nano-enabled high-volume manufacturing for enhanced reliability
- FOF-09-2017 Novel design and predictive maintenance technologies for increased operating life of production systems
- FOF-10-2017 New technologies and life cycle management for reconfigurable and reusable customised products
- FOF-12-2017 ICT Innovation for Manufacturing SMEs

#### Smart and Sustainable Cities and Energy Efficient Buildings

- EEB-05-2017 Development of near zero energy building renovation
- EEB-06-2017 Highly efficient hybrid storage solutions for power and heat in residential buildings and district areas, balancing the supply and demand conditions
- EEB-07-2017 Integration of energy harvesting at building and district level
- EEB-08-2017 New business models for energy-efficient buildings through adaptable refurbishment solutions
- EE-12-2017 Integration of Demand Response in Energy Management Systems while ensuring interoperability through Public Private Partnership
- SCC-1-2016-2017 Smart Cities and Communities lighthouse projects
- SCC-02-2016-2017 Demonstrating innovative nature-based solutions in cities
- SC5-08-2017 Large-scale demonstrators on nature-based solutions for hydro-meteorological risk reduction
- SC5-21-2017: Cultural heritage as a driver for sustainable growth (Heritage-led rural regeneration)

#### **Cooperation Profiles**

### Partner: NETAS Partner

### NETAS

Organisation Name	
Country	Turkey
City	Kurtkoy
Street	Areopark No:11
Website	www.netas.com.tr
Phone	
Organisation Type	R&D Institution

Person	
Name	Senay Demirel
Email	stuna@netas.com.tr
Job Position	Project Manager



#### **Organisation Details**

Netas R&D group, inducted in 1973, is the first private telecoms R&D in Turkey. It takes a vital place in the Turkish ICT sector via solutions developed for customers ranging from telcos to public and private enterprises in local and international markets, while playing an important role in the modernization of the Turkish Armed Forces defense communications networks.

Netas R&D achieved significant milestones in installing communications infrastructure of Turkey during the course of its forthy-year journey, while pioneering the transition from crossbar to analog, analog to digital, and digital to next generation technologies in Turkey.

Some of the many products designed and developed by Netas R&D are:

- First automatic local and trunk switch,
- First urban switch,
- First rural switch,
- First power systems,
- First wireless DECT telephone,
- Next generation optical transmission systems,
- First Packet Switched Data Network.

We are one of the world's leading VoIP laboratories offering software solutions to more than 160 global operators. As a result of intensive technology transfers, we gained Global R&D Center status (Center of Excellence) in 2007 and R&D Center Status in 2008 in accordance with the act no. 5746 from the Government of Turkey.

We provide integrated communications solutions for the leading global companies, telecom operators and public agencies and bodies as well as defense industry with an R&D unit consisting of 700 engineers, 26% of which holding graduate degrees.

We excelled against 500 other Turkish companies to win the title "Software Export Champion" three times in the last five years with the software solutions we exported.

#### **Areas of Activity**

#### SPIRE-Circular Economy Session

- SPIRE-11-2017 Support for the enhancement of the impact of SPIRE PPP projects
- SPIRE-13-2017 Potential of Industrial Symbiosis in Europe

# Smart and Sustainable Cities and Energy Efficient Buildings

- SCC-1-2016-2017 Smart Cities and Communities lighthouse projects
- SCC-02-2016-2017 Demonstrating innovative nature-based solutions in cities

#### **Factories of the Future**

 FOF-12-2017 ICT Innovation for Manufacturing SMEs

### netas

Organisation Name	
Country	Turkey
City	istanbul
Street	Osmanli Bulvari
Website	
Phone	
Organisation Type	Company

Person	
Name	Mehmet Nuri Demirel
Email	mdemirel@netas.com.tr
Job Position	Design manager

#### **Organisation Details**

Netas provides innovative end-to-end value added systems integration and technology services in the fields of information and communications technologies (ICT). Its customers range from telco providers to public and private enterprises in domestic and international markets.

#### Areas of Activity

#### Factories of the Future

- FOF-07-2017 Integration of unconventional technologies for multi-material processing into manufacturing systems
- FOF-10-2017 New technologies and life cycle management for reconfigurable and reusable customised products

# Smart and Sustainable Cities and Energy Efficient Buildings

- EEB-08-2017 New business models for energy-efficient buildings through adaptable refurbishment solutions
- SCC-1-2016-2017 Smart Cities and Communities lighthouse projects
- SCC-02-2016-2017 Demonstrating innovative nature-based solutions in cities

#### The European Green Vehicles Initiative

- GV-04-2017 Next generation electric drivetrains for fully electric vehicles, focusing on high efficiency and low cost
- GV-05-2017 Electric vehicle user-centric design for optimised energy efficiency
- GV-07-2017 Multi-level modelling and testing of electric vehicles and their components

### Netas

Organisation Name	
Country	Turkey
City	İstanbul
Street	Yenişehir Mah. Osmanlı Bulvarı
Website	www.netas.com.tr
Phone	
Organisation Type	Company

Person	
Name	Rıza Durucasugil
Email	rizad@netas.com.tr
Job Position	Director

#### **Organisation Details**

Netas provides innovative end-to-end value added systems integration and technology services in the fields of information and communications technologies (ICT). Its customers range from telco providers to public and private enterprises in domestic and international markets. Netas's constant increase in productivity is based on its next generation competencies around technology skillset and expertise. The company holds a track-record of 49 years and continues its foray in the field of information technologies, supported by with its experienced, best of breed research and development department. Netas also plays an important role in the modernization of the Turkish Armed Forces defense communication networks.

Within the Turkey's first 500 Companies', Netas, awarded 4 times as the "Software Export Champion" developing software solutions for more than 160 global operators within the region. According to the financial results of first 500 companies in 2014, Netas continues its leadership in " Network Hardware of the Year" and " System Integrator - Hardware of the Year " categories. The company, provides its customers with networking, security, unified communications, virtualization, cloud computing, broadband access, defense technologies, optical and carrier Ethernet, GSM-R, IT integration services, strategic outsourcing and tailored software development solutions. Netas provides extensive and goal oriented services, ranging from technology consultancy to post-sale assistance for government entities, companies and defense contractors in the Asia-Pacific, CIS and North African territories.

Netas's majority shareholders are OEP (One Equity Partners) Turkey Tech B.V with 48,04% and The Turkish Armed Forces Foundation with 15%. The remaining shares of 36,96% are traded on Borsa Istanbul (BIST).

### Netas

Organisation Name	
Country	Turkey
City	İstanbul
Street	Yenişehir Mah. Osmanlı Bulvarı No:11 Kurtköy- Pendik
Website	
Phone	
Organisation Type	Company
Person	
Name	Utku Ozbek
Email	uozbek@netas.com.tr
Job Position	Software Development Man- ager

#### **Organisation Details**

Netas provides innovative end-to-end value added systems integration and technology services in the fields of information and communications technologies (ICT). Its customers range from telco providers to public and private enterprises in domestic and international markets. Netas's constant increase in productivity is based on its next generation competencies around technology skillset and expertise. The company holds a track-record of 47 years and continues its foray in the field of information technologies, supported by with its experienced, best of breed research and development department. Netas also plays an important role in the modernization of the Turkish Armed Forces defense communication networks.

Netas charters its vision to become Turkey's and Region's #1 systems integrator working as per global standards. The company provides a wide array of services to enterprises functioning in various vertical segments, particularly telco providers, finance and general industry. The company nurtures strategic partnerships with global technology giants to provide its customers an insight helps them keep pace with the latest developments in the field of ICT and adopt them more efficiently, and continues to develop software solutions for more than 200 global operators.

2013, Netas was selected by Cisco as the "Global Enterprise Partner Of The Year". On "Top 500 ICT Companies" survey, Netas excelled against 500 other Turkish companies to win the title "Software Export Champion" three times in the last seven years, and 2013 took the first place in "Systems Integrator", "Network Hardware" and "Software Export" categories amongs other systems integrators. In patent applications, Netas ranked 2nd in the telecom sector and 7th in Turkey with 34 patent applications in 2013. Netas was also selected as the "Most successful R&D Center in Turkish telecom sector" amongs 69 R&D Centers, based on 2012 performance index evaluation of Turkish Ministry of Science, Industry and Technology.

The company, with 23% CAGR in revenue in the last 7 years, provides its customers with networking, security, unified communications, virtualization, cloud computing, broadband access, defense technologies, optical and carrier Ethernet, GSM-R, IT integration services, strategic outsourcing and tailored software development solutions. Netas provides extensive and goal oriented services, ranging from technology consultancy to post-sale assistance for government entities, companies and defense contractors in the Asia-Pacific, CIS and North African territories.

Netas's majority shareholders are OEP (One Equity Partners) Turkey Tech B.V with 48,04% and The Turkish Armed Forces Foundation with 15%. The remaining shares of 36,96% are traded on Borsa Istanbul (BIST).

#### **Areas of Activity**

SPIRE-Circular Economy Session	Smart and Sustainable Cities and Energy Efficient
<ul> <li>CIRC-02-2017 Water in the context of the circular</li> </ul>	Buildings
economy	<ul> <li>SCC-1-2016-2017 Smart Cities and Communities</li> </ul>
	lighthouse projects
Factories of the Future	<ul> <li>SCC-02-2016-2017 Demonstrating innovative na-</li> </ul>

- FOF-10-2017 New technologies and life cycle management for reconfigurable and reusable customised products
- FOF-12-2017 ICT Innovation for Manufacturing SMEs

ture-based solutions in cities

#### The European Green Vehicles Initiative

• GV-07-2017 Multi-level modelling and testing of electric vehicles and their components

#### **Cooperation Profiles**

### Partner: Netas

We would like to join activities and projects around Smart City concepts and Energy efficency topics. We would possibly join as a partner for now. As a big company, we have some expertise around IoT, M2M, 4G/5G, Multimedia communications, E-learning. We have been involved into several Celtic projects like UNITed, Virtuoze, etc. and we had some proposals before for H2020 which were labed but now funded.

# Netas Telecommunication

#### **Organisation Name**

Country	Turkey
City	Istanbul
Street	Osmanli Bulvari
Website	www.netas.com.tr
Phone	
Organisation Type	Company

Person	
Name	Ugur ACAR
Email	uacar@netas.com.tr
Job Position	Media R&D Unit Manager

#### **Organisation Details**

Leading Telco, IOT, M2M, Big Data R&D company more than 900+ employee.

#### Areas of Activity

#### SPIRE-Circular Economy Session

• SPIRE-09-2017 Pilot lines based on more flexible and down-scaled high performance processing

#### Factories of the Future

- FOF-06-2017 New product functionalities through advanced surface manufacturing processes for mass production
- FOF-07-2017 Integration of unconventional technologies for multi-material processing into manufacturing systems
- FOF-08-2017 In-line measurement and control for micro-/nano-enabled high-volume manufacturing for enhanced reliability
- FOF-09-2017 Novel design and predictive maintenance technologies for increased operating life of production systems
- FOF-12-2017 ICT Innovation for Manufacturing SMEs

#### Smart and Sustainable Cities and Energy Efficient Buildings

- EEB-05-2017 Development of near zero energy building renovation
- EEB-07-2017 Integration of energy harvesting at building and district level
- SC5-21-2017: Cultural heritage as a driver for sustainable growth (Heritage-led rural regeneration)

#### The European Green Vehicles Initiative

- GV-04-2017 Next generation electric drivetrains for fully electric vehicles, focusing on high efficiency and low cost
- GV-05-2017 Electric vehicle user-centric design for optimised energy efficiency
- GV-07-2017 Multi-level modelling and testing of electric vehicles and their components

# Netaş

Organisation Name		
Country	Turkey	
City	İstanbul	
Street	Osmanlı bulvarı No:11	
Website		
Phone		
Organisation Type	Company	

Person	
Name	sait şener
Email	ssener@netas.com.tr
Job Position	Analysis, Architecture and Project Management Office Senior Manager

#### **Organisation Details**

Telecommunication and R&D Company

#### Areas of Activity

Smart and Sustainable Cities and Energy Efficient Buildings

- EEB-05-2017 Development of near zero energy building renovation
- EEB-06-2017 Highly efficient hybrid storage solutions for power and heat in residential buildings and district areas, balancing the supply and demand conditions
- EEB-07-2017 Integration of energy harvesting at building and district level
- EEB-08-2017 New business models for energy-efficient buildings through adaptable refurbishment solutions
- EE-12-2017 Integration of Demand Response in Energy Management Systems while ensuring interoperability through Public Private Partnership
- SCC-1-2016-2017 Smart Cities and Communities lighthouse projects
- SCC-02-2016-2017 Demonstrating innovative nature-based solutions in cities
- SC5-08-2017 Large-scale demonstrators on nature-based solutions for hydro-meteorological risk reduction
- SC5-21-2017: Cultural heritage as a driver for sustainable growth (Heritage-led rural regeneration)

#### **Cooperation Profiles**

### Partner: Strong Interest in Smart Cities

We have strong interest in Smart Cities, espacially in Smart Lighting, Automated Demand Response and Energy Saving. We would like to collaborate as partner in the appropriate projects. Our company, Netas Telecommunication, is a large company, having 700+ R&D engineers and 2000+ employess. Netas provides innovative end-to-end value added systems integration and technology services in the ICT field. Our vision is to become Turkey's and the region's #1 system integrator working as per global standards. One of our section has already completed an AMR (Automated Meter Reading) project with innovative communication protocol and techniques. We are now focused on the other pieces of the puzzle, namely smart lighting, automated demand response, etc. Besides these projects in the field of energy, Netas has participated in several H2020, CelticPlus and ITEA projects. Some of them are listed below: - TEM-PEST: Transforming Emergency Management resPonses to Extreme weather SiTuations (H2020) - HYLIOT: It is focused on developing support for a Hyper Local IoT architecture/platform gathering into a flexible manner multiple communities of IoT devices and people (H2020) - ReBaT: The Reputation Based Trust Ecosystem (H2020) - CINFIP: Collection and management of INternet Forensic evidence material with Investigative support and respect for Privacy (H2020) -DICE-IoT: Proposes a novel environment for Internet of Things (IoT) applications that is highly distributed, flexible, extendable and scalable (H2020 proposal) - ENERGETICI: To design and develop a dynamically expandable, dependable IoT network platform for wireless network devices that encompass cognitive and distributed spectrum allocation capabilities for energy-efficiency reliable connectivity (H2020 proposal) - Zen-Auto Test: A Holistic Approach to Model-Based and Search-Based Testing of Autonomous Behaviours of Internet of Things (H2020 proposal) - WINS@HI: Wearable IoT Network Solution for Work Safety in Hazardous Industrial Environments (Celtic+) - STeM: Secure Transactions & e-Medical care (Celtic+) - UNITed: Utilization of NFV to support IoT services in heterogeneous networks and clouds (Celtic+) - APPSTACLE: open standard APplication Platform for carS and TrAnsportation vehiCLEs (ITEA) - EWatch: Extensive Personal Monitoring and Watch Platform (ITEA) - Safe Rescue: Decision Support Software - a platform to improve situational awareness for emergency responders (ITEA) - SDHDMP: Sensor Driven Health Data Messaging Platform (ITEA)

# NOVUSENS Innovation and Entrepreneurship Institute

#### **Organisation Name**

Turkey
ANKARA
Halici Sok, No:12/1
www.novusens.com
Consulting

Person	
Name	Berrin Benli
Email	berrin.benli@novusens.com
Job Position	Co-Founder



#### **Organisation Details**

**NOVUSENS" Innovation & Entrepreneurship Institute**" is an Ankara, Turkey based, for-profit, independent "**THINK TANK**" organization developing innovation policies and strategies, using high technologies to increase the life quality of the people, focusing on new opportunities to contribute economic growth, developing new innovative models to shape the future to have better lives, making research studies, delivering professional consultancy and training services in Turkey and abroad.

The vision of NOVUSENS Innovation & Entrepreneurship Institute is to contribute to the "Sustainable Development" through Technological and Social "Sustainable" Innovation.

"Innovation in ICT" is the primary focus area of NOVUSENS especially "Smart Cities" and "Data Innovation" fields.

NOVUSENS has taken "Societal Challenges" and "Industrial Leadership" pillars as the priority areas in H2020 programme as NOVUSENS has been delivering professional consultancy services in these areas for many years (and (The Co-Founders of NOVUSENS have broad experience in ICT as they have been working for ICT Industry for more than 30 years).

To get more information about NOVUSENS Innovation and Entrepreneurship Institute, please visit www.novusens.com

To get more information about "Big Data and Smart City Institute of NOVUSENS" please visit www.buyukverienstitusu.com and www.akillisehirenstitusu.com

#### **Areas of Activity**

#### SPIRE-Circular Economy Session

• CIRC-01-2017 Systemic, eco-innovative approaches for the circular economy large-scale demonstration projects

#### **Factories of the Future**

 FOF-12-2017 ICT Innovation for Manufacturing SMEs

#### Smart and Sustainable Cities and Energy Efficient Buildings

- EEB-08-2017 New business models for energy-efficient buildings through adaptable refurbishment solutions
- SCC-1-2016-2017 Smart Cities and Communities lighthouse projects
- SCC-02-2016-2017 Demonstrating innovative nature-based solutions in cities
- SC5-08-2017 Large-scale demonstrators on nature-based solutions for hydro-meteorological risk reduction

#### **Cooperation Profiles**

### Coordinator: NOVUSENS Smart City and Big Data Institute

"Thought Leadership in Smart Cities", Smart Cities Best Practices and Case Studies, "Data Innovation" - "Big Data and Analytics", "Education in Smart Cities", "Technology Assisted Indpendent Living in Smart Cities", "Smart Cities in Digi-

tal Economy", Smart Cities and Sustainable Development, Smart Cities Current Situation al Analysis, Smart City Strategies and Roadmap. www.novusens.com www.akillisehirenstitusu.com

## Novusens Innovation and Entrepreneurship Institute

Organisation Name

Country	Turkey
City	Ankara
Street	Halici Sok No. 12-1 GOP
Website	www.novusens.com
Phone	
Organisation Type	Consulting

Person	
Name	Melih Gezer
Email	melih.gezer@novusens.com
Job Position	Co-Founder

#### **Organisation Details**

**NOVUSENS" Innovation & Entrepreneurship Institute**" is an Ankara, Turkey based, for-profit, independent "**THINK TANK**" organization developing innovation policies and strategies, using high technologies to increase the life quality of the people, focusing on new opportunities to contribute economic growth, developing new innovative models to shape the future to have better lives, making research studies, delivering professional consultancy and training services in Turkey and abroad.

The vision of NOVUSENS Innovation & Entrepreneurship Institute is to contribute to the "Sustainable Development" through Technological and Social "Sustainable" Innovation.

"Innovation in ICT" is the primary focus area of NOVUSENS especially "Smart Cities" and "Data Innovation" fields.

NOVUSENS has taken "Societal Challenges" and "Industrial Leadership" pillars as the priority areas in H2020 programme as NOVUSENS has been delivering professional consultancy services in these areas for many years (and (The Co-Founders of NOVUSENS have broad experience in ICT as they have been working for ICT Industry for more than 30 years).

To get more information about NOVUSENS Innovation and Entrepreneurship Institute, please visit www.novusens.com

To get more information about "Big Data and Smart City Institute of NOVUSENS" please visit www.buyukverienstitusu.com and www.akillisehirenstitusu.com

#### **Areas of Activity**

#### **Factories of the Future**

 FOF-12-2017 ICT Innovation for Manufacturing SMEs

# Smart and Sustainable Cities and Energy Efficient Buildings

- EEB-08-2017 New business models for energy-efficient buildings through adaptable refurbishment solutions
- SCC-1-2016-2017 Smart Cities and Communities lighthouse projects
- SCC-02-2016-2017 Demonstrating innovative nature-based solutions in cities
- SC5-21-2017: Cultural heritage as a driver for sustainable growth (Heritage-led rural regeneration)

#### The European Green Vehicles Initiative

• GV-04-2017 Next generation electric drivetrains for fully electric vehicles, focusing on high efficiency and low cost

#### Cooperation Profiles

Turkey

### Coordinator: Novusens Smart City and Big Data Institute

"Thought Leadership in Smart Cities", Smart Cities Best Practices and Case Studies, "Data Innovation" - "Big Data and Analytics", "Education in Smart Cities", "Technology Assisted Indpendent Living in Smart Cities", "Smart Cities in Digital Economy", Smart Cities and Sustainable Development, Smart Cities Current Situation al Analysis, Smart City Strategies and Roadmap. www.novusens.com www.akillisehirenstitusu.com

# ODTÜ - METU MATPUM

Country	Turkey
City	Ankara
Street	ODTU Mimarlik Fak Mimarlik Bol
Website	
Phone	
Organisation Type	University

Koray Pekeriçli
koray@metu.edu.tr
Asst.Prof.



#### **Organisation Details**

METU Research and Implementation Centre for Built Environment and Design (RICBED) aims to share the university's knowledge and culture in an institutionalized manner with other stakeholders in research and implementation field, via which educational medium will benefit from its reflections. The overall objective of the research centre is to string architectural media, architectural private firms, construction firms, design offices, public institutions, other universities, other departments, different groups of design and different disciplines together under one institutional structure in order to reach a collective production milieu.

#### Areas of Activity

# Smart and Sustainable Cities and Energy Efficient Buildings

- EEB-05-2017 Development of near zero energy building renovation
- EEB-06-2017 Highly efficient hybrid storage solutions for power and heat in residential buildings and district areas, balancing the supply and demand conditions
- EEB-07-2017 Integration of energy harvesting at building and district level
- EEB-08-2017 New business models for energy-efficient buildings through adaptable refurbishment solutions
- EE-12-2017 Integration of Demand Response in Energy Management Systems while ensuring interoperability through Public Private Partnership
- SCC-1-2016-2017 Smart Cities and Communities lighthouse projects
- SCC-02-2016-2017 Demonstrating innovative nature-based solutions in cities
- SC5-08-2017 Large-scale demonstrators on nature-based solutions for hydro-meteorological risk reduction
- SC5-21-2017: Cultural heritage as a driver for sustainable growth (Heritage-led rural regeneration)

#### **Cooperation Profiles**

Partner: Smart Cities, Smart Buildings, Demand Planning and Control, Integrated Building

ODTU

### Management Solutions

MATPUM research center has completed an FP7 project, titled Hegel. The research center has many other research projects completed at national level, too.

# Onur Enerji

Organisation Name		
Country	Turkey	Large
City	İzmir	
Street	ideEge TGB MERCAN KONTEYNER PARK NO:172/70 N EGE ÜNİVERSİTESİ KAMPÜSÜ	
Website	http://www.onurenerji.com.tr	
Phone		
Organisation Type	SME	
Person		
Name	Onur Gunduru	Large
Email	onur.gunduru@onurenerji.com.tr	

#### **Organisation Details**

...ТВС...

**Job Position** 

#### Areas of Activity

#### Factories of the Future

 FOF-10-2017 New technologies and life cycle management for reconfigurable and reusable customised products

CEO

• FOF-12-2017 ICT Innovation for Manufacturing SMEs

# Smart and Sustainable Cities and Energy Efficient Buildings

- EEB-05-2017 Development of near zero energy building renovation
- EEB-06-2017 Highly efficient hybrid storage solutions for power and heat in residential buildings and district areas, balancing the supply and demand conditions
- EEB-07-2017 Integration of energy harvesting at building and district level
- EEB-08-2017 New business models for energy-efficient buildings through adaptable refurbishment solutions

#### **Cooperation Profiles**

### Partner: Energy Efficiency Partner

We offer top class energy efficiency projects, applications and sustainable renewable energy solutions to our reputable clients. We are one of the best companies in energy efficiency in Turkey. Along with energy audits, energy certificates, energy & green consultancy services, we are providing a range of measurements (Thermal Imaging, Flue Gas, Flow, Carbon, Ultrasonic Analysis, etc) with our inhouse accredited equipment. We are also a partner in the BRICKER (7th FP funded) project aiming beyond 50% drastic energy demand reduction in the public building stock.

# Optonom Scientific Instruments Co.

#### Organisation Name

Country	Turkey
City	İzmir
Street	Teknopark İzmir A8 Binası No:1 Urla
Website	www.optonom.com.tr
Phone	00905442507055
Organisation Type	SME



# PersonNameMehmet KıvançEmailinfo@optonom.com.trJob PositionR&D Manager



#### **Organisation Details**

Optonom Scientific Instruments Company has been established at the location of Technopark İzmir, mainly to develop and produce high precision scientific measurement instruments and optical image processing machines. Optonom able to react very quickly to the latest market demands with novel creative solutions.

The company has very well qualified employees who are experienced on optical design, image processing software, heat controlled automated machines and high temperature thermal analysis furnaces who are coming from different background like biotechnology, bioengineering, computer science, electronics and physics engineering. Also company offers patented high precision optical measuring system with pixel base image analysis software.

Optonom Scientific Instruments develops tailor made Optical Visual Inspection System for Qualty Control in Production Facilities and Factories. Also optical dilatometer and laboratory high temperature furnaces are produced in facility.

Optonom VIS-301 model visual Inspection system has been developed as a result of long R&D activities to meet the needs of production lines quality control in factories and production facilities.

High-resolution image sensor by an optical system to analyze in real time the desired part or product analysis can be performed. Therefore, video can be monitored in real time as well as photo image.

The biggest advantage compared to traditional human eye controlled system, is to provide the opportunity to control directly without physical contact with less mistake.

Fewer errors can be made with VIS-301 optical visual inspection system through as physical non- contact without human factor. Production lines affect in a positive way by making less not good produced part.

Due to flexible design of visual system, measurements can be easily accomplished that cannot be carried out in traditional human eye control mechanism.

#### Size and Defect Detection

During the production process defects on the produced parts can be detected by Optonom VIS-301 control systems. Also size of the parts compared with desired accurate parts that can be recorded by operator of conveyor or production line.

#### Areas of Activity

#### **SPIRE-Circular Economy Session**

CIRC-02-2017 Water in the context of the circular economy

### Factories of the Future

- FOF-06-2017 New product functionalities through advanced surface manufacturing processes for mass production
- FOF-07-2017 Integration of unconventional technologies for multi-material processing into manufacturing systems
- FOF-08-2017 In-line measurement and control for micro-/nano-enabled high-volume manufacturing for enhanced reliability
- FOF-09-2017 Novel design and predictive maintenance technologies for increased operating life of production systems
- FOF-10-2017 New technologies and life cycle management for reconfigurable and reusable customised products
- FOF-12-2017 ICT Innovation for Manufacturing SMEs

### **Cooperation Profiles**

# **Coordinator:** Optical Visual Inspection System for Qualty Control in Production Facilities and Factories.

Optonom VIS-301 model visual Inspection system has been developed as a result of long R&D activities to meet the needs of production lines quality control in factories and production facilities. High-resolution image sensor by an optical system to analyze in real time the desired part or product analysis can be performed. Therefore, video can be monitored in real time as well as photo image. The biggest advantage compared to traditional human eye controlled system, is to provide the opportunity to control directly without physical contact with less mistake. Fewer errors can be made with VIS-301 optical visual inspection system through as physical non- contact without human factor. Production lines affect in a positive way by making less not good produced part. Due to flexible design of visual system, measurements can be easily accomplished that cannot be carried out in traditional human eye control mechanism. Size and Defect Detection During the production process defects on the produced parts can be detected by Optonom VIS-301 control systems. Also size of the parts compared with desired accurate parts that can be recorded by operator of conveyor or production line. While the accurate placement of, and accounting for, thousands of tiny components into packages may seem trivial, the time it takes component manufacturers to perform these packaging tasks without automation can be a bottleneck to business growth. To increase output and accelerate delivery time, Optonom has recently implemented new automated inspection systems based on compact machine vision sensor technology. Applications Size detection and Control All or Nothing Control Counting Logo Control Defect Detection Areas Of Usage Visual Inspection, used in maintenance of facilities, mean inspection of equipment and structures using either or all of raw human senses such as vision, hearing, touch and smell and/or any non-specialized inspection equipment Measurement parameters had to be determined and then checked quickly and efficiently without interrupting production. The timing frequency of the production line determined the time available for testing, and the complete testing system for the head-up display had to, of course, prove financially viable by functioning within a predefined time-frame and coping with the corresponding numbers of parts. VIS301 Visual Inspection System Technical Specifications Model VIS-301 Type Horizontal and Vertical Mountable Control Computer Controlled Interface USB Software Optonom VIS-301 Image Analysis Software Working Temperature Range From -10°C up to 100°C, Measurement Type Optical Non-Contact Measurement Precision 10µm Optional tools Mechanical Separator for Conveyors

### **Coordinator:** Optical Dilatometer for Production of New Materials

High precision optical dilatometer and cylindrical tube furnace has been developed in house. Moreover, unique image analysis and processing software have been developed at resarch department for any image based work that is done by automatically. Newly produced high precision optical non-contact dilatometer can analyses any material like glass, ceramics, metals, plastics, polymers and thin films from room temperature up to 1850 Celsius degree which can be done in vacuum and any kind of gas atmosphere. Thermal expansion changes can be analyzed by optical transforma-

### Page 358 of 500

### Smart and Sustainable Cities and Energy Efficient Buildings

• SCC-1-2016-2017 Smart Cities and Communities lighthouse projects

### The European Green Vehicles Initiative

 GV-06-2017 Physical integration of hybrid and electric vehicle batteries at pack level aiming at increased energy density and efficiency tion image processing software that is using image analysis with the base of unit pixels and optical magnification factors. Optical dilatometer is controlled with any computer with the USB interface. Also cylindrical tube furnace products are available for controlled heating processes.

### Partner: Partnership for Horizon 2020 For Future Factories

We are looking for new cooperation according to our capabilities for future factories.

### OSCAR

Organisation Name	
Country	Turkey
City	ankara
Street	1232.sok 45
Website	www.oscarelectricvehicles.com
Phone	
Organisation Type	Company

Person	
Name	Aydın Cömert
Email	aydin@oscar.biz.tr
Job Position	managing director

#### **Organisation Details**

We are a company since 1974 producing Electric Vehicles since 10 years also in the industrial segment. We can design and manufacture as per customer needs. Look for partners for various applications for green cities. Also our company has been dealing with biomass, briquette and colored mulch.

Look forward to cooperate companies and organisations relared.

www.oscarelectricvehicles.com

www.elektrikliaraclar.biz

www.oscarsomine.com

www.betonparlatmamakineleri.com

www.oscar.biz.tr

#### **Areas of Activity**

#### The European Green Vehicles Initiative

- GV-01-2017 Optimisation of heavy duty vehicles for alternative fuels use
- GV-04-2017 Next generation electric drivetrains for fully electric vehicles, focusing on high efficiency and low cost
- GV-05-2017 Electric vehicle user-centric design for optimised energy efficiency
- GV-06-2017 Physical integration of hybrid and electric vehicle batteries at pack level aiming at increased energy density and efficiency
- GV-07-2017 Multi-level modelling and testing of electric vehicles and their components
- GV-10-2017 Demonstration (pilots) for integration of electrified L-category vehicles in the urban transport system
- GV-13-2017 Production of next generation battery cells in Europe for transport applications

#### **Cooperation Profiles**

### Partner: green mobility

Our company established at 1974 is producing machinery, equipment and wood and pellet stoves, biomass giant burning blocks, Electric Vehicles since 9 years. Look forward to cooperate with companies willing to make R&D on

above topics.

## OTOKAR OTOMOTİV ve SAVUNMA SANAYİ A.Ş.

### **Organisation Name**

Country	Turkey
City	SAKARYA
Street	ATATÜRK CADDESİ
Website	www.otokar.com
Phone	
Organisation Type	Company

Person	
Name	Onur Alkan
Email	oalkan@otokar.com.tr
Job Position	R&D Project Manager

## **Organisation Details**

Otokar Inc. is among the leading companies of Turkey on both commercial and defence industry sides with more than 50 years experience. All Otokar's products are known with their high performance and durability. Otokar gets its power from using its own technology and design capabilities with more than 490 qualified R&D human resource. Otokar has been working on different projects to increase public transport quality with designing and applying new systems.

### Areas of Activity

## The European Green Vehicles Initiative

- GV-04-2017 Next generation electric drivetrains for fully electric vehicles, focusing on high efficiency and low cost
- GV-06-2017 Physical integration of hybrid and electric vehicle batteries at pack level aiming at increased energy density and efficiency
- GV-08-2017 Electrified urban commercial vehicles integration with fast charging infrastructure

## **Cooperation Profiles**

## Partner: Green Vehicles

## OTOKAR OTOMOTİV ve SAVUNMA SANAYİ A.Ş.

## **Organisation Name**

Country	Turkey
City	SAKARYA
Street	ATATÜRK CADDESİ
Website	www.otokar.com
Phone	
Organisation Type	Company

Person	
Name	Serdar Çetin
Email	scetin@otokar.com.tr
Job Position	Hardware Development Section Manager

## **Organisation Details**

Otokar Inc. is among the leading companies of Turkey on both commercial and defence industry sides with more than 50 years experience. All Otokar's products are known with their high performance and durability. Otokar gets its power from using its own technology and design capabilities with more than 490 qualified R&D human resource. Otokar has been working on different projects to increase public transport quality with designing and applying new systems.

### Areas of Activity

## The European Green Vehicles Initiative

- GV-04-2017 Next generation electric drivetrains for fully electric vehicles, focusing on high efficiency and low cost
- GV-06-2017 Physical integration of hybrid and electric vehicle batteries at pack level aiming at increased energy density and efficiency
- GV-08-2017 Electrified urban commercial vehicles integration with fast charging infrastructure

## OYAK BETON SANAYI ve TICARET A.S.

### Organisation Name

Country	Turkey
City	ANKARA
Street	Turkkusu Karsisi,No:120,Etimesgut
Website	www.oyakbeton.com.tr
Phone	
Organisation Type	Company



Person		
Name	Deniz Sarialioglu	100
Email	deniz.sarialioglu@oyakbeton.com.tr	1 22 1
Job Position	Quality Control Manager	

## **Organisation Details**

Ready mix concrete production and sales delivered as a secondary service under the Oyak Cement Group factories for almost 25 years OYAK had been institutionally restructured as an individual company and Oyak Concrete Industry and Trade Ltd. was established on 30 March 2004 with a view to moving our professionalism up a notch and further increasing our organisational productivity as a natural outcome of the rapid developments and increasing demands in the sector.

While OYAK Concrete's main area of activity is ready mix concrete production and sales, the company also produces aggregate, a product which effects both the quality and the cost of the concrete and which has taken the first place in the list of costs, outpacing the cement in some plants, due to the environmental legislations that became more and more strict with the EU harmonisation process.

The Marmara Region's hinterland and area of activity has significantly expanded since 2004 with recently established plants. Today, in the ready mix concrete sector, OYAK Concrete operates in a very large area including Marmara, Central Anatolia, Mediterranean and the Black Sea. In addition to this, the company runs 1 aggregate production facilities including fine material washing and filtration (Dewatering) plant established in Aggregate Quarry in Cendere/ Istanbul.

Having produced over 50 million m<sup>3</sup> concrete to date, OYAK Concrete which has the largest distribution network and highest production capacity in Turkey lived up to its vision and is now the first company that comes to mind in the ready mix concrete sector. Also as a constantly advancing company of the concrete industry which keeps up with the developing technology and respects the environment, OYAK Concrete has become an indispensable solution partner for major projects some of which are listed below, because the company is flexible, innovative and a strong institution that offers creative alternatives and will surely remain so in the future as well.

OYAK Beton employ approximately 1000 people (90 White collar worker, 900 Blue collar worker) all over the Turkey. OYAK Beton R&D department is established in Kurtkoy/Istanbul and 3 academicians ,3 R&D engineers and 6 technicians are working at R&D laboratory. OYAK Beton employ 6 QC engineer and 75 laboratory technician at site laboratories for ensure the quality control activities of the ready mix concrete production.

OYAK Beton has broken new grounds for many times in addition to its success in projects for which the company has performed activity in Turkey:

- The first concrete durable for more than 100 years, specially produced for Marmaray Tunnel, Eurisia Bosphorus Tunnel and Izmit Bay Bridge Projects.
- Municipality Building which was cast with white concrete, including load bearing columns.
- Concrete pavements.
- Construction of the Building of ITU National Center for High Performance Computing at Ayazaga Campus, Which was entirely cast with colored concrete.
- The first in-tunnel concrete pavement

- The first use of concrete pavemevent finisher.
- The first concrete placing boom at a length of 50 m mounted at Yenikapi plant to supply concrete for Marmaray project.
- The first mobile plant.

OYAK Beton R&D department is established in Kurtkoy/Istanbul and 3 academicians ,3 R&D engineers and 6 technicians are working at R&D laboratory. OYAK Beton employ 6 QC engineer and 75 laboratory technician at site laboratories for ensure the quality control activities of the ready mix concrete production.

OYAK Beton has the necessary equipment for characterization, pre-treatment of aggregate and concrete tests for waste samples. In the content of characterisation studies, OYAK BETON has;

o Concrete Production Plants located in 45 different points in all around Turkey.

o Aggregate Crushing Facilities and Fine Material Washing and Filtration (Dewatering) Plant in Cendere Aggregate Quarry

- o Concrete Compressive Strength Test Machine 3000 kN
- o Hardened Concrete Splitting Tensile Strength Test Machine
- o Fresh Concrete Compaction Degree Measurement Equipment
- o Concrete Slump Test Equipment(including U Box,L Box,Kajima,J Ring,Flow Table)
- o Hardening Setting Time Measuring Equipment
- o Chloride Migration Test Equipment
- o Rapid Chloride Test Equipment
- o Semi-Adiabatic Heat Box Test Equipment

Specific skills related to the research topic

Capability of perform to fresh, hardening and hardened concrete test/analysis

Capability of perform to concrete aggregate test/analysis

Capability of industrial scale concrete production

Capability of industrial scale concrete aggregate production

Capability of industrial scale concrete aggregate washing&sieving (Fine Material Washing and Filtration (Dewatering) Plant in Cendere Aggregate Quarry)

Geopolymer Concrete,Self Healing Concrete,Self Compacting Concrete,Self Levelling Concrete, Fiber Concrete,Repair Concrete,Use of Waste Materials as Concrete Raw Material,Flyash,Basic Oxygen Furnace Slag, Ground Granulated Blast Furnace Slag)

Proposed activities for the specific topic

Laboratory and industrial scale ready mix concrete production at plant,

Determination of concrete properties at OYAK Beton laboratories (Fresh,Hardening and Hardened Concrete Properties)

Determination of Raw Material Properties at OYAK Beton Laboratories

*Geopolymer Concrete,Self Healing Concrete,Self Compacting Concrete,Self Levelling Concrete, Fiber Concrete,Repair Concrete,Use of Waste Materials as Concrete Raw Material, Flyash,Basic Oxygen Furnace Slag, Ground Granulated Blast Furnace Slag)* 

## **Areas of Activity**

## SPIRE-Circular Economy Session

• SPIRE-07-2017 Integrated approach to process optimisa-

tion for raw material resources efficiency, excluding recovery technologies of waste streams

- CIRC-01-2017 Systemic, eco-innovative approaches for the circular economy large-scale demonstration projects
- EEB-05-2017 Development of near zero energy building renovation
- EEB-06-2017 Highly efficient hybrid storage solutions for power and heat in residential buildings and district areas, balancing the supply and demand conditions
- EEB-08-2017 New business models for energy-efficient buildings through adaptable refurbishment solutions
- SCC-1-2016-2017 Smart Cities and Communities lighthouse projects

## **Cooperation Profiles**

## **Partner:** Beneficial Use and/or Recovery of Endustrial(Flyash, basic oxygen furnace slag etc.) or Natural Waste(Dredged Material etc.) in Ready-Mixed Concrete and Lightweight Aggregate Production

The aggregates used in concrete production, are obtained from natural sources such as quarries or alluvial rivers. Nowadays, taking into account danger of extinction of natural resources and damage to the environment in the process of supplying natural aggregates, optimization of the usage of aggregate resources and investigation on alternative aggregate sources should be considered. With the increase of demand for raw materials in construction industry wastes have a potential to be used in the construction industry as an alternative material regarding environmental and economic issues. Utilization of ready-mixed concrete (RMC) combined with modern construction techniques is crucial for daily life, organized urbanization and strong buildings. RMC industry was firstly appeared in Germany in 1903 while RMC was produced firstly in 1993 in Turkey . According to the statistics of the European Ready Mixed Concrete Organization (ERMCO), 65 million metric tons of RMC were produced in Turkey in 2013 and it was corresponding to 27.8% of the total production of RMC in Europe [ERMCO, 2014]. In addition, maximum production of RMC was observed in Turkey among European countries in 2013.

# Ozyegin University

### **Organisation Name**

Country	Turkey
City	Cekmekoy
Street	Alemdag Mah
Website	www.evateg.com
Phone	902165649395
Organisation Type	University



Person	
Name	Mehmet Arik
Email	marik06@gmail.com
Job Position	Director



## **Organisation Details**

EVATEG center has been established at Ozyegin University in 2012. This global research center aims to develop common laboratory facilities, perform joint R&D that will be a key enabler for performing cutting-edge research, transferring technology and knowledge as well as demonstration of game changing technologies and applications. This center welcomes global organizations for faster development of technology and rapid replacement of old-fashioned poor performing products.

EVATEG center performs cutting-edge research driven modeling, prototyping and validation, transferring multi-disciplinary technology and knowledge as well as demonstration of game changing SSL and electronics technologies. EVATEG partners benefits advanced laboratory facilities for R&D activities and certification, develop joint technology projects and high-tech SSL lighting products and demonstrate their commercial products in growing markets. This center also organizes international conferences, summer schools, industrial training programs and academic courses for a stronger technology transfer network. EVATEG welcomes global organizations for being a part of international network of currently 40+ global associates including governments, universities and industrial partners. Leveraging both government, industrial and global (H2020) funds EVATEG welcomes opportunities for joint technology developments.

## Some of EVATEG Services

- Advanced modeling (Thermal, optical and mechanical)
- Measurement systems (Lumen, CRI, CCT, LPW, light distribution, thermal and mechanical etc.)
- Lighting systems design consulting and optimization
- Technology development and application (Microfluidics, heatsink, heat spreader)
- Joint research projects (H2020, Global funds and etc.)

## Areas of Activity

## Factories of the Future

 FOF-12-2017 ICT Innovation for Manufacturing SMEs

## Smart and Sustainable Cities and Energy Efficient Buildings

• EEB-07-2017 Integration of energy harvesting at building and district level

## The European Green Vehicles Initiative

- GV-04-2017 Next generation electric drivetrains for fully electric vehicles, focusing on high efficiency and low cost
- GV-07-2017 Multi-level modelling and testing of electric vehicles and their components

## **Cooperation Profiles**

## Partner: Energy Efficient Electronics and Lighting Technologies Center (EVATEG)

EVATEG center has been established at Ozyegin University in 2012. This global research center aims to develop common research facilities, perform joint R&D that will be a key enabler for performing cutting-edge research, transferring technology and knowledge as well as demonstration of game changing technologies and applications. This center welcomes global organizations for faster development of technology and rapid replacement of old-fashioned poor performing products. EVATEG center performs cutting-edge research driven modeling, prototyping and validation, transferring multi-disciplinary technology and knowledge as well as demonstration of game changing SSL and electronics technologies. EVATEG partners benefits advanced laboratory facilities for R&D activities and certification, develop joint technology projects and high-tech SSL lighting products and demonstrate their commercial products in growing markets. This center also organizes international conferences, summer schools, industrial training programs and academic courses for a stronger technology transfer network. EVATEG welcomes global organizations for being a part of international network of currently 40+ global associates including governments, universities and industrial partners. Leveraging both government, industrial and global (H2020) funds EVATEG welcomes opportunities for joint technology developments. Some of EVATEG services include; • Advanced modeling (Thermal, optical and mechanical) • Measurement systems (Lumen, CRI, CCT, LPW, light distribution, thermal and mechanical etc.) • Lighting systems design consulting and optimization • Technology development and application (microfluidics, heatsink, heat spreader) • Joint research projects (H2020, Global funds and etc.)

## OZYEGIN UNIVERSITY, CEEE (Center for Energy, Environment and Economy)

#### **Organisation Name**

Country	Turkey
City	ISTANBUL
Street	NISANTEPE DISTRICT, ORMAN STREET
Website	www.ozyegin.edu.tr/energy
Phone	
Organisation Type	University



Person		
Name	PINAR MENGUC	
Email	pinar.menguc@ozyegin.edu.tr	C 29
Job Position	DIRECTOR, HEAD	

## **Organisation Details**

Ozyegin University (OZU), founded in 2007, is a young and vibrant university in Istanbul, Turkey. OZU's mission is to create, share, and apply knowledge in the service of society. OZU's applied research agenda creates useful knowledge. The Center for Energy, Environment and Economy (CEEE) was established at OZU with the main objective of studying issues related to energy, the environment and the economy in a coherent way and in this aspect it is the first of its kind among other university centers in Turkey. The Center generates know-how by conducting national and international research and service projects. CEEE was established to bring the three pillars of sustainable development, namely energy, environment and economy/society. In this respect one of the main research and activity areas was determined as the concept of sustainable/smart cities and energy efficiency in buildings is a necessary part of the research and development on sustainable cities. CEEE team has developed a multi-layered approach and tackled the issue from a policy as well as technological point of view, with heavy emphasis on cutting edge engineering applications.

Beyond being only a Research, Development and Implementation Center, CEEE aims to have significant contributions to the country and the world. Thus, the primary focus of CEEE is the attempt to be in harmony with nature. Along this line, CEEE aspires to develop solutions and strategies to avoid the negative impacts of climate change to our surroundings. This is only possible with a participative approach by all interested parties, not necessarily only from Istanbul and Turkey, or from the rest of the World.

## http://www.ozyegin.edu.tr/energy

## **Areas of Activity**

- EEB-05-2017 Development of near zero energy building renovation
- EEB-06-2017 Highly efficient hybrid storage solutions for power and heat in residential buildings and district areas, balancing the supply and demand conditions
- EEB-07-2017 Integration of energy harvesting at building and district level
- EEB-08-2017 New business models for energy-efficient buildings through adaptable refurbishment so-

lutions

- EE-12-2017 Integration of Demand Response in Energy Management Systems while ensuring interoperability through Public Private Partnership
- SCC-1-2016-2017 Smart Cities and Communities lighthouse projects
- SCC-02-2016-2017 Demonstrating innovative nature-based solutions in cities
- SC5-08-2017 Large-scale demonstrators on naturebased solutions for hydro-meteorological risk reduction

## OZYEGIN UNIVERSITY, CEEE (Center for Energy, Environment and Economy)

#### **Organisation Name**

Country	Turkey
City	ISTANBUL
Street	NISANTEPE DISTRICT, ORMAN STREET
Website	www.ozyegin.edu.tr/energy
Phone	
Organisation Type	University

Person	
Name	DILEK MURTEZAOGLU SAYGI
Email	dilek.murtezaoglu@ozyegin.edu.tr
Job Position	Team Manager



## **Organisation Details**

Ozyegin University (OZU), founded in 2007, is a young and vibrant university in Istanbul, Turkey. OZU's mission is to create, share, and apply knowledge in the service of society. OZU's applied research agenda creates useful knowledge. The Center for Energy, Environment and Economy (CEEE) was established at OZU with the main objective of studying issues related to energy, the environment and the economy in a coherent way and in this aspect it is the first of its kind among other university centers in Turkey. The Center generates know-how by conducting national and international research and service projects. CEEE was established to bring the three pillars of sustainable development, namely energy, environment and economy/society. In this respect one of the main research and activity areas was determined as the concept of sustainable/smart cities and energy efficiency in buildings is a necessary part of the research and development on sustainable cities. CEEE team has developed a multi-layered approach and tackled the issue from a policy as well as technological point of view, with heavy emphasis on cutting edge engineering applications.

Beyond being only a Research, Development and Implementation Center, CEEE aims to have significant contributions to the country and the world. Thus, the primary focus of CEEE is the attempt to be in harmony with nature. Along this line, CEEE aspires to develop solutions and strategies to avoid the negative impacts of climate change to our surroundings. This is only possible with a participative approach by all interested parties, not necessarily only from Istanbul and Turkey, or from the rest of the World.

## http://www.ozyegin.edu.tr/energy

#### **Areas of Activity**

- EEB-05-2017 Development of near zero energy building renovation
- EEB-06-2017 Highly efficient hybrid storage solutions for power and heat in residential buildings and district areas, balancing the supply and demand conditions
- EEB-07-2017 Integration of energy harvesting at building and district level
- EEB-08-2017 New business models for energy-efficient buildings through adaptable refurbishment solutions
- EE-12-2017 Integration of Demand Response in Energy Management Systems while ensuring interoperability through Public Private Partnership
- SCC-1-2016-2017 Smart Cities and Communities light-

house projects

- SCC-02-2016-2017 Demonstrating innovative naturebased solutions in cities
- SC5-08-2017 Large-scale demonstrators on naturebased solutions for hydro-meteorological risk reduction

## Pamukkale Technopark Management Corporation

Organisation Name	
Country	Turkey
City	Denizli
Street	Çamlaraltı Mh. H. Yılmaz Cd. No:67 Pamukkale Teknokent C Blok/Z
Website	www.pauteknokent.com.tr
Phone	
Organisation Type	Authority/Government

SULEYMAN AYTEKIN
suleymanaytekin@pau.edu.tr
University-Industry Collabo- ration Representative



## **Organisation Details**

Person

Pamukkale University Office of Technology Transfer (Pamukkale TTO) was established in January,2015 in Denizli and supported by TUBITAK(The Scientific and Technological Research Council of Turkey). It is composed of 5 different modules which are Training and Promotion Sevice(Module 1), Support of Academic Services(Module 2), University-Industry Collaboration Service(Module 3), Intellectual Property and Commercialisation Service(Module 4), Entrepreneurship and Incorporation Service(Module 5). All Modules are related with each other in different subjects. Pamukkale TTO has 5 shareholders which are Pamukkale University, Denizli Chamber of Industry, Denizli Chamber of Commerce, Denizli Exporters' Association and Denizli Commodity Exchange. The vision of Pamukkale TTO is to increase the scientific and technological knowledge to create social benefit. Its mission is to increase scientific and technological knowledge generation capacity of Pamukkale University on an international level, and to commercialize generated knowledge to create social benefit. Its mission is to increase scientific and technological knowledge generation capacity of movement to research with the help of national and international funds, protect generated knowledge, and to provide suitable platforms to entrepreneurs who will generate this knowledge.

#### Areas of Activity

#### **SPIRE-Circular Economy Session**

- SPIRE-08-2017 Carbon dioxide utilisation to produce added value chemicals
- SPIRE-10-2017 New electrochemical solutions for industrial processing, which contribute to a reduction of carbon dioxide emissions
- SPIRE-11-2017 Support for the enhancement of the impact of SPIRE PPP projects
- CIRC-01-2017 Systemic, eco-innovative approaches for the circular economy large-scale demonstration projects
- CIRC-02-2017 Water in the context of the circular economy
- EE-17-2016-2017 Valorisation of waste heat in industrial systems

## Factories of the Future

 FOF-06-2017 New product functionalities through advanced surface manufacturing processes for mass production

- EEB-08-2017 New business models for energy-efficient buildings through adaptable refurbishment solutions
- EE-12-2017 Integration of Demand Response in Energy Management Systems while ensuring interoperability through Public Private Partnership

- FOF-07-2017 Integration of unconventional technologies for multi-material processing into manufacturing systems
- FOF-12-2017 ICT Innovation for Manufacturing SMEs

### **Cooperation Profiles**

# **Partner:** Technology services to accelerate the uptake of advanced manufacturing technologies for clean production by manufacturing SMEs

Foresight studies show that the massive integration of advanced manufacturing will displace in a few years many of the current traditional manufacturing processes. In particular, energy and resource-efficient and low carbon technologies and the circular economy will be key drivers of innovation in SMEs. To remain competitive, manufacturing SMEs will increasingly need to rely on advanced manufacturing technologies for clean production. These technologies enable the development of new production processes, but also improve the manufacturing of existing products by reducing production costs, the reliance on raw materials and the consumption of energy, while diminishing the adverse impacts on the environment by reducing the generation of waste and pollution.

## PAVO TASARIM URETIM ELEKTRONIK TIC

### Organisation Name

Country	Turkey
City	İsanbul
Street	Teknopark İstanbul / Pendik
Website	www.pavotek.com.tr
Phone	+905327820133
Organisation Type	SME



Person	
Name	ALPER SENER
Email	alper.sener@pavotek.com.tr
Job Position	GMY

### **Organisation Details**

Electronic design company on communication, control electronics.

Our products are : automatic meter reading, remote metering cutoff systems, high voltage, high current protection 61850 relay, energy efficient circulator electronic driver, plc modem, gsm-3g-lte-g.shdsl-vdsl2 modem.

### **Areas of Activity**

Smart and Sustainable Cities and Energy Efficient Buildings	<ul> <li>The European Green Vehicles Initiative</li> <li>GV-08-2017 Electrified urban commercial vehicles</li> </ul>
<ul> <li>EEB-05-2017 Development of near zero energy building renovation</li> </ul>	integration with fast charging infrastructure
<ul> <li>EEB-06-2017 Highly efficient hybrid storage solu-</li> </ul>	
tions for power and heat in residential buildings	
and district areas, balancing the supply and de-	
mand conditions	
<ul> <li>EE-12-2017 Integration of Demand Response in</li> </ul>	
Energy Management Systems while ensuring in-	
teroperability through Public Private Partnership	

• SCC-1-2016-2017 Smart Cities and Communities lighthouse projects

## **Cooperation Profiles**

## Partner: design and manufactoring of an electronic unit in the project

Smart cities will require more electronic control and communication circuits in the field. Whole system will communicate with each network element. And so there should be system engineering at first to design framework and we are willing to cooperate on. We are experienced on design and manufactoring any type industrial control and communication electronic and wiling to be partner of a solution. Interested fields : Remote management hw, sw via GSM, LTE, Fiber, Copper. Energy storage systems Energy saving electronic power systems Building communication systems Alper Sener CoFounder

# Pikotek R&D Innovation Energy Corporation

Organisation Name	
Country	Turkey
City	izmir
Street	dokuz eylul univercity depark technopark z13
Website	www.pikotek-tr.com
Phone	
Organisation Type	Company

Person	
Name	Tolga Bozdag
Email	tolga@pikotek-tr.com
Job Position	General Manager



## **Organisation Details**

### ABOUT US

PIKOTEK is an engineering company that provides services in the field of control systems. PIKOTEK develops application and R&D projects.

Our mission is to produce hardware and platform-independent high-value added, specific solutions in the field of control systems.

Activity Areas: Energy Monitoring and Control Systems, Waste Water Monitoring Stations, Automatic Meter Reading Systems,

Waste Water Treatment (Ozone Based, Colour Removal, Odour Removal etc...), Energy Recovery.

## Areas of Activity

- EEB-05-2017 Development of near zero energy building renovation
- EEB-08-2017 New business models for energy-efficient buildings through adaptable refurbishment solutions
- EE-12-2017 Integration of Demand Response in Energy Management Systems while ensuring interoperability through Public Private Partnership

## **PMO** Partners

Organisation Name	
Country	Turkey
City	İstanbul
Street	İnönü mah. Kayışdağı Cd. No:152 Ataşehir
Website	http://pmo.partners/
Phone	
Organisation Type	Consulting

Person	
Name	Bengü TÜRK
Email	bengu.turk@pmo.partners
Job Position	Managing Director

## **Organisation Details**

PMO provides R&D central management consultancy and education services which are accepted as an American national standart and based on PMI methodology, especially information and communication technologies production development technologies, supported project managements by experiences.

PMO is a foundation which claims that it is culminating the project management field in our country and provides educational and consultancy activities completely based on international standarts.

Mission is replacing existing project management paradigms with an international information reserves which are integrated with professional experiences, adapting the culture of working with projects in the corporation, providing adoption projects and management within the foundation, consultancy and mentorship towards this mission, giving educations and managing projects of foundations.

Vision is providing projects made by all public and private sector foundations and especially SMEs in the light of international information reserves and methodology more transparent more effective higher performanced more inquisitive and more succesfull.

## Areas of Activity

## Factories of the Future

- FOF-10-2017 New technologies and life cycle management for reconfigurable and reusable customised products
- FOF-12-2017 ICT Innovation for Manufacturing SMEs

## Smart and Sustainable Cities and Energy Efficient Buildings

• SCC-1-2016-2017 Smart Cities and Communities lighthouse projects

## Proline Bilisim Sistemleri

### **Organisation Name**

Country	Turkey
City	İstanbul
Street	Şerifali mah. Beyan sok.
Website	http://www.pro-line.com.tr/
Phone	
Organisation Type	R&D Institution

Person	
Name	Buket Ozyurt
Email	buket.ozyurt@pro- line.com.tr
Job Position	R&D Expert

## **Organisation Details**

Proline Integrated Intelligence "(Proline)" was established in 2003, as a system integrator as well as a self-developer of its own city security system software, geographic information systems, biometric features of electronic identifications that enables the live scanning of finger prints, traces of blood vessels, palm print etc. Beside all these, Proline is one of the leading Research and Development Centers in Turkey, and continues its all operations in Middle East, North Africa and Asia regions as well. Proline has also carried out the electronic passport (e-Passport) for Turkish Republic and the electronic identification technology project, performed in Bolu. Proline has developed its own social media data collector product MeaMinds which offers collecting and understanding data from a single platform in Turkish. Proline provides all these services from its Head Office in Istanbul, Region Office in Ankara, Proline Qatar and Proline Pakistan. Apart from all these services Head Office of Proline was awarded as the R&D Center in 2011 by the Ministry of Science, Industry and Technology. Proline organized Turkey's first Biometrics Summit 2012 which was held on November 19, 2012at Istanbul Marriott Hotel Asia and Istanbul Biometrics Conference which took place on May 29-30, 2013.

## **Areas of Activity**

- EEB-05-2017 Development of near zero energy building renovation
- SCC-1-2016-2017 Smart Cities and Communities lighthouse projects
- SC5-21-2017: Cultural heritage as a driver for sustainable growth (Heritage-led rural regeneration)

## Proline Bilişim Sistemleri ve Tic. A.Ş.

#### Organisation Name

Country	Turkey
City	Istanbul
Street	Beyan St.
Website	www.pro-line.com.tr
Phone	+90 216 528 6200
Organisation Type	SME

Person		
Name	Taylan Lakerta	Large
Email	taylan.lakerta@pro- line.com.tr	
Job Position	R&D Specialist	

## **Organisation Details**

Proline Integrated Intelligence (Proline) was established in 2003, as a system integrator as well as a self-developer of its own city security system, iSIM platform and GIS platform, KTP and since 2011 the R&D Center awarded by Ministry of Science, Industry and Technology developing innovative projects supported by national and international funds, collaborating with international partners advance in the project of Itea2, Eureka and other clusters, and continuing its all operations in İstanbul as headquarters, Ankara, Qatar and Pakistan regions as well.

Proline has a service organization in 81 cities all over Turkey, with the professional team consisting of 50 expert engineers, 98 higher educated, and with the independent contractors, 170 experts in total. Our concept is Safe & Smart Cities and we have making research and development studies based on these subjects;Advanced Communication Solutions, GIS, Big Data and Biometrics Solutions.

## Areas of Activity

## Smart and Sustainable Cities and Energy Efficient Buildings

- EEB-05-2017 Development of near zero energy building renovation
- SCC-1-2016-2017 Smart Cities and Communities lighthouse projects
- SC5-21-2017: Cultural heritage as a driver for sustainable growth (Heritage-led rural regeneration)

## **Cooperation Profiles**

## Partner: Smart and Sustainable Cities and Energy Efficient Buildings

We can contribute on the following topics; 1. Monitoring Tools for Energy 2. City on Cloud: City Management System for energy and mobility 3. Monitoring for adverse events 4. Road systems: Mobile ITS\* (location-based route / travel information + traffic light systems = optimized traffic flow to reduce emissions and energy consumption). 5. Monitoring the traffic 6. Open-up Intelligence in Urban Transport 7. City visualization

## Partner: SCC-1-2016-2017 Smart Cities and Communities lighthouse projects

We can contribute on the following topics; 1. Monitoring Tools for Energy 2. City on Cloud: City Management System for energy and mobility 3. Monitoring for adverse events 4. Road systems: Mobile ITS\* (location-based route / travel information + traffic light systems = optimized traffic flow to reduce emissions and energy consumption). 5. Monitoring the traffic 6. Open-up Intelligence in Urban Transport 7. City visualization

## Proline Information Systems and Trade Inc

Organisation Name	
Country	Turkey
City	Istanbul /TURKEY
Street	Şerifali Mah. Beyan Sok. No:66
Website	
Phone	
Organisation Type	Company

Person	
Name	Tugba Aydar
Email	tugba.karaman@pro- line.com.tr
Job Position	R&D Specialist

## **Organisation Details**

Proline Integrated Intelligence (Proline) was established in 2003, as a system integrator as well as a self-developer of its own city security system, iSIM platform and GIS platform, KTP and since 2011 the R&D Center awarded by Ministry of Science, Industry and Technology developing innovative projects supported by national and international funds, collaborating with international partners advance in the project of Itea2, Eureka and other clusters, and continuing its all operations in İstanbul as headquarters, Ankara, Qatar and Pakistan regions as well.

Proline has a service organization in 81 cities all over Turkey, with the professional team consisting of 50 expert engineers, 98 higher educated, and with the independent contractors, 170 experts in total. Our concept is Safe & Smart Cities and we have making research and development studies based on these subjects;Advanced Communication Solutions, GIS, Big Data and Biometrics Solutions.

- large data analysis

1- iSIM makes the systems easy to use with its superior data analysis algorithms, associate methods and presentation capabilities and provide an efficient decision making mechanism.

2- KTP is cross GIS platform, serves for Decision Support System, requires low investment and operation cost, and supports multiple real time data streams and spatial databases

3- BEP-TR - Some data are taken hourly, daily or weekly for calculation process. For the reason, system is hardly implementation ).

- data visualisation (We have GIS based platform to visualization of the spatial data and also iSIM platform that we visualize video and sensor based data).

- environment

1- Developing of a National Air Pollution Emission Management System -

- \* Developing Emissions Inventory Calculation Software,
- \* Developing Emissions Database System,
- \* Developing Emissions Processing Module for Air Quality Models

2- Energy Performance Of Buildings - giving energy efficiency certificate the buildigs.

- sensors and IoT ( city surveillance cameras - seting up and provides maintenance and management service of the as large and small MOBESE (Mobile Electronic System Integration) systems about 55 points of 81 country in Turkey )

## Areas of Activity

# Smart and Sustainable Cities and Energy Efficient Buildings

- EEB-05-2017 Development of near zero energy building renovation
- SC5-21-2017: Cultural heritage as a driver for sustainable growth (Heritage-led rural regeneration)

## **Cooperation Profiles**

Partner: EEB-05-2017 Development of near zero energy building renovation

## Proline Integrated Intelligence

### **Organisation Name**

Country	Turkey
City	ISTANBUL
Street	Şerifali Mahallesi Beyan Sokak No.66
Website	www.pro-line.com.tr
Phone	
Organisation Type	Company

Person		
Name	Hakan Metin Akgün	Large
Email	hakan.akgun@pro- line.com.tr	
Job Position	Marketing Manager	

## **Organisation Details**

Proline Integrated Intelligence "(Proline)" was established in 2003, as a system integrator as well as a self-developer of its own city security system software, geographic information systems, biometric features of electronic identifications that enables the live scanning of finger prints, traces of blood vessels, palm print etc. Beside all these, Proline is one of the leading Research and Development Centers in Turkey, and continues its all operations in Middle East, North Africa and Asia regions as well. Proline has also carried out the electronic passport (e-Passport) for Turkish Republic and the electronic identification technology project, performed in Bolu. Proline has developed its own social media data collector product MeaMinds which offers collecting and understanding data from a single platform in Turkish. Proline provides all these services from its Head Office in Istanbul, Region Office in Ankara, Proline Qatar and Proline Pakistan. Apart from all these services Head Office of Proline was awarded as the R&D Center in 2011 by the Ministry of Science, Industry and Technology.

## **Areas of Activity**

- EEB-05-2017 Development of near zero energy building renovation
- EEB-06-2017 Highly efficient hybrid storage solutions for power and heat in residential buildings and district areas, balancing the supply and demand conditions
- EEB-07-2017 Integration of energy harvesting at building and district level
- EEB-08-2017 New business models for energy-efficient buildings through adaptable refurbishment solutions
- EE-12-2017 Integration of Demand Response in Energy Management Systems while ensuring interoperability through Public Private Partnership
- SCC-1-2016-2017 Smart Cities and Communities lighthouse projects
- SCC-02-2016-2017 Demonstrating innovative nature-based solutions in cities
- SC5-08-2017 Large-scale demonstrators on nature-based solutions for hydro-meteorological risk reduction
- SC5-21-2017: Cultural heritage as a driver for sus-

## **Cooperation Profiles**

## **Partner:** Seeking companies/startups in the field of Smart Cities, focused on data, infrastructure, sensor and energy

As Proline, we are there to assist our customers in making decisions about human and city efficiency and security, taking action promptly, and obtaining best results. In addition to providing them with tools and technologies required to collect, process, and distribute the data, we strive to enable them to make the right calls at the right time and achieve optimal results by assisting them in comprehending the complex situations. We develop Geographic Information Systems (GIS) solution called "KTP", developed in line with today's requirements, our biometric solution system called "HRZM", and our smart safe city solution called "iSIM". In addition to all of these solutions, Proline also offers many "Safe and Smart City" solutions such as violation identification systems including speeding and red light violation, High Performance Calculation (HPC) and Big Data analytics, and video analytics solutions such as 2D and 3D face recognition systems, license plate recognition system. Proline interested in safe and smart city projects, biometrics, geographical information solutions.

## Proline Integrated Intelligence

#### **Organisation Name**

Country	Turkey
City	ISTANBUL
Street	Beyan Sok. No. 66
Website	www.pro-line.com.tr
Phone	
Organisation Type	Company

Person	
Name	Mustafa Güvenç
Email	mustafa.guvenc@pro- line.com.tr
Job Position	Technology Advisor to CEO

## **Organisation Details**

Proline Integrated Intelligence "(Proline)" was established in 2003, as a system integrator as well as a self-developer of its own city security system software, geographic information systems, biometric features of electronic identifications that enables the live scanning of finger prints, traces of blood vessels, palm print etc. Beside all these, Proline is one of the leading Research and Development Centers in Turkey, and continues its all operations in Middle East, North Africa and Asia regions as well. Proline has also carried out the electronic passport (e-Passport) for Turkish Republic and the electronic identification technology project, performed in Bolu. Proline has developed its own social media data collector product MeaMinds which offers collecting and understanding data from a single platform in Turkish. Proline provides all these services from its Head Office in Istanbul, Region Office in Ankara, Proline Qatar and Proline Pakistan. Apart from all these services Head Office of Proline was awarded as the R&D Center in 2011 by the Ministry of Science, Industry and Technology.

## Areas of Activity

- EEB-05-2017 Development of near zero energy building renovation
- EEB-06-2017 Highly efficient hybrid storage solutions for power and heat in residential buildings and district areas, balancing the supply and demand conditions
- EEB-07-2017 Integration of energy harvesting at building and district level
- EEB-08-2017 New business models for energy-efficient buildings through adaptable refurbishment solutions
- EE-12-2017 Integration of Demand Response in Energy Management Systems while ensuring interoperability through Public Private Partnership
- SCC-1-2016-2017 Smart Cities and Communities lighthouse projects
- SCC-02-2016-2017 Demonstrating innovative nature-based solutions in cities
- SC5-08-2017 Large-scale demonstrators on nature-based solutions for hydro-meteorological risk reduction
- SC5-21-2017: Cultural heritage as a driver for sus-

tainable growth (Heritage-led rural regeneration)

# Proline Integrated Intelligence

### **Organisation Name**

Country	Turkey
City	ISTANBUL
Street	Beyan Sok. No. 66
Website	www.pro-line.com.tr
Phone	
Organisation Type	Company

Person	
Name	Beril Kırcı
Email	beril.kirci@pro-line.com.tr
Job Position	Strategy and Business De- velopment

## **Organisation Details**

Proline Integrated Intelligence "(Proline)" was established in 2003, as a system integrator as well as a self-developer of its own city security system software, geographic information systems, biometric features of electronic identifications that enables the live scanning of finger prints, traces of blood vessels, palm print etc. Beside all these, Proline is one of the leading Research and Development Centers in Turkey, and continues its all operations in Middle East, North Africa and Asia regions as well. Proline has also carried out the electronic passport (e-Passport) for Turkish Republic and the electronic identification technology project, performed in Bolu. Proline has developed its own social media data collector product MeaMinds which offers collecting and understanding data from a single platform in Turkish. Proline provides all these services from its Head Office in Istanbul, Region Office in Ankara, Proline Qatar and Proline Pakistan. Apart from all these services Head Office of Proline was awarded as the R&D Center in 2011 by the Ministry of Science, Industry and Technology.

## Areas of Activity

## SPIRE-Circular Economy Session

- SPIRE-12-2017 Assessment of standardisation needs and ways to overcome regulatory bottlenecks in the process industry
- CIRC-02-2017 Water in the context of the circular economy

# Smart and Sustainable Cities and Energy Efficient Buildings

- EEB-08-2017 New business models for energy-efficient buildings through adaptable refurbishment solutions
- SCC-1-2016-2017 Smart Cities and Communities lighthouse projects
- SCC-02-2016-2017 Demonstrating innovative nature-based solutions in cities

## The European Green Vehicles Initiative

• GV-10-2017 Demonstration (pilots) for integration of electrified L-category vehicles in the urban transport system

## **Proline Integrated Intelligence**

### **Organisation Name**

Country	Turkey
City	ISTANBUL
Street	Şerifali Mahallesi Beyan Sokak No.66
Website	www.pro-line.com.tr
Phone	
Organisation Type	Company

Person	
Name	Serhan Ünalan
Email	serhan.unalan@pro- line.com.tr
Job Position	Strategy and Business De- velopment Manager

### Organisation Details

Proline Integrated Intelligence "(Proline)" was established in 2003, as a system integrator as well as a self-developer of its own city security system software, geographic information systems, biometric features of electronic identifications that enables the live scanning of finger prints, traces of blood vessels, palm print etc. Beside all these, Proline is one of the leading Research and Development Centers in Turkey, and continues its all operations in Middle East, North Africa and Asia regions as well. Proline has also carried out the electronic passport (e-Passport) for Turkish Republic and the electronic identification technology project, performed in Bolu. Proline has developed its own social media data collector product MeaMinds which offers collecting and understanding data from a single platform in Turkish. Proline provides all these services from its Head Office in Istanbul, Region Office in Ankara, Proline Qatar and Proline Pakistan. Apart from all these services Head Office of Proline was awarded as the R&D Center in 2011 by the Ministry of Science, Industry and Technology.

#### **Areas of Activity**

- EEB-05-2017 Development of near zero energy building renovation
- EEB-06-2017 Highly efficient hybrid storage solutions for power and heat in residential buildings and district areas, balancing the supply and demand conditions
- EEB-07-2017 Integration of energy harvesting at building and district level
- EEB-08-2017 New business models for energy-efficient buildings through adaptable refurbishment solutions
- EE-12-2017 Integration of Demand Response in Energy Management Systems while ensuring interoperability through Public Private Partnership
- SCC-1-2016-2017 Smart Cities and Communities lighthouse projects
- SCC-02-2016-2017 Demonstrating innovative nature-based solutions in cities
- SC5-08-2017 Large-scale demonstrators on nature-based solutions for hydro-meteorological risk reduction

• SC5-21-2017: Cultural heritage as a driver for sustainable growth (Heritage-led rural regeneration)

## Puhu

Organisation Name	
Country	Turkey
City	Istanbul
Street	19 Mayis Mh Kadipasa Sk. Gaye Apt. 7/15
Website	www.puhu.com
Phone	
Organisation Type	Consulting

Person		
Name	Ozgur Gungor	
Email	mogungor@gmail.com	
Job Position	Researcher, Co-Founder	1

## Organisation Details

New founded SME by researchers for analysis of big energy data and use of machine learning algorithms in sustainable architecture

### Areas of Activity

## Smart and Sustainable Cities and Energy Efficient Buildings

- EEB-05-2017 Development of near zero energy building renovation
- EEB-06-2017 Highly efficient hybrid storage solutions for power and heat in residential buildings and district areas, balancing the supply and demand conditions
- EEB-07-2017 Integration of energy harvesting at building and district level
- EEB-08-2017 New business models for energy-efficient buildings through adaptable refurbishment solutions
- EE-12-2017 Integration of Demand Response in Energy Management Systems while ensuring interoperability through Public Private Partnership
- SCC-1-2016-2017 Smart Cities and Communities lighthouse projects
- SCC-02-2016-2017 Demonstrating innovative nature-based solutions in cities
- SC5-08-2017 Large-scale demonstrators on nature-based solutions for hydro-meteorological risk reduction
- SC5-21-2017: Cultural heritage as a driver for sustainable growth (Heritage-led rural regeneration)

## **Cooperation Profiles**

## Partner: Energy efficient buildings, data science

## Puhu

Organisation Name	
Country	Turkey
City	Istanbul
Street	19 Mayis Mh Kadipasa Sk. Gaye Apt. 7/15
Website	www.puhu.com
Phone	
Organisation Type	Consulting

Person	
Name	Sibel Gungor
Email	sibelag@gmail.com
Job Position	Researcher, Co-Founder

## **Organisation Details**

New founded SME by researchers for analysis of big energy data and use of machine learning algorithms in sustainable architecture

## **Areas of Activity**

## Smart and Sustainable Cities and Energy Efficient Buildings

- EEB-05-2017 Development of near zero energy building renovation
- EEB-06-2017 Highly efficient hybrid storage solutions for power and heat in residential buildings and district areas, balancing the supply and demand conditions
- EEB-07-2017 Integration of energy harvesting at building and district level
- EEB-08-2017 New business models for energy-efficient buildings through adaptable refurbishment solutions
- EE-12-2017 Integration of Demand Response in Energy Management Systems while ensuring interoperability through Public Private Partnership
- SCC-1-2016-2017 Smart Cities and Communities lighthouse projects
- SCC-02-2016-2017 Demonstrating innovative nature-based solutions in cities
- SC5-08-2017 Large-scale demonstrators on nature-based solutions for hydro-meteorological risk reduction
- SC5-21-2017: Cultural heritage as a driver for sustainable growth (Heritage-led rural regeneration)

## **Cooperation Profiles**

Partner: Energy efficient buildings, data science

# Punica Systems

Organisation Name	
Country	Turkey
City	Istanbul
Street	ITU Ayazaga Kampusu Tekmer A Blok No 27 Sariyer
Website	www.punicasystems.com
Phone	
Organisation Type	SME

Person	
Name	Erdem MEYDANLI
Email	erdem.meydanli@punicasystems.com
Job Position	Founder

## **Organisation Details**

Punica is a tech start-up that designs and develops products to make homes and buildings much more energy efficient and comfortable.

## Areas of Activity

## Factories of the Future

- FOF-06-2017 New product functionalities through advanced surface manufacturing processes for mass production
- FOF-07-2017 Integration of unconventional technologies for multi-material processing into manufacturing systems
- FOF-08-2017 In-line measurement and control for micro-/nano-enabled high-volume manufacturing for enhanced reliability
- FOF-09-2017 Novel design and predictive maintenance technologies for increased operating life of production systems
- FOF-10-2017 New technologies and life cycle management for reconfigurable and reusable customised products
- FOF-12-2017 ICT Innovation for Manufacturing SMEs

- EEB-05-2017 Development of near zero energy building renovation
- EEB-06-2017 Highly efficient hybrid storage solutions for power and heat in residential buildings and district areas, balancing the supply and demand conditions
- EEB-07-2017 Integration of energy harvesting at building and district level
- EEB-08-2017 New business models for energy-efficient buildings through adaptable refurbishment solutions
- EE-12-2017 Integration of Demand Response in Energy Management Systems while ensuring interoperability through Public Private Partnership
- SCC-1-2016-2017 Smart Cities and Communities lighthouse projects
- SCC-02-2016-2017 Demonstrating innovative nature-based solutions in cities
- SC5-08-2017 Large-scale demonstrators on nature-based solutions for hydro-meteorological risk reduction
- SC5-21-2017: Cultural heritage as a driver for sustainable growth (Heritage-led rural regeneration)

## REENGEN

Organ	isation	Name
organ	isacion	nume

Country	Turkey	
City	İstanbul	
Street	ITU Technopark	
Website	www.reengen.com	
Phone		
Organisation Type	SME	

Sahin Caglayan
sahin.caglayan@reengen.com
СТО



## **Organisation Details**

Reengen Energy IoT Platform is a PaaS analytics solution for Global Energy & Utilities Industries. Reengen's data science centric technology employs machine learning algorithms, big data analytics and a physics-based modeling of connected equipment, buildings and grid. The platform includes connectivity, device cloud, business logic, big data analytics and remote service applications. The value propositions are energy efficiency, operational efficiency, energy procurement optimization and predictive maintenance. Reengen's Energy IoT Platform Delivers a comprehensive IoT technology stack that enables partner companies to: • securely connect meters, sensors, equipment, assets and SCA-DA/BMS/Metering platforms • apply data analytics libraries for actionable intelligence in a scalable way, quickly create great dashboards and reports • innovate new ways to capture value and create new revenue streams from digital energy domain

## **Areas of Activity**

- EEB-05-2017 Development of near zero energy building renovation
- EEB-06-2017 Highly efficient hybrid storage solutions for power and heat in residential buildings and district areas, balancing the supply and demand conditions
- EEB-07-2017 Integration of energy harvesting at building and district level
- EEB-08-2017 New business models for energy-efficient buildings through adaptable refurbishment solutions
- EE-12-2017 Integration of Demand Response in Energy Management Systems while ensuring interoperability through Public Private Partnership
- SCC-1-2016-2017 Smart Cities and Communities lighthouse projects
- SCC-02-2016-2017 Demonstrating innovative nature-based solutions in cities
- SC5-08-2017 Large-scale demonstrators on naturebased solutions for hydro-meteorological risk reduction
- SC5-21-2017: Cultural heritage as a driver for sustainable growth (Heritage-led rural regeneration)

## RETFOX BILGI TEKNOLOJILERI YAZILIM OTOMASYON SISTEM-LERI SAN. VE TIC. A.Ş.

#### **Organisation Name**

Country	Turkey
City	İSTANBUL
Street	YTU Teknopark. A1 Blok 1B11
Website	www.retfox.com
Phone	
Organisation Type	SME

Person	
Name	Rachmi Emir
Email	rachmi.emir@retfox.com
Job Position	Co Founder



### **Organisation Details**

retfox is a technology delivery company focused on digital transformation solutions. We have over 10 years' experience on Software Engineering, OSS/BSS Solution Integrations and delivering the remote device management, Machine to Machine (M2M) and Internet of Things (IoT) technologies to telco leader companies.

We are developing **ThingFast** IoT platform which makes Digital Transformation Process manageable. Our platform is not only enabling connectivity between things, we normalize the collected data, manage devices, brings data to value with rule-based engine, provides graphical reports and extensive API for 3.rd party software companies that are eagle to develop digital products.

With ThingFast (Together Far) IoT Platfrom;

**Fast Time to Market:** You can deliver your IoT product and services to market faster and safely. We believe that fast proof of concept will also increase your business valued products.

**Reduce Cost:** While we speed up your digital transformation we provide one point of contact for end to end solution. Which means that your operations take less time.

**Simplified Integration:** ThingFast can be fully operated easily to use RESTful API. With our user friendly api definition and mapping screens you can define your web services in several minutes.

**Each Data to Value:** We collect data from existing systems, people, sensors and connected equipment. With our strong Normalization tool and flexible rule engine you can process your data and bring it to value.

## **Areas of Activity**

## Factories of the Future

- FOF-08-2017 In-line measurement and control for micro-/nano-enabled high-volume manufacturing for enhanced reliability
- FOF-09-2017 Novel design and predictive maintenance technologies for increased operating life of production systems
- FOF-10-2017 New technologies and life cycle management for reconfigurable and reusable customised products
- FOF-12-2017 ICT Innovation for Manufacturing SMEs

#### **Cooperation Profiles**

## Partner: ThingFast - Together Far

Industrial 4.0 revolution will transform the current factories to modern ones. In this transformation billions of machines, systems, and sensors worldwide will communicate with each other and share information. As retfox we believe that IoT platforms will speed up the digital transformation in case we increase the digital products. with our IoT platform we provide; - communication protocols HTTP, Websockets or MQTT. - easy-to-use web portal for managing your assets, users, products and data streams. - automation API for mass management of your devices. - security and authentication. - real-time analytics with easy-to-use reports. - Alarm and Notification to take actions in time. - a rule based engine to bring the data to value -interfaces for development of Digital Products We are eagle to work together and support you on your digital transformation journey. The partnership seeked: ISP Providers, corporations with branch, Municipalities, City Councils, Local and Regional Government organizations, agriculture companies, Management of energy, waste, water, safety, environment, transportation, other civic services, IoT device manufacturers

## Ruzgar Danismanlik

#### **Organisation Name**

Country City Street Website Phone	Turkey Kadikoy İstanbul Goztepe Mah. Avci Sok. Nursaray Apt. No:1 D:22 www.ruzgardanismanlik.net	RÜZGAR Danişmanlık
Organisation Type	Consulting	



## **Organisation Details**

Ms Cagla Balci Eris has 16 years of business experience in energy, sustainability, carbon market (PDD development, Gold Standard and UNFCCC procedures, carbon management), renewable energy, energy efficiency, meteorology, environment and renewable energy projects (especially wind power projects), development and finance, management consultant and sustainable development areas. She is one of the first carbon market professionals of Turkey and have performed management, carbon project design and carbon credit sale of fourteen Gold Standard registered wind power plant projects including Mare, Anemon and Sayalar which are the world's and Turkey's first three Gold Standard projects between 2006 – 2012. She has worked as Carbon Development Manager in Demirer Holding between 2006 and 2012. Ms Eris has managed carbon project development cycle of the wind energy power plants; from the preliminary technical and financial feasibility analysis, up to the issuance and transaction of carbon credits (including MRV of carbon emission reductions, which in practice involve calculation of GHG emissions avoided from fossil fuel power plants due to wind power generation). She has been awarded MRV Specialist Certification provided by Bureau Veritas -Turkey from the beginning of 2014 and also participated the technical trainings on MRV for plants & for TUSIAD (Turkish Businessmen Assoc.). She has an experience that are specified in technical advisory services for the establishment & implementation of a software for carbon footprint based on GHG protocol in line with National or plant wise emission factors, and ISO 14064. Furthermore, she is the knowledge expert of software on GHG measurement and monitoring plan preparation according to the national MRV legislation. She executed trainings for the specialists in the some municipality (Covenant of Mayors-SEAP) and some private company on the low carbon business improvement works related to climate change issues; technical guidance on environmental and carbon management systems (ISO 14064), GHG Protocol requirements with IPCC Principles, climate policy and carbon market analysis and clean tech services. She has also knowledge in wind energy power plant projects including all stages between investment and electricity sales. She is capable of developing anything from sustainability plans to business risk assessment tools, proprietary carbon footprint standards, monitoring data management tools. She is the founder of Rüzgar Consultancy; which is providing consultancy services in carbon, energy and sustainability management.

#### **Areas of Activity**

### **Factories of the Future**

 FOF-10-2017 New technologies and life cycle management for reconfigurable and reusable customised products

## **Smart and Sustainable Cities and Energy Efficient Buildings**

- EEB-06-2017 Highly efficient hybrid storage solutions for power and heat in residential buildings and district areas, balancing the supply and demand conditions
- EEB-08-2017 New business models for energy-efficient buildings through adaptable refurbishment solutions

- EE-12-2017 Integration of Demand Response in Energy Management Systems while ensuring interoperability through Public Private Partnership
- SCC-1-2016-2017 Smart Cities and Communities lighthouse projects
- SCC-02-2016-2017 Demonstrating innovative nature-based solutions in cities

# Sabanci University

#### **Organisation Name**

Country	Turkey
City	Istanbul
Street	Orta Mahalle Universite Cad No27
Website	www.innovist.eu
Phone	
Organisation Type	University

# . Sabancı . Universitesi

Person	
Name	Abdurrahman Turk
Email	turk@sabanciuniv.edu
Job Position	Head of University Industry
	Collaboration Unit



### **Organisation Details**

Sabanci University (SU) is internationally recognized as one of the most innovative and research-oriented universities in Turkey. As part of its philosophy, the university aims to direct its research efforts primarily towards applied and strategic research with the objectives of advancing knowledge, supporting teaching and contributing to the progress of the community. Since its establishment in 1999, many national and international research projects have been initiated in cooperation with various national and international institutions. Since 2005 SU has been funded for 504 projects. The grant projects volume has exceeded €51,6 Million so far. Currently, SU has 20 EC FP6 projects (Total Budget: €3.584.848); 54 EC FP7 projects; (including first and only EU FP7-ERC Advanced Investigators Grant of Turkey) 37 Marie Curie Grants (18 IRG,10 CIG,2 ERG, 1 Excellence Award, 3 ITN,1 IOF,2 IRSES), 12 Cooperation Projects, 4 Capacities Projects, 1 Ideas. (Total Budget: €4.143.153) These EC grants constitute about 19% of the total grants budget of the university.

### Areas of Activity

### Factories of the Future

- FOF-06-2017 New product functionalities through advanced surface manufacturing processes for mass production
- FOF-07-2017 Integration of unconventional technologies for multi-material processing into manufacturing systems

### The European Green Vehicles Initiative

 GV-10-2017 Demonstration (pilots) for integration of electrified L-category vehicles in the urban transport system

# Sabanci University

#### Organisation Name

Country	Turkey
City	Istanbul
Street	University Street
Website	www.sabanciuniv.edu
Phone	
Organisation Type	University

# . Sabancı . Universitesı

niv.edu
niv.e



### **Organisation Details**

Sabanci University is the first university to host the global leaders in sustainability and sign the United Nations Global Compact. The university is internationally recognized as one of the most innovative and research-oriented universities in Turkey and Sabanci University was at the top of the "University Innovation and Entrepreneurship Index" compiled by the Turkish Ministry of Science, Industry and Technology in 2012 and 2015, and was ranked 2nd in 2013 and 2014. As part of its philosophy, the university aims to direct its research efforts primarily towards applied and strategic research with the objectives of advancing knowledge, supporting teaching and contributing to the progress of the community. Since its establishment in 1999, many national and international research projects have been initiated in cooperation with various national and international institutions. Since 2005 SU has been funded for 504 projects. The grant projects volume has exceeded €51,6 Million so far. Currently, SU has 20 EC FP6 projects (Total Budget: €3.584.848); 54 EC FP7 projects; (including first and only EU FP7-ERC Advanced Investigators Grant of Turkey) 37 Marie Curie Grants (18 IRG,10 CIG,2 ERG, 1 Excellence Award, 3 ITN,1 IOF,2 IRSES), 12 Cooperation Projects, 4 Capacities Projects, 1 Ideas. (Total Budget: €4.143.153) These EC grants constitute about 19% of the total grants budget of the university.

Sabancı University carries the Carbon Disclosure Program (CDP) Turkey through Cooperative Governance Forum since 2010 with the main sponsorship of Akbank and report sponsorship of EY Turkey.

### Areas of Activity

Smart and Sustainable Cities and Energy Efficient Buildings

• SCC-1-2016-2017 Smart Cities and Communities lighthouse projects

### The European Green Vehicles Initiative

 GV-10-2017 Demonstration (pilots) for integration of electrified L-category vehicles in the urban transport system

### **Cooperation Profiles**

### Partner: Urban transport and logistics using EVs

Our group has expertise on developing decision making models and solution methodologies for various transport logistics and planning problems such as first-mile, long-distance and last-mile pickup/delivery operations and has a growing interest in urban mobility using electric commercial vehicles. We are interested in the following calls within H2020: SCC-1-2016-2017 Smart Cities and Communities lighthouse projects GV-10-2017 Demonstration (pilots) for integration of electrified L-category vehicles in the urban transport system MG-4.1-2017. Increasing the take up and scale-up of innovative solutions to achieve sustainable mobility in urban areas MG-4.2-2017. Supporting 'smart electric mobility' in cities

# Sabancı University

#### **Organisation Name**

Country	Turkey	
City	Istanbul	
Street	Sabanci University, Orta Mahalle, Tuzla	
Website	http://www.sabanciuniv.edu/	
Phone		
Organisation Type	University	

# . Sabancı . Üniversitesi

Person	
Name	SADIK CANER PIRNAL
Email	canerpirnal@sabanciuniv.edu
Job Position	EEN Expert



### **Organisation Details**

Sabanci University (SU) is internationally recognized as one of the most innovative and research-oriented universities in Turkey. As part of its philosophy, the university aims to direct its research efforts primarily towards applied and strategic research with the objectives of advancing knowledge, supporting teaching and contributing to the progress of the community. Since its establishment in 1999, many national and international research projects have been initiated in cooperation with various national and international institutions. Since 2005 SU has been funded for 504 projects. The grant projects volume has exceeded €51,6 Million so far. Currently, SU has 20 EC FP6 projects (Total Budget: €3.584.848); 54 EC FP7 projects; (including first and only EU FP7-ERC Advanced Investigators Grant of Turkey) 37 Marie Curie Grants (18 IRG,10 CIG,2 ERG, 1 Excellence Award, 3 ITN,1 IOF,2 IRSES), 12 Cooperation Projects, 4 Capacities Projects. These EC grants constitute about 19% of the total grants budget of the university.

# Sakarya Metropolitan Municipality

#### **Organisation Name**

Country	Turkey
City	SAKARYA
Street	Kavaklar Caddesi
Website	
Phone	
Organisation Type	Authority/Government

Person	
Name	Melike ARIK
Email	melarik.07@hotmail.com
Job Position	Project Manager



### **Organisation Details**

Sakarya Metropolitan Municipality, as local authority, continues to develop service oriented actions/activities for local public. We're taking new steps to increase the capacity of the public service. The metropolitan municipal employees have been putting so much effort into bringing Sakarya to a better place. Our goal is to make Sakarya a modern city that worth living in and to ensure the sustainability of it. The Metropolitan Municipality has many sections for operating public services.

Our Vision: Relaxed and comfortable with transportation systems, disaster preparedness, cultural richness, drawing strength from the community with disabilities and needy integrated, using modern management systems, clean and natural environment of a city to be featured in the original features.

Our Mission: Qualified to meet the demands of local and common people who value, environment-friendly, high quality and solution-oriented services to produce and facilitate the everyday life of the people.

Our aim is: by meeting local and mutual demands; producing high quality and solution-oriented services that value humans , making the daily life easier for people in Sakarya.

### Areas of Activity

### Smart and Sustainable Cities and Energy Efficient Buildings

- EE-12-2017 Integration of Demand Response in Energy Management Systems while ensuring interoperability through Public Private Partnership
- SCC-1-2016-2017 Smart Cities and Communities lighthouse projects
- SC5-21-2017: Cultural heritage as a driver for sustainable growth (Heritage-led rural regeneration)

#### The European Green Vehicles Initiative

- GV-04-2017 Next generation electric drivetrains for fully electric vehicles, focusing on high efficiency and low cost
- GV-10-2017 Demonstration (pilots) for integration of electrified L-category vehicles in the urban transport system

# Sampaş Bilişim ve İletişim Sistemleri Sanayi ve Ticaret A.Ş.

Organisation Name	
Country	Turkey
City	İstanbul
Street	Orhan Veli Kanık Cd. No:3 Eryılmaz Plaza K:4
Website	
Phone	
Organisation Type	SME

Person		
Name	Leyla Yanmaz	a a
Email	leyla.yanmaz@sampas.com.tr	
Job Position	Business Development Spe- cialist	

### **Organisation Details**

**SAMPAŞ** is the leading Turkish **IT company** which introduced the **Smart City concept** to Turkey, providing information management tools and project management services - tailored for the specific needs of the local authorities.

We have numerous value-added solutions for building today's **Intelligent Cities.** From design to installation, operation to maintenance and consulting, Turkish local governments have implemented many award winning projects with company's vast expertise and experience.

With over 20 strategic partnerships with national and international giants, SAMPAŞ has been providing city and citizen focused information technology solutions – government software, intelligent water management systems, payment systems, geographical information systems, urban projects management, SaaS solutions and smart card projects - for over **500 municipalities across Turkey** contributing to country's transformation process towards becoming an e-government. Headquartered in Istanbul, SAMPAŞ has three major regional offices in İzmir, Adana and Ankara.

Besides, Sampas has been gaining experience in cloud computing and developing software projects with SOA architecture for several years and using its experience in both national and international projects (ITEA2, Celtic, ICT-PSP) experiences in architecture definition, service implementation, pilot demonstrations and dissemination for several projects.

### Areas of Activity

# Smart and Sustainable Cities and Energy Efficient Buildings

- EEB-05-2017 Development of near zero energy building renovation
- EEB-06-2017 Highly efficient hybrid storage solutions for power and heat in residential buildings and district areas, balancing the supply and demand conditions
- EEB-07-2017 Integration of energy harvesting at building and district level
- EEB-08-2017 New business models for energy-efficient buildings through adaptable refurbishment solutions
- EE-12-2017 Integration of Demand Response in Energy Management Systems while ensuring interoperability through Public Private Partnership
- SCC-1-2016-2017 Smart Cities and Communities lighthouse projects

- SCC-02-2016-2017 Demonstrating innovative nature-based solutions in cities
- SC5-08-2017 Large-scale demonstrators on naturebased solutions for hydro-meteorological risk reduction
- SC5-21-2017: Cultural heritage as a driver for sustainable growth (Heritage-led rural regeneration)

### **Cooperation Profiles**

### Partner: SAMPAŞ IT & Communications

SAMPAS, established in 1981, is proud to be the first and the largest and the most awarded Smart City Solutions provider of Turkey. With over 30 years of experience in distinctive and innovative information technology solutions, SAMPAS continues to meet all of the IT needs of municipalities while improving the quality of life of citizens. Under the roof of its brand AKOS (Smart City Automation Systems) SAMPAŞ - city and citizens focused - has ISO9001, ISO20000 and ISO27001 quality certificates, providing such services as Management Information Systems, Geographic Information Systems, Smart Water Management solutions, Municipality in a Box, Revenue Management and Payment systems, Smart City Card, Urban City and Urban Transformation Projects, serving over 400 municipalities. In order to continue improving software development processes, SAMPAS has received the TSE ISO / IEC 12207 Standard for Information Technology -Software Life Cycle Processes certificate. With 70 employees in its R&D department, SAMPAS provides high quality, world class solutions to customers, having reached the CMMI Level 3 as a result of investment and improvements in software development methods. SAMPAŞ has also joined several collaborative R&D projects as WP Leaders and national contact points both international and national level. PROPOSED ACTIVITIES FOR THE PROJECTS R&D tasks- software development, technology integration Pilot development, deployment, running and testing Exploitation Dissemination Ethic and Legal Issues FORMER EXPERIENCES STEP- Horizon 2020 (Starts on 02.06.2015): The overall objective of the project is to develop and pilot test a cloud eParticipation SaaS platform, (available as a mobile application and through a web platform) enhanced with web / social media mining, gamification, machine translation, and visualisation features, which will promote the societal and political participation of young people in the decision-making process on environmental issues. eEnviPer - ICT-PSP (www.eenviper.eu): "A single multi-purpose SOA platform that delivers environmental permissions services through the cloud of e-government services and applications" Supported by ICT-PSP (Partner). The aim of the project is to create a single multi-purpose SOA platform that delivers environmental permissions services through the cloud of e-government services and applications. The project has 12 partners among 7 different countries including Greece, Belgium, Croatia, Italy, United Kingdom, Serbia and Turkey. Open-DAI - ICT-PSP (www.opendai.eu): "Opening Data Architectures and Infrastructures of European Public Administrations" Supported by ICT PSP (Partner). The aim of the project is to open huge amount of data stored in public administrations' databases to the wide audience of potential users and create an open architecture model for the PA information system. The project has 11 partners among 4 different countries including Italy, Spain, Sweden and Turkey. CRUMBS: "Places and Augmented reality in Social Networks" Supported by CELTIC (Partner). This idea means that users will consume rich multimedia social content — stuck in different places by using their mobile phone as a mixer between the real world, captured by the mobile camera, and the (crumbs) social content provided by CRUMBS users. The key elements of this project are a Mobile Geo-Spatial Social Network and an Augmented Reality Engine. OSAMI-COMMONS: "Open source common foundations for a dynamic service-oriented platform" Supported by EURE-KA ITEA2. (Partner) The aim of the project is to provide open source common foundations for a dynamic service-oriented platform which is able to personalise itself in large diversity of co-operating Software Intensive Systems (SISs). OSAMI-Commons has 35 different participants among five different participating countries including Spain, Germany, France, Turkey and Finland. SAMPAS has the leadership on Ambient City Services (ACS) demonstrator and Vertical Domains tasks in the project.

# Sampaş Bilişim ve İletişim Sistemleri Sanayi ve Ticaret A.Ş.

Organisation Name	
Country	Turkey
City	İstanbul
Street	Orhan Veli Kanık Cd. No:3 Eryılmaz Plaza K:4
Website	
Phone	
<b>Organisation Type</b>	SME

Person	
Name	Mustafa Serdar Yümlü
Email	serdar.yümlü@sampas.com.tr
Job Position	Business Development &
	Marketing Director



### **Organisation Details**

**SAMPAŞ** is the leading Turkish **IT company** which introduced the **Smart City concept** to Turkey, providing information management tools and project management services - tailored for the specific needs of the local authorities.

We have numerous value-added solutions for building today's **Intelligent Cities**. From design to installation, operation to maintenance and consulting, Turkish local governments have implemented many award winning projects with company's vast expertise and experience.

With over 20 strategic partnerships with national and international giants, SAMPAŞ has been providing city and citizen focused information technology solutions – government software, intelligent water management systems, payment systems, geographical information systems, urban projects management, SaaS solutions and smart card projects - for over **500 municipalities across Turkey** contributing to country's transformation process towards becoming an e-government. Headquartered in Istanbul, SAMPAŞ has three major regional offices in İzmir, Adana and Ankara.

Besides, Sampas has been gaining experience in cloud computing and developing software projects with SOA architecture for several years and using its experience in both national and international projects (ITEA2, Celtic, ICT-PSP) experiences in architecture definition, service implementation, pilot demonstrations and dissemination for several projects.

### Areas of Activity

# Smart and Sustainable Cities and Energy Efficient Buildings

- EEB-05-2017 Development of near zero energy building renovation
- EEB-06-2017 Highly efficient hybrid storage solutions for power and heat in residential buildings and district areas, balancing the supply and demand conditions
- EEB-07-2017 Integration of energy harvesting at building and district level
- EEB-08-2017 New business models for energy-efficient buildings through adaptable refurbishment solutions
- EE-12-2017 Integration of Demand Response in Energy Management Systems while ensuring interoperability through Public Private Partnership
- SCC-1-2016-2017 Smart Cities and Communities lighthouse projects

- SCC-02-2016-2017 Demonstrating innovative nature-based solutions in cities
- SC5-08-2017 Large-scale demonstrators on naturebased solutions for hydro-meteorological risk reduction
- SC5-21-2017: Cultural heritage as a driver for sustainable growth (Heritage-led rural regeneration)

### **Cooperation Profiles**

### Partner: SAMPAŞ IT & Communications

SAMPAS, established in 1981, is proud to be the first and the largest and the most awarded Smart City Solutions provider of Turkey. With over 30 years of experience in distinctive and innovative information technology solutions, SAMPAS continues to meet all of the IT needs of municipalities while improving the quality of life of citizens. Under the roof of its brand AKOS (Smart City Automation Systems) SAMPAŞ - city and citizens focused - has ISO9001, ISO20000 and ISO27001 quality certificates, providing such services as Management Information Systems, Geographic Information Systems, Smart Water Management solutions, Municipality in a Box, Revenue Management and Payment systems, Smart City Card, Urban City and Urban Transformation Projects, serving over 400 municipalities. In order to continue improving software development processes, SAMPAS has received the TSE ISO / IEC 12207 Standard for Information Technology -Software Life Cycle Processes certificate. With 70 employees in its R&D department, SAMPAS provides high quality, world class solutions to customers, having reached the CMMI Level 3 as a result of investment and improvements in software development methods. SAMPAŞ has also joined several collaborative R&D projects as WP Leaders and national contact points both international and national level. PROPOSED ACTIVITIES FOR THE PROJECTS R&D tasks- software development, technology integration Pilot development, deployment, running and testing Exploitation Dissemination Ethic and Legal Issues FORMER EXPERIENCES STEP- Horizon 2020 (Starts on 02.06.2015): The overall objective of the project is to develop and pilot test a cloud eParticipation SaaS platform, (available as a mobile application and through a web platform) enhanced with web / social media mining, gamification, machine translation, and visualisation features, which will promote the societal and political participation of young people in the decision-making process on environmental issues. eEnviPer - ICT-PSP (www.eenviper.eu): "A single multi-purpose SOA platform that delivers environmental permissions services through the cloud of e-government services and applications" Supported by ICT-PSP (Partner). The aim of the project is to create a single multi-purpose SOA platform that delivers environmental permissions services through the cloud of e-government services and applications. The project has 12 partners among 7 different countries including Greece, Belgium, Croatia, Italy, United Kingdom, Serbia and Turkey. Open-DAI - ICT-PSP (www.opendai.eu): "Opening Data Architectures and Infrastructures of European Public Administrations" Supported by ICT PSP (Partner). The aim of the project is to open huge amount of data stored in public administrations' databases to the wide audience of potential users and create an open architecture model for the PA information system. The project has 11 partners among 4 different countries including Italy, Spain, Sweden and Turkey. CRUMBS: "Places and Augmented reality in Social Networks" Supported by CELTIC (Partner). This idea means that users will consume rich multimedia social content — stuck in different places by using their mobile phone as a mixer between the real world, captured by the mobile camera, and the (crumbs) social content provided by CRUMBS users. The key elements of this project are a Mobile Geo-Spatial Social Network and an Augmented Reality Engine. OSAMI-COMMONS: "Open source common foundations for a dynamic service-oriented platform" Supported by EURE-KA ITEA2. (Partner) The aim of the project is to provide open source common foundations for a dynamic service-oriented platform which is able to personalise itself in large diversity of co-operating Software Intensive Systems (SISs). OSAMI-Commons has 35 different participants among five different participating countries including Spain, Germany, France, Turkey and Finland. SAMPAS has the leadership on Ambient City Services (ACS) demonstrator and Vertical Domains tasks in the project.

# Sampaş Nanoteknoloji

Organisation Name	
Country	Turkey
City	İstanbul
Street	Orhan Veli Kanık Cd. No:3 Eryılmaz Plaza K:3
Website	
Phone	
<b>Organisation Type</b>	SME

Person	
Name	Eser Karakaya
Email	eser.karakaya@sampas.com.tr
Job Position	General Manager

### **Organisation Details**

SAMPAŞ Nanotechnology – a subsidiary of SAMPAŞ Information & Communication Systems - is one of the few companies that focus on commercialization of custom designed nano- and green technology solutions in Turkey. The main industrial sectors of our interest can be listed as: ceramics, glass, packaging, construction, renewable energy, waste management, plastics, textile, and obviously automotive industries.

#### **Areas of Activity**

### Smart and Sustainable Cities and Energy Efficient Buildings

- EEB-05-2017 Development of near zero energy building renovation
- EEB-06-2017 Highly efficient hybrid storage solutions for power and heat in residential buildings and district areas, balancing the supply and demand conditions
- EEB-07-2017 Integration of energy harvesting at building and district level
- EEB-08-2017 New business models for energy-efficient buildings through adaptable refurbishment solutions
- EE-12-2017 Integration of Demand Response in Energy Management Systems while ensuring interoperability through Public Private Partnership
- SCC-1-2016-2017 Smart Cities and Communities lighthouse projects
- SCC-02-2016-2017 Demonstrating innovative nature-based solutions in cities
- SC5-08-2017 Large-scale demonstrators on naturebased solutions for hydro-meteorological risk reduction
- SC5-21-2017: Cultural heritage as a driver for sustainable growth (Heritage-led rural regeneration)

### **Cooperation Profiles**

### Partner: Sampas Nanotechnology Ltd.

PROPOSED ACTIVITIES FOR THE PROJECTS R&D tasks (charectarization & analysis studies) Pilot development Exploitation Dissemination FORMER EXPERIENCES PCATDES (FP7) - The project aims to provide a cost effective solar powered method for mineralising the recalcitrant organic pollutants that biological methods cannot remove from waste-water from agricultural and seafood industries; particularly those situated in rural areas where power is scarce. The project unites cross disciplinary teams based in ASEAN and EU countries and the resulting sharing of expertise between centres of excellence will generate new knowledge on photocatalytic materials and processes. EFFESUS (FP7) - The main goal is to develop and demonstrate, through case studies a methodology for assessing and selecting energy efficiency interventions, based on existing and new technologies that are compatible with heritage values. A Decision Support System will be a primary deliverable. The environment in historic buildings and urban districts is controlled differently from modern cities and accordingly the project will also develop a multi-scale data model for the management of energy. In addition, new non-invasive, reversible yet cost-effective technologies for significantly improving thermal properties will also be developed. Finally, existing regulations and building policies may not fit cultural heritage specificities so the EFFESUS project will also address these non-technical barriers. These outcomes will be achieved through 10 work packages, performed by an interdisciplinary consortium of 23 partners from 13 countries. Due to the attractiveness of this niche market, 36 % of the project budget is allocated to SME's, which will work together with large companies, research institutions and end users throughout the duration of the project. TEX-SHIELD (FP7) - The overall project aim is to provide the European textile industry to restore approximately €5.3 Billion market. with an alternative material to C8 PFC with comparable performance. This will be achieved through extending our understanding of various other alternatives to deliver durable water and oil repellent coatings. With this knowledge we will develop a cost effective, environmentally friendly solution that has the ability to be bonded to the fabric in order to provide durable multifunctional performance especially, as different industries and applications require multifunctional coatings. Furthermore, it would be an added advantage for the textiles industry to be able to manufacture textiles with multifunctional features at highly competitive prices. SVARNISH (FP7) - The SVARNISH project aims to overcome the flexible packaging limitations related with the traditional food plastic materials, competitive costs, the chemical properties (antimicrobial, oxygen and water vapor), physicmechanical properties (simplifying the multilayer structures, and improving the simples ones), environmental and sustainable development. We aim to reduce the price of the food packaging around 20% and reduce waste material 8-10%, decreasing the time process manufacturing in a 50%, and reduction of the energy consumption in the same 50%. Reduce food waste by 50%. The 85% of the films used for food packaging industry will be recycling. The structure of SVarnish consortium has been selected through a logical process from "the raw material needed to improve the varnish to the final printing process", all supply chain it is represented. MU-TOOI (FP7) - The aim of the project is to develop an alternative method of microwave processing of composites, to enable the rapid and low-cost production of composite parts. The new process will result in an increase in energy efficiency, production efficiency, reduction in greenhouse gas emissions and production costs.

# Sampaş Nanoteknoloji

Organisation Name	
Country	Turkey
City	İstanbul
Street	Çubuklu Mahallesi Orhan Veli Kanık Caddesi Eryıl- maz Plaza No: 3 Kat:4
Website	
Phone	
Organisation Type	SME

Person	
Name	Mehmet Mermutlu
Email	mehmet.mermutlu@sampasnano.com
Job Position	Project Specialist

### **Organisation Details**

SAMPAŞ Nanotechnology – a subsidiary of SAMPAŞ Information & Communication Systems - is one of the few companies that focus on commercialization of custom designed nano- and green technology solutions in Turkey. The main industrial sectors of our interest can be listed as: ceramics, glass, packaging, construction, renewable energy, waste management, plastics, textile, and obviously automotive industries.

### Areas of Activity

### Smart and Sustainable Cities and Energy Efficient Buildings

- EEB-05-2017 Development of near zero energy building renovation
- EEB-06-2017 Highly efficient hybrid storage solutions for power and heat in residential buildings and district areas, balancing the supply and demand conditions
- EEB-07-2017 Integration of energy harvesting at building and district level
- EEB-08-2017 New business models for energy-efficient buildings through adaptable refurbishment solutions

### **Cooperation Profiles**

### Partner: Sampas Nanotechnology Ltd.

PROPOSED ACTIVITIES FOR THE PROJECTS R&D tasks (charectarization & analysis studies) Pilot development Exploitation Dissemination FORMER EXPERIENCES PCATDES (FP7) - The project aims to provide a cost effective solar powered method for mineralising the recalcitrant organic pollutants that biological methods cannot remove from waste-water from agricultural and seafood industries; particularly those situated in rural areas where power is scarce. The project unites cross disciplinary teams based in ASEAN and EU countries and the resulting sharing of expertise between centres of excellence will generate new knowledge on photocatalytic materials and processes. EFFESUS (FP7) - The main goal is to develop and demonstrate, through case studies a methodology for assessing and selecting energy efficiency interventions, based on existing and new technologies that are compatible with heritage values. A Decision Support System will be a primary deliverable. The environment in historic buildings and urban districts is controlled differently from modern cities and accordingly the project will also develop a multi-scale data model for the management of energy. In addition, new non-invasive, reversible yet cost-effective technologies for significantly improving thermal properties will also be developed. Finally, existing regulations and building policies may not fit cultural heritage specificities so the EFFESUS project will also address these non-technical barriers. These outcomes will be achieved through 10 work packages, performed by an interdisciplinary consortium of 23 partners from 13 countries. Due to the attractiveness of this niche market, 36 % of the project budget is allocated to SME's, which will work together with large companies, research institutions and end users throughout the duration of the project. TEX-SHIELD (FP7) - The overall project aim is to provide the European textile industry to restore approximately €5.3 Billion market. with an alternative material to C8 PFC with comparable performance. This will be achieved through extending our understanding of various other alternatives to deliver durable water and oil repellent coatings. With this knowledge we will develop a cost effective, environmentally friendly solution that has the ability to be bonded to the fabric in order to provide durable multifunctional performance especially, as different industries and applications require multifunctional coatings. Furthermore, it would be an added advantage for the textiles industry to be able to manufacture textiles with multifunctional features at highly competitive prices. SVARNISH (FP7) - The SVARNISH project aims to overcome the flexible packaging limitations related with the traditional food plastic materials, competitive costs, the chemical properties, physicmechanical properties, environmental and sustainable development. We aim to reduce the price of the food packaging around 20% and reduce waste material 8-10%, decreasing the time process manufacturing in a 50%, and reduction of the energy consumption in the same 50%. Reduce food waste by 50%. The 85% of the films used for food packaging industry will be recycling. The structure of SVarnish consortium has been selected through a logical process from "the raw material needed to improve the varnish to the final printing process", all supply chain it is represented. MU-TOOI (FP7) - The aim of the project is to develop an alternative method of microwave processing of composites, to enable the rapid and low-cost production of composite parts. The new process will result in an increase in energy efficiency, production efficiency, reduction in greenhouse gas emissions and production costs.

Owners lestion	
Organisation	Name
organisation	iiuiic

Country	Turkey
City	Istanbul
Street	Taksim
Website	
Phone	
Organisation Type	Other

Can Uludag
canuludag@gmail.com
Founder



#### Organisation Details

#### SMART Cities Innovation LAB is;

A Catalyst for the Benefit of Sustainable Future's Eco-Systems. A Global Think-Tank. A Smart Innovation Lab. A Problem Solving Global Hub for Smart Communities.

### At SMART Cities Innovation LAB,

We develop polyphonic intellectual designs and solutions through interdisciplinary interactions.

We collaborate with city administrations, institutions and opinion leaders to transform cities and urban areas through innovative methodologies for a sustainable future. We see innovation as a process that begins by listening to people, creating ideas, prototyping of new solutions and challenging stereotypes to generate impact for a sustainable urban future.

#### **Areas of Activity**

### SPIRE-Circular Economy Session

CIRC-02-2017 Water in the context of the circular economy

### Smart and Sustainable Cities and Energy Efficient Buildings

- EEB-05-2017 Development of near zero energy building renovation
- EE-12-2017 Integration of Demand Response in Energy Management Systems while ensuring interoperability through Public Private Partnership
- SCC-1-2016-2017 Smart Cities and Communities lighthouse projects
- SCC-02-2016-2017 Demonstrating innovative nature-based solutions in cities

#### **Cooperation Profiles**

### Partner: Strategy, Vision Plan & Frameworks & Basic Researches

A) We can prepare strategy road maps and vision plans of cities by performing the following critical assessment offers; i) We are capable of literature scanning about finding the best designs, developments, refurbishment projects or critical solutions etc in the world ii) We are capable of performing existing situation analysis of cities iii) We are capable of program management (technical) to assess the current situation of the project, make critical decisions, and provide information to have control all over the project (through comprehensive partnerships) B) We can design frameworks related to the issues, C) We can perform basic researches and write articles about specific issues since we are a think-tank organization. Therefore, networking and research areas are related to us closely D) Global Civil Sectoral Diplomacy Program to promote intercountry sectoral relations TYPE OF PARTNER SOUGHT i) We are looking for individual global thinkers to become advisory board members of our organization about Smart Cities from all kind of organizations. ii) We can be a stakeholder if we are capable of in your project with our global connections. iii) We would like to intiate a sectoral global diplomacy program with different parties especially to promote intercountry know-how and technology transfers and to develop relations. You can offer us to be a part of that project.

### TAGES

Organisation Name	
Country	Turkey
City	İstanbul
Street	Sumer Korusu Yeni Camlik Evleri 66 Tarabya
Website	Www.tages.biz
Phone	
Organisation Type	Consulting

Leyla Arsan	
leyla.arsan@tages.bi	jes.biz
CEO	
leyla.arsan@tages.b	jes.b



### **Organisation Details**

### TAGES, Industry & Information Technologies Research Development and Implementation Inc.

**TAGES,** as one of the leaders in EU FP projects in Turkey, prepares, coordinates and manages EU projects and consults industry and SMEs on EU R&D Projects mainly Framework Programme projects since 2002. TAGES with its 25 years of experience on manufacturing and ICT industry and an extensive knowledge and experience on technology project management and wide industrial network relations in Turkey and in EU facilitates different Turkish industries on innovation development and management by collaborating with ICT and industrial associations. TAGES competencies are mainly on innovation management, R&D project development and management, pilot implementations, dissemination and exploitation. TAGES is also consulting in smart cities with its knowledge from CitySDK and RADICAL projects on Open Data, IoT and sustainability. The CEO is adviser in smart city projects in Europe like SMARTERLABS. TAGES is a member of FINES Cluster, NESSI and NEM European Technology Platforms. The Headquarter is in Istanbul and have contact offices in Ankara and Milano.

### **Areas of Activity**

### Smart and Sustainable Cities and Energy Efficient Buildings

- SCC-1-2016-2017 Smart Cities and Communities lighthouse projects
- SCC-02-2016-2017 Demonstrating innovative nature-based solutions in cities
- SC5-08-2017 Large-scale demonstrators on nature-based solutions for hydro-meteorological risk reduction
- SC5-21-2017: Cultural heritage as a driver for sustainable growth (Heritage-led rural regeneration)

# Teksav Teknoloji

Organisation Name	
Country	Turkey
City	Izmir
Street	Ulukent San. Bolgesi
Website	www.teksav-teknoloji.com
Phone	
Organisation Type	SME

Person	
Name	Pınar Akdurak Bal
Email	aycapinar@gmail.com
Job Position	Project Manager



### **Organisation Details**

At 1982, upward rise of **TEKSAV Teknoloji** has begun. During the years, technical stuff build up were established which led to excellent capabilities and skills to match the tough technical requirements of military systems.

Specific research, development and quality goals targeted and reached with great ethusiasm. Promoted newer opportunities to the company and eventually TEKSAV Teknoloji has become and indispensible to the military.

Quality systems applied in the company follows the ISO 9001:2008 Quality System procedures and Military standard are common. The company is registered to NATO Coding Scheme (NAMSA) under with T9041code.

An important reputation vested on TEKSAV Teknoloji for quality products of high technology based systems with utmost care and service presented to its customers located inland and abroad.

In Brief ;

- In house technology development capacity
- Mechanical design and production (pneumatic, hydraulic)
- Electronics hardware, software design and production (PC, embedded)
- Respected past performance record (local and international)
- •
- Worldwide representatives

### **Areas of Activity**

#### **Factories of the Future**

 FOF-12-2017 ICT Innovation for Manufacturing SMEs

#### The European Green Vehicles Initiative

- GV-04-2017 Next generation electric drivetrains for fully electric vehicles, focusing on high efficiency and low cost
- GV-05-2017 Electric vehicle user-centric design for optimised energy efficiency
- GV-08-2017 Electrified urban commercial vehicles integration with fast charging infrastructure

Organisation Name		
Country	Turkey	
City	ADANA	
Street	SEYHAN	
Website		
Phone		
Organisation Type	Company	

Person		
Name	Mert ÖZKAYNAK	
Email	mert.ozkaynak@temsa.com	headness
Job Position	Innovation and Product Manager	- The second sec

#### **Organisation Details**

TEMSA

#### **Areas of Activity**

#### Factories of the Future

- FOF-06-2017 New product functionalities through advanced surface manufacturing processes for mass production
- FOF-07-2017 Integration of unconventional technologies for multi-material processing into manufacturing systems
- FOF-08-2017 In-line measurement and control for micro-/nano-enabled high-volume manufacturing for enhanced reliability
- FOF-09-2017 Novel design and predictive maintenance technologies for increased operating life of production systems
- FOF-10-2017 New technologies and life cycle management for reconfigurable and reusable customised products
- FOF-12-2017 ICT Innovation for Manufacturing SMEs

#### The European Green Vehicles Initiative

- GV-01-2017 Optimisation of heavy duty vehicles for alternative fuels use
- GV-04-2017 Next generation electric drivetrains for fully electric vehicles, focusing on high efficiency and low cost
- GV-05-2017 Electric vehicle user-centric design for optimised energy efficiency
- GV-06-2017 Physical integration of hybrid and electric vehicle batteries at pack level aiming at increased energy density and efficiency
- GV-07-2017 Multi-level modelling and testing of electric vehicles and their components
- GV-08-2017 Electrified urban commercial vehicles integration with fast charging infrastructure
- GV-09-2017 Aerodynamic and flexible trucks
- GV-10-2017 Demonstration (pilots) for integration of electrified L-category vehicles in the urban transport system
- GV-13-2017 Production of next generation battery cells in Europe for transport applications

# TOFAS Türk Otomobil Fabrikası A.Ş.

Organisation Name
-------------------

Country	Turkey
City	Bursa
Street	Yeni Yalova Yolu Cad. No: 574 16369 Bursa
Website	www.tofas.com.tr
Phone	
Organisation Type	Company

Person	
Name	Emre AKILLI
Email	emre.akilli@tofas.com.tr
Job Position	Innovation & Advanced De-
	velopment Expert

### **Organisation Details**

Turkish automotive company Tofaş, whose foundations were laid by the founder of the Koç Holding Vehbi Koç in 1968, and which has equal shareholders as Koç Holding and FCA- Fiat Chrysler Automobiles, is one of the three world-wide strategic manufacturing centers of Fiat Auto. Tofaş represents the greatest value and power in the Turkish automotive sector without any dispute.

Being the second big industrial enterprise of Bursa and the leader company in "Turkish Automotive Industry". Tofaş is increasing its competitiveness progressively with more than 8000 employees,700 employees of them work in R&D Center of TOFAS, 1 million square meters operation field, of which 350,000 square meters indoor area, an annual production capacity of 400,000 units.

Having one of the largest production capacities in Turkey, Tofaş is the only automotive company in Turkey that manufactures both passenger car and light commercial vehicle. Manufacturing for 6 global brands; Fiat, Peugeot, Citroen, Opel, Vauxhall and RAM, as part of Minicargo and the new Doblo projects, Tofaş also brings together 6 powerful global brands Fiat, Alfa Romeo, Lancia, Maserati, Ferrari and Jeep with the consumers in Turkey.

# TOFAS focuses on; Lightweighting, Electric Vehicle, Energy Consumption, Connectivity, ADAS, Product & Development Competitiveness, Industrial Technologies fields.

The first Industry Company from Turkey being coordinator in FP7 Industrial Technologies Field. (http://www.robo-partner.eu)

Other projects from EU Funding: http://www.tofas.com.tr/en/RD/Pages/Cooperation/EUProjects.aspx

TOFAS has more than 30 Local and International ongoing projects which are funded by TUBİTAK (Local) and EU ( under the programs: FP7,Eureka, M.Era.Net, H2020 etc.)

### Areas of Activity

### SPIRE-Circular Economy Session

• CIRC-01-2017 Systemic, eco-innovative approaches for the circular economy large-scale demonstration projects

### Factories of the Future

- FOF-06-2017 New product functionalities through advanced surface manufacturing processes for mass production
- FOF-07-2017 Integration of unconventional technologies for multi-material processing into manu-

### Smart and Sustainable Cities and Energy Efficient Buildings

- EEB-06-2017 Highly efficient hybrid storage solutions for power and heat in residential buildings and district areas, balancing the supply and demand conditions
- EEB-07-2017 Integration of energy harvesting at building and district level

### The European Green Vehicles Initiative

• GV-04-2017 Next generation electric drivetrains

facturing systems

- FOF-09-2017 Novel design and predictive maintenance technologies for increased operating life of production systems
- FOF-10-2017 New technologies and life cycle management for reconfigurable and reusable customised products

for fully electric vehicles, focusing on high efficiency and low cost

- GV-05-2017 Electric vehicle user-centric design for optimised energy efficiency
- GV-06-2017 Physical integration of hybrid and electric vehicle batteries at pack level aiming at increased energy density and efficiency
- GV-07-2017 Multi-level modelling and testing of electric vehicles and their components
- GV-08-2017 Electrified urban commercial vehicles integration with fast charging infrastructure

### **Cooperation Profiles**

**Partner:** TOFAS, as an Automotive OEM, can be end user for different calls about Green Vehicles topic, SUSTAINABLE PROCESS INDUSTRIES (SPIRE) and Factories of Future (FoF) Calls, FTI Calls

TOFAS focuses on; Lightweighting, Electric Vehicle, Energy Consumption, Connectivity, ADAS, Product & Development Competitiveness, Industrial Technologies fields

# TOFAŞ A.Ş. R&D CENTER

Organisation Name	
Country	Turkey
City	BURSA
Street	İSTANBUL YOLU CAD.NO:574 OSMANGAZİ
Website	
Phone	
<b>Organisation Type</b>	Company

Person	
Name	İSMAİL DURGUN
Email	ismail.durgun@tofas.com.tr
Job Position	MANAGER

### **Organisation Details**

CAR AND LCV PRODUCTION AND DESING

### Areas of Activity

### Factories of the Future

- FOF-07-2017 Integration of unconventional technologies for multi-material processing into manufacturing systems
- FOF-12-2017 ICT Innovation for Manufacturing SMEs

### The European Green Vehicles Initiative

• GV-04-2017 Next generation electric drivetrains for fully electric vehicles, focusing on high efficiency and low cost

# Trakya University

Organisation Name	
Country	Turkey
City	Edirne
Street	Kocasinan Mah. 25.Sokak, No:7, Yalkin Apt., D:3
Website	
Phone	
<b>Organisation Type</b>	University

Person	
Name	Cenk ATLIG
Email	cenk.atlig@gmail.com
Job Position	Faculty Member

### **Organisation Details**

Trakya University located in Edirne, Turkey.

### Areas of Activity

### Factories of the Future

- FOF-06-2017 New product functionalities through advanced surface manufacturing processes for mass production
- FOF-07-2017 Integration of unconventional technologies for multi-material processing into manufacturing systems
- FOF-08-2017 In-line measurement and control for micro-/nano-enabled high-volume manufacturing for enhanced reliability
- FOF-09-2017 Novel design and predictive maintenance technologies for increased operating life of production systems
- FOF-10-2017 New technologies and life cycle management for reconfigurable and reusable customised products
- FOF-12-2017 ICT Innovation for Manufacturing SMEs

# Smart and Sustainable Cities and Energy Efficient Buildings

- EEB-07-2017 Integration of energy harvesting at building and district level
- EEB-08-2017 New business models for energy-efficient buildings through adaptable refurbishment solutions
- EE-12-2017 Integration of Demand Response in Energy Management Systems while ensuring interoperability through Public Private Partnership
- SCC-1-2016-2017 Smart Cities and Communities lighthouse projects
- SCC-02-2016-2017 Demonstrating innovative nature-based solutions in cities
- SC5-08-2017 Large-scale demonstrators on na-

### The European Green Vehicles Initiative

- GV-01-2017 Optimisation of heavy duty vehicles for alternative fuels use
- GV-04-2017 Next generation electric drivetrains for fully electric vehicles, focusing on high efficiency and low cost
- GV-05-2017 Electric vehicle user-centric design for optimised energy efficiency
- GV-06-2017 Physical integration of hybrid and electric vehicle batteries at pack level aiming at increased energy density and efficiency
- GV-07-2017 Multi-level modelling and testing of electric vehicles and their components
- GV-08-2017 Electrified urban commercial vehicles integration with fast charging infrastructure
- GV-09-2017 Aerodynamic and flexible trucks
- GV-10-2017 Demonstration (pilots) for integration of electrified L-category vehicles in the urban transport system
- GV-13-2017 Production of next generation battery cells in Europe for transport applications

ture-based solutions for hydro-meteorological risk reduction

• SC5-21-2017: Cultural heritage as a driver for sustainable growth (Heritage-led rural regeneration)

### **Cooperation Profiles**

### Coordinator: Towards sustainable energy resources for smart devices

Towards sustainable energy resources for smart devices Types of functions of smart devices increasing every day. All of these devices energised by at least one type of energy resources. This leads an important energy request so significant supply chain. It also directly related with efficient energy management techniques. In this project, we design hybrid energy system to be used for smart systems in modern cities.

### TUBITAK

#### **Organisation Name**

Country	Turkey
City	Gebze/Kocaeli
Street	Dr. Zeki Acar Cad.
Website	
Phone	+90
Organisation Type	<b>R&amp;D</b> Institution



# Person Name Yasser El-Kahlout Email yasser.kahlout@tubitak.gov.tr Job Position Chief Research Engineer

#### **Organisation Details**

### TUBITAK Marmara Research Centre Energy Institute (EI), Battery Technologies Group

#### **Current Status:**

TUBITAK Marmara Research Centre Energy Institute (EI) provides and develops technological knowledge into practical applications in advanced and innovative energy and transportation technologies areas. It forms a bridge between fundamental research and commercial & industrial applications. The strategic objectives of the institute are, establishment of a broad and deep understanding of related technologies; technology development, including design and prototyping activities; and transferring of knowledge to industrial production lines and decision makers. Several R&D projects have been completed within the related technology areas. Various national and international R&D projects and industrial services which are conducted by the research groups of Energy Institute are ongoing in an interdisciplinary way. TUBITAK Marmara Research Center Energy Institute Power Electronics and Control Research Group works to develop technologies and finds solutions to help to solve some of the global problems via national and international projects. While addressing its customers needs the group also provides industrial services on Batteries (Pb-acid, NiCd, NiMH, Li-ion etc.).

Battery Technologies Group, having 20 researchers, designs, develops and manufactures prototype secondary batteries, reserve batteries and battery management systems. Founded in 2004, the group also provides advisory and testing services (in accordance with the TSE/EN standards) to public and private organizations/firms in its preliminary facility for electrochemical storage solutions. The group has been growing steadily through each project that was completed on account of industrial and other public/or private organizations on electrochemical storage. With those projects the group has proven ability to assemble cells and manufacture complete battery modules to be used in automotive applications. Titled "NiMH Battery Module Development for Hybrid Electrical Vehicles" and "NiMH cell development" are only two of the team's projects that were completed on behalf of the leading battery and automotive manufacturers in Turkey. Other ongoing projects are focusing on developing li-ion batteries with special design measurements for aerospace and satellite applications and with high energy and power capabilities for the Turkish National Car project.

In short, the team has capability to design, develop, manufacture, characterize and test different types of cells, batteries (Pb-acid, VRLA, NiMH, Li-ion, Mg-Cul, Li-air, LiS etc.), and all their components (cathode, anode, electrolyte, etc.) in addition to modules, battery packs and management systems (electrical and thermal).

Our battery group in the institute is currently doing R&D activities on Li-air, LiS technologies in addition to lithium ion batteries for electric vehicle and portable device applications. In our lab, we have lab-scale coin cell type and cylindri-

cal type and pilot scale 5-10 Ah pouch type lithium ion cell production infrastructures. In addition pilot scale 3-60Ah prismatic type and full scale 50 Ah pouch cell production lines are under construction.

Our current laboratories occupies 850 m2 area including battery active material development labs and the pilot scale pouch type Li-ion cell production line.

### Test Capabilities

Our cell and battery pack test infrastructure includes several electrical and mechanical testing equipments.

### SERVICES

Battery Technologies Research Group can serve in 3 different fields.

1. Development of Batteries for Special Purposes

Battery Technologies Research Group develops and manufactures battery packs with different capacities, voltages and battery management systems for special applications.

1. Test Service

Battery Technologies Research Group also provides testing services with acredited infastructure in the following standarts:

EN 60896-21 : Stationary lead-acid batteries. Valve regulated types.

Methods of test

EN 61951-2 : Secondary cells and batteries containing alkaline or other non-acid electrolytes - Portable sealed rechargeable single cells – Part 2: Nickel-metal hydride EN 61960 : Secondary cells and batteries containing alkaline or other non-acid electrolytes - Secondary lithium cells and batteries for portable applications

1. Cell Development

Battery Technologies Research Group has the ability to develop and test the following secondary cells with different chemistries:

Lead-Acid (Pb-Acid), Nickel-Cadmium (NiCd), Nickel Metal Hydride (NiMH), Lithium-ion (Li-ion).

Also, it can develop primary batteries with different chemistries such as Lithium thionyl chloride (Li-SOCl2), magnesium copper iodide (Mg-CuI), Silver-Zinc (Ag-Zn).

1. Consultancy

Battery Technologies Research Group also provides consultancy on appropriate cells/battery selection for special applications.

### LABORATORY INFASTRUCTURE

Battery Technologies Research Laboratory with its well-developed infastructure is one of the leading laboratory in European and Middle-East. Battery Technologies Research Laboratory can serve conducting research & development on batteries in addition to test services to the sector with its eigt sub-laboratories. Battery Research Laboratory has the following sub-laboratories:

- 1. Active Material Development Laboratory
- 2. Cell Development Lab.
- 3. Prototype Development Lab.
- 4. Battery Test and Cycling Lab.
- 5. High Voltage Battery Testing Lab.
- 6. Electrochemical Characterization Lab.
- 7. Li-ion Manufacturing Lab.
- 8. Dry Room (55m2, %1 Humidity).

The basic facilities of our lab:

### **Battery Test Facility**

- 600V/300A Battery Test System (2 channels)
- 5V/25A Cell Testing and Cycling System (24 channels)
- Cell Testing and Cycling System (8 channels)

### **Electrochemical Systems Facilities**

- Electrochemical Scanning System
- 4-Channel Potansiostat/Galvanostat
- 1-Channel Potansiostat/Galvanostat,

### **Material Development Facilities**

- Glove-Box
- Porosimeter
- Spin-Coater
- High-Pressure Reactor
- Laboratory Mixer
- High-Temperature Oven
- Vacuum Oven
- Tape Caster
- Mortar
- Ultrasonic Bath

### Battery Cell Packing Facility

- Prototype Machine
- Ultrasonic Welder Machine
- Resistance Welder Machine
- Hydrolic Press.

### **Research Areas:**

- Cathode material development for Li- ion batteries
  - 1. Layered Oxides (NMC, NCA, etc): Solid state synthesis of NMC and NCA based samples were synthesized and scaled up to 1 kg.
  - 2. Olivins (LFP, LMP, LCP): We have synthesized two different nano-structured carbon coated LFP materials using some polymers via solid-state synthesis route. Currently, the study is continuing to produce at larger scales (kg-scale). Besides, the synthesis study of high voltage olivins (LMP, LCP) at laboratory scale is almost completed. Larger scale production of these materials is expected in a few months.
- Anode Materials for Li-ion batteries
  - Carbon nano-materials (Graphene, CNTs, etc.): We synthesized graphene by using modified Hummers' method. Graphene was doped withg B- and P- and decorated with metal and metal oxide nanoparticles (Sn, FexOy, PdNi, CoFe2O4) and they were used as anode active material in Li-ion coin cells and cathode active materials in Li-air batteries.
  - 2. Si-based nano-materials (nano-powders, nanowires, nanotubes, etc.): B and As doped Si nanowires were developed as anode material and tested as half cells. Promising related results were submitted for publications.
  - 3. Sn and FexOy based nano-materials: Sn based nano materials were synthesized and supported on different carbon sources such as acetylene black, Ketjen Black, Vulcan and graphite. Scale up synthesis studies were conducted.
- Li-ion cell design for electric vehicles and space applications: LFP types lithium ion pouch cells for EV application are designed and produced using both commercial and in-home lab-made LFP components.
- Lithium-Sulfur (LiS) batteries: Currently, studies on LiS batteries are conducted using different nano-structured carbon materials (CNTs, graphene).
- Li-air batteries: Polymer and metal oxide supported carbon nanomaterials were synthesized and used as cathode active materials. Coin cell type Li-O2 were developed, built and tested. A proposal related to developing

O2 selective membranes for metal-air cells in addition to producing Li-air pouch cells was applied.

- Battery management system (BMS) design
  - 1. Hardware design and development for:
    - 1. Modular battery management system for high power battery packs
    - 2. Active and passive balancing
- Water and air cooling
- 1. In use datalogging
- 1. Software development
  - 1. Embedded software development for 8 bit and 32 bit microcontrollers
  - 2. Monitoring software development for PC
- Battery Packaging Design
  - 1. Structural design: Includes static and vibration based analyses and design optimization to abide by the structure related battery package standards of concern.
  - 2. Thermal design: Includes coupled heat transfer and electrochemical analyses to manage the heat transfer and control the package temperature for specific applications.
- Modeling and Optimization for Li ion batteries
  - 1. Multiscale Modeling:
    - 1. Mesoscale modeling: This type of simulation targets calculating the effective parameters of the nano-structured active materials used as electrodes
    - 2. Macro-scale modeling: This targets simulating the whole battery performance in terms of its electrochemical, thermal, and structural figures of merit.
  - 2. Optimization
    - 1. Shape optimization: This is a systematic way of designing the cell/battery by searching for the optimum geometrical and material parameters (design variables)
    - 2. Topology optimization: This mainly targets the design of the periodic unit cell topological structure for nano-structured materials. Consequently, Predefined desired effective constitutive parameters are achieved.

### Areas of Activity

### The European Green Vehicles Initiative

- GV-04-2017 Next generation electric drivetrains for fully electric vehicles, focusing on high efficiency and low cost
- GV-05-2017 Electric vehicle user-centric design for optimised energy efficiency
- GV-06-2017 Physical integration of hybrid and electric vehicle batteries at pack level aiming at increased energy density and efficiency
- GV-07-2017 Multi-level modelling and testing of electric vehicles and their components
- GV-08-2017 Electrified urban commercial vehicles integration with fast charging infrastructure
- GV-10-2017 Demonstration (pilots) for integration of electrified L-category vehicles in the urban transport system
- GV-13-2017 Production of next generation battery cells in Europe for transport applications

### **Cooperation Profiles**

### Partner: Development of Li-ion battery for special applications

As TUBITAK Marmara Research Centre Energy Institute (EI), Battery Technologies Group we are interested in participating in li-ion battery projects related to high energy, high power, long cycle life, life estimation, high volatage elec-

Turkey trolyte, low temperature electrolyte, state of charge, state of health, doped active materials, LiS, and batteries for aeroplanes electric vehicles (EV). A description of our capabilities, research areas and past and current EU projects are given below. Current Status: TUBITAK Marmara Research Centre Energy Institute (EI) provides and develops technological knowledge into practical applications in advanced and innovative energy and transportation technologies areas. It forms a bridge between fundamental research and commercial & industrial applications. The strategic objectives of the institute are, establishment of a broad and deep understanding of related technologies; technology development, including design and prototyping activities; and transferring of knowledge to industrial production lines and decision makers. Several R&D projects have been completed within the related technology areas. Various national and international R&D projects and industrial services which are conducted by the research groups of Energy Institute are ongoing in an interdisciplinary way. TUBITAK Marmara Research Center Energy Institute Power Electronics and Control Research Group works to develop technologies and finds solutions to help to solve some of the global problems via national and international projects. While addressing its customers needs the group also provides industrial services on Batteries (Pb-acid, NiCd, NiMH, Li-ion etc.). Battery Technologies Group, having 20 researchers, designs, develops and manufactures prototype secondary batteries, reserve batteries and battery management systems. Founded in 2004, the group also provides advisory and testing services (in accordance with the TSE/EN standards) to public and private organizations/firms in its preliminary facility for electrochemical storage solutions. The group has been growing steadily through each project that was completed on account of industrial and other public/or private organizations on electrochemical storage. With those projects the group has proven ability to assemble cells and manufacture complete battery modules to be used in automotive applications. Titled "NiMH Battery Module Development for Hybrid Electrical Vehicles" and "NiMH cell development" are only two of the team's projects that were completed on behalf of the leading battery and automotive manufacturers in Turkey. Other ongoing projects are focusing on developing li-ion batteries with special design measurements for aerospace and satellite applications and with high energy and power capabilities for the Turkish National Car project. In short, the team has capability to design, develop, manufacture, characterize and test different types of cells, batteries (Pb-acid, VRLA, NiMH, Li-ion, Mg-Cul, Li-air, LiS etc.), and all their components (cathode, anode, electrolyte, etc.) in addition to modules, battery packs and management systems (electrical and thermal). Our battery group in the institute is currently doing R&D activities on Li-air, LiS

technologies in addition to lithium ion batteries for electric vehicle and portable device applications. In our lab, we have lab-scale coin cell type and cylindrical type and pilot scale 5-10 Ah pouch type lithium ion cell production infrastructures. In addition pilot scale 3-60Ah prismatic type and full scale 50 Ah pouch cell production lines are under construction. Our current laboratories occupies 850 m2 area including battery active material development labs and the pilot scale pouch type Li-ion cell production line. Test Capabilities: Our cell and battery pack test infrastructure includes several electrical and mechanical testing equipments. Research Areas: 1- Cathode material development for Li- ion batteries a. Layered Oxides (NMC, NCA, etc): Solid state synthesis of NMC and NCA based samples were synthesized and scaled up to 1 kg. b. Olivins (LFP, LMP, LCP): We have synthesized two different nano-structured carbon coated LFP materials using some polymers via solid-state synthesis route. Currently, the study is continuing to produce at larger scales (kg-scale). Besides, the synthesis study of high voltage olivins (LMP, LCP) at laboratory scale is almost completed. Larger scale production of these materials is expected in a few months. 2- Anode Materials for Liion batteries a. Carbon nano-materials (Graphene, CNTs, etc.): We synthesized graphene by using modified Hummers' method. Graphene was doped withg B- and P- and decorated with metal and metal oxide nanoparticles (Sn, FexOy, PdNi, CoFe2O4 etc.) and they were used as anode active material in Li-ion coin cells and cathode active materials in Li-air batteries. b. Si-based nano-materials (nano-powders, nanowires, nanotubes, etc.): B and As doped Si nanowires were developed as anode material and tested as half cells. Promising related results were submitted for publications. c. Sn and FexOy based nano-materials: Sn based nano materials were synthesized and supported on different carbon sources such as acetylene black, Ketjen Black, Vulcan and graphite. Scale up synthesis studies were conducted. 3- Liion cell design for electric vehicles and space applications: LFP types lithium ion pouch cells for EV application are designed and produced using both commercial and in-home lab-made LFP components. 4- Lithium-Sulfur (LiS) batteries: Currently, studies on LiS batteries are conducted using different nano-structured carbon materials (CNTs, graphene). 5- Li-air batteries: Polymer and metal oxide supported carbon nanomaterials were synthesized and used as cathode active materials. Coin cell type Li-O2 were developed, built and tested. A proposal related to developing O2 selective membranes for metal-air cells in addition to producing Li-air pouch cells was applied. 6- Battery management system (BMS) design a. Hardware design and development for: i. Modular battery management system for high power battery packs ii. Active and passive balancing iii. Water and air cooling iv. In use datalogging b. Software development i. Embedded software development for 8 bit and 32 bit microcontrollers ii. Monitoring software development for PC 7-Battery Packaging Design a. Structural design: Includes static and vibration based analyses and design optimization to abide by the structure related battery package standards of concern. b. Thermal design: Includes coupled heat transfer and electrochemical analyses to manage the heat transfer and control the package temperature for specific applications. 8- Modeling and Optimization for Li ion batteries a. Multiscale Modeling: i. Mesoscale modeling: This type

of simulation targets calculating the effective parameters of the nano-structured active materials used as electrodes ii. Macro-scale modeling: This targets simulating the whole battery performance in terms of its electrochemical, thermal, and structural figures of merit. b. Optimization i. Shape optimization: This is a systematic way of designing the cell/battery by searching for the optimum geometrical and material parameters (design variables) ii. Topology optimization: This mainly targets the design of the periodic unit cell topological structure for nano-structured materials. Consequently, Predefined desired effective constitutive parameters are achieved. EU Project: Ongoing projects: 1-BRISK (7th FP) European Research Infrastructure for Thermochemical Biomass Conversion 2- ETRERA 2020 (7th FP) -Empowering Trans-Mediterranean Renewable Energy Research Alliance for Europe 2020 Challenges 3- ELECTRA (7th FP) - European Liaison on Electricity Committed Towards long-term Research Activities for Smart Grids 4- IRPWIND (7th FP) -Integrated Research Program on Wind Energy Completed projects: 1- MCFC-CONTEX (7th FP) Effects of CON-Taminants in biogenous fuels on MCFC catalyst and stack component degradation and lifetime and EXtraction strategies 2- TYGRE (7th FP) High Added Value Materials From Waste Tyre Gasification Residues 3- AB-E2PHEST2US (7th FP) -Enhanced Energy Production of Heat And Electricity By a Combined Solar Thermionic-Thermoelectric Unit System 4-MC-WAP (6th FP) Molten-Carbonate Fuel Cells For Water Borne Applications 5- EU-DEEP (6th FP) The Birth of A European Distributed Energy Partnership That Will Help The Large-Scale Implementation of Distributed Energy Resources in Europe 6- NATURAL-HY (6th FP) Preparing for the hydrogen economy by using the existing natural gas system as a catalyst. 7- TERMISOL (6th FP) New Low Emissivity and Long-lasting Paints for Cost Effective Solar Collectors 8-HYPROSTORE (6th FP) Improving of the S&T Research Capacity of TUBITAK MRC IE in the Fields of Hydrogen Technologies 9- BIGPOWER (6th FP) Improving of the S&T Research Capacity of TUBITAK MRC IE in the Fields of Integrated Biomass Gasification with Power Technologies 10- NETBIOCOF (6th FP) Integrated European Network For Biomass Co-Firing 11- CASES (6th FP) Cost Assessment Sustainable Energy Systems 12- MOCAMI (5th FP) Development and demonstration of a small-sized hybrid system with the combination of the MCFC technology and a micro-turbine 13- IRMATE-CH (5th FP) Integrated Research on Materials, Clean and efficient energy Technologies and processes to enhance MCFC in a sustainable development 14- BIOCOGEN (5th FP) Biomass Cogeneration Network

# TUBITAK

Organisation Name	
Country	Turkey
City	Ankara
Street	YOK Binasi
Website	www.ufuk2020.org.tr
Phone	
Organisation Type	Other

Person		
Name	Muhammet Hakan HORZUM	
Email	muhammet.horzum@tubitak.gov.tr	
Job Position	National Contact Point	

### **Organisation Details**

The Scientific and Technological Research Council of Turkey (TUBITAK) funds nationally and internationally research, development, and innovation activities and has several research centers and institutes (environement, energy, genetic engineering and biotechnolgy, food, chemical technologies, materials, earth and marine sciences, electronic and cryptology, information and software technologies, cybersecurity, defense, space, metrology, academic internet network, electirc vehicles, space exploration)

TUBITAK Horizon 2020 National Coordination Office aims to move up the participation rate of Turkish stakeholders to Horizon 2020 programme. As a result, the Office has strong bonds with Turkish academy, industry, research institutes, SMEs, etc. which perform research, development, and innovation activities.

### Areas of Activity

### The European Green Vehicles Initiative

- GV-01-2017 Optimisation of heavy duty vehicles for alternative fuels use
- GV-04-2017 Next generation electric drivetrains for fully electric vehicles, focusing on high efficiency and low cost
- GV-05-2017 Electric vehicle user-centric design for optimised energy efficiency
- GV-06-2017 Physical integration of hybrid and electric vehicle batteries at pack level aiming at increased energy density and efficiency
- GV-07-2017 Multi-level modelling and testing of electric vehicles and their components
- GV-08-2017 Electrified urban commercial vehicles integration with fast charging infrastructure
- GV-09-2017 Aerodynamic and flexible trucks
- GV-10-2017 Demonstration (pilots) for integration of electrified L-category vehicles in the urban transport system
- GV-13-2017 Production of next generation battery cells in Europe for transport applications

### **Cooperation Profiles**

### Partner: National Contact Point for Transport

Besides being representative to the Transport Programme Committee and providing country contributions; my aim is -as National Contact Point of Turkey for Transport- to foster Turkish entities' participation to EU Framework Programme Horizon 2020 by revealing the absolute potential of Turkish RDI stakeholders, bridging Turkish and other EU counterparts for successful project preparations. Good command on Turkish research, technology, and innovation area is a significant aspect to realize these above. Coordination of Horizon 2020 Programme within Turkey Establishing multilateral and bileteral relations through research and innovation cooperation in international scale, Dissemination of knowledge through Turkish Research Area Close relationships with Turkish research and innovation community (such as academy, industry, public authorities, NGOs, etc.) Mapping and matching activities specifically focusing on EU Framework Calls.

Large

# TUBITAK

Organisation Name	
Country	Turkey
City	Ankara
Street	Tunus Caddesi No:80 Kavaklıdere
Website	http://www.h2020.org.tr/
Phone	
Organisation Type	R&D Institution

Person		
Name	Cagri YILDIRIM	L
Email	cagri.yildirim@tubitak.gov.tr	
Job Position	H2020 Energy National Con- tact Point	

### **Organisation Details**

The Scientific and Technological Research Council of Turkey (TÜBİTAK) is the leading agency for management, funding and conduct of research in Turkey. It was established in 1963 with a mission to advance science and technology, conduct research and support Turkish researchers. The Council is an autonomous institution and is governed by a Scientific Board whose members are selected from prominent scholars from universities, industry and research institutions.

TÜBİTAK is responsible for promoting, developing, organizing, conducting and coordinating research and development in line with national targets and priorities.

TÜBİTAK acts as an advisory agency to the Turkish Government on science and research issues, and is the secretariat of the Supreme Council for Science and Technology (SCST), the highest S&T policy making body in Turkey.

Setting its vision as to be an innovative, guiding, participating and cooperating institution in the fields of science and technology, which serves for improvement of the life standards of our society and sustainable development of our country, TÜBİTAK not only supports innovation, academic and industrial R&D studies but also in line with national priorities develops scientific and technological policies and manages R&D institutes, carrying on research, technology and development studies. Furthermore, TÜBİTAK funds research projects carried out in universities and other public and private organizations, conducts research on strategic areas, develops support programs for public and private sectors, publishes scientific journals, popular science magazines and books, organizes science and society activities and supports undergraduate and graduate students through scholarships.

More than 1,500 researchers work in 15 different research institutes of TÜBİTAK where contract research as well as targeted and nation-wide research is conducted.

### Areas of Activity

### SPIRE-Circular Economy Session

• EE-17-2016-2017 Valorisation of waste heat in industrial systems

# Smart and Sustainable Cities and Energy Efficient Buildings

- EE-12-2017 Integration of Demand Response in Energy Management Systems while ensuring interoperability through Public Private Partnership
- SCC-1-2016-2017 Smart Cities and Communities lighthouse projects

### **Cooperation Profiles**

### Partner: National Contact Point for Energy

I am working as an National Contact Point (NCP) for Energy in TUBITAK. As an Energy NCP, I will suggest the most suitable partners from Turkey to take part in SCC1, EE12 and EE17 topics.

# TUBITAK

Organisation Name		
Country	Turkey	
City	Ankara	
Street	Bilkent	
Website	www.tubitak.gov.tr	
Phone		
Organisation Type	Authority/Government	

Person	
Name	Meltem ÜNLÜ TOKCAER
Email	meltem.unlu@tubitak.gov.tr
Job Position	H2020ENV NCP

### **Organisation Details**

TUBITAK

### Areas of Activity

### SPIRE-Circular Economy Session

- CIRC-01-2017 Systemic, eco-innovative approaches for the circular economy large-scale demonstration projects
- CIRC-02-2017 Water in the context of the circular economy

# Smart and Sustainable Cities and Energy Efficient Buildings

- SCC-02-2016-2017 Demonstrating innovative nature-based solutions in cities
- SC5-08-2017 Large-scale demonstrators on nature-based solutions for hydro-meteorological risk reduction
- SC5-21-2017: Cultural heritage as a driver for sustainable growth (Heritage-led rural regeneration)

### TUBITAK

Dorcon

Tu	rkey
----	------

Organisation Name	
Country	Turkey
City	KOCAELI
Street	Enerji Enstitusu
Website	
Phone	
<b>Organisation Type</b>	R&D Institution

Person	
Name	Omer Salihoglu
Email	omer.salihoglu@tubitak.gov.tr
Job Position	Senior Researcher

### Organisation Details

#### **BATTERY RESEARCH GROUP**

Batteries are best known as electrochemical energy storage systems converting electrical energy to chemical energy. They are widely used in electronical devices such as mobile phones, radios, laptops, electrical vehicles, satellites, defence systems and communication systems.

TUBITAK Marmara Research Center (MAM) Energy Institute has led the foundation of the first battery research laboratory in Turkey and started the Research and Development activites in the battery technology.

TUBITAK MAM Energy Institute Battery Research Technologies Group aims at developing prototype products meeting customer needs and giving Research & Development support services to raise the national sector competitiveness in international markets. Consequently, the Battery Research Group serves the battery sector in the fields of battery design and development, testing service with its accredited infastructure and colsultancy.

### SERVICES

Battery Technologies Research Group can serve in 3 different fields.

1. Development of Batteries for Special Purposes

Battery Technologies Research Group develops and manufactures battery packs with different capacities, voltages and battery management systems for special applications.

2. Test Service

Battery Technologies Research Group also provides testing services with acredited infastructure in the following standarts:

EN 60896-21 : Stationary lead-acid batteries. Valve regulated types.

Methods of test

EN 61951-2 : Secondary cells and batteries containing alkaline or other non-acid electrolytes - Portable sealed rechargeable single cells – Part 2: Nickel-metal hydride EN 61960 : Secondary cells and batteries containing alkaline or other non-acid electrolytes - Secondary lithium cells and batteries for portable applications

3. Cell Development

Battery Technologies Research Group has the ability to develop and test the following secondary cells with different chemistries:

Lead-Acid (Pb-Acid), Nickel-Cadmium (NiCd), Nickel Metal Hydride (NiMH), Lithium-ion (Li-ion).

Also, it can develop primary batteries with different chemistries such as Lithium thionyl chloride (Li-SOCl2), magnesium copper iodide (Mg-CuI), Silver-Zinc (Ag-Zn).

4. Consultancy

Battery Technologies Research Group also provides consultancy on appropriate cells/battery selection for special applications.

### LABORATORY INFASTRUCTURE

Battery Technologies Research Laboratory with its well-developed infastructure is one of the leading laboratory in European and Middle-East. Battery Technologies Research Laboratory can serve conducting research & development on batteries in addition to test services to the sector with its eigth sub-laboratories. Battery Research Laboratory has the following sub-laboratories:

- 1. Active Material Development Laboratory
- 2. Cell Development Lab.
- 3. Prototype Development Lab.
- 4. Battery Test and Cycling Lab.
- 5. High Voltage Battery Testing Lab.
- 6. Electrochemical Characterization Lab.
- 7. Li-ion Manufacturing Lab.
- 8. Dry Room (55m2, %1 Humidity).

The basic facilities of our lab:

### **Battery Test Facility**

- 72V/200A Battery Test System (10 channels)
- 600V/300A Battery Test System (2 channels)
- 5V/25A Cell Testing and Cycling System (24 channels)
- Cell Testing and Cycling System (8 channels)

### **Electrochemical Systems Facilities**

- Electrochemical Scanning System
- 4-Channel Potansiostat/Galvanostat
- 1-Channel Potansiostat/Galvanostat,

### **Material Development Facilities**

- Glove-Box
- Porozimeter
- Spin-Coater
- High-Pressure Reactor
- Laboratory Mixer
- High-Temperature Oven
- Vacuum Oven
- Tape Caster
- Mortar
- Ultrasonic Bath

### **Battery Packing Facility**

- Prototype Machine
- Ultrasonic Welder Machine
- Resistance Welder Machine
- Hydrolic Press.

### SELECTED PROJECTS

### 1- Development of Advanced Battery Manufacturing Infastructure (DPT)

The Energy Institute Battery Research Group Laboratory was founded by this project. All the infastructure was funded by the State Planning Organization (DPT).

### 2- NiMH Battery Pack Development for Hybrid Electrical Vehicle (Ford-Otosan)

A battery pack for the commercial Ford-Otosan Transit modified to the hybrid electrical vehicle by the Vehicle Technologies Group was manufactured. Thermal management and battery management systems and afterwards tested were successfully conducted.

#### 3- Battery Test System (Turkish Navy)

This project aims at designing a test system for testing the (charge/discharge) characteristics, battery capacity, battery performance of the lead-acid batteries used in submarines in Navy. The system was manufactured and delivered to the Turkish Navy.

The system has three subsystems

Charging Unit

Discharging Unit

Measuring and Controlling Unit

#### 4- NiMH Cell Development (İnci Akü)

The aim of the project is to develop indigenous NiMH cells. The project was funded by İnci Akü. At the end of the project, high energy and high power prototype NiMH cells were manufactured and delivered to İnci Akü.

### 5- Primary Mg-Cul Battery Manufacturing Project

By this project, Mg-Cul batteries were developed and manufactured. Mg-Cul batteries called reserve batteries are water-activated batteries and activated when immersed in water. They have long shelf-life and have no self-discharge problems. These batteries were delivered to use in Sonobuoys for Turkish Navy.

Voltage	: 15V
Capacity	: 2,5Ah
Activation Time	: 60 seconds (max)
Electrolite	: Sea water
Operation Time	: 8 hours
Operation temp.	: -50/60C

#### 6- Smart Battery Power Pack (İnci Akü)

This project aims at combining the energy capabilities of batteries and power capabilities of supercapacitors. The battery pack was targeted to be a user-friendly system monitoring state-of-charge, state-of-health and controlling the batteries itself. Particularly, batteries can be insufficient on sudden power changes. Power pack will be enriched with supercapacitors and integrated in a compact system eliminating the disadvantages of the batteries.

### 7- Energy Storage Technologies Infastructure Development Project (DPT - State Planning Organization)

This project was funded by the State Planning Organization (DPT). Battery Technologies Research Laboratories was targeted to be an excellency center in basic science, applied science on energy storage technologies. The laboratories became a well-developed center in the Middle East and Europe in the battery science field. In addition, a Pilot manufacturing line of Li-ion and Li-polymer batteries was established in this project.

#### Areas of Activity

The European Green Vehicles Initiative

- GV-05-2017 Electric vehicle user-centric design for optimised energy efficiency
- GV-06-2017 Physical integration of hybrid and electric vehicle batteries at pack level aiming at increased energy density and efficiency

GV-07-2017 Multi-level modelling and testing of electric vehicles and their components

## TUBITAK BILGEM

Organisation	Name
organisation	itanic

Country	Turkey
City	Kocaeli
Street	Gebze
Website	
Phone	
Organisation Type	R&D Institution

Person	
Name	Ramazan Cengiz
Email	cengizr@gmail.com
Job Position	Project Manager

#### **Organisation Details**

#### **R&D Organization**

Consisting of more than 1600 staff , more than 80% of whom are R&D staff , TÜBİTAK BİLGEM operates on information technology, information security and advanced electronics. Based upon its experience exceeding 40 years, the center is now one of the most competent R&D centers of Turkey.

#### Success Beyond National Boundaries

The institutions within BİLGEM have so far attained hundreds of project achievements in the fi elds of information security, software and telecommunication. These institutions are namely the National Research Institute of Electronics and Cryptology (UEKAE), the Information Technologies Institute (BTE), The Advanced Technologies Research Institute (İLTAREN), The Cyber Security Institute (SGE) and The Software Technologies Research Institute (YTE). Thanks to the projects of the aforementioned institutes, Turkey has become one of the few countries declaring its technological independence in the fi elds of information security and informatics.

Products and solutions developed by BİLGEM ha

#### Areas of Activity

#### Factories of the Future

- FOF-06-2017 New product functionalities through advanced surface manufacturing processes for mass production
- FOF-07-2017 Integration of unconventional technologies for multi-material processing into manufacturing systems
- FOF-10-2017 New technologies and life cycle management for reconfigurable and reusable customised products
- FOF-12-2017 ICT Innovation for Manufacturing SMEs

## Smart and Sustainable Cities and Energy Efficient Buildings

- EE-12-2017 Integration of Demand Response in Energy Management Systems while ensuring interoperability through Public Private Partnership
- SCC-1-2016-2017 Smart Cities and Communities lighthouse projects
- SCC-02-2016-2017 Demonstrating innovative nature-based solutions in cities

#### The European Green Vehicles Initiative

• GV-07-2017 Multi-level modelling and testing of electric vehicles and their components

• SC5-08-2017 Large-scale demonstrators on nature-based solutions for hydro-meteorological risk reduction

## Tubitak Marmara Research Center

Organisation Name

5	
Country	Turkey
City	Kocaeli
Street	Dr. Zeki Acar
Website	
Phone	
Organisation Type	R&D Institution

Person	
Name	Gizem Hatipoğlu
Email	gizem.hatipoglu@tubitak.gov.tr
Job Position	Researcher

#### **Organisation Details**

TUBITAK MRC Energy Institute Battery Research Technologies Group aims to develop from material to the prototype products for customer needs and to give Research & Development support for raising the national sector competitiveness in international markets. So, Battery Research Group serves to the battery sector in the fields of battery design and development, testing service with its accredited infastructure and colsultant. We want to exchange our experience in Horizon 2020 projects with colloboration partner/s.

#### Areas of Activity

#### The European Green Vehicles Initiative

- GV-01-2017 Optimisation of heavy duty vehicles for alternative fuels use
- GV-04-2017 Next generation electric drivetrains for fully electric vehicles, focusing on high efficiency and low cost
- GV-05-2017 Electric vehicle user-centric design for optimised energy efficiency
- GV-06-2017 Physical integration of hybrid and electric vehicle batteries at pack level aiming at increased energy density and efficiency
- GV-07-2017 Multi-level modelling and testing of electric vehicles and their components
- GV-08-2017 Electrified urban commercial vehicles integration with fast charging infrastructure
- GV-09-2017 Aerodynamic and flexible trucks
- GV-10-2017 Demonstration (pilots) for integration of electrified L-category vehicles in the urban transport system
- GV-13-2017 Production of next generation battery cells in Europe for transport applications

#### **SPIRE-Circular Economy Session**

• SPIRE-10-2017 New electrochemical solutions for industrial processing, which contribute to a reduction of carbon dioxide emissions

#### **Cooperation Profiles**

## **Coordinator:** Looking for a colloboration partner/s for rechargeable battery projects: 'The European Green Vehicles Initiative'

TUBITAK MRC Energy Institute Battery Research Technologies Group aims to develop from material to the prototype products for customer needs and to give Research & Development support for raising the national sector competitiveness in international markets. So, Battery Research Group serves to the battery sector in the fields of battery design and development, testing service with its accredited infastructure and colsultant. We as a battery research group are involved in important national projects like national electric vehicle and satellite. So we want to exchange our experience in Horizon 2020 projects with colloboration partner/s.

## **TUBITAK Marmara Research Center**

#### Organisation Name

Turkey
Kocaeli
Dr Zeki Acar Cd.
http://mam.tubitak.gov.tr/en
R&D Institution

Person	
Name	Nevin Taşaltın
Email	nevin.tasaltin@tubitak.gov.tr
Job Position	Senior Researcher

#### **Organisation Details**

http://mam.tubitak.gov.tr/en

Areas of Activity	
Smart and Sustainable Cities and Energy Efficient Buildings • SCC-1-2016-2017 Smart Cities and Communities lighthouse projects	<ul> <li>The European Green Vehicles Initiative</li> <li>GV-01-2017 Optimisation of heavy duty vehicles for alternative fuels use</li> <li>GV-04-2017 Next generation electric drivetrains for fully electric vehicles, focusing on high efficiency and low cost</li> <li>GV-05-2017 Electric vehicle user-centric design for optimised energy efficiency</li> <li>GV-06-2017 Physical integration of hybrid and electric vehicle batteries at pack level aiming at increased energy density and efficiency</li> <li>GV-07-2017 Multi-level modelling and testing of electric vehicles and their components</li> <li>GV-08-2017 Electrified urban commercial vehicles integration with fast charging infrastructure</li> <li>GV-09-2017 Aerodynamic and flexible trucks</li> <li>GV-10-2017 Demonstration (pilots) for integration of electrified L-category vehicles in the urban transport system</li> <li>GV-13-2017 Production of next generation battery cells in Europe for transport applications</li> </ul>

## TUBITAK MRC

/

Country	Turkey
City	Kocaeli
Street	Gebze
Website	http://mam.tubitak.gov.tr
Phone	
Organisation Type	R&D Institution

Person	
Name	Ahmet Baban
Email	ahmet.baban@tubitak.gov.tr
Job Position	Senior Research Scientist

#### **Organisation Details**

Research development and innovation capabilities widely shared by TUBITAK MRC's Environment and Cleaner Production Institute, Energy Institute, Genetic Engineering and Biotechnology Institute, Food Institute, Chemical Technology Institute, Materials Institute and Earth and Marine Sciences Institute.

#### **Areas of Activity**

#### **SPIRE-Circular Economy Session**

- SPIRE-07-2017 Integrated approach to process optimisation for raw material resources efficiency, excluding recovery technologies of waste streams
- CIRC-01-2017 Systemic, eco-innovative approaches for the circular economy large-scale demonstration projects
- CIRC-02-2017 Water in the context of the circular economy

#### Turkey

## TUBITAK- Energy Institute

#### **Organisation Name**

Country	Turkey
City	Gebze
Street	Dr. Zeki Acar Cd, No:1
Website	http://ee.mam.tubitak.gov.tr/en
Phone	
Organisation Type	R&D Institution

Person	
Name	M. Suha Yazici
Email	suha.yazici@tubitak.gov.tr
Job Position	Chief Research Scientist

#### **Organisation Details**

Energy Institute is operating under Marmara Research Center as a Governmental research organization. Currently, close to 300 researcher are working on energy related technologies including: Coal and biomass combustiongasi@cation pilot plant; Gas technologies excellence center; Vehicle technologies mainly hybrid and electric; Vehicles excellence center; Energy storage research with pilot production line; Solid and liquid fuel technologies; Fuel cell technologies research; Power electronics technologies; Low and medium voltage laboratories.

#### Areas of Activity

#### SPIRE-Circular Economy Session

- SPIRE-08-2017 Carbon dioxide utilisation to produce added value chemicals
- SPIRE-10-2017 New electrochemical solutions for industrial processing, which contribute to a reduction of carbon dioxide emissions
- EE-17-2016-2017 Valorisation of waste heat in industrial systems

#### Smart and Sustainable Cities and Energy Efficient Buildings

- EEB-06-2017 Highly efficient hybrid storage solutions for power and heat in residential buildings and district areas, balancing the supply and demand conditions
- EEB-07-2017 Integration of energy harvesting at building and district level
- SCC-1-2016-2017 Smart Cities and Communities lighthouse projects
- SCC-02-2016-2017 Demonstrating innovative nature-based solutions in cities

#### The European Green Vehicles Initiative

- GV-04-2017 Next generation electric drivetrains for fully electric vehicles, focusing on high efficiency and low cost
- GV-06-2017 Physical integration of hybrid and electric vehicle batteries at pack level aiming at increased energy density and efficiency
- GV-07-2017 Multi-level modelling and testing of electric vehicles and their components
- GV-08-2017 Electrified urban commercial vehicles integration with fast charging infrastructure
- GV-13-2017 Production of next generation battery cells in Europe for transport applications

#### **Cooperation Profiles**

#### Partner: Energy for Smart Cities

With experience with several FP6 and FP7 projects, Energy Institute is willing to collaborate with multiple partners on various aspect of energy research and demonstration. Currently ongoing projects: BIOMASUD Plus (H2020) - Developing the sustainable market of residential Mediterranean solid biofuels CITIFIED (7th FP) - RepliCable and InnovaTive Future Efficient Districts and cities BRISK (7th FP) European Research Infrastructure for Thermochemical Biomass Conversion ETRERA 2020 (7th FP) -Empowering Trans-Mediterranean Renewable Energy Research Alliance for Europe 2020 Challenges ELECTRA (7th FP) - European Liaison on Electricity Committed Towards long-term Research Activities for Smart Grids IRPWIND (7th FP) –Integrated Research Program on Wind Energy Memberships: EERA - European Energy Research Alliance EERA Bioenergy EERA Smart Grids EERA Wind Energy EERA Fuel Cells and Hydrogen IEA-International Energy Agency IEA CERT -Committee on Energy Research and Technology IEA HEV-ExCo & Annex 1: Hybrid and Electric Vehicle Technologies and Programmes Executive Committee and Annex I Information Exchange N.ERGHY -Fuel Cell and Hydrogen Joint Technology Initiative (FCH JTI) EUREC- The Assosiation of European Renewable Energy Research Centers

#### Partner: Battery Hybrid Green Vehicles

Energy Institute has more than 50 researchers under Battery and Vehicle divisions. Battery capabilities expanding to 1MW annual production capacity with 50 Ah Li-ion cells. Working on future battery technologies as well. Vehicle division is working on all electric, battery-ICE and battery- fuel cell hybrid vehicle technologies and demonstrations. Memberships: IEA-International Energy Agency IEA CERT -Committee on Energy Research and Technology IEA HEV-ExCo & Annex 1: Hybrid and Electric Vehicle Technologies and Programmes Executive Committee and Annex I Information Exchange

## TURKEY ELECTRIC HYBRID CARS ASSOCIATION

#### **Organisation Name**

Country	Turkey
City	ISTANBUL
Street	BUYUKDERE ST, BEYTEM PL, 22, SISLI
Website	www.tehad.org
Phone	+90 212 939 6220
Organisation Type	Association/Agency

**BERKAN BAYRAM** 

FOUNDER

berkan@tehad.org



www.TEHAD.org



#### **Organisation Details**

Person

Name Email

**Job Position** 

One of the biggest threats the world has been facing in recent years is the increasing level of CO2 emission and so air pollution. The rising number of cars in traffic, and the high level of exhaust gas emission of many of these cars drastically harm the nature. Then, how can we overcome this problem?

In order to overcome this obstacle, we should firstly create an awareness and enlighten the society.

Our goal as TEHAD - Turkish Electric & Hybrid Vehicles Association is to deliver with the right information at first hand to our members about the latest Electric and Hybrid vehicle techonologies and industry developments.

Please contact with us, as the Turkey's the first and only non-governmental organization.

#### Areas of Activity

#### **Factories of the Future**

- FOF-10-2017 New technologies and life cycle management for reconfigurable and reusable customised products
- FOF-12-2017 ICT Innovation for Manufacturing SMEs

#### The European Green Vehicles Initiative

- GV-01-2017 Optimisation of heavy duty vehicles for alternative fuels use
- GV-04-2017 Next generation electric drivetrains for fully electric vehicles, focusing on high efficiency and low cost
- GV-05-2017 Electric vehicle user-centric design for optimised energy efficiency
- GV-06-2017 Physical integration of hybrid and electric vehicle batteries at pack level aiming at increased energy density and efficiency
- GV-07-2017 Multi-level modelling and testing of electric vehicles and their components
- GV-08-2017 Electrified urban commercial vehicles integration with fast charging infrastructure
- GV-10-2017 Demonstration (pilots) for integration of electrified L-category vehicles in the urban transport system
- GV-13-2017 Production of next generation battery cells in Europe for transport applications

#### **Cooperation Profiles**

#### Coordinator: Electric bikes Charging Station, the Structure, that uses solar energy system.

In any case, due to the current structure provides seamless communication, can be used as a point of uninterruptible power supply and power generation. in an emergency cases (earthquake, fire, terrorism, natural disasters, etc.) can be used as a meeting point and electric bikes charging station.

#### Turkey

## Turkey in H2020

Organisation Name	
Country	Turkey
City	Ankara
Street	No:6/2 Mustafa Kemal Mah. 2119. Sok. , Çankaya
Website	
Phone	
Organisation Type	Association/Agency
Person	
Name	Odysseas Spyroglou
Email	o.spyroglou@idi.ie
Job Position	IPR, Legal & Financial Expert

#### **Organisation Details**

Turkey in Horizon 2020 is a project cofinanced by the European Union and the Republic of Turkey. The overall project objective is to strengthen the capacity of Turkey in Science, Technology and Innovation and facilitate the integration of Turkish Research Area (TARAL) to European Research Area (ERA) through increasing its participation to Horizon 2020.

## Turkish Green Building Council

Organisation Name	
Country	Turkey
City	Istanbul
Street	Baslik Sokak No:2 Levent Beşiktaş Istanbul
Website	
Phone	
Organisation Type	Association/Agency

Person	
Name	Ahmet ACAR
Email	ahmet.acar@cedbik.org
Job Position	Project Manager

#### **Organisation Details**

The Turkish Green Building Association aims to contribute to the building industry's development by means of the spread of principles of sustainability. Turkish Green Building Association; which was established in 2007, under the leadership of our founding president Mr. Ali Nihat GOKYIGIT and our founding vice president Ms. Duygu ERTEN has now more than 150 supporting members.

Turkish Green Building Association conducts its activities with the belief that buildings and settlements designed and constructed with an ecological sensibility allow us to live and work in healthier places and lead healthier lives.

Turkish Green Building Association organises educational programs, develops pilot projects with government and universities and conducts lobbying activities to increase public awareness about the necessity of green building while also encouraging the building industry to develop along principles of sustainability.

Systems evaluating the environmental impacts of buildings and their surroundings are effective tools when aiming for green transformation of construction industry. Turkish Green Building Association is currently working to fill this void by adapting an environmental certificate system for buildings specific to the geographical, climatic, political, social and technological context of Turkey.

Turkish Green Building Association has been granted Full Council Status with the World Green Building Council (WGBC) on June 2012 and continues to develop its substructure through an increasing participation both with other Green Building Councils (GBC's) in the world and with the local construction sector.

#### Areas of Activity

## Smart and Sustainable Cities and Energy Efficient Buildings

- EEB-05-2017 Development of near zero energy building renovation
- EEB-08-2017 New business models for energy-efficient buildings through adaptable refurbishment solutions
- SCC-02-2016-2017 Demonstrating innovative nature-based solutions in cities

## **Turkish Petroleum Refineries Corporation**

Organisation Name	
Country	Turkey
City	Kocaeli
Street	Turkish Petroleum Refineries Guney Mah. Petrol Cad
Website	http://www.tupras.com.tr/
Phone	
Organisation Type	Company
Person	
Name	Funda Cetin

## Emailfunda.cetin@tupras.com.trJob PositionR&D Superintendent

#### **Organisation Details**

Tupras is Turkey's largest industrial enterprise, with 28.1 mn ton crude processing capacity. Tupras has four refineries operating in four different cities with 4500 employees. Tupras is the 7th biggest refining company in Europe. Tupras controls all of Turkey's refining capacity. In terms of geographical location, its refineries are deployed adjacent to consumption areas and is best suited to meet the needs of the country; doubling the competitive strength of Tupras.Tupras has a certified R&D center which is given in line with Turkish Law "Supporting Research and Development Activities. R&D center is evaluated and monitored by Ministry of Industry. R&D center is evaluated and monitored by R&D center and the transformation of the R&D work at the refineries into R&D projects and implementation of these projects inside and outside of the corporation is ensured.

Tupras has already involved in International Projects;

5 H2020 Projects (2 FTI, 1 EE, 1 SPIRE, 1 WATER)

1 FP7 Projects

2 EUREKA Projects

Tupras makes long-term strategic collaborations with national and international universities and research centers and continues to strengthen its R&D activities in international levels through various projects, platforms and funds.

#### Areas of Activity

#### SPIRE-Circular Economy Session

- SPIRE-07-2017 Integrated approach to process optimisation for raw material resources efficiency, excluding recovery technologies of waste streams
- SPIRE-08-2017 Carbon dioxide utilisation to produce added value chemicals
- SPIRE-09-2017 Pilot lines based on more flexible and down-scaled high performance processing
- SPIRE-10-2017 New electrochemical solutions for industrial processing, which contribute to a reduction of carbon dioxide emissions
- SPIRE-11-2017 Support for the enhancement of the impact of SPIRE PPP projects
- SPIRE-12-2017 Assessment of standardisation needs and ways to overcome regulatory bottlenecks in the process industry

#### **Factories of the Future**

• FOF-09-2017 Novel design and predictive maintenance technologies for increased operating life of production systems

- CIRC-01-2017 Systemic, eco-innovative approaches for the circular economy large-scale demonstration projects
- CIRC-02-2017 Water in the context of the circular economy
- EE-17-2016-2017 Valorisation of waste heat in industrial systems
- SPIRE-13-2017 Potential of Industrial Symbiosis in Europe

## Turkish Water Institute (SUEN)

Turkey Istanbul

Libadiye Cd.

#### **Organisation Name**

Country
City
Street
Website
Phone
Organisation Type

Authority/Government

http://suen.gov.tr/

# TURKISH WATER INSTITUTE

Person	
Name	Meltem Delibaş
Email	meltem.delibas@suen.gov.tr
Job Position	Project Assisstant



#### **Organisation Details**

SUEN is a national think tank that aims to develop short and long-term strategies and national policies for good governance of water. The idea of establishing a national water think-tank was first put forward after the 5th World Water Forum held in 2009 in Istanbul. The decision of founding the Turkish Water Institute stemmed from the need for a consulting body to assist decision-makers in developing the water strategies of Turkey and enable the wider and more efficient participation of Turkey in the process of shaping international water policies.

Established in 2011 under the authority of the Ministry of Forestry and Water Affairs (MoFWA) of Turkey, SUEN works in close collaboration with national and international organisations on sustainable water management, development of water policies, technical advising and capacity building for the solution of local and global water problems. SUEN's role includes conducting and supporting scientific research to develop national and international water policies, or-ganising national and international forums, conferences, meetings and training programmes and contributing to water-related events both at home and abroad. SUEN follows recent developments on water, performs knowledge production and statistical studies, carries out activities to enable cooperation among national and international water or-ganisations and collaborates in projects with institutions and professionals distinguished in the water sphere.

#### Areas of Activity

#### SPIRE-Circular Economy Session

- CIRC-01-2017 Systemic, eco-innovative approaches for the circular economy large-scale demonstration projects
- CIRC-02-2017 Water in the context of the circular economy

## Smart and Sustainable Cities and Energy Efficient Buildings

 SCC-02-2016-2017 Demonstrating innovative nature-based solutions in cities

#### **Cooperation Profiles**

#### Partner: Circular economy

Interested in joining a consortia as a partner under the calls of CIRC-02-2016-2017: Water in the context of the circular economy or CIRC-01-2016-2017: Systemic, eco-innovative approach for the circular economy: large scale demonstration projects.

## TÜBİTAK

Organisation Name	
Country	Turkey
City	ANKARA
Street	BİLKENT
Website	
Phone	
Organisation Type	Authority/Governm

nent

Person	
Name	Hasan Burak Tiftik
Email	burak.tiftik@tubitak.gov.tr
Job Position	NMP NCP

#### **Organisation Details**

TÜBİTAK

#### **Areas of Activity**

#### **SPIRE-Circular Economy Session**

- SPIRE-07-2017 Integrated approach to process optimisation for raw material resources efficiency, excluding recovery technologies of waste streams
- SPIRE-08-2017 Carbon dioxide utilisation to produce added value chemicals
- SPIRE-09-2017 Pilot lines based on more flexible and down-scaled high performance processing
- SPIRE-10-2017 New electrochemical solutions for industrial processing, which contribute to a reduction of carbon dioxide emissions
- SPIRE-11-2017 Support for the enhancement of the impact of SPIRE PPP projects
- SPIRE-12-2017 Assessment of standardisation needs and ways to overcome regulatory bottlenecks in the process industry
- SPIRE-13-2017 Potential of Industrial Symbiosis in Europe

#### **Factories of the Future**

- FOF-06-2017 New product functionalities through advanced surface manufacturing processes for mass production
- FOF-07-2017 Integration of unconventional technologies for multi-material processing into manufacturing systems
- FOF-08-2017 In-line measurement and control for micro-/nano-enabled high-volume manufacturing for enhanced reliability
- FOF-09-2017 Novel design and predictive maintenance technologies for increased operating life of production systems
- FOF-10-2017 New technologies and life cycle management for reconfigurable and reusable cus-

#### Smart and Sustainable Cities and Energy Efficient **Buildings**

- EEB-05-2017 Development of near zero energy building renovation
- EEB-06-2017 Highly efficient hybrid storage solutions for power and heat in residential buildings and district areas, balancing the supply and demand conditions
- EEB-07-2017 Integration of energy harvesting at building and district level
- EEB-08-2017 New business models for energy-efficient buildings through adaptable refurbishment solutions

tomised products

• FOF-12-2017 ICT Innovation for Manufacturing SMEs

#### **Cooperation Profiles**

#### Partner: NMP NCP

ncp

## TÜBİTAK (The Scientific and Technological Research Council of Turkey)

#### **Organisation Name**

Country	Turkey
City	ANKARA
Street	ULAKBIM - YOK Binasi B5 Blok
Website	
Phone	
Organisation Type	Authority/Government

Person	
Name	ILKNUR YILMAZ
Email	ilknur.yilmaz@tubitak.gov.tr
Job Position	ENERGY NATIONAL CON-
	TACT POINT



#### **Organisation Details**

TÜBİTAK is responsible for coordination of the Horizon 2020 Programme in Turkey. As Energy National Contact Points, our main aim is to create partnership between Turkish organizations and their European counterparts. We are in close contact with Turkish entities (universities, research and industrial organizations) interested in participating and coordinating Horizon 2020 projects.

#### **Areas of Activity**

#### **SPIRE-Circular Economy Session**

• EE-17-2016-2017 Valorisation of waste heat in industrial systems Smart and Sustainable Cities and Energy Efficient Buildings

- EE-12-2017 Integration of Demand Response in Energy Management Systems while ensuring interoperability through Public Private Partnership
- SCC-1-2016-2017 Smart Cities and Communities lighthouse projects

## TÜBİTAK MAM

Organisation Name		
Country	Turkey	Large
City	GEBZE	
Street	Dr. Zeki CAR cd. TÜBİTAK MAM ME	
Website	www.mam.tubitak.gov.tr	
Phone		
Organisation Type	R&D Institution	
Devere		
Person		

reison		
Name	CİHAT TAŞALTIN	Large
Email	cihat.taaltin@tubitak.gov.tr	
Job Position	RESEARCHER	

#### **Organisation Details**

TÜBİTAK MAM is one of the leading organizations of the advanced technology world thanks to its ability and capacity of research, research infrastructure and world class administrative and operational process management. With its customer oriented approach, it offers original solutions to public, private and military agencies and institutions. These solutions are materialized through basic researches, applied research and development, technology transfer, innovation, system and facility construction, national standard and norm setting, professional consulting and training activities.

#### Areas of Activity

#### SPIRE-Circular Economy Session

• SPIRE-07-2017 Integrated approach to process optimisation for raw material resources efficiency, excluding recovery technologies of waste streams

#### **Cooperation Profiles**

#### Coordinator: TUBITAK MRC

The institutes of the Center have various projects and cooperations under the programs of NATO, EUREKA, COST etc. in addition to the sixth and seventh framework programs.

## Tübitak Marmara Research Center

#### **Organisation Name**

Country	Turkey
City	Kocaeli
Street	Barış Mahallesi
Website	
Phone	
Organisation Type	R&D Institution

Person	
Name	Emine Kayhan
Email	emine.kayhan@tubitak.gov.tr
Job Position	Senior Researcher

#### **Organisation Details**

TUBITAK Marmara Research Center (MRC) Energy Institute has led the foundation of the first battery research laboratory in Turkey and starting the Research and Development activites in Battery Technology.

TUBITAK MRC Energy Institute Battery Research Technologies Group aims to develop from material to the prototype products for customer needs and to give Research & Development support for raising the national sector competitiveness in international markets. So, Battery Research Group serves to the battery sector in the fields of battery design and development, testing service with its accredited infastructure and colsultant.

Battery Technologies Research Group can consult appropriate cells/battery selecting for the special applications such as electric vehicles and satellite.

#### Areas of Activity

#### **SPIRE-Circular Economy Session**

• SPIRE-10-2017 New electrochemical solutions for industrial processing, which contribute to a reduction of carbon dioxide emissions

#### The European Green Vehicles Initiative

- GV-01-2017 Optimisation of heavy duty vehicles for alternative fuels use
- GV-04-2017 Next generation electric drivetrains for fully electric vehicles, focusing on high efficiency and low cost
- GV-05-2017 Electric vehicle user-centric design for optimised energy efficiency
- GV-06-2017 Physical integration of hybrid and electric vehicle batteries at pack level aiming at increased energy density and efficiency
- GV-07-2017 Multi-level modelling and testing of electric vehicles and their components
- GV-08-2017 Electrified urban commercial vehicles integration with fast charging infrastructure
- GV-10-2017 Demonstration (pilots) for integration of electrified L-category vehicles in the urban transport system

#### **Cooperation Profiles**

## Looking for a colloboration partner/s for rechargeable battery projects: 'The European Green Vehicles Initiative'

TUBITAK MRC Energy Institute Battery Research Technologies Group aims to develop from material to the prototype products for customer needs and to give Research & Development support for raising the national sector competitiveness in international markets. So, Battery Research Group serves to the battery sector in the fields of battery design and development, testing service with its accredited infastructure and colsultant. We as a battery research group are involved in important national projects like national electric vehicle and satellite. So we want to exchange our experience in Horizon 2020 projects with colloboration partner/s.

## university of Dicle

#### **Organisation Name**

Country	Turkey
City	diyarbakır
Street	mimarlık fakültesi
Website www.dicle.edu	
Phone	
Organisation Type	University

Person	
Name	can tuncay akın
Email	cantakin@gmail.com
Job Position	Dr.

#### **Organisation Details**

Dicle University founded in1974 is one of the oldest universities in the south eastern region of Turkey.It is located on the banks of beautiful Tigris River, which is called Dicle in Turkish.Apart from its main campus in Diyarbak?r, the university has campuses for itsvocational schools in counties . Dicle University with its more than 30,000 students and nearly 4,000 academic and administrative staff is one of the most prominent governmental institutions in the south eastern region of Turkey dedicated to excellence in teaching, learning, and research, and to developingleaders in many disciplines. Dicle University faculty is engaged with teachingand research to push the boundaries of human knowledge. It offers an excellent student experience and a social environment for students who are excited toinvestigate the biggest issues of the 21st century. It is the mission of DicleUniversity to achieve world-class excellence in every area of teaching and research.

#### Areas of Activity

## Smart and Sustainable Cities and Energy Efficient Buildings

- EEB-05-2017 Development of near zero energy building renovation
- SCC-1-2016-2017 Smart Cities and Communities lighthouse projects
- SC5-21-2017: Cultural heritage as a driver for sustainable growth (Heritage-led rural regeneration)

## Valeo Otomotiv Sanayi ve Ticaret A.Ş.

#### **Organisation Name**

Country	Turkey	
City	Bursa	
Street	Yeni Yalova Yolu Cd.	
Website	www.valeo.com.tr	
Phone		
Organisation Type	Company	

Person		
Name	Mustafa Oktay Aksoy	Large
Email	mustafa.aksoy@valeo.com	
Job Position	R&D Center Coordinator	

#### **Organisation Details**

#### ABOUT US

In Turkey, Valeo's three Business Groups out of four are currently operating. Valeo has 4 production plants and 1 R&D Center in Bursa.

- 1. Powertrain Systems
- 2. Transmission Systems; Manual Transmission Clutches and Flywheel
- 3. Transmission Systems; Hydraulic Transmission clutches
- 4. Electrical Systems; Alternators
- 5. Thermal Systems
- 6. Climate Control Systems; HVAC (Heating, Ventilation and Air Conditioning)
- 7. Visibility Systems
- 8. Wiper Systems; Arm & Blade, Motor & Linkage

Moreover, Valeo Service Activity is based in Istanbul and is responsible of distributing all Valeo products to Turkey and Middle East Aftermarket.

#### **R&D CENTER BURSA**

Valeo Bursa received the status of a certified R&D Center by the Turkish Ministry of Science, Industry and Technology in June 2011.

At the Valeo R&D Center in Bursa, the following design and development activities are being carried on:

- Pressure plate and cover assembly (PPCA), clutch disc, flywheel and hydraulic transmissions for tractor, heavy duty and passenger cars
- Transmission systems for hybrid vehicles
- Original design modifications to meet customer requests and requirements

#### Vision:

To realize innovative OEM projects with high added value and be an innovation leader in its area.

#### Missions:

- Sustainable development of the employees in line with Valeo vision and targets
- Increase intellectual capital.
- Apply technology and innovation management systems.

- Achieve sustainability of information.
- Improve university-industry collaboration.

#### **Production methods:**

- Machining
- Cold forming
- Warm forming
- Hot forming
- Heat treatment
- Automated assembly
- Laser welding
- Plastic welding

#### What we are looking for;

- new production technologies
- efficient and more environment friendly production lines
- new ways of recycling production wastes
- opportunity for establishing new R&D project collaborations

We have involved many national projects collabrating with universities

We are looking forward to involve an EU project.

#### Areas of Activity

#### Factories of the Future

- FOF-06-2017 New product functionalities through advanced surface manufacturing processes for mass production
- FOF-07-2017 Integration of unconventional technologies for multi-material processing into manufacturing systems
- FOF-08-2017 In-line measurement and control for micro-/nano-enabled high-volume manufacturing for enhanced reliability
- FOF-09-2017 Novel design and predictive maintenance technologies for increased operating life of production systems
- FOF-10-2017 New technologies and life cycle management for reconfigurable and reusable customised products

#### **Cooperation Profiles**

#### **Partner:** Valeo can be an end user for different production methods or automation techniques.

Valeo can be an end user for different production methods or automation techniques. MARKET APPLICATION: Automotive (OEM, Aftermarket)

## Valeo Otomotiv Sanayi ve Ticaret A.Ş.

#### **Organisation Name**

Country	Turkey	
City	Bursa	
Street	İstanbul yolu No:614	
Website	www.valeo.com.tr	
Phone		
Organisation Type	Company	

Person		
Name	Burak Hüseyin Sevingül	Large
Email	burak-huseyin.sevingul@va- leo.com	
Job Position	IP Engineer	

#### **Organisation Details**

In Turkey, Valeo's three Business Groups out of four are currently operating. Valeo has 4 production plants and 1 R&D Center in Bursa.

- 1. Powertrain Systems
- 2. Transmission Systems; Manual Transmission Clutches and Flywheel
- 3. Transmission Systems; Hydraulic Transmission clutches
- 4. Electrical Systems; Alternators
- 5. Thermal Systems
- 6. Climate Control Systems; HVAC (Heating, Ventilation and Air Conditioning)
- 7. Visibility Systems
- 8. Wiper Systems; Arm & Blade, Motor & Linkage

Moreover, Valeo Service Activity is based in Istanbul and is responsible of distributing all Valeo products to Turkey and Middle East Aftermarket.

#### **R&D CENTER BURSA**

Valeo Bursa received the status of a certified R&D Center by the Turkish Ministry of Science, Industry and Technology in June 2011.

At the Valeo R&D Center in Bursa, the following design and development activities are being carried on:

- Pressure plate and cover assembly (PPCA), clutch disc, flywheel and hydraulic transmissions for tractor, heavy duty and passenger cars
- Transmission systems for hybrid vehicles
- Original design modifications to meet customer requests and requirements

#### Vision:

To realize innovative OEM projects with high added value and be an innovation leader in its area.

#### Missions:

- Sustainable development of the employees in line with Valeo vision and targets
- Increase intellectual capital.
- Apply technology and innovation management systems.
- Achieve sustainability of information.

• Improve university-industry collaboration.

#### **Production methods:**

- Machining
- Cold forming
- Warm forming
- Hot forming
- Heat treatment
- Automated assembly
- Laser welding
- Plastic welding

#### What we are looking for;

- new production technologies
- efficient and more environment friendly production lines
- new ways of recycling production wastes
- opportunity for establishing new R&D project collaborations

We have involved many national projects collabrating with universities

We are looking forward to involve an EU project.

#### **Areas of Activity**

#### SPIRE-Circular Economy Session

• EE-17-2016-2017 Valorisation of waste heat in industrial systems

#### **Factories of the Future**

- FOF-06-2017 New product functionalities through advanced surface manufacturing processes for mass production
- FOF-09-2017 Novel design and predictive maintenance technologies for increased operating life of production systems

#### **Cooperation Profiles**

#### Partner: To Become End User

Valeo can be an end user for waste heat recovery systems ( for instance; we have heat treatment furnaces) different production methods. MARKET APPLICATION: Automotive (OEM, Aftermarket)

## VOLTURK TEKNOLOJÍ

#### **Organisation Name**

Country	Turkey
City	İZMİR
Street	EGE ÜNİVERSİTESİ KAMPÜSÜ
Website	www.3dothis.com / www.volturk.com
Phone	
Organisation Type	SME



Person	
Name	Kemal ÖZDEMİR
Email	techlinekemal@hotmail.com
Job Position	General Manager



#### **Organisation Details**

F

This project will bring specific standards that suitable for every segment of users and 3D printers. To make it clear, we know that we cannot expect the same quality from all 3D printers. In addition, every 3D printer cannot meet needs of users. Each 3D printer will separate according to its qualifications. This will be the major step to create a quality standard. When a 3D printing centre joins this system every 3D printer that centre has will be checked. After that, qualified 3D printers will be accepted and the remaining ones will be improved for usage. Additionally, when an individual printer owner decides to add his printer to a 3D printing centre the printer will be checked again. If the 3D printer is not suitable for printing centre it will not be accepted. Last of all, when an investor wants to buy a 3D printer in order to add 3D printing centre, the printer will be selected according to missing technology of the printing centre. The quality standards will be specified after this study and once the separation is done price standards will arise automatically.

A website will be bridge to access these developments. All applications for being a 3D printing centre will be controlled from website. Moreover, orders will be directed from website to 3D printing centres. It will also help avoiding competition between 3D printing centres. In addition to this, there will be general information about 3D printing technologies, materials and etc. It will help customers to learn required information about printing processes.

#### **Areas of Activity**

#### **Factories of the Future**

- FOF-07-2017 Integration of unconventional technologies for multi-material processing into manufacturing systems
- FOF-12-2017 ICT Innovation for Manufacturing SMEs

#### **Cooperation Profiles**

#### Coordinator: 3D Print Centers Platform

Nowadays, many products that we use in our daily life can be manufactured with 3D printers. Also, 3D printers are using for modelling, prototyping and, etc. by designers, architectures and professionals like that. People can satisfy their 3D printing needs by buying a 3D printer or they can order from online services. However 3D printers are not affordable for everyone. Moreover, online 3D printing services may not meet needs of user when the final form of product arrived and they can be expensive as well. Furthermore, there are several kinds of 3D printing technologies today. People may need some of them but they cannot buy all these technologies. In addition to this, even people buy 3D printer they do not use it all the time. 3D printing centres can be solution for this at this point. 3D printing centres are

establishments that include average 20 3D printers in all kinds of technologies. There are nearly thirty thousand 3D printing centres around the world and EU has five thousand of them. However, numerous 3D printing centres do not mean that they have all the same qualifications. There is no quality and price standard among these 3D printing centres. It creates confusion on customer head because they cannot understand the differences. They waste money and time more than required. The main purpose of this project is gathering all 3D printing centres together in order to create a quality and price standard. First of all, it will help to stop wrong and unnecessary 3D printer investments. When 3D printing centres gathered together they will not try to have all kinds of 3D printing technologies because they have already gotten from other centres and any 3D printing centre can take advantage from it. In addition to this, 3D printing centres will satisfy their material needs by wholesale and it will decrease price automatically. Customers will shop with more affordable prices. Secondly, all 3D printing centres are not work with full capacity today. After this system they will use their printers more efficient. Additionally, individual 3D printer owners are not using their printers often. These owners can add their printers to a 3D printing centre and raise money from it. They will also keep on print their needs and they do not have to buy any material because it is already bought from 3D printing centre. As a result of this, customers will buy any print without confusion because there will be one choice which is the best one. Another purpose of this project is helping people to understand 3D printing processes well. When users want to print an object they should know that not all products have the same qualifications. In other words, every 3D print has different parameters like occupancy rate, material or layer thickness and etc. according to how it will use. When users get enough information about 3D printing they will choose proper parameters for their print. It will prevent wasting time and equipment. Last of all, this project intends to increase 3D printing investments. Investors can provide required technologies for current 3D printing centres. All 3D printing centres can have any type of 3D printing technology in a short time by the help of it. It will also help to use investments correctly.

## VİKO by Panasonic

Organisation Name	
Country	Turkey
City	Istanbul
Street	Abdurrahmangazi Mah. Ebubekir Cd. No:44 San- caktepe
Website	
Phone	
Organisation Type	Company
Person	
Name	ESİN AKDENİZ
Email	eakdeniz@viko.com.tr
Job Position	R&D Center Incentives Re-
	sponsible

#### **Organisation Details**

VİKO ELEKTRİK ve ELEKTRONİK END. SAN. ve TİC. A.Ş. (Member of the Panasonic Group), İstanbul, TURKEY was founded in 1980 and is a supplier of lighting switches, power sockets and many other electrical products like electric meters and circuit breakers. The annual production covers 100 million electronic products for the household sector.

With the start of the year 2014, VIKO and Panasonic built up a strategic partnership and VIKO gained a place among Panasonic group companies. Panasonic, which was established in the year 1918, and which has the biggest market share in the Asia continent, took a step into the strategic partnership process with VIKO on the basis of the vision to be at the top in the low voltage sector around the world in its 100th year (2018). Panasonic, which currently ranks the second in the market, targets to fulfill its vision to expand to Europe, CIS countries and African markets and to be the number one around world with the high-end markets and the strategic position of VIKO by way of this partnership.

#### **Areas of Activity**

#### SPIRE-Circular Economy Session

• SPIRE-07-2017 Integrated approach to process optimisation for raw material resources efficiency, excluding recovery technologies of waste streams

#### Factories of the Future

 FOF-06-2017 New product functionalities through advanced surface manufacturing processes for mass production

#### Smart and Sustainable Cities and Energy Efficient Buildings

• EEB-05-2017 Development of near zero energy building renovation

## VİKO by Panasonic

Organisation Name	
Country	Turkey
City	Istanbul
Street	Abdurrahmangazi Mah. Ebubekir Cd. No:44 San- caktepe
Website	
Phone	
Organisation Type	Company
Person	
Name	SULTAN SÜZER
Email	silbay@viko.com.tr
Job Position	R&D Center Project Man- agement Manager

#### **Organisation Details**

VİKO ELEKTRİK ve ELEKTRONİK END. SAN. ve TİC. A.Ş. (Member of the Panasonic Group), İstanbul, TURKEY was founded in 1980 and is a supplier of lighting switches, power sockets and many other electrical products like electric meters and circuit breakers. The annual production covers 100 million electronic products for the household sector.

With the start of the year 2014, VIKO and Panasonic built up a strategic partnership and VIKO gained a place among Panasonic group companies. Panasonic, which was established in the year 1918, and which has the biggest market share in the Asia continent, took a step into the strategic partnership process with VIKO on the basis of the vision to be at the top in the low voltage sector around the world in its 100th year (2018). Panasonic, which currently ranks the second in the market, targets to fulfill its vision to expand to Europe, CIS countries and African markets and to be the number one around world with the high-end markets and the strategic position of VIKO by way of this partnership.

#### Areas of Activity

#### SPIRE-Circular Economy Session

• SPIRE-07-2017 Integrated approach to process optimisation for raw material resources efficiency, excluding recovery technologies of waste streams

#### Factories of the Future

 FOF-06-2017 New product functionalities through advanced surface manufacturing processes for mass production

#### Smart and Sustainable Cities and Energy Efficient Buildings

• EEB-05-2017 Development of near zero energy building renovation

## WRI Turkey Sustainable Cities

#### **Organisation Name**

Country	Turkey
City	Istanbul
Street	Omer Avni Mah. Hacı İzzet Paşa Sok.
Website	www.wrisehirler.org
Phone	
Organisation Type	Association/Agency

Person	
Name	Arzu Tekir
Email	arzu.tekir@wri.org
Job Position	Country Director



#### **Organisation Details**

WRI Turkey Sustainable Cities produces sustainable solutions to urban transportation and development problems.

#### ABOUT

WRI Turkey Sustainable Cities started its projects on transportation in Turkey as EMBARQ in 2005. With an institutional re-organization in 2012, EMBARQ renewed its formation and continued its projects in Turkey under EMBARQ Turkey Sustainable Transportation Association. To introduce integrated solutions to urban problems, WRI united its programs dedicated to cities under WRI Ross Center for Sustainable Cities in 2015. The EMBARQ Centers in Brazil, China, India, Mexico and Turkey adapted to the organizational change and became country offices of WRI Ross Center for Sustainable Cities producing integrated urban solutions in mobility, urban development, energy efficiency and climate change areas.

WRI Turkey Sustainable Cities is a non-governmental civil society organization that focuses on practical applications of sustainable urban transport and development, based on global research and on-the-ground experience. Cities designed with these principles in mind can provide safer, healthier, and more fulfilling lives for all their residents. In turn, these cities can reap the social, economic, and environmental benefits of sustainable urban development, transport and public spaces.

WRI Turkey Sustainable Cities is a member of the WRI Ross Center for Sustainable Cities network, which is a signature initiative of World Resources Institute (WRI) that works to make urban sustainability a reality. Global research and on-the-ground experience in Brazil, China, India, Mexico, Turkey and the United States combine to spur action that improves life for millions of people. WRI Turkey Sustainable Cities helps to build more holistic infrastructure for cities by emphasizing sustainable and equitable integrated transport, land- use planning, and urban design. This approach allows us to influence on-the-ground planning, related policies, financing, and implementation. Our innovative research and practice bridges processes and policies through transit-led development to achieve sustainable communities that are livable, compact and safe for all.

#### **Areas of Activity**

#### Smart and Sustainable Cities and Energy Efficient Buildings

- EEB-05-2017 Development of near zero energy building renovation
- EEB-08-2017 New business models for energy-efficient buildings through adaptable refurbishment solutions
- SCC-1-2016-2017 Smart Cities and Communities lighthouse projects
- SCC-02-2016-2017 Demonstrating innovative na-

ture-based solutions in cities

• SC5-08-2017 Large-scale demonstrators on nature-based solutions for hydro-meteorological risk reduction

#### **Cooperation Profiles**

#### Partner: Smart & sustainable cities; green growth, energy efficiency

Topic in interest (Theme, Specific Call/s) \* Smart Cities \* Intelligent Transportation Systems \* Green Growth \* Urban Mobility; Walking & Biking, Road Safety, Accessibility, Behaviour Change, \* Energy Efficiency \* Building Efficiency Your Possible Role (partner or coordinator) \* Partner Your organisation's competences on the specific topic mentioned. \* technical analysis \* technical assistance to cities \* research \* on the ground projects \* policy development \* capacity building activities \* scaling the impact Your expertise from previous R&D grands (FP7, H2020) \* FP7 - Solutions Project \* Horizon 2020 - Empower Project

## Yalın Mekatronik

Organisation Name	
Country	Turkey
City	Istanbul
Street	Eskoop San. Sit
Website	
Phone	
Organisation Type	SME

Person		
Name	Ömer hakan yalın	Large
Email	hakan.yalin@gmail.com	
Job Position	Founder/Owner	

#### **Organisation Details**

We are an R&D company which has been founded by the help of government support in Istanbul Technical University Technopark in 2010, mainly focused on robotic control and mechatronics. Our team consists of Mechanical (1), Electronical (2), and Software engineers (1), who develop projects with great motivation. During our presence in Technopark we have achieved the incubation process of our company and now we accomplished our moving process and targeted on more industrial projects, by the help of empowering our abilities after we have bought some high technology machines.

Since our foundation we have managed to develop some several R&D projects. One and the biggest of them is related with recycling. According to the statics belonging to the governmental authoroties, our country produces high amount of packing waste. In Turkey, according to the regulations, the packing waste has no value. With this reason, consumers are not paid back for the packages, so they do not join the chain of recycling.

There are such systems in worldwide which can be used as reverse vending systems. But as their prices are high, and not available for customisation, we decided to design and produce a reverse vending machine that will be more suitable for our market.

Now, our system has finalised its developement and ready for the market.

#### **Areas of Activity**

#### SPIRE-Circular Economy Session

- SPIRE-07-2017 Integrated approach to process optimisation for raw material resources efficiency, excluding recovery technologies of waste streams
- SPIRE-13-2017 Potential of Industrial Symbiosis in Europe

#### Smart and Sustainable Cities and Energy Efficient Buildings

• EE-12-2017 Integration of Demand Response in Energy Management Systems while ensuring interoperability through Public Private Partnership

#### **Cooperation Profiles**

#### Partner: seeking for partners to collaborate smart city projects.

As a mechatronics company, we are looking for governmental authorities and private sector candidates around the world to work as a partner, to share our knowledge and manifacturing abilities, in the field of smart cities, alternative renewable energy systems and all the components or sub-projects related to these. We can be a designing, engineering and manifacturing partner, seperatly or all together. We are a developing company, which can easily implement such complicated projects with its team containing big know-how. We also have high technology machines to manifacture our prototypes, time saving and cost reducing way. No expertise from previous R&D grands (FP7, H2020) but we developed some several R&D projects with KOSGEB, Tübitak and Ministry of Industry.

## **Coordinator:** Seeking partners both in private sector and governmental authorities to implement reverse vending machine system.

Our company has developed a reverse vending system, based on a payback model in collecting waste packages, so

that the amount of recycling is going to increase in public. We are looking for partners, to implement this systems in cities, with different varieties of payback models. We shall be the manifacturer of the machine according to the desired payback model. We can make all the customisations, and also make the system working with all its maintanences. We are the only designer and manifacturer that has been working with so different varieties of sensors. Our machine can be used in different locations easily, will not be effected by temperature changes and user habits. No expertise from previous R&D grands (FP7, H2020) but we developed some several R&D projects with KOSGEB, Tübitak and Ministry of Industry.

## Yaşar University

Organisation Name	
Country	Turkey
City	İzmir
Street	Üniversite caddesi
Website	
Phone	
Organisation Type	University

Person	
Name	ilker kahraman
Email	ilker.kahraman@yasar.edu.tr
Job Position	Vice -Dean; Lecturer



#### **Organisation Details**

Yaşar University, established in 2001, is a foundation university by one of Turkey's leading industrial groups, Yaşar Holding; and located in İzmir on the western coast of Turkey. With its global approach to research and education by international partnerships, projects, strong links with business sector and global universities, and in line with its purpose of being a productive international research hub, Yaşar University joins local and international research-development projects and supports academic research activities of its staff and students by its 7 faculties, 2 graduate schools and 1 vocational school. In addition, Yaşar University has multiple teaching and research laboratories such as electric power and motors, thermodynamics and renewable energy, automatic control; network analysis, engineering optimization, which strengthen the research capabilities of the University. Yaşar University has been awarded as to be "Erasmus Success Story in 2010 and also awarded by the Diploma Supplement Label and European Language Label in 2012 by the European Commission. Yaşar University has participated in 30 different EU projects, mainly under Lifelong Learning Programme, FP7 Programme and Youth Programme, as coordinator and partner; developed around 177 partnership agreements with 23 EU countries under Erasmus programme and has cooperation with several European countries through its international projects and activities. In this context, Yaşar University has been actively involved in international research projects under the framework of EU funding and programmes. In 2012, EU Erasmus Intensive Programme project "The Economics of Sustainable Energy with Clean Energy Point of View" has been successfully completed by the participation of 9 European universities. In 2012, Yaşar University became a partner of FP7 IRSES project consortium, namely EU-GLOBAL.

#### Areas of Activity

#### Factories of the Future

 FOF-10-2017 New technologies and life cycle management for reconfigurable and reusable customised products

## Smart and Sustainable Cities and Energy Efficient Buildings

- EEB-05-2017 Development of near zero energy building renovation
- EEB-07-2017 Integration of energy harvesting at building and district level
- EEB-08-2017 New business models for energy-efficient buildings through adaptable refurbishment solutions
- SCC-02-2016-2017 Demonstrating innovative nature-based solutions in cities
- SC5-21-2017: Cultural heritage as a driver for sustainable growth (Heritage-led rural regeneration)

## Yildiz Technology Transfer Office

Organisation Name	
Country	Turkey
City	Istanbul
Street	YTÜ Davutpaşa Yerleşkesi Teknoloji Geliştirme Böl- gesi
Website	www.yildiztto.com
Phone	
Organisation Type	University
Person	
Name	Filiz Bastuzel
Email	filizbastuzel@gmail.com

Project and Business Dev.

Expert

#### **Organisation Details**

**Job Position** 

Yıldız Teknoloji Transfer Ofisi (Yıldız TTO), Proje Destek Ofisi'nden devraldığı entelektüel mirasla birlikte YTÜ Teknopark A.Ş. altında Ocak 2013 tarihinde kurulmuş ve TÜBİTAK tarafından üniversiteler bünyesindeki Teknoloji Transfer Ofisleri'nin güçlendirilmesi ve yenilerinin kurulmasının teşvik edilmesi amacıyla 2012 yılında başlatılan 1513-Teknoloji Transfer Ofisleri (TTO) Destekleme Programı kapsamında destekelenen ilk 10 TTO projesi arasında yer almıştır.

TTO, üniversitedeki akademisyenler ile sanayici arasında karşılıklı güvene dayalı, sürdürülebilir işbirlikleri sağlamayı temel amaç olarak benimsemektedir. Üniversitemizdeki akademik bilginin, bilimin, know-how'ın sanayinin ihtiyaçları doğrultusunda kullanılması, ülke ekonomisine olumlu katkılar sağlaması açısından gerekli platformları oluşturmak konusunda bir arayüz görevini üstlenmektedir.

Bilimsel araştırmalar neticesinde ortaya çıkan buluş ve yenilikçi ürünlerin ticarileşmesi; bunların toplumun, ülke ekonomisinin ve üniversitenin faydasına dönüştürülmesini kapsayan destek hizmetlerinin bütünüdür. Akademisyen, sanayici, girişimci ve öğrencilere hizmet veren Yıldız TTO bünyesinde Kurumsal İletişim, Proje Destek, Üniversite-Sanayi İşbirliği, Patent ve Girişimcilik birimleri bulunmaktadır.

Kısacası Yıldız Teknoloji Transfer Ofisi, akademi-sanayi koordinasyonunu verimli kılmayı şiar edinmiş, araştırma çalışmalarını ticari ve danışmalık kapsamında destekleyen; bilgilendirme, eğitim, proje destekleri, işbirliği, fikri sınai mülkiyet hakları, girişimcilik ve şirketleşme üzerine faaliyetler icra eden dinamik bir oluşumdur.

#### Areas of Activity

#### SPIRE-Circular Economy Session

• SPIRE-10-2017 New electrochemical solutions for industrial processing, which contribute to a reduction of carbon dioxide emissions

#### **Factories of the Future**

- FOF-09-2017 Novel design and predictive maintenance technologies for increased operating life of production systems
- FOF-10-2017 New technologies and life cycle management for reconfigurable and reusable customised products
- FOF-12-2017 ICT Innovation for Manufacturing SMEs

## Smart and Sustainable Cities and Energy Efficient Buildings

- EEB-07-2017 Integration of energy harvesting at building and district level
- EE-12-2017 Integration of Demand Response in Energy Management Systems while ensuring interoperability through Public Private Partnership
- SCC-1-2016-2017 Smart Cities and Communities lighthouse projects
- SC5-21-2017: Cultural heritage as a driver for sustainable growth (Heritage-led rural regeneration)

#### The European Green Vehicles Initiative

- GV-07-2017 Multi-level modelling and testing of electric vehicles and their components
- GV-13-2017 Production of next generation battery

cells in Europe for transport applications

### YUNUSEMRE MUNICIPALITY

#### **Organisation Name**

Country	Turkey
City	Manisa
Street	Akmescit M. İzmir C. N:311
Website	
Phone	
Organisation Type	Authority/Government



# Person Name Selma Oruç Email selma.oruc@yunusemre.bel.tr Job Position EU Project and Foreign Relations Coordinator

#### **Organisation Details**

Population: 211673 (TUIK 2015)

Yunusemre is the one of the two central districts (biggest one) of the province of Manisa which is an industrial, cultural and commercial city.

Yunusemre, with Act No:6360 approved by the Turkish National Assembly on November 12, 2012 has been formed as a new municipality by the division of Manisa centre into two new municipalities; "Yunusemre and Şehzadeler". Manisa has become a metropolitan municipality with this formation.

Yunusemre is only 20 minutes away from Izmir, which gives Yunusemre several advantages on its closeness to the country's 3rd most developed city. We have one of the largest and most developed Organized Industrial Zones in the country. Prominent brands and companies such as Vestel, Indesit, Bosch, Schneider, ECA, Eczazibasi, and etc have preferred this city as their production sites. The Organized Industrial Zone of Manisa continues to strive to the highest level to fulfill its part within the planned Development Model Framework to integrate the economy of the country to the worlds. Manisa Organized Industrial Zone in one of the most preferred zones because of its large sized industrial plants in business. Manisa has been chosen as the winner in the competition of "European Cities/Regions of The Future 2004" coordinated by FDI Magazine, the foreign investment publications of Financial Times Madia Group of England among 200 cities, in the category of the most appropriate investment cities. Yunusemre happens to be the area where these institutions and companies aggregate. The infrastructural and support services provided to industrialists and the importance it gives to the environment are the factors considered among Organized Industrial Zones when ranking in preferences.

More then 35000 people are employed in 203 operating business on an area of 960 hectares with the addition of continuing allocation of available enlargement areas. 16 firms in the region rank in the first 500 large industrial enterprises in Turkey and among them operates 23 firms renowned worldwide for its direct foreign investment identity.

Firms in the region bring employment opportunities to our district; produce products of advanced technology and the inflow of foreign currency all provide major contribution to the economy.

Yunt Dagi Mountain Region, with its authentic settlement texture, has preserved its production and lifestyle for centuries. In historical and cultural sense, it is possible to find characteristics and originality of our own culture in this region. The ancient city "Aigai" is located in here. Aigai, which is 49km away from the center, is one of the eleven Alios cities mentioned by Heredot. Findings form excavation program have led to a consideration that Aigai is dating back to the period of Pergamom Kingdom and was a very important commercial centre then.

The Yunt Dagi region has also ideal fields for organic production. rural tourism and natural life. With the leadership of women in the villages, a Carpet Business Cooperation is formed and they are selling locally produced carpets abroad. With Turkmen Falls, Aigai Ancient City, original madder carpets and organic production, the friendly inhabitants of Yuntdagi Mountain are becoming attraction center for rural life.

Celal Bayar University (CBU) is also located in Manisa, The main campus facilities and hospital is in Yunusemre districts. Celal Bayar University has also a positive effect in the development of Yunusemre district with its campuses in Uncubozköy, Muradiye. The university offers over 60 degree programmes at undergraduate and postgraduate level.

#### **Areas of Activity**

#### Smart and Sustainable Cities and Energy Efficient Buildings

- EEB-05-2017 Development of near zero energy building renovation
- EEB-06-2017 Highly efficient hybrid storage solutions for power and heat in residential buildings and district areas, balancing the supply and demand conditions
- EEB-07-2017 Integration of energy harvesting at building and district level
- EEB-08-2017 New business models for energy-efficient buildings through adaptable refurbishment solutions
- EE-12-2017 Integration of Demand Response in Energy Management Systems while ensuring interoperability through Public Private Partnership
- SCC-1-2016-2017 Smart Cities and Communities lighthouse projects
- SCC-02-2016-2017 Demonstrating innovative nature-based solutions in cities
- SC5-08-2017 Large-scale demonstrators on naturebased solutions for hydro-meteorological risk reduction
- SC5-21-2017: Cultural heritage as a driver for sustainable growth (Heritage-led rural regeneration)

#### **Cooperation Profiles**

# **Partner:** Constructing A New City From Scratch (Open to any cooperation or partnership projects for Innovative Smart City Applications, Secure, clean and efficient energy for Sustainable Future, Smart, green and integrated transport etc.)

Constructing a City From Scratch The tasks of municipalities have been identified with Municipality Law No. 1580. In this context, our municipality is obliged to fulfill the needs of urban cleaning, public improvements, urbanization, economic tasks, transportation, rural neighborhood improvements, social services and education related tasks. In order to fulfill these services, a total of 22 directorates and almost 900 employees successfully operating in Yunusemre Municipality. Yunusemre Municipality is signing a big project and constructing a city from scratch which is only 13km away from the city center. The first stage of city consists of 5500 housing located on 157 hectare. 30 hectare of it will be reserved for public institutions. The area is very close to Manisa Industrial Zone. This project is one of the 3 biggest corporate housing projects in Turkey. We are open to any cooperation or partnership projects like: • New and more effective technologies for recycling urban waste into value added products • Building an application area for pilot projects including latest technology for smart buildings, smart transportation, and smart public institutions • Innovation of new technologies for heating and cooling. • Dissemination of renewable and clean energy usage including monitor-ing portals for production and consumption. • Planning regular hiking and biking trails as an alternative for urban traf-fic congestion and encouraging use of these ways. Our corporate vision is to become a city with an integrated history, culture , economy and social spirit and with its cultural wealth and values , leave a legacy to future generations as a thriving and renewing city where everyone is content. Our corporate mission: is to improve the quality of life, carry out public services with public cooperation as efficiently, effectively as possible and with high performance, adhering to quality principles and ethic values. Further, to become a lead city with an urbanirsering consciousness where all needs of everyone who lives here are provided and to continue improvement of our municipal services. Within our or-ganization, we have established a EU Projects and Foreign Affairs Unit operating under the Directorate of Strategy Development. The Project unit is responsible for creating and implementing projects. Personnel have foreign language skills to coordinate and implement projects in English. Adding to this more than 50 municipal employees have taken `Project Writing and Implementation Courses`.

# Zafer Development Agency

Organisation Name		
Country	Turkey	Large
City	Kütahya	
Street	Cumhuriyet Mahallesi Oncu Sokak No: 42	
Website	http://www.zafer.org.tr/	
Phone		
<b>Organisation Type</b>	R&D Institution	

Person	
Name	Ahmet Sever
Email	ahmet.sever@zafer.org.tr
Job Position	Expert

#### **Organisation Details**

- Zafer Development Agency (hereinafter Agency) is a dynamic Regional Development Agency (RDA) operating in TR33 Region. The region is home to four flourishing provinces that are Afyonkarahisar, Kütahya, Manisa, Uşak. There are three bodies in Agency's organization that are Board of Directors, Development Board and Secretariat General.
- Board of Directors (Decision Making Body): Members of the Board of Directors include following representatives from each of the provinces: Governor, Municipal Mayor, Chairman of Provincial Assembly and Chairman of Chamber of Trade and Industry. Hence, Board of Management reflects local government and private sector representation at the highest possible level.
- Development Board (Consulting Body): This is a special counselling body of the Agency, consist of 100 members from bureaucrats, academics, NGOs and private sector representatives, to represent their provinces. The Board meets at least twice a year in order to overview the activities of the Agency and collectively discuss development issues.
- Secretariat General (Executive Body): Secretariat General of the Agency is located in Kütahya province. It is headed by the Secretary General and operates with expert and support personnel. Experts, who come from various engineering and social science fields, work closely with local beneficiaries and stakeholders.
- With our local network, our contacts at the national level, and our knowledge and expertise on the Region, we
  are guiding and assisting valuable projects that will contribute to the realization of many potentials of TR33
  Region. As part of our mission, besides providing beneficiaries with the information and guidance, we actively
  help beneficiaries pursue the bureaucratic process in the simplest way possible.
- The Agency offers a full set of professional, hands-on project services that are always tailored according to region's specific needs.
- Research & Planning: Agency creates Regional Development Plans which outline development priorities for the Region. The Agency also supports planning efforts and capabilities of local -institutions. Agency continually surveys the Region; its economy, sectors, trends, dynamics, social issues in order to identify strengths, potentials as well as threats and shortfalls. This way the Agency tries to increase local awareness and guide policy makers for achieving a healthier development perspective with its social and economic aspects.
- Agency presents beneficiaries with up-to date data on projects, suitable areas of investment, availability of labor, energy, transportation and related costs etc. This way, beneficiaries will achieve a great starting point for your projects and beyond. In short; the Agency is your guide and natural partner in TR33 Region.
- Project Support Activities and Contribution to the Project: Zafer Development Agency provides financial and technical supports for NGOs, private sector and other public establishments for the competitiveness of Region in accordance with the regional plan for TR33 Region and other national plans. In this context, Agency financially supported 353 projects between 2010-2015 in the scope of Agency's call for proposals. Several project implementation activity of Agency has been focused on environment and renewable energy projects. 44 out of 353 projects have been implemented regarding environment and renewable energy. 20 Million TRY has been granted by Agency which contributes to 42 percent of total amount of project budget in environment and renewable energy sector projects. It can be concluded that Agency has a considerable experience in im-

plementation of the projects especially regarding environment and renewable energy sectors. In addition, Agency has experienced staff to implement this kind of projects smoothly. On the other hand, Agency has connections in the region and main mission will be dissemination of outputs of the project and information in TR33 Region.

- Project Development Activities: Agency works to raise awareness in the Region regarding use of national and international funds apart from Agency in the subjects of critical importance for the Region. Agency Monitors and makes applications that are other national/international institutions' call for proposals
- Investment Support and Promotion: One-stop Investment Support and Promotion Offices operating in four provinces provide valuable information and guidance to potential foreign and domestic investors, regarding investment processes and business opportunities. These offices actively help investors in the process of attaining necessary investment permits and licenses and in benefiting from government incentives.
- Access to local networks: As mentioned above, our board of directors include the heads of local governments, municipalities, provincial assemblies and chambers of trade and commerce. We are a base of communication and cooperation linking government officials, representatives of the private sector, universities and NGOs. We offer beneficiaries this great network of ours and help beneficiaries to reach local partners.
- Assistance with identification of a strategic location: We provide the best option for the projects and support with due diligence.
- Aside from the local, Zafer Development Agency operates in close coordination and cooperation with:
  - Ministry of Development
  - Ministry of Economy
  - The Republic of Turkey Prime Ministry Investment Support and Promotion Agency
  - Other Development Agencies in Turkey and abroad

#### **Cooperation Profiles**

#### Partner: Zafer Development Agency

Zafer Development Agency (hereinafter Agency) is a dynamic Regional Development Agency (RDA) operating in TR33 Region. The region is home to four flourishing provinces that are Afyonkarahisar, Kütahya, Manisa, Uşak. There are three bodies in Agency's organization that are Board of Directors, Development Board and Secretariat General. Board of Directors (Decision Making Body): Members of the Board of Directors include following representatives from each of the provinces: Governor, Municipal Mayor, Chairman of Provincial Assembly and Chairman of Chamber of Trade and Industry. Hence, Board of Management reflects local government and private sector representation at the highest possible level. Development Board (Consulting Body): This is a special counselling body of the Agency, consist of 100 members from bureaucrats, academics, NGOs and private sector representatives, to represent their provinces. The Board meets at least twice a year in order to overview the activities of the Agency and collectively discuss development issues. Secretariat General (Executive Body): Secretariat General of the Agency is located in Kütahya province. It is headed by the Secretary General and operates with expert and support personnel. Experts, who come from various engineering and social science fields, work closely with local beneficiaries and stakeholders. With our local network, our contacts at the national level, and our knowledge and expertise on the Region, we are guiding and assisting valuable projects that will contribute to the realization of many potentials of TR33 Region. As part of our mission, besides providing beneficiaries with the information and guidance, we actively help beneficiaries pursue the bureaucratic process in the simplest way possible. The Agency offers a full set of professional, hands-on project services that are always tailored according to region's specific needs. Research & Planning: Agency creates Regional Development Plans which outline development priorities for the Region. The Agency also supports planning efforts and capabilities of local -institutions. Agency continually surveys the Region; its economy, sectors, trends, dynamics, social issues in order to identify strengths, potentials as well as threats and shortfalls. This way the Agency tries to increase local awareness and guide policy makers for achieving a healthier development perspective with its social and economic aspects. Agency presents beneficiaries with up-to date data on projects, suitable areas of investment, availability of labor, energy, transportation and related costs etc. This way, beneficiaries will achieve a great starting point for your projects and beyond. In short; the Agency is your guide and natural partner in TR33 Region. Project Support Activities and Contribution to the Project: Zafer Development Agency provides financial and technical supports for NGOs, private sector and other public establishments for the competitiveness of Region in accordance with the regional plan for TR33 Region and other national plans. In this context, Agency financially supported 353 projects between 2010-2015 in the scope of Agency's call for proposals. Several project implementation activity of Agency has been focused on environment and renewable energy projects. 44 out of 353 projects have been implemented regarding environment and renewable energy. 20 Million TRY has been granted by Agency which contributes to 42 percent of total amount of project budget in environment and renewable energy sector projects. It can be concluded that Agency has a considerable experience in implementation of the projects especially regarding environment and renewable energy

sectors. In addition, Agency has experienced staff to implement this kind of projects smoothly. On the other hand, Agency has connections in the region and main mission will be dissemination of outputs of the project and information in TR33 Region. Project Development Activities: Agency works to raise awareness in the Region regarding use of national and international funds apart from Agency in the subjects of critical importance for the Region. Agency Monitors and makes applications that are other national/international institutions' call for proposals Investment Support and Promotion: One-stop Investment Support and Promotion Offices operating in four provinces provide valuable information and guidance to potential foreign and domestic investors, regarding investment processes and business opportunities. These offices actively help investors in the process of attaining necessary investment permits and licenses and in benefiting from government incentives. Access to local networks: As mentioned above, our board of directors include the heads of local governments, municipalities, provincial assemblies and chambers of trade and commerce. We are a base of communication and cooperation linking government officials, representatives of the private sector, universities and NGOs. We offer beneficiaries this great network of ours and help beneficiaries to reach local partners. Assistance with identification of a strategic location: We provide the best option for the projects and support with due diligence. Aside from the local, Zafer Development Agency operates in close coordination and cooperation with: Ministry of Development Ministry of Economy The Republic of Turkey Prime Ministry Investment Support and Promotion Agency Other Development Agencies in Turkey and abroad We are taking part in international projects with our local stakeholders or motivate other public institutions, NGOs and SMEs to take part in relevant projects. Our first priority is energy projects. Our region has its potential with relevant partners for any topics and projects. As a regional development agency one of our mission is to increase our participation in international projects with regional stakeholders. We are a member of Smart Specialisation Platform. For more information please check our website: http://www.zafer.org.tr/

#### Partner: Biogas Production From Organic Waste

In the border of Afyonkarahisar Province, there are four different types of collectable wastes are available and these are animal waste, vegetable waste, sludge and municipal solid waste. All wastes in Afyonkarahisar is collected by "Afyonkarahisar Union of Environmental Services". As of now the Union collects around 385 tons of waste per day from all over the city (also including the districts) and brings the wastes to the disposal plant located outside of the city. In the pretreatment plant the waste separated into 4 parts as domestic waste (%60), RDF-refuse derived fuel (%25), package waste (%10) and water (%5). After pretreatment, all the domestic waste is transferred to the land ful-fill area and kept there in order to decompose. As a natural consequence of decompose, biogas occurs and this gas used in another plant for electrical energy production. Instead of using a land fulfill area for decomposing, we want to develop modern techniques and processes to create electricity from wastes. In addition to this, we could produce some fertilizer from wastes which will come from the biogas energy production units. Agricultural sector is one of the most important sectors in Turkey and Afyonkarahisar. In Turkey 5.814.000 tons of fertilizer was used in 2013, while the total production was 3.577.000 tons. Therefore a potential fertilizer production may decrease the fertilizer import and contribute the economy. We are looking for partners who are experienced in H2020 projects and if possible a partner that can be the coordinator of the Project. Universities, Research Centers, SMEs (carry on a business on machine technology for biogas), Public Institutions

# Özyeğin University

Turk	key
------	-----

OHOLD.	nicotion	
Urua	nisation	Name

Country	Turkey
City	Istanbul
Street	Orman sokak
Website	http://www.ozyegin.edu.tr
Phone	
Organisation Type	University

Person	
Name	Meltem Bayraktar
Email	bayraktarmeltem@yahoo.com
Job Position	Senior Researcher

#### **Organisation Details**

The Center for Energy, Environment and Economy (CEEE) at Ozyegin University was established in 2009 as a center with a primary focus on energy and environment to develop and apply both fundamental knowledge and engineering concepts. In all its activities, direct contribution to people and society is the main focus of CEEE. In the long run, CEEE aims to make significant contributions to the country and the world. In particular, CEEE places a high emphasis on being in harmony with nature. To this end, CEEE aspires to develop low-carbon solutions and strategies to avoid the negative impacts of climate change on our environment. To achieve these goals, CEEE strives to be the platform to bring everyone together, from academicians and researchers at universities to the decision makers at municipalities and the business world, including engineers, architects, employees in public and private sectors, historians, practitioners and city planners, as well as the people on the street.

#### **Areas of Activity**

# Smart and Sustainable Cities and Energy Efficient Buildings

- EEB-05-2017 Development of near zero energy building renovation
- EEB-06-2017 Highly efficient hybrid storage solutions for power and heat in residential buildings and district areas, balancing the supply and demand conditions
- EEB-07-2017 Integration of energy harvesting at building and district level
- EEB-08-2017 New business models for energy-efficient buildings through adaptable refurbishment solutions
- SCC-1-2016-2017 Smart Cities and Communities lighthouse projects
- SCC-02-2016-2017 Demonstrating innovative nature-based solutions in cities

# Özyeğin University

#### **Organisation Name**

Country	Turkey	
City	Istanbul	
Street	cekmekoy	
Website	www.ozyegin.edu.tr	
Phone		
Organisation Type	University	

Person	
Name	Ebru Karahan
Email	ebru.karahan@ozyegin.edu.tr
Job Position	Faculty member



#### **Organisation Details**

Hüsnü M. Özyeğin Foundation began its efforts to found Özyeğin University in the autumn of 2005. The foundation of Özyeğin University entailed a comprehensive study that involved more than 500 persons including businessmen, faculty members, as well as university and high school students in addition to a study entitled "Developing Sectors and Professions in Turkey and in the World". Taking the results of these studies as a baseline, the core values and vision of the university are discussed and identified in collaboration with all stakeholders in line with the design efforts carried out by ARAMA Participating Management Consultancy. As such Özyeğin University started to shape its vision through a series of workshops held with more than 300 participants including businessmen, faculty members, university students and new graduates.

Özyeğin University was officially founded on May 18, 2007 pursuant to Law No: 5656 published in the Official Gazette No: 26526 with the mission of contributing to social development by producing creative, original and applicable knowledge through its modern education system, its innovative structure integrated with life and its academic programs focused on the service sector. Özyeğin University, thus, welcomed its first students on its Altunizade Camps in September 2008 and opened the doors of its Çekmeköy Campus in September 2011. Thus the university has increased the total area of its campuses to 136 thousand m2. Özyeğin University also built a strong faculty with distinguished faculty members. 60% of the OzU faculty came from top 100 universities around the world, while 85% came from global top 200 universities.

In 2012, Özyeğin University produced its first cohort of graduates and launched 6 new undergraduate programs including Pilot Training, Gastronomy and Culinary Arts, Management Information Systems, International Business, Civil Engineering and Architecture in addition to its existing programs in Business Administration, Entrepreneurship, Banking and Finance, Psychology, Law, Industrial Engineering, Electrical-Electronics Engineering, Computer Science, Mechanical Engineering, Hotel Management and Air Transportation Management.

#### Areas of Activity

#### Smart and Sustainable Cities and Energy Efficient Buildings

- EEB-08-2017 New business models for energy-efficient buildings through adaptable refurbishment solutions
- SC5-21-2017: Cultural heritage as a driver for sustainable growth (Heritage-led rural regeneration)

#### **Cooperation Profiles**

#### Partner: Energy Efficient Buildings

Reducing building's embodied energy Use of energy efficient buildings and effect of occupants

# Özyeğin University Center for Energy Environment and Economy

#### **Organisation Name**

Country	Turkey
City	Istanbul
Street	Orman Sokak No 34 36
Website	
Phone	00905323429950
Organisation Type	University

Person		
Name	Yasemin Somuncu	60
Email	yaseminsomuncu@gmail.com	
Job Position	Senior Researcher / Architect, MA	

#### **Organisation Details**

The Center for Energy, Environment and Economy (CEEE) at Ozyegin University was established in 2009 as a center with a primary focus on energy and environment to develop and apply both fundamental knowledge and engineering concepts. In all its activities, direct contribution to people and society is the main focus of CEEE. In the long run, CEEE aims to make significant contributions to the country and the world. In particular, CEEE places a high emphasis on being in harmony with nature. To this end, CEEE aspires to develop low-carbon solutions and strategies to avoid the negative impacts of climate change on our environment. To achieve these goals, CEEE strives to be the platform to bring everyone together, from academicians and researchers at universities to the decision makers at municipalities and the business world, including engineers, architects, employees in public and private sectors, historians, practitioners and city planners, as well as the people on the street.

#### **Areas of Activity**

#### Smart and Sustainable Cities and Energy Efficient Buildings

- EEB-05-2017 Development of near zero energy building renovation
- EEB-08-2017 New business models for energy-efficient buildings through adaptable refurbishment solutions
- SCC-1-2016-2017 Smart Cities and Communities lighthouse projects
- SCC-02-2016-2017 Demonstrating innovative nature-based solutions in cities
- SC5-21-2017: Cultural heritage as a driver for sustainable growth (Heritage-led rural regeneration)

#### **Cooperation Profiles**

**Coordinator:** EEB-05\_2017 Development of Near Zero Energy Building Renovation

# İdealab inovasyon arge mühendislik danışmanlık a.ş.

#### Organisation Name

Turkey
istanbul
teknopark istanbul
http://idealab.com.tr/
SME

Person	
Name	Hayri Özturan
Email	ozturan@idealab.com.tr
Job Position	Operations Manager



#### **Organisation Details**

Teknopark Istanbul R&D company specialized on designing turbomachines and high speed electrcial power engines.

#### Areas of Activity

#### **Factories of the Future**

- FOF-10-2017 New technologies and life cycle management for reconfigurable and reusable customised products
- FOF-12-2017 ICT Innovation for Manufacturing SMEs

#### The European Green Vehicles Initiative

- GV-04-2017 Next generation electric drivetrains for fully electric vehicles, focusing on high efficiency and low cost
- GV-06-2017 Physical integration of hybrid and electric vehicle batteries at pack level aiming at increased energy density and efficiency
- GV-07-2017 Multi-level modelling and testing of electric vehicles and their components

#### **Cooperation Profiles**

#### Coordinator: R&D company expertised on turbomachinery

Research and development capabilities on turbomachinary : turbines, compressors, energy production systems, propulsion systems, air and naval vehicle integration, seals, heat exchangers, electrical drive engines, control systems, CFD, structral analysis

#### Partner: R&D company expertised on turbomachinery

Research and development capabilities on turbomachinary : turbines, compressors, energy production systems, propulsion systems, air and naval vehicle integration, seals, heat exchangers, electrical drive engines, control systems, CFD, structral analysis

# İnfinit Dynamics Ltd. Şti.

#### **Organisation Name**

Country	Turkey
2	5
City	Kocaeli
Street	TÜBITAK MAM Gebze Yerleşkesi Teknoloji Geliştirme
	Bölgesi Gebze
Website	www.infinitdynamics.com
Phone	
Organisation Type	Company

Person	
Name	Murat Büyük
Email	murat.buyuk@infinitdynamics.com
Job Position	General Manager



#### **Organisation Details**

Infinit Dynamics, founded in 2016 by a group of academicians who are experts in transportation enginnering. Main areas of interest are transportation safety and security, intelligent transportation systems and smart cities. The founders are also experts in design for which they are involved in several research projects related to vehicle design.

#### **Areas of Activity**

#### Factories of the Future

- FOF-06-2017 New product functionalities through advanced surface manufacturing processes for mass production
- FOF-07-2017 Integration of unconventional technologies for multi-material processing into manufacturing systems
- FOF-08-2017 In-line measurement and control for micro-/nano-enabled high-volume manufacturing for enhanced reliability
- FOF-09-2017 Novel design and predictive maintenance technologies for increased operating life of production systems
- FOF-10-2017 New technologies and life cycle management for reconfigurable and reusable customised products
- FOF-12-2017 ICT Innovation for Manufacturing SMEs

#### Smart and Sustainable Cities and Energy Efficient Buildings

- SCC-1-2016-2017 Smart Cities and Communities lighthouse projects
- SCC-02-2016-2017 Demonstrating innovative naturebased solutions in cities

#### The European Green Vehicles Initiative

- GV-01-2017 Optimisation of heavy duty vehicles for alternative fuels use
- GV-04-2017 Next generation electric drivetrains for fully electric vehicles, focusing on high efficiency and low cost
- GV-05-2017 Electric vehicle user-centric design for optimised energy efficiency
- GV-06-2017 Physical integration of hybrid and electric vehicle batteries at pack level aiming at increased energy density and efficiency
- GV-07-2017 Multi-level modelling and testing of electric vehicles and their components
- GV-08-2017 Electrified urban commercial vehicles integration with fast charging infrastructure
- GV-09-2017 Aerodynamic and flexible trucks
- GV-10-2017 Demonstration (pilots) for integration of electrified L-category vehicles in the urban transport system
- GV-13-2017 Production of next generation battery cells in Europe for transport applications

#### **Cooperation Profiles**

#### Partner: Vehicle Design

Interested in collaboration under the following keywords: -Alternative, green, smart, light weight vehicle design, type

approval and regulations for Hybrid/Electric vehicles. -Sustainable transportation. -Intelligent transportation systems.

# İstanbul Kültür Üniversitesi

#### **Organisation Name**

Country	Turkey
City	İstanbul
Street	d-100 yan yol
Website	www.iku.edu.tr
Phone	
Organisation Type	University

Person	
Name	Nevzat Ömer Saatcıoğlu
Email	n.saatcioglu@iku.edu.tr
Job Position	Academician-Architect



#### **Organisation Details**

Dorcon

Solar decathlon 2014 France, head of "Team Turkey" and faculty adviser,

Solar Decathlon 2017 China, "Team İstanbul" faculty adviser of İKÜ,

Green building design, Straw Bale and Algae Architecture researcher,

#### Areas of Activity

Smart and Sustainable Cities and Energy Efficient Buildings

- EEB-07-2017 Integration of energy harvesting at building and district level
- SCC-1-2016-2017 Smart Cities and Communities lighthouse projects
- SCC-02-2016-2017 Demonstrating innovative nature-based solutions in cities

#### **Cooperation Profiles**

#### Partner: -

Solar decathlon 2014 France, head of "Team Turkey" and faculty adviser, Solar Decathlon 2017 China, "Team İstanbul" faculty adviser of İKÜ, Green building design, Straw Bale and Algae Architecture researcher,

# İstanbul Metropolitan Municipality

#### **Organisation Name**

Country	Turkey	
City	İstanbul	
Street	Kasım	
Website	www.ibb.istanbul	
Phone		
Organisation Type	Authority/Government	

Person		
Name	Kübra Bayraktar şişman	
Email	kubra.bayraktar@ibb.gov.tr	
Job Position	EU Relations Director	



#### **Organisation Details**

We organize training seminars and EU information meetings in different districts of Istanbul for women and young people. We also organize training activities on EU acquis for the staff of IMM. Because, as IMM, we are aware of the importance of the process in which our country entered on the way to the EU, and local authorities are a crucial part of this process. In addition, we organize inter- institutional relations and support activities (EU Local Information Network, training seminars for district municipalities in Istanbul etc.) in order to inform local administrations in Istanbul about European funds and grants available in their own field and to help improve their capacity.

As a consequence, we prepare project proposals for EU funds on behalf of IMM, contact prospective project partners, establish and coordinate cooperation for project partnerships for EU grants.

#### Areas of Activity

#### **SPIRE-Circular Economy Session**

- SPIRE-07-2017 Integrated approach to process optimisation for raw material resources efficiency, excluding recovery technologies of waste streams
- SPIRE-08-2017 Carbon dioxide utilisation to produce added value chemicals
- SPIRE-09-2017 Pilot lines based on more flexible and down-scaled high performance processing
- SPIRE-11-2017 Support for the enhancement of the impact of SPIRE PPP projects
- SPIRE-12-2017 Assessment of standardisation needs and ways to overcome regulatory bottlenecks in the process industry
- CIRC-01-2017 Systemic, eco-innovative approaches for the circular economy large-scale demonstration projects
- CIRC-02-2017 Water in the context of the circular economy
- EE-17-2016-2017 Valorisation of waste heat in industrial systems
- SPIRE-13-2017 Potential of Industrial Symbiosis in Europe

#### Factories of the Future

• FOF-06-2017 New product functionalities through

# Smart and Sustainable Cities and Energy Efficient Buildings

- EEB-05-2017 Development of near zero energy building renovation
- EEB-06-2017 Highly efficient hybrid storage solutions for power and heat in residential buildings and district areas, balancing the supply and demand conditions
- EEB-07-2017 Integration of energy harvesting at building and district level
- EEB-08-2017 New business models for energy-efficient buildings through adaptable refurbishment solutions
- EE-12-2017 Integration of Demand Response in Energy Management Systems while ensuring interoperability through Public Private Partnership
- SCC-1-2016-2017 Smart Cities and Communities lighthouse projects
- SCC-02-2016-2017 Demonstrating innovative nature-based solutions in cities
- SC5-08-2017 Large-scale demonstrators on nature-based solutions for hydro-meteorological risk reduction
- SC5-21-2017: Cultural heritage as a driver for sustainable growth (Heritage-led rural regeneration)

advanced surface manufacturing processes for mass production

- FOF-07-2017 Integration of unconventional technologies for multi-material processing into manufacturing systems
- FOF-08-2017 In-line measurement and control for micro-/nano-enabled high-volume manufacturing for enhanced reliability
- FOF-09-2017 Novel design and predictive maintenance technologies for increased operating life of production systems
- FOF-10-2017 New technologies and life cycle management for reconfigurable and reusable customised products
- FOF-12-2017 ICT Innovation for Manufacturing SMEs

#### The European Green Vehicles Initiative

- GV-01-2017 Optimisation of heavy duty vehicles for alternative fuels use
- GV-04-2017 Next generation electric drivetrains for fully electric vehicles, focusing on high efficiency and low cost
- GV-05-2017 Electric vehicle user-centric design for optimised energy efficiency
- GV-06-2017 Physical integration of hybrid and electric vehicle batteries at pack level aiming at increased energy density and efficiency
- GV-07-2017 Multi-level modelling and testing of electric vehicles and their components
- GV-08-2017 Electrified urban commercial vehicles integration with fast charging infrastructure
- GV-09-2017 Aerodynamic and flexible trucks
- GV-10-2017 Demonstration (pilots) for integration of electrified L-category vehicles in the urban transport system
- GV-13-2017 Production of next generation battery cells in Europe for transport applications

#### **Cooperation Profiles**

#### Partner: Smart city

Deal with all smart city projects

# İZELTAŞ A.Ş.

Organisation Name	
Country	Turkey
City	İzmir
Street	Işıkkent
Website	
Phone	
Organisation Type	Company

Person		
Name	Yiğit ERÇAYHAN	
Email	yigit.ercayhan@izeltas.com.tr	
Job Position	Mechanical Engineer M.Sc,	
	Asistant Manager of R&D	
	Center	

#### **Organisation Details**

İzeltaş was estabilished in 1968 in İzmir with 100% Turkish capital throught Turkish and German Technical collaboration as the first Turkish hand tools manufacturer. Today İZELTAŞ, as a result of technological investments, which increase the capasity and improve quality, has a production capacity of 4000 tons a year, equivalent to 16 million pieces and 2500 types of hand tools within its four facilities coverin a total area of 155.000 square meters, of which 40.000 meter square is closed.

IZELTAŞ is a complate facility, including die-tooling, forging, machining, heat treatment, electro-plating, plastic injection and painting departments.

Ergonomic, high quality hand tolls and various hot forged parts from 50 grams to 30.000 grams are produced by hot forging method. Sectors served can be listed as, automotive, defence, agriculture, aviation and consturaction.

İZELTAŞ has a very good reputation for its high quality products and advanced technology throught Europe, Asia, North and South America as well as in Turkey.

IZELTAŞ, company policy is to present the best with the effective use of Research, Development and Quality systems whil providing unlimited after-sales service. Our mission is to manufacture products in such a high quality that would satisfy and requirement and to became a brand that is in demand throughout the world.

#### Areas of Activity

#### Factories of the Future

- FOF-06-2017 New product functionalities through advanced surface manufacturing processes for mass production
- FOF-07-2017 Integration of unconventional technologies for multi-material processing into manufacturing systems
- FOF-08-2017 In-line measurement and control for micro-/nano-enabled high-volume manufacturing for enhanced reliability
- FOF-09-2017 Novel design and predictive maintenance technologies for increased operating life of production systems
- FOF-10-2017 New technologies and life cycle management for reconfigurable and reusable customised products
- FOF-12-2017 ICT Innovation for Manufacturing SMEs

# İzmir Institute of Technology

# Organisation NameCountryTurkeyCityUrla-iZMiRStreetGulbahce koyu kampusuWebsitePhoneUniversity

Person	
Name	Aysun Sofuoglu
Email	aysunsofuoglu@iyte.edu.tr
Job Position	Academics

#### **Organisation Details**

İzmir Institute of Technology is one of the state universities in Turkey and one that was established in 1992 with a view to offering a high level of education and carrying out research in technological fields. The medium of education at our Institute is English. It is one of the two Turkish institutes of technology, which are the most advanced models of technical universities in today's world. Having first started with graduate programs in 1994 in the center of İzmir, the faculties have been admitting students to undergraduate programs as well since 1998.

#### Areas of Activity

#### SPIRE-Circular Economy Session

- SPIRE-07-2017 Integrated approach to process optimisation for raw material resources efficiency, excluding recovery technologies of waste streams
- CIRC-01-2017 Systemic, eco-innovative approaches for the circular economy large-scale demonstration projects

#### Factories of the Future

• FOF-10-2017 New technologies and life cycle management for reconfigurable and reusable customised products

#### Smart and Sustainable Cities and Energy Efficient Buildings

• SC5-21-2017: Cultural heritage as a driver for sustainable growth (Heritage-led rural regeneration)

# Glushkov Institute of Cybernetics NAS of Ukraine

#### **Organisation Name**

Country	Ukraine
City	Kyiv
Street	40, Glushkov ave.
Website	http://icyb.kiev.ua/eng/
Phone	+380445262049
Organisation Type	R&D Institution



V.M. Glushkov Institute of Cybernetics NAS of Ukraine

Person		
Name	Valentyna Cherepynets	
Email	james1981@yandex.ru	4
Job Position	Researcher	

#### **Organisation Details**

Glushkov Institute of Cybernetics (GIC) of National Academy of Sciences of Ukraine (NASU) is a widely known in Ukraine and abroad scientific center for solution of fundamental and applied problems in computer science and engineering.

GIC is a developer of the fastest Ukrainian supercomputer SCIT-4 and one of the mainframes of Ukrainian GRID supercomputing network which takes part in European Grid Infrastructure projects.

#### Areas of Activity

# Smart and Sustainable Cities and Energy Efficient Buildings

- SCC-1-2016-2017 Smart Cities and Communities lighthouse projects
- SC5-21-2017: Cultural heritage as a driver for sustainable growth (Heritage-led rural regeneration)

#### **Cooperation Profiles**

#### Coordinator: Smart city air pollution monitoring

The problem of air pollution is one of the most pressing in our times. This is especially true for large and densely populated cities. The question of measuring the level of air pollution, monitoring and decreasing of this level is considered important and submitted for examination at the national level in advanced countries. Community Smart City Hub aims to use advanced technology to solve the pressing problems of large cities. One of these problems is monitoring of air quality. Project of monitoring of air pollution involves the creation of an extensive system of sensors to be installed in problem areas of the city, such as industrial facilities or intersections with heavy traffic, these sensors will transfer data to the united monitoring system. It is supposed to use the latest advances in areas such as information technology, data transferring and processing, Internet Of Things, Smart House and more. Modern technologies allow developing of highly intellectual sensors of rather small size and cost, making the project more affordable for implementation. The availability of the results of such monitoring will allow detecting of problem places at the sites in terms of air pollution and directing the resources not at the whole city, but at selected areas with critical levels of pollution. For example, impose more stringent requirements on the composition of air emissions of industrial facilities or build a subway or a new crossroad in place of heavy traffic. With support of Smart City Hub community project is being implemented in Kyiv, Ukraine. Created and installed a network of sensors that successfully monitors air pollution in a residential complex, located near the factory. Such monitoring systems will enable more effective approach to address the issue of reducing air pollution in large cities. They will be useful for both national health and environmental protection, and private developers or architects who want to make new modern cities safe and comfortable to live in. Valentyna Cherepynets is a member of Kyiv Smart City Hub community (http://www.kyivsmartcity.com/) which has a leading role in promoting this project in the capital of Ukraine.

# Glushkov Institute of Cybernetics NAS of Ukraine

#### **Organisation Name**

Country	Ukraine
City	Kyiv
Street	40, Glushkov ave.
Website	http://icyb.kiev.ua
Phone	
Organisation Type	R&D Institution

Person	
Name	Andrii Malenko
Email	malenko.andrii@gmail.com
Job Position	Senior Researcher



#### **Organisation Details**

Glushkov Institute of Cybernetics (GIC) of National Academy of Sciences of Ukraine (NASU) is a widely known in Ukraine and abroad scientific center for solution of fundamental and applied problems in computer science and engineering.

GIC is a developer of the fastest Ukrainian supercomputer SCIT-4 and one of the mainframes of Ukrainian GRID supercomputing network which takes part in European Grid Infrastructure projects.

#### Areas of Activity

# Smart and Sustainable Cities and Energy Efficient Buildings

- SCC-1-2016-2017 Smart Cities and Communities lighthouse projects
- SC5-21-2017: Cultural heritage as a driver for sustainable growth (Heritage-led rural regeneration)

#### **Cooperation Profiles**

#### Coordinator: Pixelated Realities: preservation of cultural heritage

The project is devoted to preservation and restoration of cultural heritage with the help of computing technologies. Project aims at: - creation of digital copies of the real world; - 3D models ready for 3D printing and CNC production; restoration of destroyed buildings or facade parts; - virtual museums and tourism; - movie and game industry. We use: - photogrammetry, laser scanning, multicopters - 3D software - distributed computing cluster SCIT-4 Description We use photogrammetry and laser scanning tools to create digital copies of ancient buildings, monuments, squares, places. This data is then processed on a supercomputing cluster of Gluskhov Institute of Cybernetics. Resulting 3D models are used for exact recreation of building facade parts. As a direct application of scanned areas we are creating virtual reality environments accessible through Oculus Rift or Google Cardboard. We cooperate with museums to make authentic digital copies of objects from past. This allows us to The project was heavily inspired by the need to create digital data of facade of 100+ years old building in Odesa, Ukraine. Due to many reasons it is almost impossible to find any paper construction plans for many historical buildings from 19th century or older. These buildings are destroying under impact of environment or artificial factors. Restoration of destroyed gypsum or clay facade parts without 3D model proved to be a difficult and time consuming process. Our hardware and software techniques heavily impacts the speed of reconstruction and makes it possible to process thousands of photographs and millions of laser scanning points. We cooperate with smart city initiatives, historical museums, archaeologists. At the moment we 3D reconstructed the following locations in Ukraine: - Odesa Duke Square; - Tustan' fortress from 9-13th centuries; - Poshtova Ploshcha (Post Square), part of ancient Kyiv, 10th century; - Shevchenko Gai, ethnographic museum of Ukraine in 18-19th centuries; - number of historical buildings in different cities of Ukraine.

## **Resource Efficient and Cleaner Produciton Centre Ukraine**

Organisation Name

-	
Country	Ukraine
City	Kyiv
Street	Starokyivska 10G
Website	http://recpc.kpi.ua/en/
Phone	
Organisation Type	Other

Person		
Name	Alla Marchenko	(ha )
Email	marchenko_alla@yahoo.com	60
Job Position	Administrator of project "EaP GREEN Ukraine" and LCA analyst	

#### **Organisation Details**

The National Cleaner Production Centre was created in 2007 under the National Technical University of Ukraine "KPI" management as its separate department on the basis of the experience that UNIDO and UNEP have gained in establishing Cleaner Production Centres and Programmes in nearly 50 countries worldwide.

#### The core activities of the Centre are:

- Technical audit conduction at the enterprise;
- Providing consulting services on technical equipment selection;
- Expert maintenance of equipment and modernization projects assessment including designing work;
- Independent technical review of equipment and project documentation;
- International projects realization;
- Trainings conduction and national expert preparation;

The Centre has highly experienced team of Cleaner Production experts certified by UNIDO. Among them, there are heating engineers, electrical engineers, ventilation engineers, water supply engineers with an experience of international projects participation and providing technical solutions. Centre's experts has an experience in providing services on Technical Support on Equipment Selection. As a part of UNIDO and UNEP concept on Resource Efficient and Cleaner Production the Centre takes into account environmental and social matters during the technical analysis conduction. All the Project works are under supervision of Project Manager or special expert on monitoring and verification could be engaged.

The Centre works with public authorities and participate in working groups on technical cooperation. There are 6 regional branches of the Centre in Ukraine (Kyiv, Zaporizhzhia, Vinnytsia, Odesa, Lviv and Kharkiv) with team of technical engineers. Close cooperation have been established in the abovementioned regions with regional and city state administration.

The Center is a member of the RECPnet with an access to the variety of databases on best practices, available equipment and benchmarks.

#### **Project experience:**

- The UNIDO (United Nations Industrial Development Organization) Project "The sustainability of the National Cleaner Production Programme" (2007-2009);
- The UNIDO Project "Promoting the adaptation and adoption of RECP through the establishment and operation of a Cleaner Production Centre in Ukraine" (2013 till now);

- EU funded Project: **"The Green Economies in the Eastern Neighborhood" (EaP Green)** (2014 till now);
- "Ukraine Norway" Project "Cooperation between Norway and Ukraine in matters of social adaptation of retired military personnel and their family members" (2016 till now);
- Program to support the green modernization of the Ukrainian Economy (GIZ) (2015 till now);
- No GAP The Knowledge Transfer Community (2015 2016);

#### Areas of Activity

#### SPIRE-Circular Economy Session

- SPIRE-07-2017 Integrated approach to process optimisation for raw material resources efficiency, excluding recovery technologies of waste streams
- CIRC-01-2017 Systemic, eco-innovative approaches for the circular economy large-scale demonstration projects
- CIRC-02-2017 Water in the context of the circular economy

#### Factories of the Future

- FOF-06-2017 New product functionalities through advanced surface manufacturing processes for mass production
- FOF-09-2017 Novel design and predictive maintenance technologies for increased operating life of production systems
- FOF-10-2017 New technologies and life cycle management for reconfigurable and reusable customised products
- FOF-12-2017 ICT Innovation for Manufacturing SMEs

# Smart and Sustainable Cities and Energy Efficient Buildings

- EEB-05-2017 Development of near zero energy building renovation
- EEB-06-2017 Highly efficient hybrid storage solutions for power and heat in residential buildings and district areas, balancing the supply and demand conditions
- EEB-07-2017 Integration of energy harvesting at building and district level
- EEB-08-2017 New business models for energy-efficient buildings through adaptable refurbishment solutions
- SCC-1-2016-2017 Smart Cities and Communities lighthouse projects

#### **Cooperation Profiles**

**Partner:** Integrated approach to process optimisation for raw material resources efficiency, excluding recovery technologies of waste streams

**Partner:** Systemic, eco-innovative approaches for the circular economy large-scale demonstration projects

Partner: Water in the context of the circular economy

**Partner:** New product functionalities through advanced surface manufacturing processes for mass production

**Partner:** Novel design and predictive maintenance technologies for increased operating life of production systems

**Partner:** New technologies and life cycle management for reconfigurable and reusable customised products

Partner: Innovation for Manufacturing SMEs

Partner: Development of near zero energy building renovation

Partner: Integration of energy harvesting at building and district level

Partner: Smart Cities and Communities lighthouse projects

## Resource efficient and cleaner production centre Ukraine

Organisation Name

Country	Ukraine
City	Kyiv
Street	Peremohy Ave, 37
Website	http://recpc.kpi.ua/en/
Phone	
Organisation Type	Consulting

Person	
Name	Anton Kleshchov
Email	anthony_joseph@bigmir.net
Job Position	technical expert



#### **Organisation Details**

The National Cleaner Production Centre was created in 2007 under the National Technical University of Ukraine "KPI" management as its separate department on the basis of the experience that UNIDO and UNEP have gained in establishing Cleaner Production Centres and Programmes in nearly 50 countries worldwide.

#### The core activities of the Centre are:

- Technical audit conduction at the enterprise;
- Providing consulting services on technical equipment selection;
- Expert maintenance of equipment and modernization projects assessment including designing work;
- Independent technical review of equipment and project documentation;
- International projects realization;
- Trainings conduction and national expert preparation;

The Centre has highly experienced team of Cleaner Production experts certified by UNIDO. Among them, there are heating engineers, electrical engineers, ventilation engineers, water supply engineers with an experience of international projects participation and providing technical solutions. Centre's experts has an experience in providing services on Technical Support on Equipment Selection. As a part of UNIDO and UNEP concept on Resource Efficient and Cleaner Production the Centre takes into account environmental and social matters during the technical analysis conduction. All the Project works are under supervision of Project Manager or special expert on monitoring and verification could be engaged.

The Centre works with public authorities and participate in working groups on technical cooperation. There are 6 regional branches of the Centre in Ukraine (Kyiv, Zaporizhzhia, Vinnytsia, Odesa, Lviv and Kharkiv) with team of technical engineers. Close cooperation have been established in the abovementioned regions with regional and city state administration.

The Center is a member of the RECPnet with an access to the variety of databases on best practices, available equipment and benchmarks.

#### **Project** experience:

- The UNIDO (United Nations Industrial Development Organization) Project "The sustainability of the National Cleaner Production Programme" (2007-2009);
- The UNIDO Project "Promoting the adaptation and adoption of RECP through the establishment and operation of a Cleaner Production Centre in Ukraine" (2013 till now);
- EU funded Project: **"The Green Economies in the Eastern Neighborhood" (EaP Green)** (2014 till now);

- "Ukraine Norway" Project "Cooperation between Norway and Ukraine in matters of social adaptation of retired military personnel and their family members" (2016 till now);
- Program to support the green modernization of the Ukrainian Economy (GIZ) (2015 till now);
- No GAP The Knowledge Transfer Community (2015 2016);

More information: http://recpc.kpi.ua/

#### Areas of Activity

#### **SPIRE-Circular Economy Session**

- SPIRE-07-2017 Integrated approach to process optimisation for raw material resources efficiency, excluding recovery technologies of waste streams
- CIRC-01-2017 Systemic, eco-innovative approaches for the circular economy large-scale demonstration projects
- SPIRE-13-2017 Potential of Industrial Symbiosis in Europe

#### Factories of the Future

- FOF-07-2017 Integration of unconventional technologies for multi-material processing into manufacturing systems
- FOF-08-2017 In-line measurement and control for micro-/nano-enabled high-volume manufacturing for enhanced reliability
- FOF-10-2017 New technologies and life cycle management for reconfigurable and reusable customised products

# Smart and Sustainable Cities and Energy Efficient Buildings

- EEB-05-2017 Development of near zero energy building renovation
- EEB-06-2017 Highly efficient hybrid storage solutions for power and heat in residential buildings and district areas, balancing the supply and demand conditions
- SCC-02-2016-2017 Demonstrating innovative nature-based solutions in cities
- SC5-21-2017: Cultural heritage as a driver for sustainable growth (Heritage-led rural regeneration)

#### **Cooperation Profiles**

#### Coordinator: Reducing the electric energy losses in the rock fracture

Around 90 % of produced energy around the world is used for demolition activities (from mining till carrying out of repairing activities). At the same time applied classical methods of destruction (mechanical, physical, chemical and other). It was proposed to use combined plasma-mechanical methods for demolition of rock formation for reduction of energy consumption and increase in productivity of demolition processes up to 10 %. Implementation of sub resonant mods enable usage of energetic potential from crystal structures, which are destroying and in same time reducing energy use of external source for rock cutting. This innovative approach, which was developed by colleagues from Resource Efficient and Cleaner production Centre, allows not only reduce resource use but also improve ecological impact by elimination of chemical and explosion technologies use. Same technical issues may occur at mining, manufacturing and other industries at different countries. Our team will be happy to cooperate in field of information transfer on issued associated with excessive power losses under process of rock destruction and cooperation for development of technical solutions focused on elimination of losses caused by above mentioned processes.

#### Coordinator: Reducing the electric energy losses due to voltage imbalance on the railway

Based on the accumulated experience from energy assessments of the Ukrainian railways, it is possible to affirm that almost each third substation area of AC landfill, within the limits of electrified railways, has losses around 200-300 thousand kWh/year due to voltage imbalance. In some cases, losses excess 1 million kWh/year in Ukraine. It was proposed to control parameters of the angle and modules of the vector phase voltages by differential method with help of measuring complexes at substations in order to determine imbalance. Damage in Ukraine, due to active energy losses at the areas between substations, is more than 0,22 million dollars per year, if the angle value between vectors of voltage is 5°. If angle decrease at least till 4° - damage from electricity losses between substations will drop to 0,08 million dollars per year. One of the possible solutions for damage reduction caused by imbalance is installation of differential automatic reactor regulation system (DARRS) at substations. This system was developed by representatives from the Resource Efficient and Cleaner Production Centre Ukraine and it can reduce energy consumption within the limits of the railway up to 20 million dollars per year. Similar technical problems may occur at the electrified sections

of railways in other countries. Our team will be happy to perform information transfer on issues associated with electric energy losses due to voltage imbalances and cooperation for development of technical solutions focused on elimination of losses caused by above mentioned processes.

#### Partner: Factories of the Future

We are looking for new project ideas and proposals for joint and productive work.

#### Partner: Smart and Sustainable Cities and Energy Efficient Buildings

We are looking for new project ideas and proposals for joint and productive work.

#### Partner: SPIRE-Circular Economy Session

We are looking for new project ideas and proposals for joint and productive work.

## V.Bakul Institute for Superhard Materials NAS Ukraine

Organisation Name

Country	Ukraine
City	Kiev
Street	2 Autozavodska
Website	www.ism.kiev.ua
Phone	
Organisation Type	R&D Institution

Person	
Name	Ludmila Kisterska
Email	kluda20@gmail.com
Job Position	senior researcher

#### **Organisation Details**

V. Bakul Institute for Superhard Materials of the National Academy of Sciences of Ukraine - is a large European science and technology center.

The Institute is engaged in the development of processes for production and application of synthetic diamond, cubic boron nitride and other superhard materials, high-density high-tech ceramics, and cemented carbides, nanodiamond and metal nanofluids dealing also with manufacturing structural products and tools of the above materials.

#### Areas of Activity

#### **SPIRE-Circular Economy Session**

CIRC-02-2017 Water in the context of the circular economy

# "Uniway consulting group"

Organisation Name	
Country	Ukraine
City	Kiev
Street	str. Krasnoarmeyskay (B.Vasilkovskay), 57/3
Website	http://english.uniway.kiev.ua/
Phone	
Organisation Type	SME

Person		
Name	IURII NIKITIN	
Email	ynikitin@voliacable.com	-
Job Position	General director, Expert – consultant	alter the

#### **Organisation Details**

The company "Uniway consulting group" provide consultancy service for Managing Open Innovation for European and Ukrainian SMEs and consultancy support their activities in the preparation of project proposals to programme Horizon 2020 including the project management.

"Uniway Consulting Group" in the work takes into consideration that the market and business rules change promptly and have needs use the tools of fast reaction to changes of market situations and growth of uncertainty in the dynamic business environment for SMEs.

Approaches of our work is based on substantiation of prospects and use of scientific and technical and organizationaleconomic innovations for SME business development.

#### Areas of Activity

#### Factories of the Future

 FOF-12-2017 ICT Innovation for Manufacturing SMEs

#### **Cooperation Profiles**

#### Coordinator: "FOF-12-2017: ICT Innovation for Manufacturing SMEs (I4MS)"

Project name: «Creating and develop cluster "EU - Turkey" for the industrial production of new innovative products of the SMEs for factories of the new generation the cities of the future» Project idea: Formation of the web platform of the identification problems of the factories and cities of the future and their solutions by expanding the production of new innovative products and services of the SMEs of the EU and associated countries.

# Amba Consulting (UK) Ltd

#### **Organisation Name**

Country	United Kingdom
City	Melton Mowbray, Leicestershire
Street	21A Market Place
Website	www.ambacon.com
Phone	
Organisation Type	Consulting

Person	
Name	Philip Sowden
Email	philip.sowden@ambacon.com
Job Position	Director



#### **Organisation Details**

Small, highly specialised consultancy based on over 40 year's experience in the design, management and evaluation of SME support programmes covering design, innovation, manufacturing, R&D and quality. Worked extensively in developing and developed economies covering 35 different countries. In this region, worked on major projects in Turkey, Egypt and Kuwait. Currently involved in encouraging Turkish high-tech SMEs to engage more in Horizon 2020 projects.

#### **Areas of Activity**

#### Factories of the Future

- FOF-07-2017 Integration of unconventional technologies for multi-material processing into manufacturing systems
- FOF-10-2017 New technologies and life cycle management for reconfigurable and reusable customised products
- FOF-12-2017 ICT Innovation for Manufacturing SMEs

#### **Cooperation Profiles**

#### Partner: Design, management and evaluation of SME business support programmes

Topic of interest: Support for manufacturing SMEs to persuade them to adopt new technologies in design, processing and management Possible role: Partner to introduce the 'SME angle' into manufacturing projects Competence: See description. Past involvement includes the overall management of national SME initiatives, including UK National Quality Campaign, Manufacturing Advisory Service, Small Firms Technical Advisory Service, etc. FP Expertise: partnered on several projects under previous FPs; UK representative on MINT (Managing the Integration of New Technologies), Team Leader on Turkey in FP7, currently SME Key Expert on Turkey in Horizon 2020

# Brunel University London

#### Organisation Name

United Kingdom
Uxbridge
Kingston Lane
University

Person		
Name	Elizabeth Mullis	Large
Email	elizabeth.mullis@brunel.ac.uk	
Job Position	Business Development Man-	
	ager	

#### **Organisation Details**

Brunel is an internationally renowned university at the leading edge of global research. An emphasis on collaborative and applied research provides a focus on creating socio-economic impact and commercial benefits - from bringing new products to market and developing the latest science and technology to offering innovative solutions for complex business problems.

Brunel has established longstanding contract research, knowledge transfer and collaborative R & D partnerships with some of the world's largest corporations, as well as with many innovative SMEs. The University is skilled at securing matched funding for projects from government departments and the Technology Strategy Board, and from agencies including Research Councils and the EU.

#### **Areas of Activity**

#### SPIRE-Circular Economy Session

- SPIRE-07-2017 Integrated approach to process optimisation for raw material resources efficiency, excluding recovery technologies of waste streams
- CIRC-02-2017 Water in the context of the circular economy
- EE-17-2016-2017 Valorisation of waste heat in industrial systems

#### **Cooperation Profiles**

#### Partner: The circular bioeconomy

A wholistic approach to the bio cycles within the circular economy

#### The European Green Vehicles Initiative

• GV-01-2017 Optimisation of heavy duty vehicles for alternative fuels use

# Phase Change Material Products Limited

_		
Organ	nisation	Namo
orgai	iisatioii	Name

Country	United Kingdom	Large
City	Yaxley	
Street	Unit 32	
Website	www.pcmproducts.net	
Phone		
Organisation Type	SME	

Person		
Name	Zafer Ure	Large
Email	z.ure@pcmproducts.net	
Job Position	Managing Director	

#### **Organisation Details**

Our company provides PCM technologies and applications from initial concept, research and development stages to production and distribution from our office and manufacturing facility in the UK and our Licensed outlets around the world which offer bespoke products to meet unique customer requirements.

For more than a decade and a half we have been involved in the development of Phase Change Materials (PCMs). With unrivalled experience in designing and advising on PCM installations and applications, we continue to push the boundaries in PCM usage for the benefit of our evergrowing customer base.

In addition to our technical expertise, we offer (under the PlusICE branding) what we believe to be the most comprehensive range of PCM solutions currently available commercially (-100°C (-148°F) to +885°C (+1,625°F)).

From initial concept, research and development to production and distribution, our office and manufacturing facility in the UK and our Licensed outlets around the world offer bespoke products to meet unique customer and application requirements.

PCM will be developing the required PCM solutions and associated products applicable to the project aims. Although we are based in the UK, much of our business is throughout the world and we are currently active in Europe, the Americas, Africa and the Middle and Far East. These activities are involved in both the installation of our products and through our international network.

PCM Products Ltd. is actively involved on R&D and new product development projects with many Industrial and Academic institutions around the World in the past and have already carried out with many UK and EEC funded projects have been undertaken either as a lead partner or supporting partner.

We are specialise in Phase Change Material (PCM) technologies and offer specialised design, prototype and final production development services for more than 17 years and developed many ineteresting products and applications which base seen in our web site www.pcmproducts.net and we offer full confidentiality from conception to completion and helped many partners to commercisialise the concept and manufacture the product for them.

Thermal Energy Storage (TES) may be considered as a useful tool to reduce the cooling as well as heating load requirements by means of spreading the loads over 24 hour or longer periods utilising the naturally occurring ambient temperature difference etween day and night or even seasonal changes and we will be offering our products and experiences and looking for any organisation who can utilise these energy storage materials and incorporate as part of their development or product options and look forward to meeting any parties can explore the potential of these TES materials (www.pcmproducts.net).

#### Areas of Activity

#### SPIRE-Circular Economy Session

• SPIRE-07-2017 Integrated approach to process optimisation for raw material resources efficiency,

# Smart and Sustainable Cities and Energy Efficient Buildings

• EEB-05-2017 Development of near zero energy

excluding recovery technologies of waste streams

- SPIRE-09-2017 Pilot lines based on more flexible and down-scaled high performance processing
- CIRC-01-2017 Systemic, eco-innovative approaches for the circular economy large-scale demonstration projects
- EE-17-2016-2017 Valorisation of waste heat in industrial systems

#### Factories of the Future

- FOF-06-2017 New product functionalities through advanced surface manufacturing processes for mass production
- FOF-07-2017 Integration of unconventional technologies for multi-material processing into manufacturing systems
- FOF-12-2017 ICT Innovation for Manufacturing SMEs

building renovation

- EEB-06-2017 Highly efficient hybrid storage solutions for power and heat in residential buildings and district areas, balancing the supply and demand conditions
- EEB-07-2017 Integration of energy harvesting at building and district level
- EEB-08-2017 New business models for energy-efficient buildings through adaptable refurbishment solutions
- EE-12-2017 Integration of Demand Response in Energy Management Systems while ensuring interoperability through Public Private Partnership
- SCC-1-2016-2017 Smart Cities and Communities lighthouse projects
- SCC-02-2016-2017 Demonstrating innovative nature-based solutions in cities

#### The European Green Vehicles Initiative

- GV-04-2017 Next generation electric drivetrains for fully electric vehicles, focusing on high efficiency and low cost
- GV-06-2017 Physical integration of hybrid and electric vehicle batteries at pack level aiming at increased energy density and efficiency
- GV-13-2017 Production of next generation battery cells in Europe for transport applications

#### **Cooperation Profiles**

#### Partner: PHASE CHANGE MATERIALS & THERMAL ENERGY STORAGE

PCM will be developing the required PCM solutions and associated products applicable to the project aims. Although we are based in the UK, much of our business is throughout the world and we are currently active in Europe, the Americas, Africa and the Middle and Far East. These activities are involved in both the installation of our products and through our international network. PCM Products Ltd. is actively involved on R&D and new product development projects with many Industrial and Academic institutions around the World in the past and have already carried out with many UK and EEC funded projects have been undertaken either as a lead partner or supporting partner; 1 ELATION FP6 An Ultra Efficient, Low Cost, Light Weight, Thermal Insulation Material to Improve the Energy Efficiency of Refrigeration Equipment by 30% 2 TECHNOLOGY PROGRAMME DTI Mono-Cool Innovative Ventilation / Low Energy Cooling Systems 3 TSB Integrated Biomass Fuelled CHP/Cooling System 4 HESTOR FP7 Development of Thermal Storage Application for HVAC solutions based on Phase Change Materials 5 LINK DEFRA Integrated Thermal Energy Storage in Food Refrigeration Equipment for Energy and CO2 Emission Reduction 6 DECC Smart Thermal Storage Systems (STSS) 7 SAM.SSA FP7 Sugar Alcohol based Materials for Seasonal Storage Application 8 HERB FP7 Holistic Energy Efficiency Retrofitting of Residential Buildings 9 NANOPCM FP7 New Advanced iNsulatiOn Phase Change Materials 10 RESSEEPE FP7 REtrofitting Solutions and Services for the enhancement of Energy Efficiency in Public Edification 11 THINFRAME FP7 High Thermal Insulating Wondow Frames for Energy Efficient Building 12 TSB Development of a Novel Low Pressure technique for Measuring the Air Tightness of Buildings 13 DECC Advance Heat Storage 14 Energy Catalsty Stage 1 TSB High Temperaure PCM/Brayton Cycle 15 Make it Lighter with Less TSB Polymer Micro-Hollow Fibre Heat Exchanger 16 Agri-Tech Catalyst TSB WelChic- Welfare Enhanced Living Consitions for healthier Chickens 17 Improving food supply chain efficiency CRD - Competition TSB Low Grade Waste Heat Driven CHP Combined with Ejector System for Heating, Cooling and Power Generation in the Drink Supply Chain 18 Adapting cutting-edge technologies - IDP11 -Competition TSB Combined Water ProductionDew Point Cooling Unit for Low Carbon Vehicles 19 Improving food supply chain efficiency CRD - Competition TSB EnviroSave - Environmentally Cost Saving Efficient and Hygienic Humidity and Temperature Control System for Safe Storage of Meat and Poultry Products 20 TESSe2b H2020-EeB-2015 Thermal Energy Storage Systems for Energy Efficient Buildings. An integrated solution for residential building energy storage by solar and geothermal resources 21 VULCANO H2020-Spire-2016 Novel integrated refurbishment solution as key path towards creating eco=friendly & competetive furnaces Our company provides PCM technologies and applications from initial concept, research and development stages to production and distribution from our office and manufacturing facility in the UK and our Licensed outlets around the world which offer bespoke products to meet unique customer requirements. In addition to our technical expertise, we offer (under the PlusICE branding) what we believe to be the most comprehensive range of PCM solutions currently available commercially (-100°C (-148°F) to +885°C (+1,625°F)). For more than a decade and a half we have been involved in the development of Phase Change Materials (PCMs). With unrivalled experience in designing and advising on PCM installations and applications, we continue to push the boundaries in PCM usage for the benefit of our ever growing customer base. We are looking for Research & other Manufacturing partners who can utilise our experiences and products as part of their business for the development of new ideas / products. We will be not only providing the technical support but also via our Global sales outlets offers to take the product to the market.

# University of Bath

#### **Organisation Name**

United Kingdom
Bath
Claverton Down
www.bath.ac.uk/ris
University

Person	
Name	Izaro Lopez Garcia
Email	i.lopezgarcia@bath.ac.uk
Job Position	Industrial Partnerships Manager



#### **Organisation Details**

Ranked in the top ten of UK universities in 2015 by The Guardian, The Times and The Sunday Times, and The Complete University Guide, named University of the Year in 2011/12, and first for student satisfaction in 2013 and 2014, The University of Bath is one of the leading research intensive universities in the United Kingdom. This was augmented by an excellent performance in the 2014 Research Excellence Framework exercise, which assesses the quality of research in UK Higher Education Institution, with 87% of research deemed world-leading/internationally excellent. The University's institutional research grant portfolio is approximately £122M.

Extremely successful for a university of its age, it ranked 11th in the 2013 QS World University Rankings list "Top 50 Under 50", and was the 'Best Campus University in Britain' in The Times and The Sunday Times Good University Guide 2014, and 4th in the Guardian 2015 University Guide.

The University boasts a robust infrastructure to support the development of research and maximise its value and impact. There are a number of internal funding schemes to enable impact from research and to support international collaboration. The central Research Support and Funding office is very experienced and fully compliant with the financial administration of European projects, and currently holds over £14M (approx €19M) in funding. Bath has extensive experience in managing European projects, both as partner and coordinator. Current projects for which Bath is Coordinator include Cooperation projects in Transport, Space, Environment, Energy Efficient Buildings, three Marie Curie Initial Training Networks, and most recently Horizon 2020 projects in Climate Action, Transport and NMP.