



# International Workshop: Connected Objects in Defence and Security

**Date:** Wednesday, 6<sup>th</sup> September 2017, 09:00-17:00

**Location:** armasuisse Science and Technology  
GHH, L503-504  
Feuerwerkerstrasse 39, CH-3602 Thun

## Registration

There is no registration fee.

The workshop is open to participants from academia, industry and government. Participants are required to register by **23<sup>rd</sup> August 2017** by sending an Email to Mrs. Daniela Lohri - [daniela.lohri@armasuisse.ch](mailto:daniela.lohri@armasuisse.ch) - with the subject "Connected 2017".

## Organizers

armasuisse Science and Technology is the research and technology agency of the Federal Department of Defence, Civil Protection and Sport. The agency conducts a multitude of research programs to advance knowledge and create innovative technologies that address the current challenges of the armed forces ([www.sicherheitsforschung.ch](http://www.sicherheitsforschung.ch)). This workshop is a joint initiative between the Technology Foresight program led by Dr. Quentin Ladetto and the Cyberspace and Information program led by Dr. Vincent Lenders.





# PROGRAM

- 09:00 Introduction**  
Dr. Quentin Ladetto & Dr. Vincent Lenders, armasuisse S+T
- 09:15 Military Applications of Internet of Things**  
Dr. Konrad Wrona, NATO Communications and Information Agency
- 09:45 When Security and Defense Meet the Internet of Things**  
Prof. Thomas Gauthier, HEG-GE & EMLYON Business School
- 10:15 The Swiss Data Science Center - A National Center for Data Science**  
Dr. Olivier Verscheure, Swiss Data Science Center (ETH Zurich & EPFL)
- 10:45 Coffee & Posters**
- 11:15 Building a Global Crowd Sourced Internet of Things Data Network in 6 Months**  
Mr. Wienke Giezman, The Things Network
- 11:45 LoRa: Low-Power Wide-Area Technology**  
Mr. Didier Helal, Orbiwise SA
- 12:15 Questions - Discussion**
- 12:30 Lunch - Posters - Networking**
- 13:45 From Conventional RF Monitoring to Open and Big Spectrum Data: Challenges and Opportunities**  
Prof. Domenico Giustiniano, IMDEA Networks Institute
- 14:15 Deploying IoT Applications in a Fog of Connected Objects**  
Prof. Antonio Brogi, University of Pisa
- 14:45 Coffee & Posters**
- 15:00 Reliable Network Forensics by Credal Networks**  
Dr. Alessandro Antonucci, IDSIA (Istituto "Dalle Molle" di Studi sull'Intelligenza Artificiale)
- 15:30 Where a Blockchain Makes Sense and Blockchain for Defense in Depth**  
Dr. Arthur Gervais, ETH Zürich (ETHZ)
- 16:00 Quantum Technologies and the Security of Connected Objects**  
Dr. Nicolas Brunner & Dr. Grégoire Ribordy, University of Geneva & ID Quantique SA
- 16:30 Discussion & Conclusions**  
Dr. Quentin Ladetto & Dr. Vincent Lenders, armasuisse S+T
- 16:45 End of the Workshop**

Applications

Communication

Deployment Experience

Security

# POSTERS

## Secure health monitoring solutions

Altran AG

## Unisys Stealth

Unisys AG

## TAKE - Tactical Ad-hoc Network Emulation

HEIA-FR & armasuisse S+T

## A point cloud based UHF-VHF channel model for connected tactical objects

HEIA-FR & armasuisse S+T

## Automated BI: IoT Patent Landscape

Centredoc

## Electrosense: Open and Big Spectrum Data

IMDEA Networks

## Energy efficient Smart Sensing with Self-sustaining Connected devices

ETHZ - Integrated Systems Laboratory

