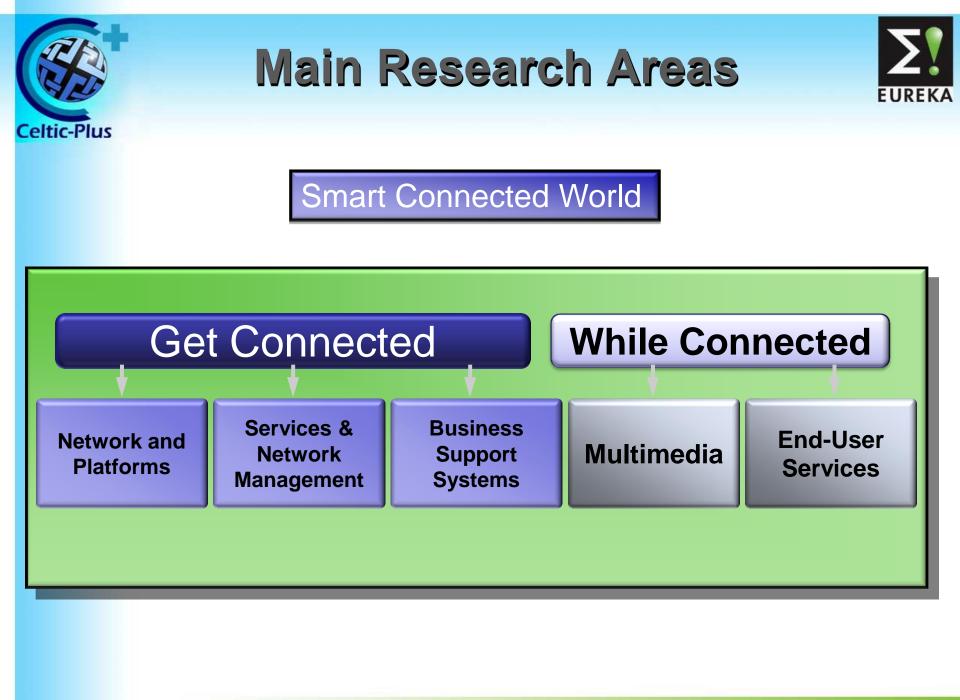
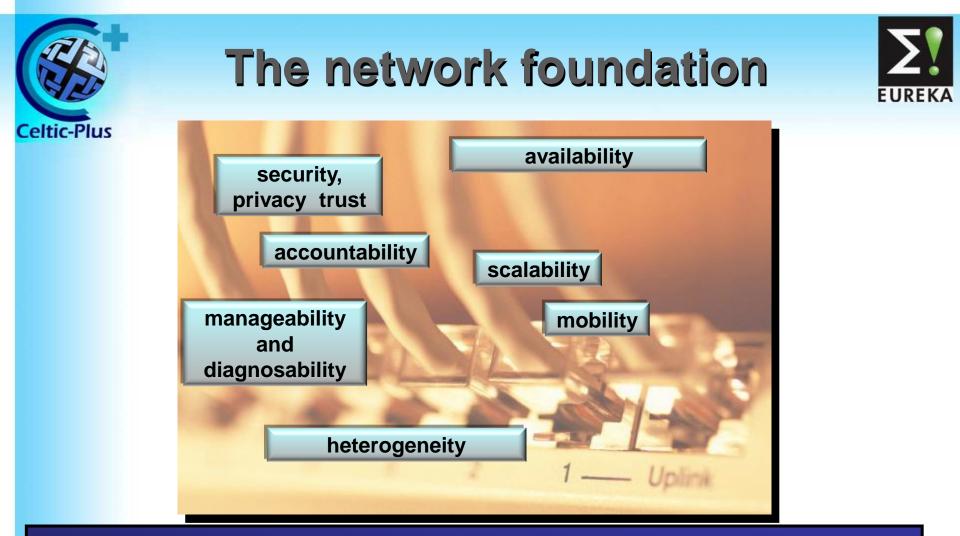




Celtic-Plus Research Possibilities (Purple Book)

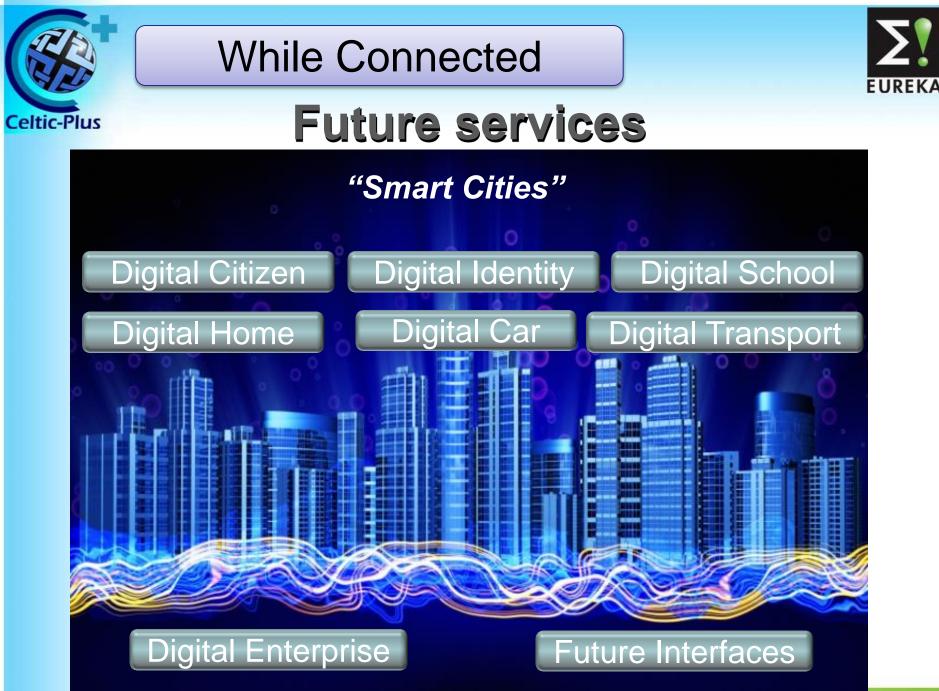
Valérie Blavette, Orange, Celtic-Plus Vice-Chair





No satisfactory solution currently exists to commonly address all challenges of the Internet

Get Connected





What's New: Going Green



Energy Savings in telecoms:

- Networks fixed/ mobile (less Watt/ bit)
- Services (less computing/ transport needs)

Energy Savings through telecoms:

- Energy management (via telecoms) for:
 - Households, companies, energy providers
- Smart Grids (intelligent energy networks)

Celtic OperaNet2 project (running):

France Finland Belgium & UK, Budget 8 M€





Celtic-Plus

- The OPERA-Net 2 project aims to reduce the overall environmental impact of mobile radio networks.
- The project adopts an end-to-end approach for both 3G and 4G wireless networks, identifying all relevant network elements and their interdependencies.
- improvements especially for energy and material efficiency in the radio base transceiver station (BTS).



Multidisciplinary Projects



ICT in health sector

• Telemedicine: Celtic HD-Viper project (finished):



- Open HD videoconferencing platform; better medical coverage
 Now commercial 480 M€ project in Sweden.
- Telemedicine Service oriented platform:

Celtic Hipermed project (finished):

- Consortium with expertise from ICT and medical sides; hospital involved; plans to establish a Network of Hospitals in France.
- Future Internet Paradigm in the Health domain:

Celtic PISCES project (running):

• Use-case for the FI-Ware platform (FI-PPP architecture)







Celtic-Plus Use-case Factory and FI-PPP

- Purple book: "Celtic-Plus is dedicated to pursue the most appropriate relationship with [...] the Future Internet PPP [...]"
- FI-PPP is bringing together vast technology base

Celtic-Plus

- External parties may use technology base → clear terms and conditions for using technology outside/beyond PPP needed
- External parties may contribute to technology base
- Celtic-Plus Use-case projects may use FI-PPP technology









Celtic-Plus and 5G-PPP



- **5G-Infrastructure** PPP
- Celtic-Plus will be an Associated Member of the 5G Infrastructure Association
 - provide our views on requirements on future communication networks
 - be involved in shaping such systems

