

International Brokerage Event  
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Association for Sustainable Innovative Development in  
Economics, Environment and Society (ASIDEES)

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Proposal for call topic:

“Smart, Sustainable and Resilient Cities” and “Energy  
Efficient Buildings”

# Description of the Organization



ASIDEES is Austrian NGO/NPO with the vision, capacity and experience to apply cutting-edge digital transformation solutions to foster novel information services and controls for management of urban change, Smart Sustainable and Resilient Cities, Smart Energy Efficient Buildings, Energy Systems and Consumers, Mobility for Growth, Automated Road Transport, Environment, Water and Waste.

The association takes part in implementation of relevant Horizon 2020 and ENSUF and other projects in Europe contributing into development of complex application models of urban areas and advanced information services for stakeholders.

ASIDEES is active member of existing European initiatives: Digital agenda and EIP for Smart Cities and Communities and organizer of new European workshop series “Smart Cities in Practice” in Vienna. It coordinates and implements H2020 project “Smart Urbana” for 5 cities in 5 European countries Greece, Moldova, Portugal, Romania, Spain by developing and applying custom urban cyber-physical models by ISO 37120, other relevant international standards enabling custom digital transformation for smart governance and management.

# Research interests



- ASIDEES researches and develops custom models of metropolitan areas and urban processes as complex cyber-physical systems to support Smart City Monitor applications for concrete municipalities and utility providers.
- ASIDEES interested in dynamic mix of research, development, innovation and business topics offering project consortiums advanced yet cost effective development and knowledge ecosystem that address complex nexus of challenges of our time.
- Its strong multidisciplinary team of experienced scientists and developers offers novel approaches to sustainable development by innovative methods and digital transformation solutions in transnational collaboration.
- The team is comprised of high quality professionals in information technology, systems and data sciences, artificial intelligence, mathematics, software development, web programming, design, industrial engineering urban modelling and advanced training.

# CALL TOPIC: “Smart, Sustainable and Resilient Cities”, “Energy Efficient Buildings”

**PROJECT: Enabling urban communities with smart digital transformation ICT and business models for sustainable life**



## Objectives:

- Develop advanced ICT platform enabling digital transformation of big data streams from diverse urban processes and open data sources into rich set of information services for all stakeholders: citizens, tourists, local businesses, utility service providers and administration for effective local governance
- Empower municipalities with custom solutions providing transparency of local processes, holistic vision of its sustainability, easy linking to data and systems
- Significantly cut non-productive routine activities and costs related to data processing and reporting at municipalities and foster smart governance
- Develop generic open model of metropolitan area as complex cyber-physical system presenting typical urban infrastructures as interlinked smart objects
- Introduce methods and algorithms defining city as System of Systems and its sustainability, adaptive controls in real time by processing multiple big data streams to enable holistic views of the system and its components by multiple stakeholders accordingly to their roles and data access authorization

# CALL TOPIC: “Smart, Sustainable and Resilient Cities”, “Energy Efficient Buildings”

**PROJECT: Enabling urban communities with smart digital transformation ICT and business models for sustainable life**



## Expected results

- Custom city digital transformation engines linked to local open data sources and heterogeneous systems providing holistic vision of urban processes
- Diverse new trustworthy civic information services and mobile apps for citizens and businesses online in real time
- Transparency of local governance and quality of life
- Compliance with major international standards for Sustainable Development of Communities (ISO 37120, 37101, 37150, 37151, 37152, etc)
- Unified generic model of metropolitan areas open for customization to implementation of specific requirements in various Smart City Projects
- Support of use cases including energy, water, waste, transportation, environment, education, tourism, circular economy, safety and resilience
- New business models and growth options based on digital economy
- Implementation and demonstration of pilots in cities

# Consortium - profile of known partners *(if any)*



No	Partner Name	Type	Country	Role in the Project
01	ASIDEES	RTD	Austria	Generic city model and prototyping
02	Jelgava City Council	City	Latvia	Piloting and business models
03	VOLVI Municipality	City	Greece	Piloting and business models
04	GOLEM IMS GMBH	SME	Austria	Digital transformation platform, smart assets modules, integration
05				
06				
07				
08				

# Consortium - required partners



No	Expertise	Type	Country	Role in the project
01	Project management	RTD		Coordination, project management
02	Water company	SME		Providing data and receiving real time services, evaluation and validation
03	Waste collector and processor	IND		Providing data and receiving real time services, evaluation and validation
04	Telecom provider	IND		LoRaWan WI-Fi and other networks
05	Energy provider	IND		Providing data and receiving real time services, evaluation and validation
06	Bank	IND		Implementing novel financial services for citizens in digital economy
07	Dissemination and communications	SME		Dissemination, communications, PR

## **Elena Petrova**

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