



BUILDING AN IoT  
OPEN INNOVATION  
ECOSYSTEM FOR  
CONNECTED  
SMART OBJECTS

## **itrust consulting and University of Luxembourg build Security for IoT to the benefit of Smart Mobility, Smart Buildings and Smart Cities**

**Luxembourg, Luxembourg — 26 of February 2016** — itrust consulting sàrl and the University of Luxembourg today announced they have partnered with a consortium of leading European research organisations, industrial and government technology suppliers, manufacturers, and representatives from multiple European cities to address the complexity of developing new applications and services that exploit today's world where everything is increasingly connected to the Internet. Supported by the European Commission, the bloTope project is investing more than €7.8 million to develop a new platform to enable systems utilising Internet of Things (IoT) concepts to be quickly assembled through technology innovations that allow systems to start small and become increasingly larger and more advanced without the need for costly re-design and re-development. The University of Luxembourg and itrust consulting will work in close cooperation contributing to the work package 3: *Building a Secure, Open & Standardised SoS Platform for IoT*. The University of Luxembourg will contribute to the project with its extensive know-how in IoT interoperability and context-aware computing, while itrust consulting will contribute with its cryptology and security expertise.

*"A key aspect that has been strongly stressed, both during the project kick-off meeting (Helsinki) and the ICT30 kick-off meeting (Brussels), is that there is still a lack of appropriate security and privacy frameworks,"* said Dr. Sylvain Kubler, University of Luxembourg, CTO of bloTope project, *"to cope with the IoT peculiarities and let customers having full end-to-end control of their data and ownership, while enabling them to make money out of it (e.g., using digital currency)"*.

*"It will be our challenge to specify security protocols and in particular to integrate cryptography, create payment functions, access token or privacy protection information and finally implement such Everything-as-a-Service building blocks",* proclaims Dr Carlo Harpes, Managing director of itrust consulting.

*"The bloTope project brings together Europe's leading experts in system software technologies, smart products, man/machine interfaces, knowledge management and context awareness that will develop new and creative approaches for implementing a Cloud based platform for providing the core services needed to deliver today's and future IoT systems for government, industry and consumers,"* said Professor Kary Främling, from Aalto University, bloTope project coordinator.

Professor Yves Le Traon from the University of Luxembourg adds: *"IoT solutions, implemented by the bloTope platform, brings solutions to Smart Mobility, Smart Buildings, Smart Air Quality and Smart Cities across Europe."*

The core functionalities of the bloTope platform for IoT will utilise the latest concepts of Everything-as-a-Service and Cloud computing to provide technologies that in a standardised and open manner, and without programming, enable the publication, consumption and composition of many types of information sources and services for connected smart devices that may be linked to many different types of systems. The bloTope platform supports advanced modelling of user situations and inference analysis to support compatibility among distinctly different IoT applications and services that are targeting different domains (e.g. government, industry). The platform will be able to discover, predict, validate and supply relevant information about the current situations of users and devices enabling IoT applications to customise and adapt services for users.

About University of Luxembourg: The Interdisciplinary Centre for Security, Reliability and Trust (SnT), launched in 2009 by the University of Luxembourg, aims to become a European centre of excellence and innovation for secure, reliable, and trustworthy ICT systems and services. In bloTope, SnT will conduct activities on context-aware security and privacy, micro-billing for IoT, as well as Big Data.

About itrust consulting: itrust consulting is a company of Luxembourg, specialized in Information Security. The SME consults its customers to protect their information against divulgation, manipulations and unavailability. itrust consulting believes that the security should be ensured at every level of the infrastructure. That is the reason why the company invests in research and development projects in multiple areas such as network security, protecting Critical Infrastructures, consulting services for micro-billing and e-payment companies, risk management, etc.

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