IoIT: Towards the Internet of Interactive Things
Energy-Efficient Interactive Cyber-Physical Systems

Interconnect billions of devices using Internet technologies
• Get data from the physical world
• Let users interact with the physical world

Objectives:
• Energy-efficient protocols for short-range capillary IoT networks (QoS, routing)
• Scalable protocols for long-range cellular IoT networks (access methods, scalability)
• Novel means for user interaction with Things (radio backscatter)

People:
K. Altisen, Verimag-Synchrone  C. Coutrix, LIG—EHCI
A. Duda, LIG-Drakkar  M. Maman, CEA-LETI
IoT: Selected Results

Lifetime in Wireless Networks for IoT:
- IEEE 802.15.4e, BLE, IEEE 802.11, 802.11ah, LoRa, and SIGFOX

Geo-Centric IoT Communications:
- dissemination of data messages to all hosts in a given region.

Radio-based Interaction Techniques

WalT: a Reproducible Testbed for Reproducible IoT Experiments

33 publications, 5 submitted H2020 (2 still to evaluate), 1 FEDER