



# eltic-Plus<sup>+</sup>

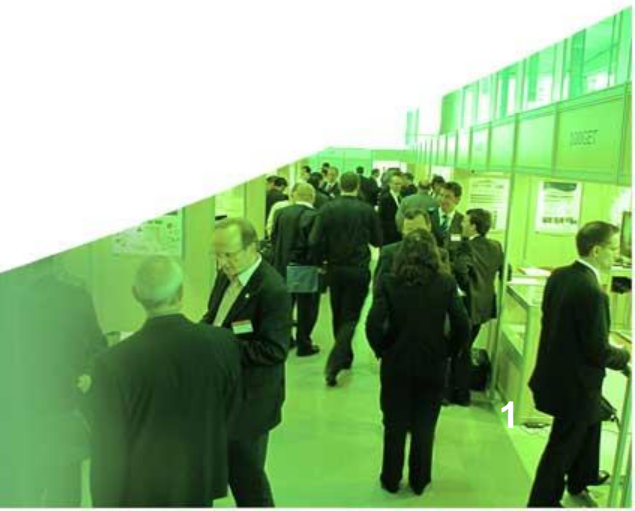
Smart Connected World



Proposers Day  
7 May 2014, Oulu

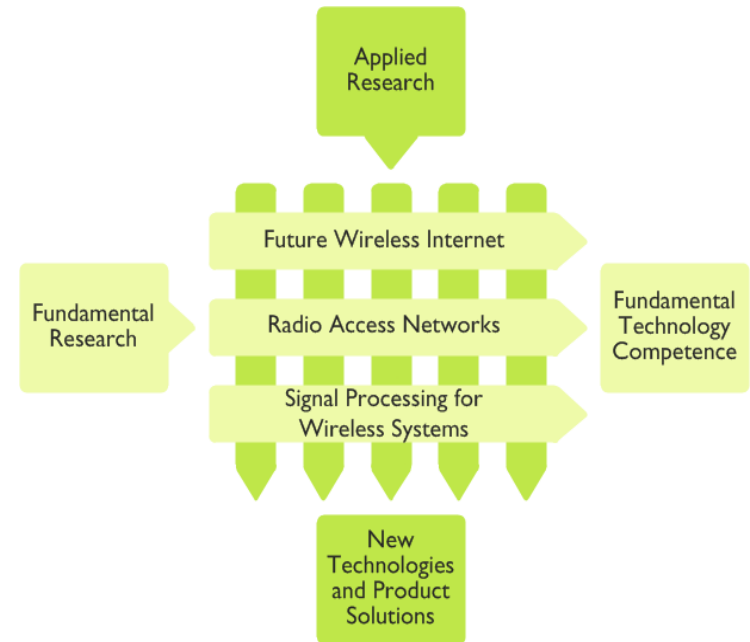
**ROBust INterworking Heterogeneous networks  
for brOadband access, smart-grid cOntrol, and  
Dependability  
(ROBIN-HOOD)**

*Nandana Rajatheva  
rrajathe@ee.oulu.fi*

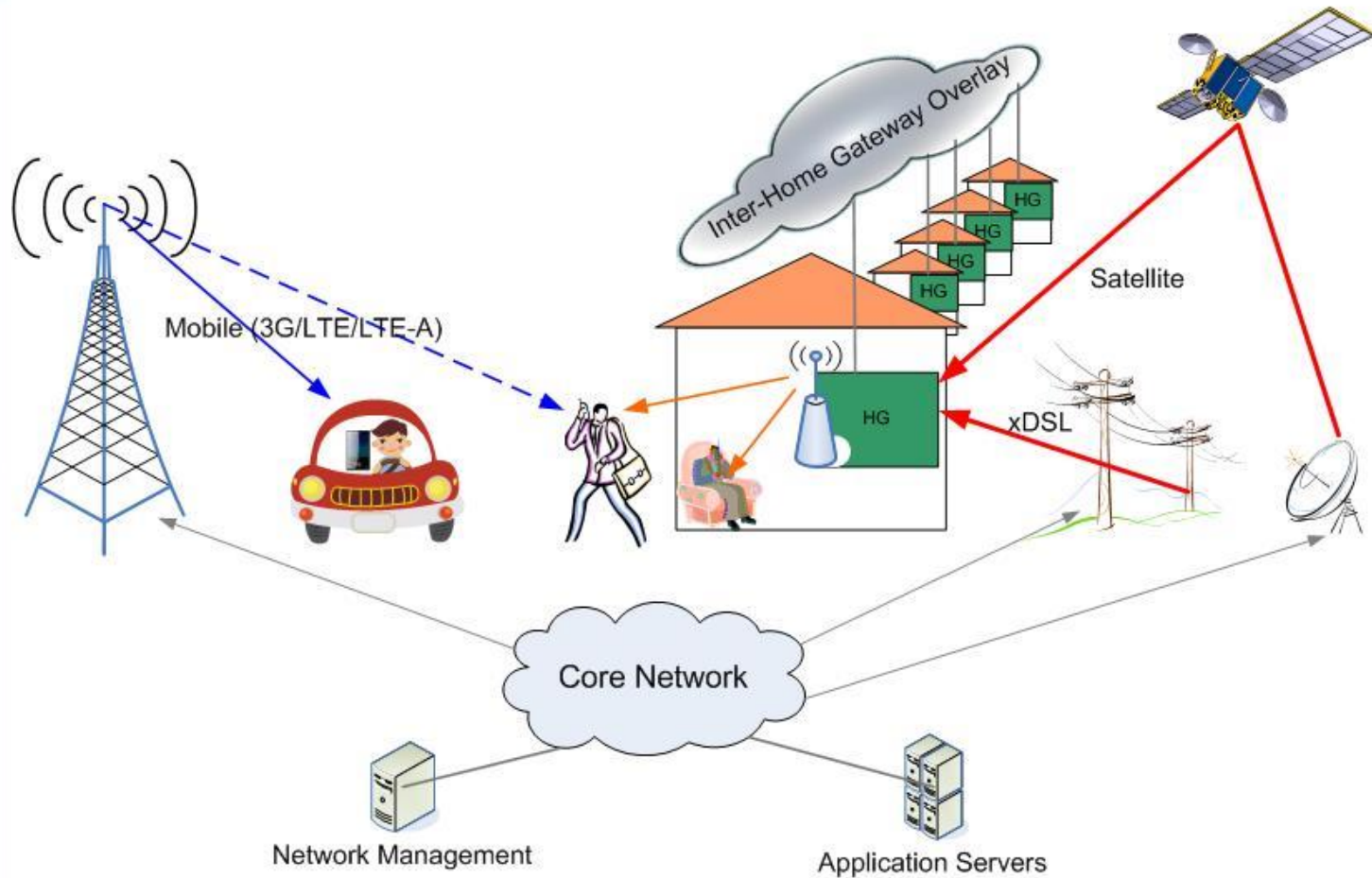


- Research and teaching staff: ~ 120
- Total funding ~ 8 M€ / year:
  - 75% external research funding
  - 25% university budget funding
- Research organised under the Centre for Wireless Communications (CWC)
- An international research and working environment
  - High-quality theses and dissertations
  - Peer-reviewed publications
  - Research results to be utilised by research partners in their R&D
  - IPRs
- Master- and doctoral-level training in Wireless Communications Engineering

## Research Division



# Proposal Introduction (1)



# Proposal Introduction (2)

- Basic idea is the exploitation of scattered wireless local access networks (gateways) to integrate mobile cellular networks
  - Beyond integration of public hot-spots
  - Capacity enhancement
  - Coverage enhancement (incl. indoor/outdoor)
- Moreover, the proposed heterogeneous system also provides
  - Dependable communication infrastructure (disaster relief)
  - Supporting backbone for smart grids control
- Gateways (e.g., WLAN, etc.)
  - Scattered
  - Connected by fibre, satellite, broadband wireless, etc.

- University of Oulu, **Finland** (University), UOULU
- NOTAVA, **Finland** (SME) *to be confirmed*
- MONTIMAGE, **France** (Security Company) *to be confirmed*
- ARGELA- **Turkey** (Telecom Operator) *to be confirmed*

*Looking for both **Academic** and **Industry** Partners*

# Contact Info

For more information and for interest to participate please contact:



Name and affiliation Adj. Prof. Nandana  
Rajatheva

University of Oulu

E-Mail: [rrajathe@ee.oulu.fi](mailto:rrajathe@ee.oulu.fi)

Telephone: +358451059981

Postal Address

Web :<http://www.ee.oulu.fi/~rrajathe/>