BEIA Consult International
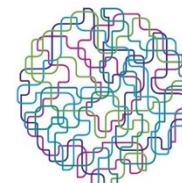# *George SUCIU*
George.Suciu@beia.ro

This presentation is for

☐ **Workshop 1** Big Data
☐ **Workshop 3** Photonics and Micro-and-Nanoelectronics
☐ **Workshop 2** Robotics
 X **Workshop 4** internet of Things

Description of the Organization

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Company Name	Beia Consult International SRL
General Manager	George SUCIU Sr. (george.suciu@beia.ro)
Business Field	• Trading and distribution of IT & telecommunications equipment • National and EU R&D Projects (20 on-going, 15 finished) • Telecommunications, Telemetry (M2M/IoT) & IT turn-key projects • Cloud computing and Big Data Search based applications
Team	•Total of 40 employees: 20 engineers, 13 R&D employees (2 Ph.Ds, 1 Ph.D candidate, 5 senior researchers, and 5 junior researchers), 7 management personnel
Headquarters	12, Poiana Narciselor st., sect.1, Bucharest
Tel / Fax	Tel: +40 21 332 3005 Fax: +40 21 332 3006
Home Page	*www.beia.ro, www.beiaro.eu*
Certification	ISO 9002/2000; ISO 14001;ISO27000
Established	1991, family owned (George Suciu Sr. Founder, Jr. Co-owner)

Description of the your research interest

- ➢ Projects financed from H2020 Programme
  - ➢ **SWITCH:** Software Workbench for Interactive, Time Critical and Highly self-adaptive Cloud applications (ICT-9)
  - ➢ **Power2SME:** Cloud Platform for intelligent energy use by SMES
  - ➢ **Speech2Platform S2P:** Smart, natural language semantic analyser platform to process oriented back-ends
  - ➢ **SoMeDi**: Social Media and Digital Interaction
  - ➢ **ESTABLISH**: Environmental Sensing To Act for a Better quality of LIfe: Smart Health
  - ➢ **SeaForest**: Intelligent forest protection monitoring system based on wireless sensor network
  - ➢ *ODSI: On-demand Secure Isolation (positive review)*
  - ➢ *3DSafeguard: Global Situational Awareness in Rescue, Calamity and Inspection Operations (positive review)*
  - ➢ *ALADIN: Airports Landside and Air-land Side Attacks' Detection and Prevention (positive review)*
  - ➢ *VIRTUOSE: Virtualized Video Services (under review)*
  - ➢ *HARISMO: Hardware real-time industrial process simulator based on PROFIBUS/PROFINET communication (under review)*
  - ➢ *CitiSim: Smart City 3D Simulation and Monitoring Platform (under review)*
  - ➢ *EmoSpaces: Enhanced Affective Wellbeing based on Emotion Technologies for adapting IoT spaces (under review)*
- ➢ Projects financed from FP7 Programme
  - ➢ **eWALL** : Electronic Wall for Active Long Living
  - ➢ **ACCELERATE:** A Platform for the Acceleration of go-to market in the ICT industry
  - ➢ **InCloudInG**: Inter-cloud identity governance
  - ➢ **WATER-M:** Unified Intelligent WATER Management
  - ➢ **ASUA**: Advanced Sensing for Urban Automation
- ➢ Projects financed from the "National Plan for Research, Development and Innovation"
  - ➢ TORCH-IT: Development of an intelligent system support to reduce the risk of congenital infections (Bridge)
  - ➢ SICIAD: Intelligent communications system based on integrated infrastructure, with dynamic display and alerting (Bridge)
  - ➢ SA-TERRA: Sistem de Automatizare si Telemetrie Eficient energetic pentru managementul ResurseloR in Agricultura de precizie (Bridge)
  - ➢ MobiWay: Mobility Beyond Individualism: an Integrated Platform for Intelligent Transportation Systems of Tomorrow
  - ➢ EV-BAT: Redox battery with fast charging capacity as a main source of energy for electric autovehicles
  - ➢ CarbaDetect: Imuno-biosensors for fast detection of carbamic pesticide residues (carbaryl, carbendazim) in horticultural products
  - ➢ SARAT-IWSN : Scalable Radio Transceiver for Instrumental Wireless Sensor Networks
  - ➢ E-STAR: STAR for everyone in ESA frame program (under review)
  - ➢ POC – 5C: Cloud computing customer communication center

IoT-03-2017 (RIA) R&I on IoT integration and platforms TITLE of the PROJECT IDEA : IoT/M2M telemetry for smart urban farming using renewable energy

- Objectives:
  - to develop a telemetry system that can operate in severe conditions (radiation, corrosive, humidity, extreme climate, floods, underground, underwater) with embedded intelligence for actuating and smart behavior
  - to advance the security and resilience of smart M2M communications in water-environments, especially where no GSM coverage is available
  - to improve methods and architectures for energy efficiency of IoT telemetry with low-power sensors in remote locations by using only a small size solar panel
- Expected results
  - The project will develop a telemetry system with self-diagnosis and auto-configuration functionalities for smart farming using renewable energy sources for powering the system
  - Evolution of current M2M solution towards user-friendly IoT applications using existing platforms (FIWARE, etc.)

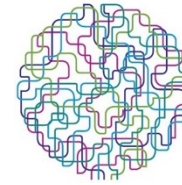# Consortium - profile of known partners *(if any)*
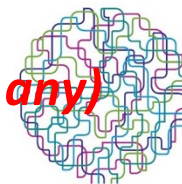
No	Partner Name	Type	Country	Role in the Project
01	BEIA	SME	Romania	Development, integration and proof-of-concept prototyping work
02	ICPE-CA	RTD	Romania	Development and research of low power sensors and actuators
03	UPB	UNI	Romania	Development and research of models and techniques for communication components
04	VTT	RTD	Finland	Research of communication protocols
05	Fraunhofer IPB	RTD	Germany	Development and research of materials for energy efficient structures

Consortium - required partners
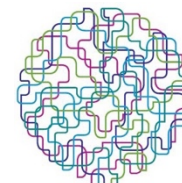
No	Expertise	Type	Country	Role in the project
01	Under-water/ground communication expertise	RTD / UNI	ANY	Design and development of ultra-low power protocols for wireless underwater communication
02	Sensors expertise	SME / IND	ANY	Design and development of micro- and miniaturized sensor systems
03	IoT security and privacy expertise	ANY	ANY	Development of end-to-end security solution
04	Cloud computing	ANY	ANY	Migration to existing platforms (FIWARE)
05				
06				
07				
08				

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Recommendations
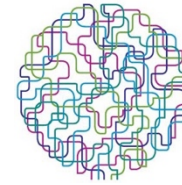
- The presentation **has to** last up to **4 minutes (maximum)**

- Do not overload your slides

- Provide weblinks to additional material

- Slides should be in English

- Do not use videos etc. – they might be not supported by the Infoday IT system

- Send your presentation in PDF or PPTX format to: ICT@turkeyinH2020.eu **before November 21, 2016.**