



**April 25, 2017**

**IOT 03-2017 Research Proposal submitted**

April 25 a research proposal was submitted to the ICT H2020 work program: R&I on IoT integration and platforms, Call IoT 03-2017

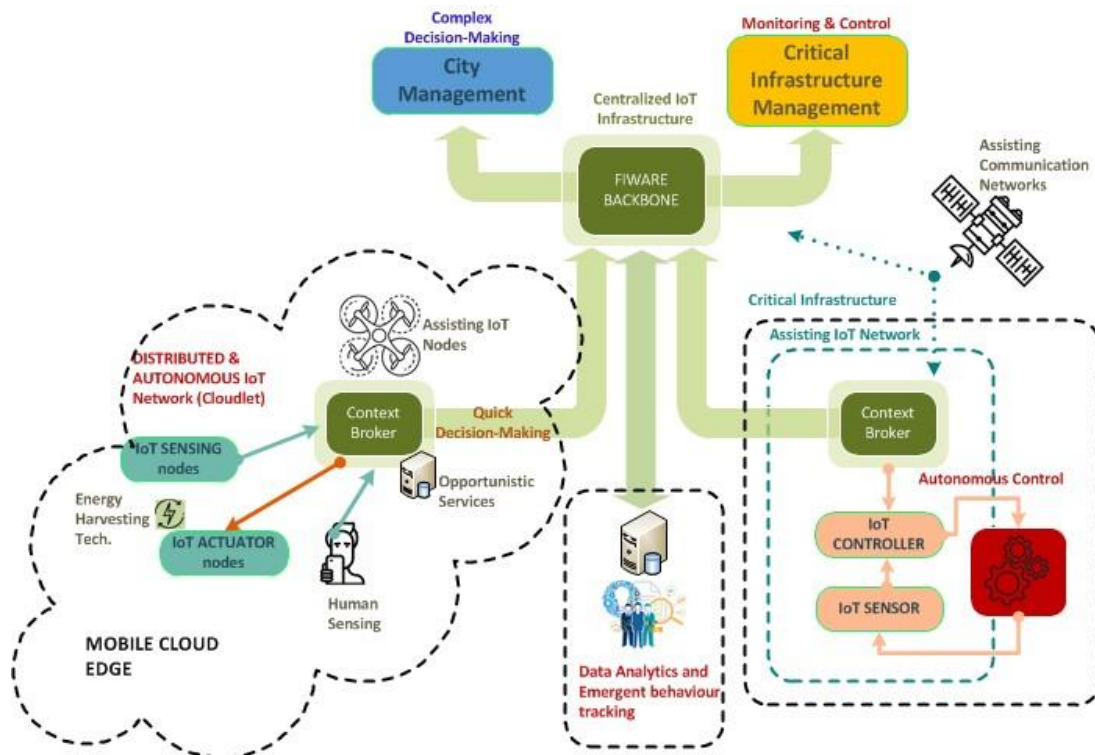
**Participants:**

- Uni Cantabria, Spain, Coordinator (member Hermes Partnership)
- CSEM, Switzerland (member Hermes Partnership)
- Télécom SudParis (member Hermes Partnership)
- Delft University of Technology, The Netherlands
- City of Santander, Spain
- Viego, Spain
- Delft Dynamics B.V., The Netherlands
- L-Up, France. (Administrative Coordinator)

**Proposal Abstract TRANSACT:**

TRANSACT aims to develop an open IoT framework based on a distributed and scalable IoT architecture for disaster management and monitoring of critical infrastructures that is agile, robust, reliable and smart. This integrated framework, up to TRL5, will be developed by introducing missing services and intelligence to an existing IoT platform (FIWARE) with innovations and new capabilities such as real-time actuation, QoS, energy harvesting and awareness, data analytics, trusted ad-hoc on-field deployments for emergency situations and management of critical infrastructures. A proof of concept of the IoT framework integrating the FIWARE technology of the consortium partners with (ad-hoc) additional devices/systems/capabilities will be implemented and demonstrated in the city of SANTANDER- a leading smart city in Europe.

TRANSACT consortium consists of 2 universities (UNICAN, TUD), 2 R&D institute (CSEM, IMT), 1 industrial (VIESGO), 1 city (SANTANDER) and 2 SMEs (DD and L-UP). UNICAN, CSEM, TUD and IMT have a strong track record in IoT research, testing, prototyping, application development and training. The industrial partners are key to the success of TRANSACT: VIESGO (Utility) covers the integration and evaluation of developed TRANSACT framework within its critical infrastructure; SANTANDER (smart city/end user) focuses on integration, implementation and regulation of the smart city concept; DD develops and builds robot drone systems (sensors, actuators and carry payloads) to provide innovative security solutions for drones and third parties and L-UP ensuring EU project management and dissemination. The developed framework and tools enhance FIWARE and drastically extend its impact, allowing for the realization of next generation IoT applications capable of leveraging a multitude of smart IoT devices in support of disaster management and critical operations in next-generation smart cities. A total EC grant of 3 346 642,50€ is requested for the 36-month project.



*The TRANSACT project concept in a picture*

### Next TC SmartBAN meeting

The next TC SmartBAN meeting will be at May 16 at ETSI, Sofia Antipolis, France.  
More information: contact Ad de Ridder.

### SmartBAN technical event

As a follow up of the workshop Hermes Partnership organized in conjunction to BODYNETS in 2012, the Technical Committee SmartBAN (TC SmartBAN) has been established in the European Technical Standardization Institute ETSI.

Now the work in the TC is in that stage an technical event will be organized for discussions with potential users and applicants of SmartBAN technology. The event will be organized at the ETSI premises in Sofia Antipolis (Nice), France.

Basically the event is scheduled for end 2017, early 2018.

### Hermes Partnership related publications

From the hand of Harri Viittala, Lorenzo Mucchi, Matti Hämäläinen and Tuomas Paso (all TC SmartBAN) the following paper has been approved for publication in IEEE Explore:

*ETSI SmartBAN System Performance and Coexistence Verification for Healthcare*

More information: Matti Hämäläinen, email: [matti.hamalainen@oulu.fi](mailto:matti.hamalainen@oulu.fi)

### Workshop THz research, technologies and applications postponed.

## Hermes Partnership Newsletter May 2017



This workshop, to be organized together with IMEC-Academy, originally scheduled for May 18, unfortunately has been postponed due to insufficient participant contributions. Now the workshop will be held at a later moment, probably in conjunction to a scientific workshop.

### **Horizon 2020 Work Programs 2018 and further**

The concept versions of the H2020 Work programs 2018 and further will become available first half of May. The work programs and related challenges will be discussed in a next Hermes meeting to be organized second half September 2017. Links to the Work Programs will be put on the Hermes website.

### **Upcoming Hermes Partnership Plenary Meeting**

The next plenary Hermes meeting will be held second half of September 2017, early October 2017. Hermes Partners are requested to provide agenda points.