

# **Future Internet Forum: Valencia, 15 April 2010**



# Agenda

- 14.00**      **Welcome by the Commission and EU Presidency**
- 14.10**      **Session 1: Update on activities towards a FI PPP**
- 15.15**      **Session 2: Public-Private initiatives on Future Internet**
- 15.30**      **Session 3: EU cities and regions becoming 'internet-ised'**
- 16.15**      **Coffee Break**
- 16.45**      **Session 4: Updates of MS initiatives and plans**
- 17.30**      **Progress towards a common mapping of FI activities**
- 17.45**      **Conclusions, date and tentative agenda for next meeting**
- 18.00**      **End of meeting**



# **Future Internet PPP: Introduction and scene setting**

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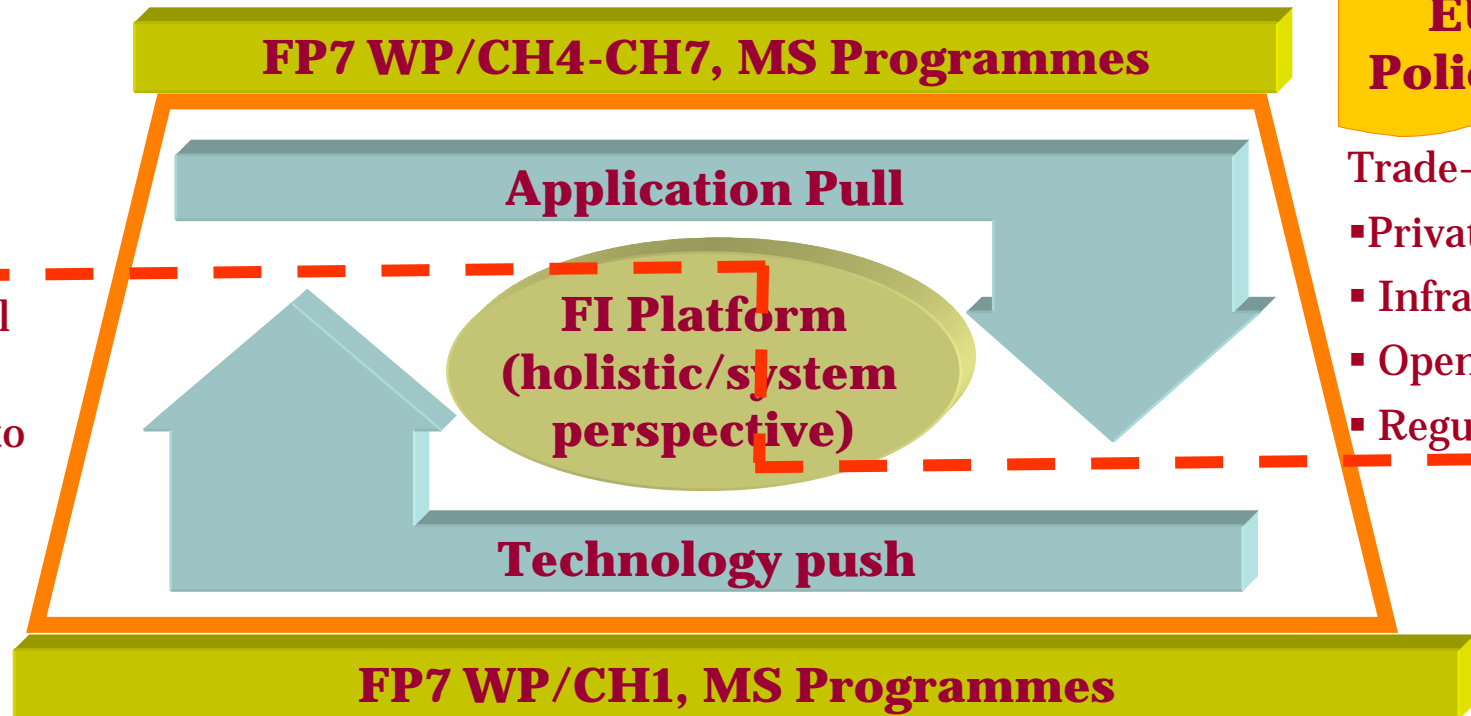
**Luis Rodríguez-Rósello  
Acting Director  
Converged Networks and Services  
European Commission - DG INFSO**



# FI PPP: Building industrial leadership beyond R&D

Making the world 'smarter' and accelerate sustainable innovation

- 
- + user-driven
  - + social benefit
  - - time to market



- Trade-offs:
- Private/Public
  - Infrastructure
  - Openness
  - Regulation

Making Europe a world leader in Future Internet technologies

# FI-PPP: NOT Business as Usual

- Research with innovation orientation;
- Related projects, limited number, critical mass;
- New players in the value chain, use cases, convergence beyond ICT players;
- Leveraging previous achievements, put in a continuous research-innovation lifecycle context;
- User driven innovation, large scale test-beds
- Leveraging public strengths through openness and infrastructures
- Program approach;



# FI PPP: programme approach

- Reflecting the **programme notion** is an absolute requirement for all proposals – system context!
- Phased projects, limited number, critical mass, **specificity**
- **Evaluation criteria** and evaluation **process** tailored for building a programme
- Leveraging **user driven innovation** and **public sector strengths** through openness and infrastructures
- **Manage dependencies** – in particular between Technology Foundation and Use Cases.
- Significant programme management and steering efforts expended by the **Programme Support**



# **Future Internet PPP: Structure and Technical Content**

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**Bernard Barani  
Assistant to Director  
Converged Networks and Services  
European Commission - DG INFSO**



- **Smart infrastructures**
  - From dumb to intelligent
  - From static to dynamic
  - From rigid to flexible
- **Leveraging technological basis**
  - Devices, networks, service clouds...
  - Applications: virtuous circle
- **Building up on multiple European R&D investments**





# Core Platform

- **Generic, trusted and open platform/framework**
  - integrating advanced network and service features
  - enabling take up in innovative "smart applications"
- **Drawing upon resources from independently controlled domains (ad-hoc aggregation).**
- **Re-usable for multiple user contexts**
- **Generic Enablers: a key feature of the Core Platform**
- **Open API/SDK exposing functionalities, open interfaces towards test/validation infrastructures**



# Core Platform Capabilities

- **Upgraded network capabilities:** requirements from innovative Internet use cases and from the operational needs of smart infrastructures;
- **Information processing capabilities** enabling the generation, composition, sharing and exploitation of huge amounts of data in support of context aware applications (including mash ups)
- **Versatile service infrastructure capabilities**
- **Real time application capabilities** based on coupling sensor and actuator networks to the internet, through a reference architecture
- **Trust and identity capabilities** enabling end-users, devices, digital objects and service providers to be identified globally and across multiple domains in a trusted manner;



# Use Cases

- Vertical application scenarios whose efficiency, sustainability and performances can be radically enhanced through a tighter integration with Internet based advanced capabilities.
- Each use case is expected to make use of technologies and functionalities leapfrogging current internet technologies, such as:
  - context awareness and sensor networks,
  - advanced real time information processing,
  - handling huge volume of data,
  - ad-hoc service composition and mash ups,
  - managed broadband connectivity and services,
  - embedded media support for interfaces easing the interpretation of contextual data.
- Identification of generic vs. specific enablers
- Use cases: suggestion only



- **Two phases implementation (each competitive)**
- **Target outcomes at the end of phase 2:**
  - Working pilots and test-beds building upon common components and enablers as provided under the Core Platform activity and covering the selected pilot sites.
  - Selected test applications implemented on pilot sites.
  - Validation of the openness and versatility of the Core Platform and of the SDK: implementation of mixed use case scenarios out of more than one use case project.
  - A detailed plan on how to move into Phase 3 in which a massive expansion of the platform usage is envisaged, facilitated by local and regional stakeholders including SMEs.



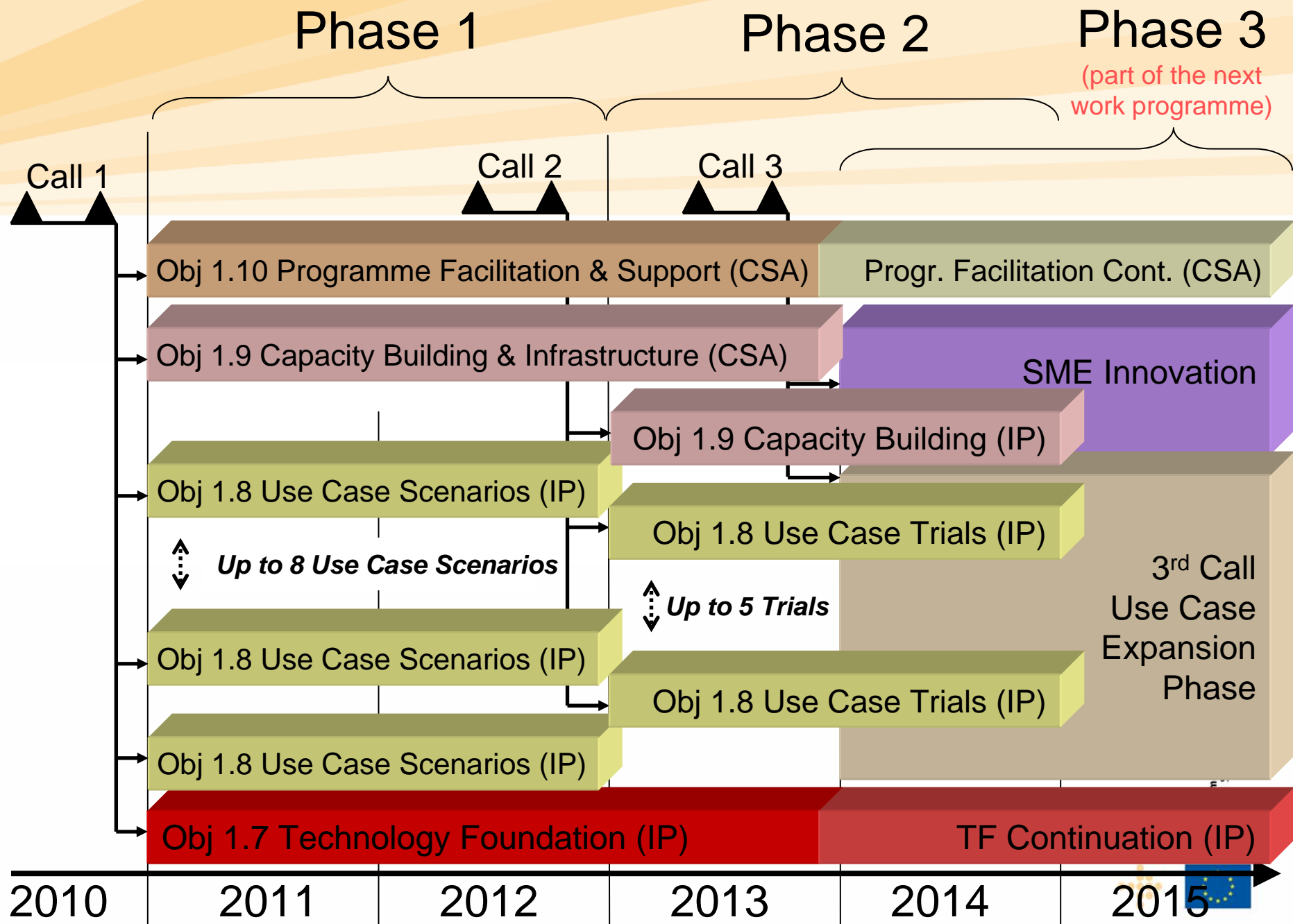
# Accompanying measures

- **Capacity Building and Infrastructure support**
  - Preparing for the infrastructure requirements for testbeds and validation phases
  - A key aspect of the “public” part of the PPP
- **Openness: Standards, architectures, markets**
  - Another key aspect of public implications
  - Deployability, test and validations
- **Ensuring coherence and articulation at programme level**
- **SME dimension**
- **Open innovation model (Phase 3)**

# Evaluation Criteria

- Reflect the programme approach
- Stress the higher impact expected on policies as compared to CH1 objectives
- Highlight immediate impact on competitiveness of the technology suppliers
- Foster constituency structuring around a programme
- Ensures continuity while reducing fragmentation of resources





# **Future Internet PPP: Consultations with relevant Communities and next steps**

## **Future Internet Forum: Valencia, 15 April 2010**

**Franco Accordino**  
**Assistant to Director**  
**Emerging Technologies and Infrastructures**  
**European Commission - DG INFSO**





# Draft Call Planning

- **Call 1 (July – 28 October 2010) – budget 93 MEuro**
  - Technology Foundation (one IP, 40 MEuro, 3 years, 30% flexible)
  - Use Case Scenarios – Phase 1 (7-8 areas, IP, 5 MEuro, 2 years)
  - Capacity Building (one CSA, 3 MEuro, 3 years)
  - Programme support (one CSA, 10 MEuro, 3 years)
- **Call 2 (3<sup>rd</sup> quarter 2012) – budget 77 MEuro**
  - Use Case Scenarios Pilots – Phase 2 (5 areas, 13 MEuro, 2 years)
  - Capacity Building (one IP, 12 MEuro, 2 years)
- **Call 3 (mid 2013) –**
  - Devoted to the expansion and enlargement of many testbeds and pilots (several areas)



# Next Steps

- Discussion on second draft WP with ICTC 13/04
- Third draft to ICTC 21/04
- Final discussion ICTC 05/05
- ICTC Opinion 26/06
- Adoption July 07
- FI PPP Call July 07



# Dialogue with Constituency (updates since Stockholm)

- Industry consultations
  - Meeting with core group of industrial stakeholders
  - G16 White paper, X-ETP strategy agenda, FIRA,...
  - Ongoing discussion on focus of core platform, use cases, ...
- R&D Centres consultation, Jan-Feb 2010
- Nice's community building and info day
- Use Cases consultation, Mar/June 2010
- Valencia FI event
- Visit to Member and Associated States:  
(Finland, Dec 2009, Portugal, Feb/May 2010, UK, Feb&Mar 2010, Greece, Feb&July 2010, France, April 2010, Germany, May 2010, Austria, May 2010, Ireland, May 2010, Italy, May 2010, Netherlands, May 2010,...)



# What is expected from FIF

- **Your views on the FI PPP WP**
  - Input to be articulated with ICTC committee and other bodies
- **Facilitate national events and dialogues (targeting also regional/local communities)**
- **Capturing relevant expertise, particularly on use case domains**



# FIF Input on the FI PPP

- How the proposed approach fits with national strategy
- What national actions the FI PPP could trigger
- Opportunities for integration of activities
- Implementation modalities and timing



# Future Internet PPP

## Discussion



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