call 8/9, evolution to FP8

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Agenda

- **Introduction, landscape**
- **Main call 8/9 challenges**
- **PPP**
- **Transition to FP8**
- **Role of Technology platforms**

FP7 in R&D landscape

In a nutshell:

- **FP7 projects:**
  - **Funded, evaluated and managed by EC directly**
  - **Consultation of EC countries**
- **Eureka (CELTIC+,..), Eurostars projects:**
  - **Evaluated at European level (Eureka driven by industry)**
  - **Funded by national countries**
- **JTI:**
  - **Mixed system: funding by EC, countries and industry**

ICT in FP7 - Where do we stand?

- **Behind us**
  - ICT Calls for proposals under WP 2007-08 and WP 2009-10
    - >5200 M€ of EU funding committed
    - >1100 projects launched or to be launched
    - >10000 participations
    - >3600 distinct organisations participating
  - Calls under two Joint Technology Initiatives (Artemis and Eniac) and the Ambient Assisted Living Joint Programme (AAL)
    in 2008, 2009 and 2010

- **Ahead of us**
  - ICT WP 2012
    - around 1500 M€ funding
  - ICT WP 2013
    - >1500 M€ funding
  - JTIs + AAL WPs 2011, 2012, 2013

Instruments

- Integrated Projects, IP (8-25 partners, 5-20 ME)
- Specific Targeted Research Projects, STREPS (5-10 partners, 1-4 ME)
- Co-ordination Actions, CA
- Support Actions, SA
- Networks of Excellence, NoE

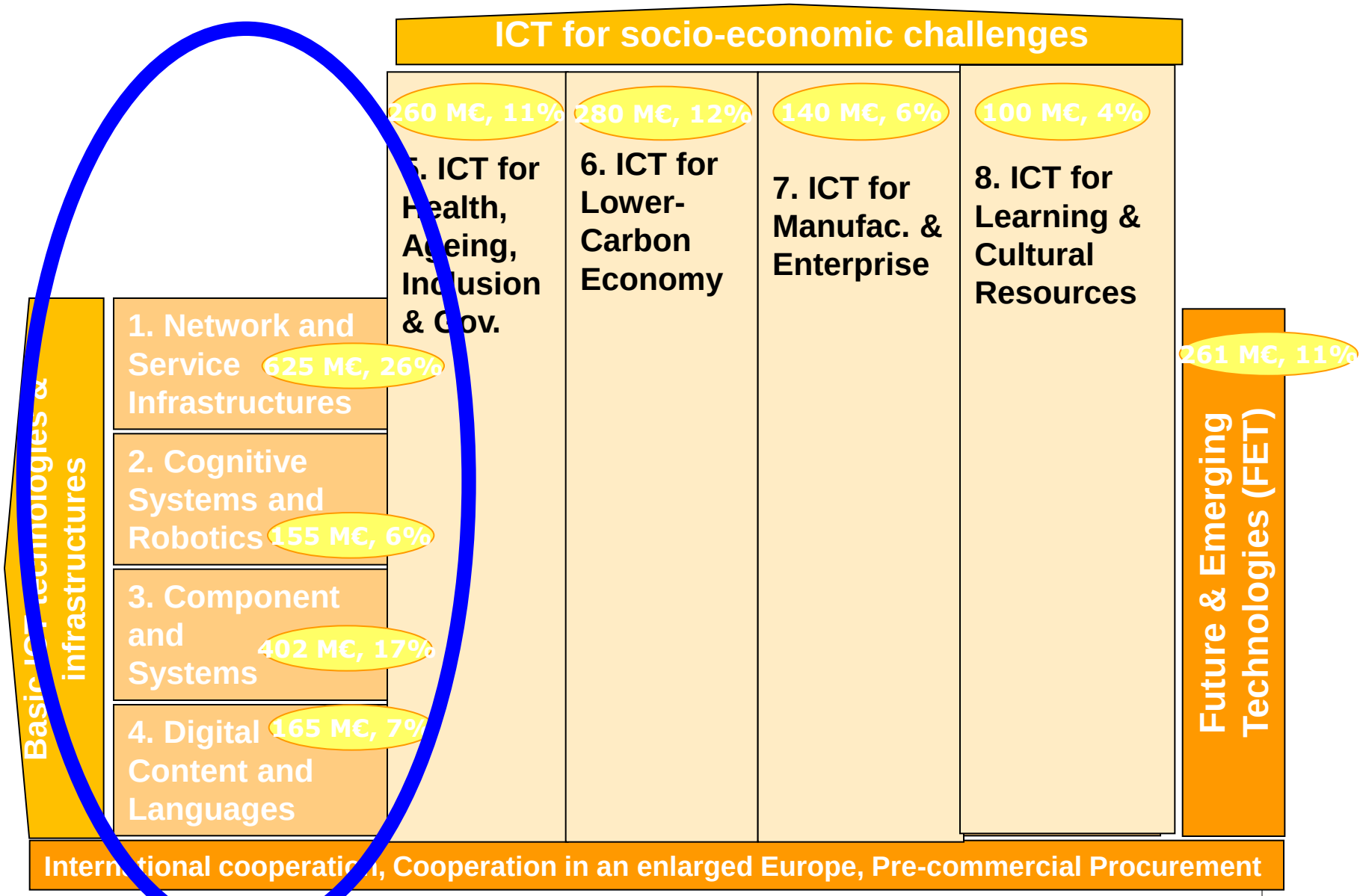
- NB: PPP's are NOT new instruments!

Programme Objectives

- Reinforce basic ICT technologies and infrastructures
  - seize new opportunities in emerging fields, build on existing strengths, help share risks and build partnerships
- Reinforce ICT contributions to major socio-economic challenges
  - health and ageing, lower-carbon economy, sustainable manufacturing and services, learning and cultural resources
- Support to international cooperation
- Strengthen cooperation in an enlarged Europe
- Support to pre-commercial procurement

➔ **Mix of Continuity and new issues**

FP7/ICT Programme Structure



Next Calls for Proposals - Deadlines

- ICT Call 8.....17 Jan 2012
- ICT Call 9.....17 Apr 2012
- FET Open ..... Continuously open

- Future Internet PPP Call 2 ..... 29 Oct 2012

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Challenge 1: Pervasive and Trusted Network and Service Infrastructures

- The Future Internet, beyond the limitations of today's Internet;
- Holistic approach
- Evolutionary and Clean slate approaches
- Critical Mass, FIA process
- From research to innovation, the FI-PPP

Call 8: challenge 1

- **1.1: Future Networks supporting the convergence and interoperability of heterogeneous mobile, wired and wireless broadband network technologies**
  - **novel Internet architectures; network management and operation frameworks, wireless and mobile broadband systems and ultra-high capacity all-optical networks, satcoms**
- **1.2: Cloud computing, Internet of Services & advanced software engineering**
  - **technologies specific to the networked, distributed dimension of software and the access to services and data**
- **1.4: Trustworthy ICT**
  - **security in networked service and computing environments; trust, privacy and claims management infrastructures; data policy, governance and socio-economic aspects of trustworthy ICT**
- **1.6: Future Internet Research and Experimentation (FIRE)**
  - **FIRE Federation**
  - **FIRE Experimentation**
  - **Coordination and support**

Call 8: challenge 2/3/4

- **2.1: Cognitive systems and robotics (Call 9)**
  - **Cognition and control in complex systems, smarter robots through targeted applications,**
- **3.1 Very advanced nanoelectronic components**
  - **Beyond CMOS, circuit technology solutions, nano manufacturing nd joint equipement assesment**
- **3.2 Smart components & systems integration**
  - **Integration of new functionnalities for the next generation of application specific components and smart systems**
- **3.5 Core and disruptive photonic technologies**
  - **Application specific photonic components and sub-subsystems, photonic integration platforms.**
- **4.3 Digital Preservation (call 9)**
  - More reliable and secure preservation technologies and methods, Technologies and systems for intelligent management of preservation, NoE, CSA
- **4.4 Intelligent Information Management**
  - **Effective technologies of intelligent content creation and manageemnt**

Summary of call 7/8/9/PPP

Which Objective in which Call? (M€)	FI-PPP Call 1	Call 7	Call 8	Call 9	FI-PPP Call 2
1. Network and Service Infrastructures					
1.1 Future Networks			160		
1.2 Cloud Computing, Internet of Services etc			70		
1.3 Internet-connected Objects		30			
1.4 Trustworthy ICT			80		
1.5 Networked Media & Search Systems		70			
1.6 FI Research & Experimentation		20	25		
1.7 PPP FI: Core Platform	41				
1.8 PPP FI: Use Case scenarios & early trials	40				67.5
1.9 PPP FI: Infrastructure Support	3				12.5
1.10 PPP FI: Programme Support	6				
2. Cognitive Systems and Robotics					
2.1 Cognitive Systems and Robotics		73		82	
3. Alternative Paths to Components & Systems					
3.1 Very advanced nanoelectronic components			60		
3.2 Smart components & systems integration		41	39		
3.3 Embedded systems, monitoring & control		50			
3.4 Computing Systems		45			
3.5 Core and disruptive photonic technologies		25	92		
3.6 Organic Electronics and Photonics		50			
4. Technologies for Digital Content & Languages					
4.1 SME initiative on Digital Content & Languages*		35*			
4.2 Language Technologies		50			
4.3 Digital Preservation				30	
4.4 Intelligent Information Management			50		

Summary of call 7/8/9/PPP

Which Objective in which Call? (M€)	PPPs 2010 Call	Call 7	Call 8	Call 9	PPPs 2011 Call
5. ICT for Health, Ageing Well, Inclusion & Governance					
5.1 Personal Health Systems (PHS)		60			
5.2 Virtual Physiological Human (VPH)		1.5		66.5	
5.3 Patient Guidance Services (PGS)		35			
5.4 ICT for Ageing and Wellbeing		37			
5.5 ICT for smart and personalised inclusion		35			
5.6 ICT Solutions for governance and policy modelling		25			
6. ICT for a Low Carbon Economy					
6.1 Smart energy grids			30		
6.2 ICT systems for Energy Efficiency		35			
6.3 ICT for efficient water resources management			15		
6.4 PPP EEB: ICT for energy-efficient buildings & spaces	20				
6.5: PPP EEB: ICT for energy-positive neighbourhoods					30
6.6 Low-carbon multi-modal mobility and freight transport		50			
6.7 Cooperative systems for sustainable mobility			40		
6.8 PPP GC: ICT for fully electric vehicles	30				30
7. ICT for the Enterprise and Manufacturing					
7.1 PPP FoF: Smart factories					40
7.2 PPP FoF: Manufacturing Solutions for new ICT products					20
7.3 PPP FoF: Virtual factories and enterprises	45				
7.4 PPP FoF: Digital factories	35				
8. ICT for Learning and Access to Cultural Resources					
8.1 Technology-Enhanced Learning			60		
8.2 ICT for access to cultural resources				40	

Summary of call 7/8/9/PPP

Which Objective in which Call? (M€)	Call 7	Call 8	Call 9	FET Open
9. Future and Emerging Technologies				
FET-Open				
9.1 Challenging current Thinking				75
9.2 High-Tech Research Intensive SMEs in FET research				9
9.3 FET Young Explorers				6
9.4 International cooperation on FET research				3
FET-Proactive				
9.5 FET Flagship Initiative Preparatory Actions*	10*			
9.6 FET Proactive: Unconventional Computation		15		
9.7 FET Proactive: Multi-Level Complex Systems		23		
9.8 FET Proactive: Energy Consumption of Computing		15		
9.9 FET Proactive: Quantum ICT			22	
9.10 FET Proactive: Collective Adaptive Systems			23	
9.11 FET Proactive: Neuro-Bio-Inspired Systems			23	
9.12 Coordinating Communities etc	3	3	2.5	
9.13 Exa-scale computing, software and simulation	25			
9.14 Joint Call ICT-SSH on 'Science of Global Systems'		3.5		
10. International Cooperation				
10.1 EU-Brazil Research and Development Cooperation*	5*			
10.2 EU-Russia Research and Development Cooperation*	4*			
10.3 International Partnership building & dialogues	4		2	
11. Horizontal Actions				
11.1 Pre-Commercial Procurement Actions	5			
11.2 National Contact Points	4			
11.3 Cooperation in an Enlarged Europe	10			

Getting help with proposals

- http://cordis.europa.eu/fp7
- ICT 2010 Conference, Brussels, 27-29 September 2010
  ec.europa.eu/information_society/events/ict/2010/

- National Contact Points:http://cordis.europa.eu/fp7/ncp_en.html
- Partner search facilities: http://www.ideal-ist.net/
- Information desk: ict@ec.europa.eu
- IPR Helpdesk: http://www.ipr-helpdesk.org/index.html
- Electronic proposal submission helpdesk: support@epss-fp7.org

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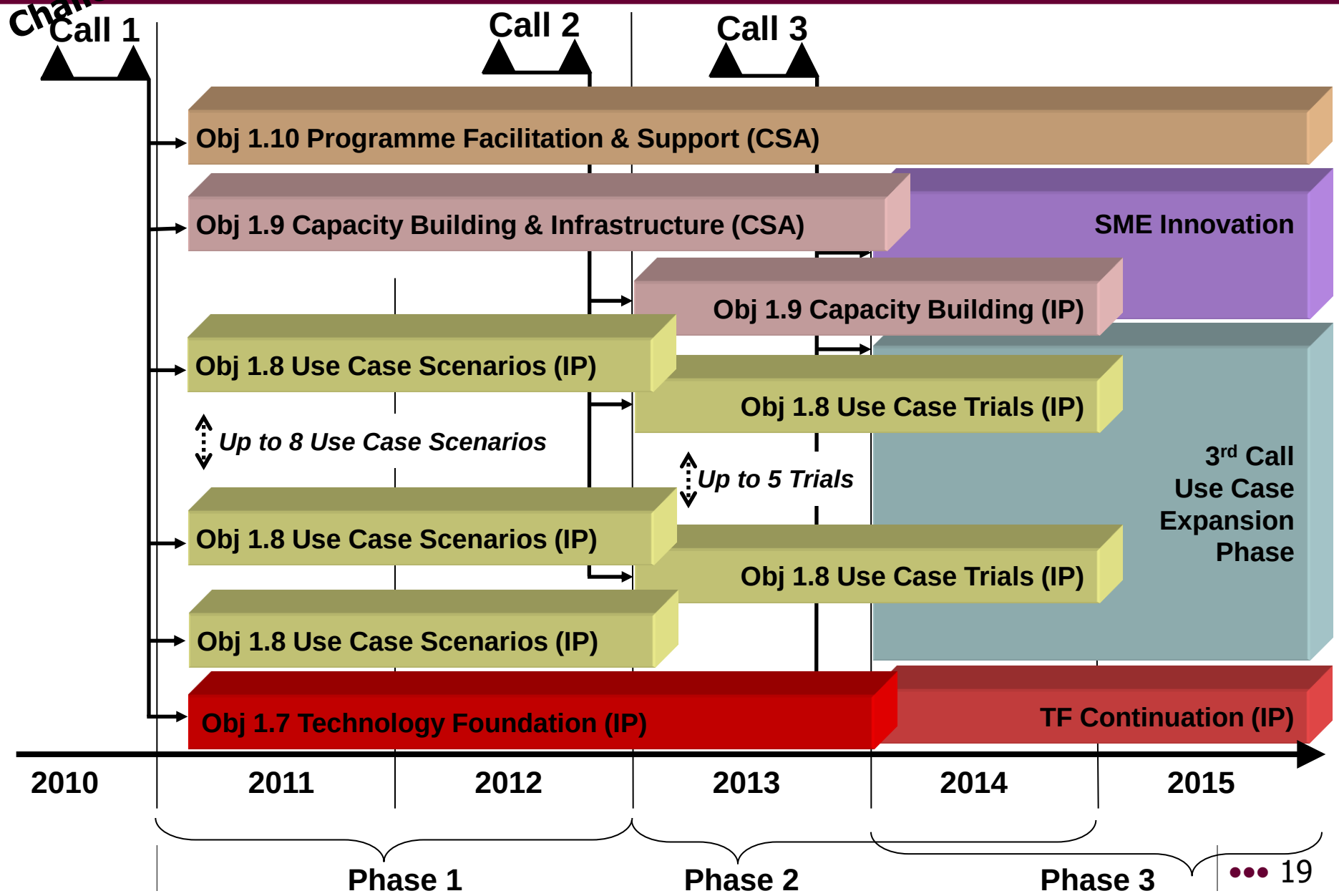
PPP in short

- Public private partnership:
  - Wish from industry to have more innovation oriented program, and be more in control
  - Wish from EC to have more visibility on impact
- PPP on FI:
  - Started from a cross-ETP initiative
  - Evolved to "lobbying groups (industry and academics)
- Funding schemes:
  - Initially discussion as a JTI scheme
  - Evolved to "normal" funding:
    - 100% funded and controlled by EC
    - Usual instruments: CSA and IPs

FI-PPP: Programme Architecture



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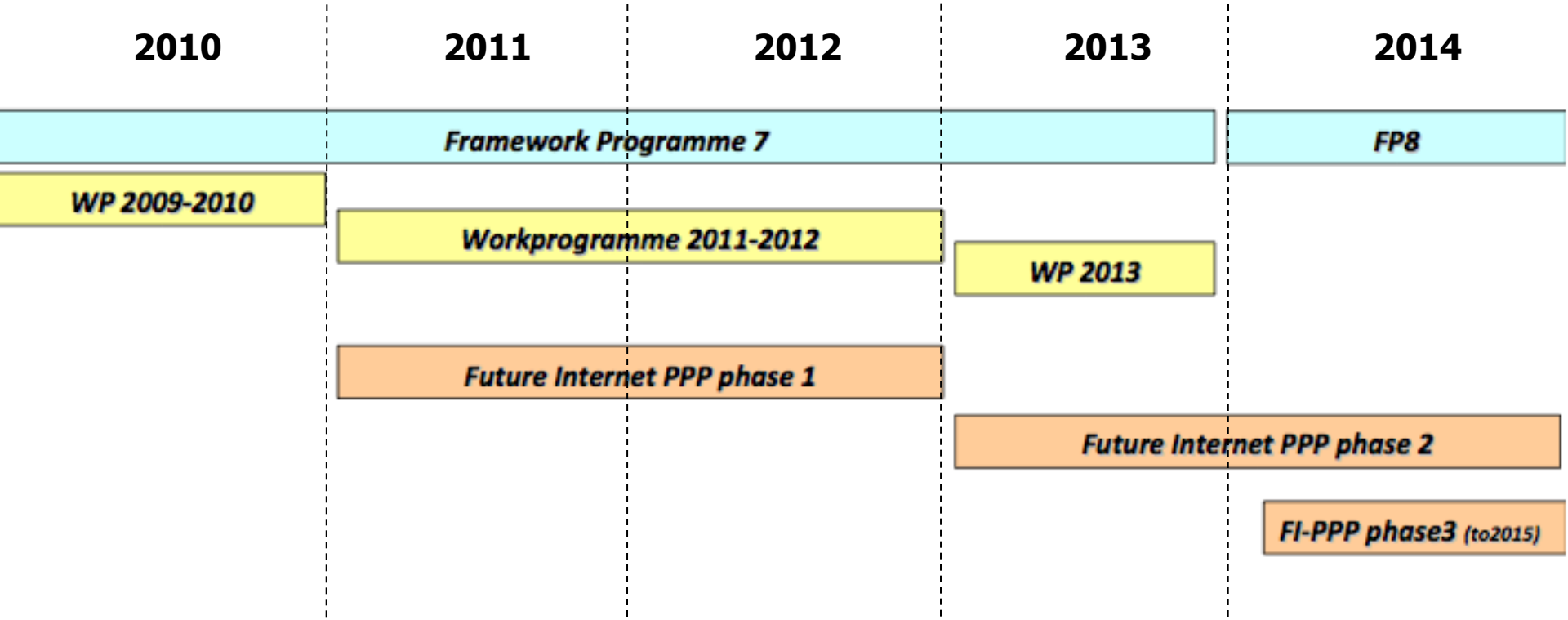
Overall timing



Europe 2020: Three interlinked priorities

1.) Smart growth: developing an economy based on knowledge and innovation

2.) Sustainable growth: promoting a more efficient, greener and more competitive economy

3.) Inclusive growth: fostering a high-employment economy delivering social and territorial cohesion

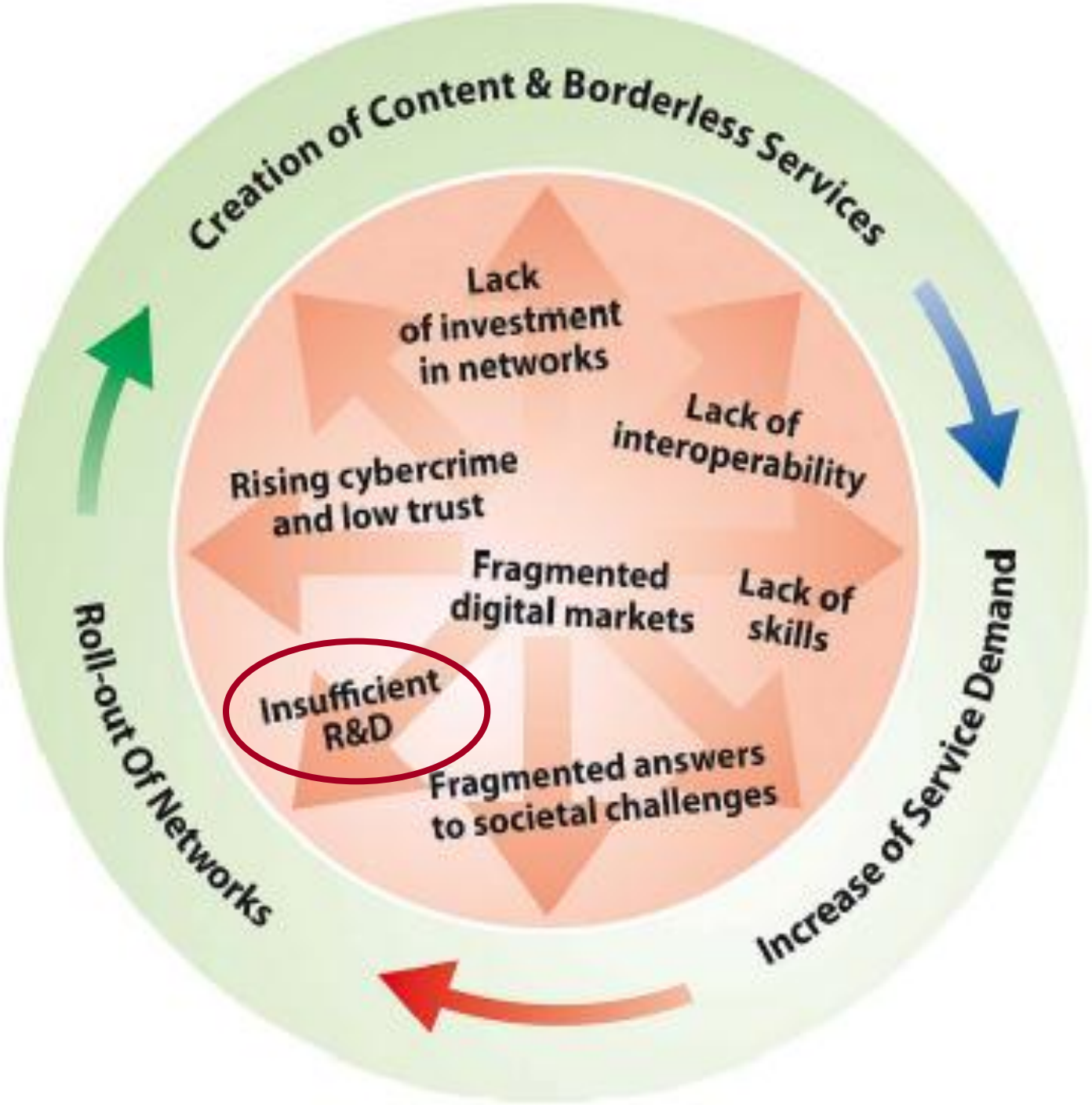
Europe 2020: Seven flagship initiatives

Smart Growth	Sustainable Growth	Inclusive Growth
Innovation *« Innovation Union »*	**Climate, energy and mobility** *« Resource efficient Europe »*	**Employment and skills** *« An agenda for new skills and jobs »*
Education *« Youth on the move »*	**Competitiveness** *« An industrial policy for the globalisation era »*	**Fighting poverty** *« European platform against poverty »*
Digital society *« A digital agenda for Europe »*		

Make Europe into a world class science performer

Strategy for a flourishing digital economy by 2020

Digital Society: Challenges



A Digital Agenda for Europe
The Research & Innovation Pillar

- The Commission will leverage more private investment through
  - pre-commercial procurement and public-private partnerships
  - structural funds for research and innovation
  - maintaining pace of 20% yearly increase of ICT R&D budget (at least for FP7)
- The Commission will also
  - reinforce coordination and pooling of resources with Member States and industry
  - put greater focus on demand- and user-driven partnerships
  - propose measures for 'light and fast' access to EU research funds
  - support joint ICT research infrastructures and innovation clusters, eInfrastructures and cloud computing strategy
  - develop new generation of web-based applications and services by supporting standards and open platforms
- The Member States should
  - double annual public spending on ICT R&D in ways that leverage an equivalent increase in private spending
  - engage in large scale pilots to test and develop innovative and interoperable solutions in areas of public interest

On our way to FP8..

- Practical trends of mentionned issues (some outcome of national enquiries for FP8):
  - Push for more impact / exploitation (crisis); Programme benchmarking
  - Contradictory push for disruptive exploratory research
  - Search for more efficient instruments to develop SMEs/involve SMEs in research
  - Simplification of bureaucracy (not obvious in FP7)

On our way to FP8..

- Practical trends of mentionned issues (some outcome of national enquiries for FP8):
  - More outsourcing from EC (workprogramme, admin, evaluation,..)

Possible outcomes

- Possible splitting between « normal objectives (research oriented) and PPP (development oritented) / JTI/etc.:
  - Science for science (driven by research)
  - Science for competitiveness (driven by the industry)
  - Sicence for society (civil society actors set the agenda)
- Harmonisation with Eureka programs
- More splitting between SME oriented programs and large corporation programs
- New instruments dedicated to SMEs
- More coordinated development of infrastrcuture programs; coordination with tesbteds / regional initiatives / ETP

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Technology platforms

Current activities

- Association of stakeholders (large corporations, SMEs, academics), in a technical area (mobile, photonics, media, robotics, satellite, …), grouping 50 to 1500 organisations
- Goal to agree on common interest and support the commission in defending them
- In FP7: contribution to WP,creation of PPP, industrial aspects of research, JTI
- Some under restructuring (networks!, ..)

Why to be involved:

- Be informed (WP, projects, etc.)/ contribute
- Meet potential partners for projects or commercial activities

Technology platforms

Role in FP8

- Continuation of FP7
- Could play more pro-active roles
  - programmes set-up and evaluation
  - More involvment in testbeds/ evaluation/ deployment platforms

Link to ETPs in Cordis: http://cordis.europa.eu/technology-platforms/individual_en.html

Some recommendations

- New comers: try to join existing consortia (sources of information: ETPs, idealist, infodays, evaluations,..)
- Low success rate (5 to 20%); proposals need to be perfect on all aspect, should come from a « true » idea
- Don’t waste time in medium quality proposals
- Optimal Consortium is essential
- Exchange with EC is easy and can be effective
- National representative can give important support

For more information

Digital Agenda for Europe

http://ec.europa.eu/digital-agenda

FP8 preparation

http://cordis.europa.eu/fp7/ict/ssai/fp8preparations_en.html

THANK YOU

Questions?