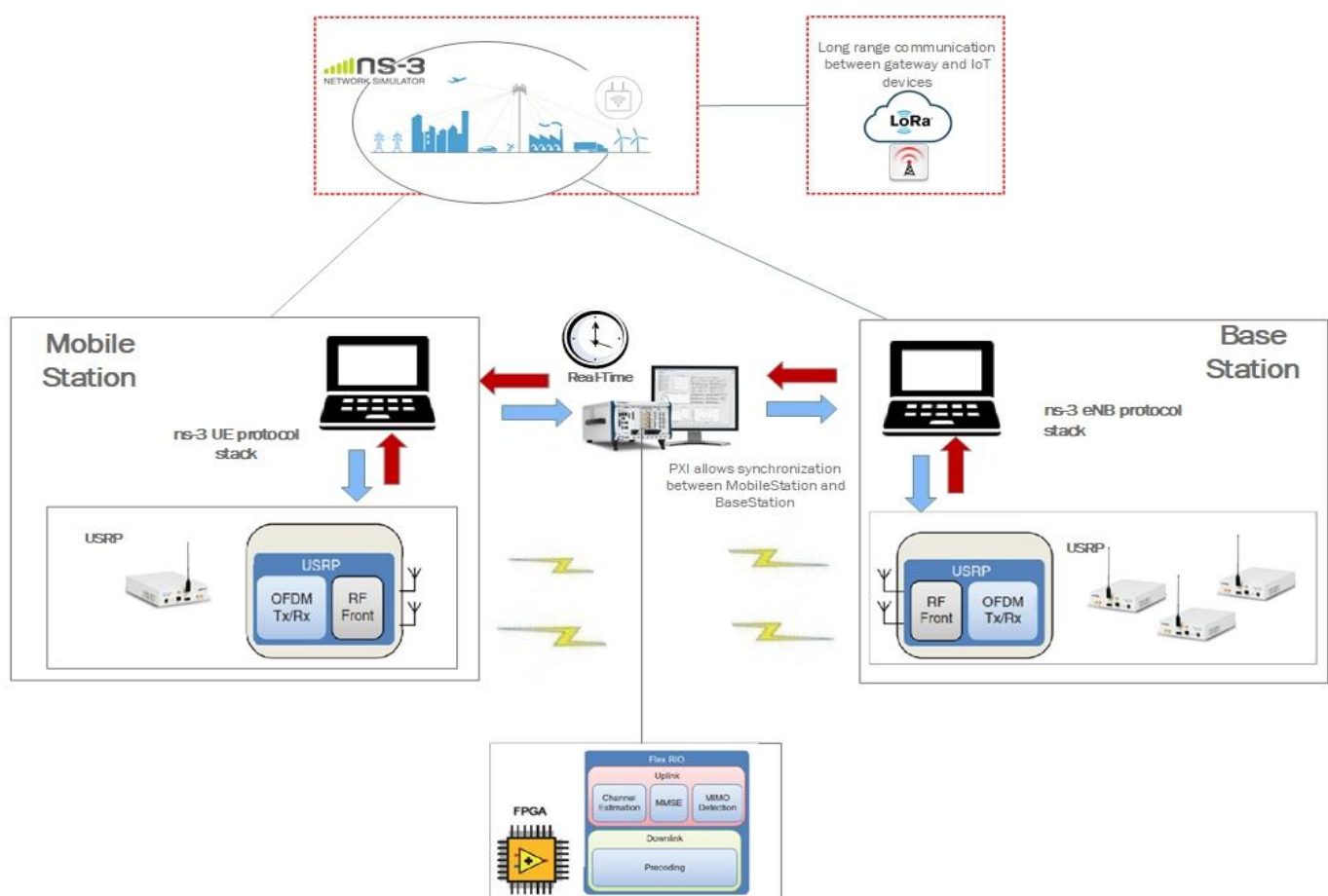


KIOS TESTBEDS FOR CRITICAL INFRASTRUCTURE SYSTEMS

Telecommunications Testbed

Telecommunication networks are a critical force for growth and innovation across multiple industries. The KIOS CoE will address fundamental issues regarding the modeling, analysis, and design of wired and wireless telecommunication systems, focusing on applications such as wireless sensor networks and intelligent transportation networks.



ARCHITECTURE

- **Software defined radio** devices for realistic representation of the Physical layer
- **LoRa wide-area network** deployment consisting of multiple gateways and low-powered sensors
- **Virtual network simulator** of large-scale telecommunication systems

CAPABILITIES

- Evaluation of signal processing techniques and communication protocols
- Simulate different network deployment scenarios and topologies
- Investigate next-generation telecommunication systems

IMPACT

- High-quality, cutting-edge research
- Effectively address new demand areas (machine-to-machine communications, Internet of Things)
- Provide a platform for industry to test and evaluate prototype telecommunication systems and protocols



Imperial College
London



This project has received funding from the European Union's Horizon 2020 research and innovation programme under grant agreement No 739551 (KIOS CoE).

This project has received funding from the Government of the Republic of Cyprus through the Directorate General for European Programmes, Coordination and Development. Complimentary funding for the KIOS CoE is also provided by the University of Cyprus.