



**Smart Cities in the context of
Horizon 2020**

PERIPHERIA FINAL CONFERENCE

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CONNECTED SMART CITIES



DG CONNECT **born on 1 July 2012**

- Preparation for Horizon 2020
EU Research and Innovation 2014-20
- New focus - innovation, evidence based, data collection and sharing, new stakeholders
- Policy and research integration



Open Innovation for Future Internet-enabled Services in Smart Cities

- 20 pilot projects
47 M€ EU funding
- Boost deployment of Internet enabled services
- Real-life deployment, cross-boder

30 Smart Cities in 18 Member States



Supported by the Competitiveness and Innovation Programme under ICT Policy Support

User-driven open innovation ecosystems

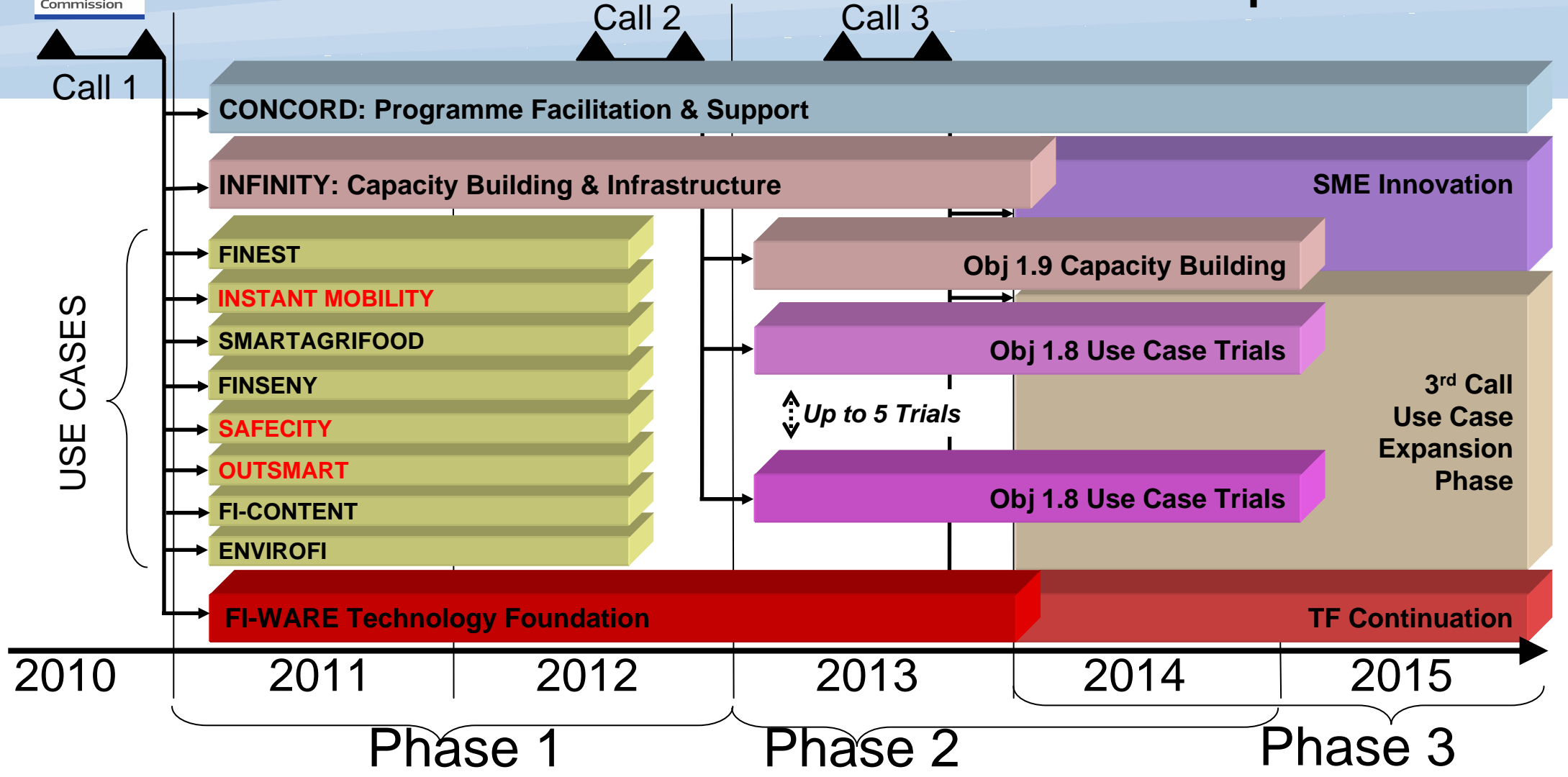
Cross-border networks of "smart" cities

Innovative Internet-based services





Smart City Technologies in context: Future Internet - Public Private Partnership 300 M€



EU R&I policy is changing!



- - **FP7** (research and development) and **CIP** (competitiveness and innovation) integrated into **Horizon 2020**
- - From 7 research domains to 3 pillars:
 - Excellent Science
 - Competitive Industries
 - Better Society

More emphasis on societal challenges, business, growth and jobs

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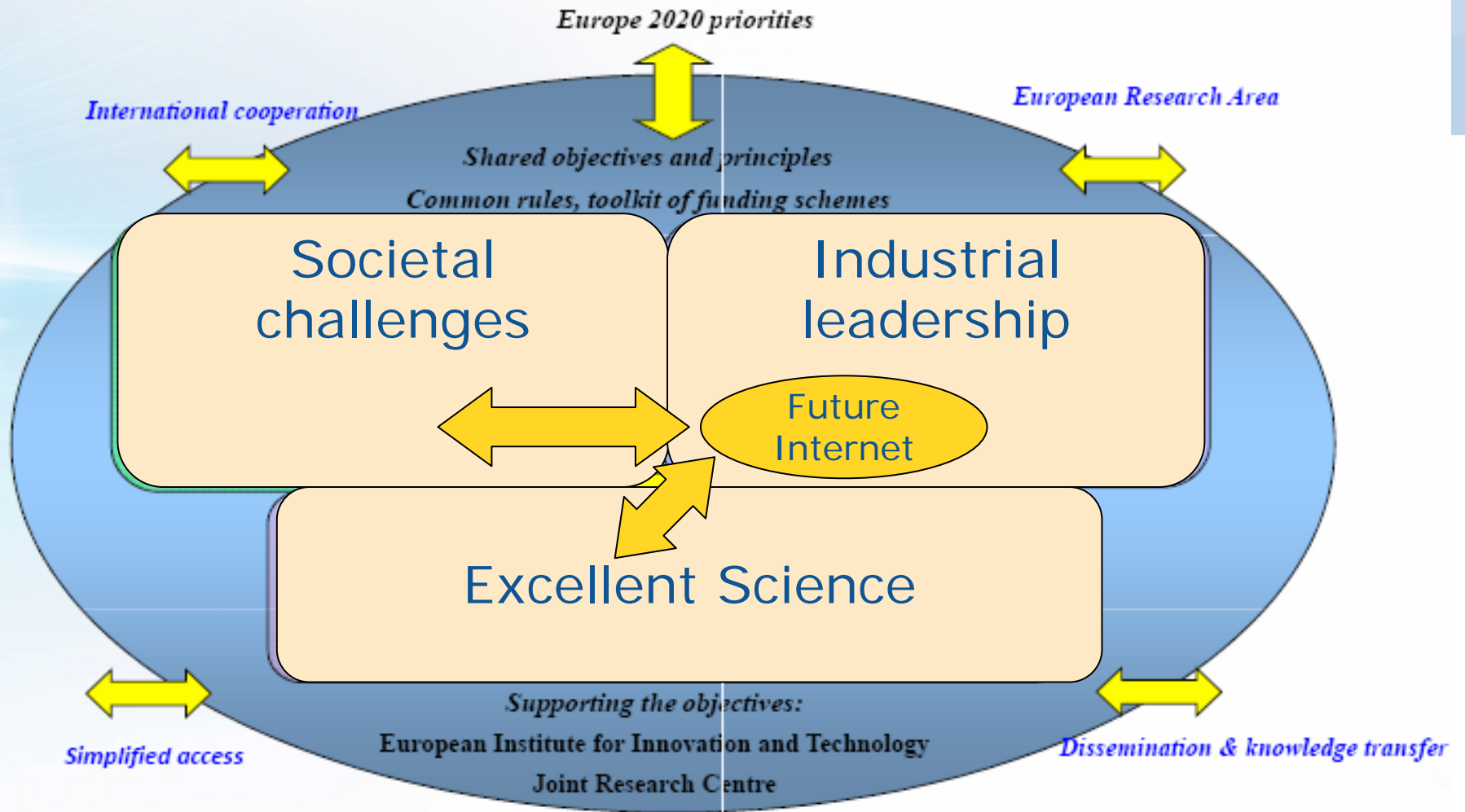
← We are quite good at this

← Our main target goal

← New in H2020

More emphasis on societal challenges, business, growth and jobs

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ICT Approach

Addressing Smart cities

- ❑ Societal challenge approach
 - ☞ Usage scenarios, business models, application requirements, best practice networking..
- ❑ Enabling technology approach
 - ☞ Multiple technologies called upon to be integrated: networks, service platforms, Sensors/IoT..
 - ☞ Experimental facilities, testbeds

Available instruments

- ❑ Now: ICT & CIP Work-programmes.
- ❑ Future: Horizon 2020 work programmes (2014-2020)
- ❑ Research: open to international cooperation



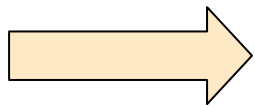
The Smart City of tomorrow will need to address:

- ❑ Policy objective of sustainability and efficiency, energy savings, carbon reduction
- ❑ Advanced applications serving citizens
- ❑ Internet services and intelligent infrastructures
- ❑ Citizen engagement and participation
- ❑ Jobs and quality of life
- ❑ ...and probably many more.

ICT and city management

Needs a holistic approach

- Increasing energy or transport efficiency as key objectives, but not the only one;
- Systemic approach: across sectors – energy, transport, buildings, waste, water - and considering various trends
- Leverage policy actions (broadband, open data..)
- Include social, environmental, structural dimensions
- Identify common barriers/challenges, standardisation
- How to engage citizens



- Need to consider all of above
- ICT is a key enabler and can help in decision-making and implementation



Key ingredients for Smart Cities

- Commitment from the city Authorities
- Citizen participation

ICT is the key enabler for the city of the Future:

- High Speed networks
- Cloud Computing (Interoperability, Privacy legal, governance, control, Security Dependability)
- Open Data (data accessible and usable, stimulating application development, standards)



Smart Cities, What's next?

- Understand the needs of regional/local actors
- Move from testing innovative ideas to piloting realistic solutions that will help us deliver in the 2020 timeframe
- Take a comprehensive and integrated approach; break down silos between domains such as buildings, transport, energy networks and ICT
- Ensure that solutions are actually taken up by key stakeholders, including citizens

Smart cities are a perfect framework:

- To put the Future Internet Technologies "in context"
- To take advantage of the new EU policy approach, with tighter integration between Research, innovation, regional deployment

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Thanks for your attention!

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Further Information:

<http://cordis.europa.eu/fp7/ict/fire>

See: Connected Smart Cities

<http://smartcitiesnetwork.eu/>
to be updated in Nov. 2012 to:

<http://connectedsmartcities.eu/>

