



Health Partnering Day 2016

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session Health-related topics:
ICT, SSH, Food Security



M2M/IoT Telemetry system for worker protection in severe operating environments

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Project idea/ Company expertise



Expertise and skills

- One of the main suppliers for IT & telecommunication equipment and ICT business services in Romania, certified ISO 9002/2000; ISO 14001; ISO27000
- Experience of over 25 years, in more than 10000 commercial projects, over 40 employees, doing R&D in Telemetry, Sensors, M2M / IoT, Cloud Computing, Mobile Applications
- BEIA is also involved in FP7 / Eureka / H2020 research projects in ITC domain, for more details please have a look on our R&D projects website : www.beiaro.eu

Proposal Objectives

- The project will develop a telemetry system with self-diagnosis and auto-configuration functionalities for the telemonitoring of workers in severe operating environments (subject to radiation, corrosive, humidity, extreme climate, floods, underground, underwater).
- The proposal aims to advance the technology for M2M communications in water-environments, especially where no GSM coverage is available and to improve the energy efficiency for telemetry with low-power sensors in remote locations by using only a small size solar panel.



Project idea/ Company expertise



Existing partnership

- UPB (University Politehnica of Bucharest) / UNI / Romania / Development and research of models and techniques for communication components
- ICPE-CA (National Institute for R&D in Electrical Engineering) / RES / Romania / Development and research of materials for energy efficient structures

Requirements for additional partner(s)

- High radiation environment expertise / IND, RTD, UNI, SME / ANY country / Design and development of environmental monitoring and risk management applications
- Under-water communication expertise / IND, RTD, UNI, SME / ANY country / Design and development of ultra-low power protocols for wireless under-water communications
- End-user organization for validation

Involvement in previous / ongoing projects in the area

- NMSDMON: "Network Management System Development and Monitoring" is a platform offering several services to operators, such as data acquisition, asset management, work force management, provisioning, infrastructure work management
- FAIR: "Friendly Application for Interactive Receiver" is a tool to provide the mobile user with reviews, ratings and detailed online information services. We achieve this objective by analyzing multimedia data (text, voice, picture, video) and mining online social networks with Exalead CloudView platform
- COMMCENTER: Developing of a "cloud communication center" by integrating a call/contact center platform with unified communication technology, CRM system, "text-to-speech" and "automatic speech recognition" solutions in different languages (including Romanian)
- TERRA-RO: Informatics system for real time analysis of risk factors for environment and public health

Possible topic/topics

ICT in Health

Health / Personalized Medicine

Keywords

IoT, Mobile Health Applications, Telediagnosis,
M2M, Sensors, Cloud Communication, Big Data,
Real Time/Time Critical and Search-Based
Applications (SBA)



Contact details



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