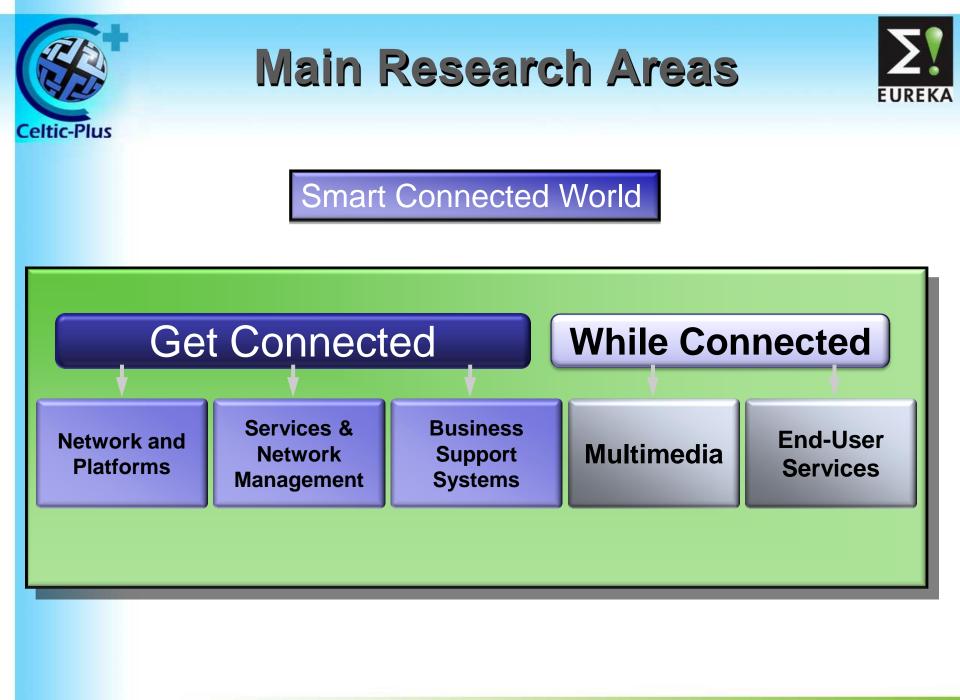
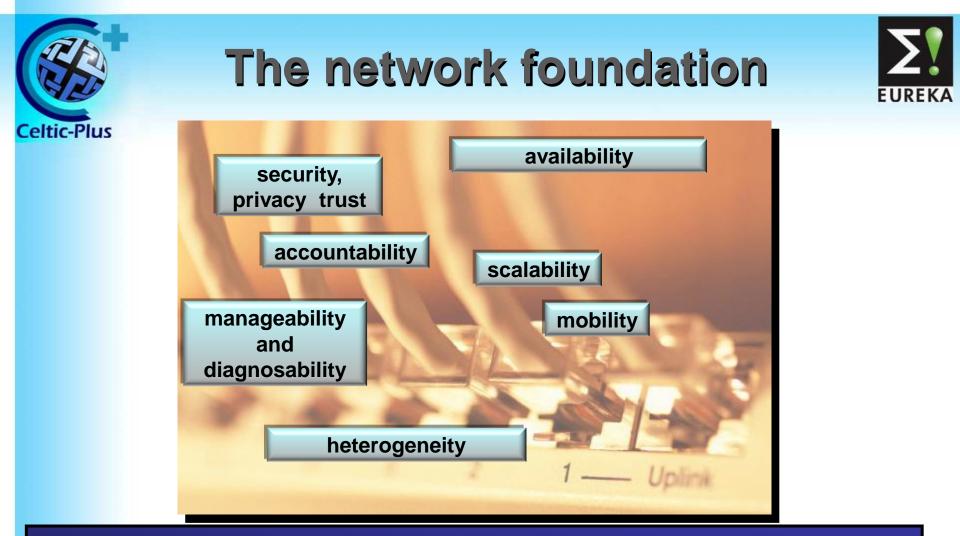




## Celtic-Plus Research Possibilities (Purple Book)

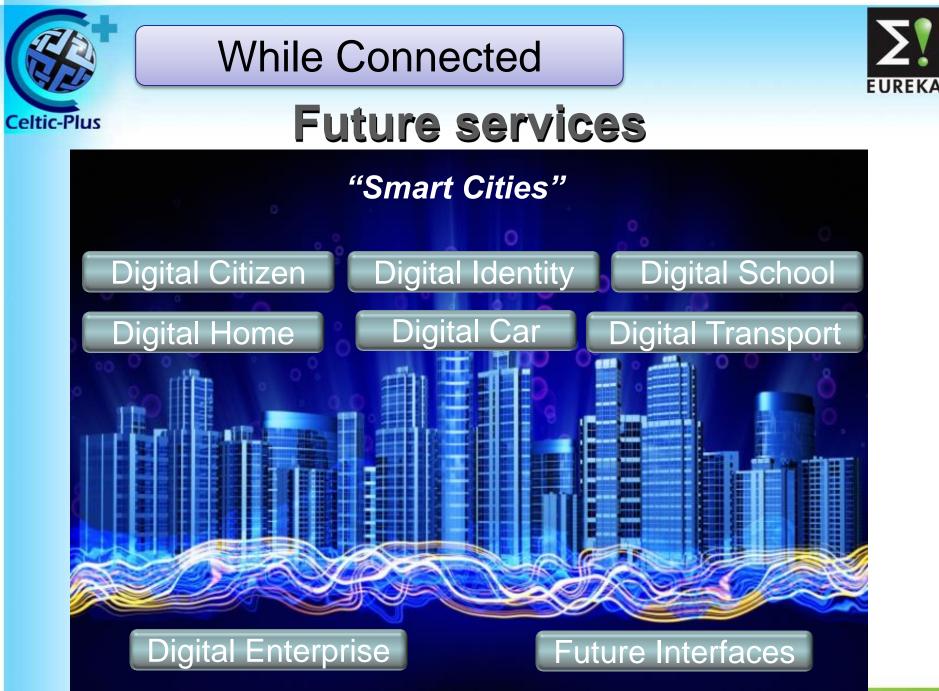
Valérie Blavette, Orange, Celtic-Plus Vice-Chair





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).



# **E-Health Projects**



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; hospitals involved; plans to establish a Network of Hospitals in France.
- Future Internet Paradigm in the Health domain:

Celtic PISCES project (running):

PISCES PROMOTING FUTURE INTERNET SOLUTIONS IN HEALTH ENVIRONMENTS

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

