

Future Internet A Public Private Partnership

Creating a climate to encourage investment

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Main drivers for ICT Research & Development

ICT, engine for growth in a low carbon economy

- smarter energy grids, energy efficient buildings, greener cars & transport systems, lighting & manufacturing
- > Changing value chains & new market opportunities
- Web and Internet-based services, open platforms for resource sharing, Cloud computing
- > Technology developments at a cross-roads
- Future Internet: Medium and longer term developments
- Components: nanoelectronics, photonics, new materials
- Multi-core architectures, new programming paradigms
- Smart places: embedded, networked, learning capabilities
- Digital media and new forms of content

SEVENTH FRAMEWORK

Public Private Partnerships (<u>Future Internet</u>, Green Car, Energyefficient Buildings, Factories of the Future) European Commission Information Society

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JTIs: <u>Embedded Systems (ARTEMIS) Nanoelectronics (ENI</u>AC)

ICT WP \approx 4,422 B \in (1,5 B \in /year)

On-going research on Future Internet

ective, higher

or based

and

.....del; integration

Integrated approach, towards a Future Internet combining very high rate mobile access, intelligent service capability, secure and trusted platforms, advanced (3D, immersive) media access and delivery, novel devices/sensors and related business processes

network with biz management plat orms...

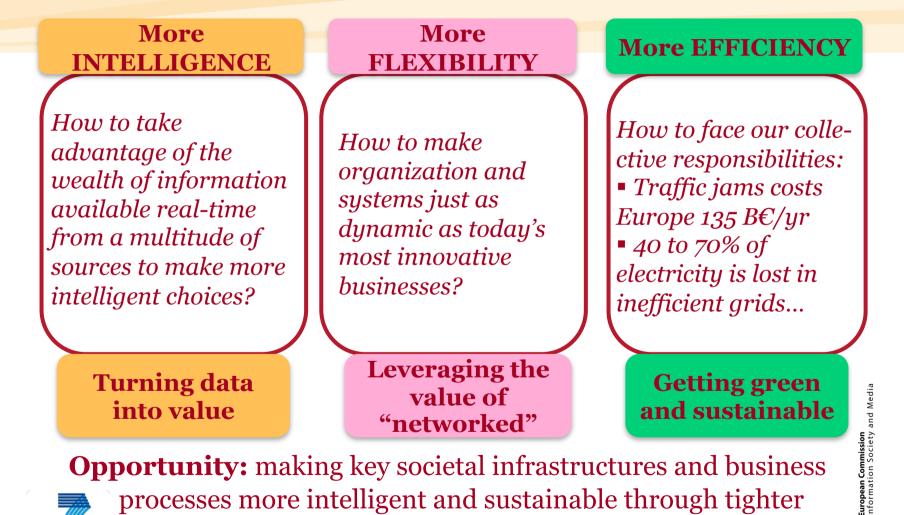
SEVENTH FRAMEWORK

 <u>Networked Media</u>: integration of media delivery platforms with network, MM and sensor based search, 3D evolution...

From Research and Development to Innovation:

Future Internet Public Private Partnership

Opportunities / mega-trends



integration with the Internet.

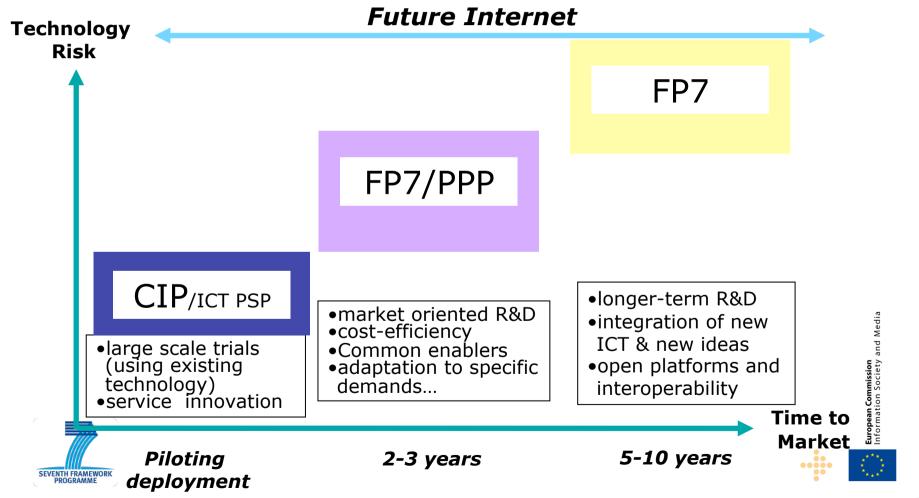
SEVENTH FRAMEWORK



An Internet enabled service economy



Future Internet: A Comprehensive EU Approach



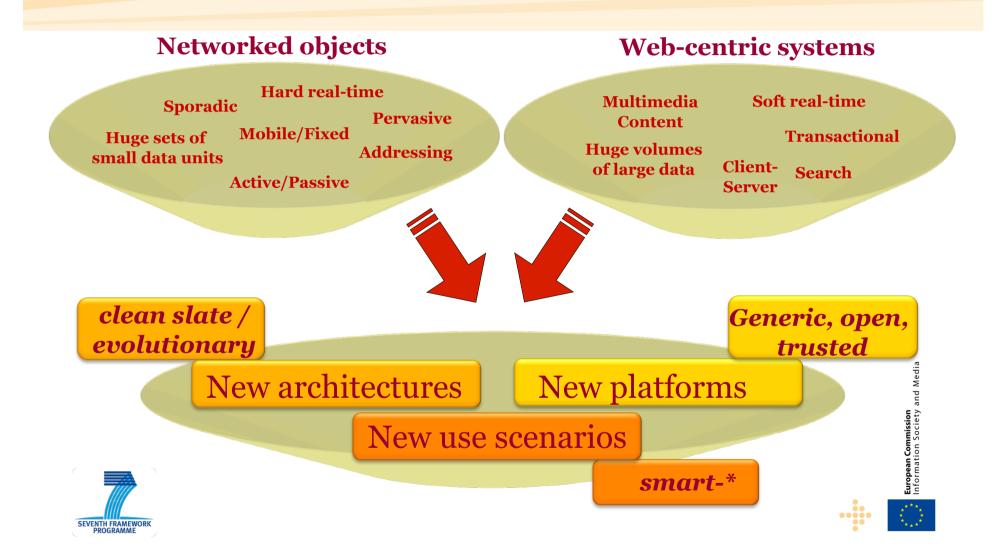
FI PPP: overall goals

- Leverage the internet infrastructure as an open, secure and trusted platform (holistic/system perspective)
- Improve the inter-linkages between technologies and applications
- Make business processes and operation of infrastructures and applications more efficient
- Foster cross-sector industrial partnerships
- Address regulatory and policy issues

SEVENTH FRAMEWORK

Maximise the societal benefit through involvement of endusers, civil society/consumer organisations at local,
Tegional and national levels

Confluence of 2 paradigms



FI-PPP Proposed Approach

- Large scale projects (Programme notion)
 - → Integration will not happen in many small projects
- 2. Systematic approach to project selection
 - → Projects must contribute to the **programme**
- 3. Facilitate open sharing of information

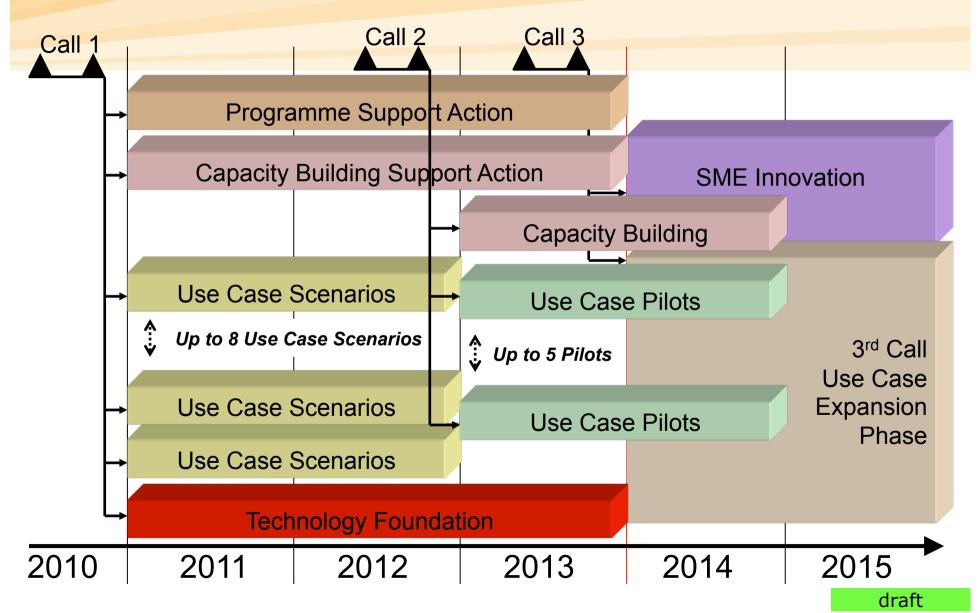
SEVENTH FRAMEWORK

- ➔ IPR issues should not hinder collaboration
- 4. Integrate user sector competence with the ICT competence
 - ➔ The PPP target is to enhance all sectors with the Future Internet
- 5. Lead by example: large scale trials and demos
 - ➔ Proving scalability and viability, SME, user driven innovation
- 6. Synergy: build on existing results and resources
 - ➔ Time and scale dictate using what we have already achieved in Europe.



Programme Architecture

--- a set of coherent projects ---



FI PPP: the road to smart innovation

- i) Broadband deployment to be fueled by new services
- ii) Research with strong innovation orientation: need to address longer-term... and shorter term delivery of results;
- iii) Interoperability/standards as important as ever
- iv) Need for critical mass; involvement of new players in the value chain... Convergence beyond ICT boundaries;
- v) Leveraging previous achievements, put in a E2E system context;
- vi) User driven open innovation, large scale test-beds
- vii) **Leveraging public strengths through openness and**

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