

FP7/ICT 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
- Strengthen support to Future & Emerging Technologies in ICT
- Reinforce and focus support to international cooperation
- Strengthen cooperation in an enlarged Europe
- Further develop Pre-Commercial Procurement



FP7/ICT Programme Structure

ICT for socio-economic challenges

5. ICT for Health, Ageing, Inclusion & Gov.

6. ICT for Lower-Carbon Economy

7. ICT for Manufac. & Enterprise

8. ICT for Learning & Cultural Resources

Basic ICT technologies & infrastructures

1. Network and Service Infrastructures

2. Cognitive Systems and Robotics

3. Component and Systems

4. Digital Content and Languages

Future & Emerging Technologies (FET)

International cooperation, Cooperation in an enlarged Europe, Pre-commercial Procurement

European Commission
Information Society and Media



Reinforce basic ICT technologies / infrastructures

- Challenge 1: Strengthen leadership in network & service infrastructures
 - 625 M€ (26% of total budget) ▶
including “Internet of Things for a wiser planet”
- Challenge 2: Seize new opportunities in cognitive systems & robotics
 - 155 M€ (6%)
- Challenge 3: Master ICT components and systems
 - 402 M€ (17%)
 - + 205 M€ (outside this work programme)
for joint technology initiatives in nanoelectronics and embedded systems
- Challenge 4: Make more sense out of content and information
 - 165 M€ (7%)
- A strengthened support to Future and Emerging Technologies
 - 260 M€ (11 %)



Proposed indicative budgets – to be confirmed at work programme adoption



Reinforce ICT contributions to major socio-economic challenges

- *Challenge 5: Better healthcare and inclusion systems in ageing society*
 - 259 M€ (11%)
 - + 50 M€ (outside this work programme) to ICT for ambient assistant living in joint national programme
- *Challenge 6: Maximise ICT contributions to the lower-carbon economy*
 - 280 M€ (12%)
 - ▶ including “ICT for a low-carbon economy smart cities”
 - ▶ including “Towards a common approach to cooperative systems in transport”
- *Challenge 7: Reinforce manufacturing and business capacities*
 - 140 M€ (6%)
- *Challenge 8: Adapt learning systems and preserve cultural heritage*



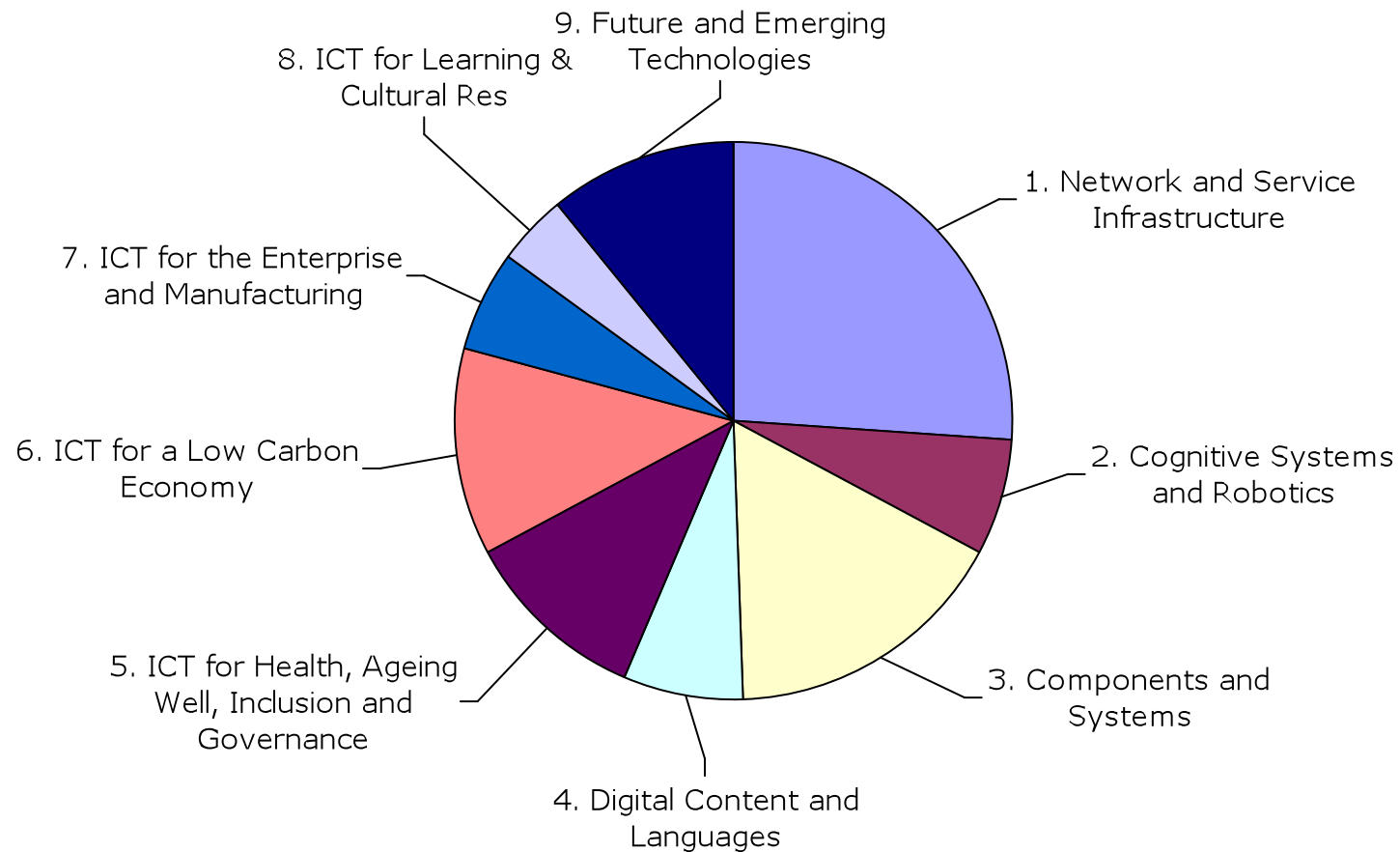
100 M€ (4%)



Proposed indicative budgets – to be confirmed at work programme adoption



FP7/ICT Programme Proposed Priorities



Objectives 1.1 to 1.3

Challenge 1 – Network and service infrastructures

▶ including “Internet of Things for a wiser planet”

- 1.1: Future Networks that support the convergence and interoperability of heterogeneous mobile, wired and wireless broadband network technologies
 - novel Internet architectures; network management and operation frameworks, wireless and broadband systems and ultra-high capacity all-optical networks
- 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
- 1.3: Architecture and technological foundations for Internet-connected sensors, actuators and other smart devices and objects
 - enabling person/object and object/object communications



Objectives 1.3 to 1.6

Challenge 1 – Network and service infrastructures

▶ including “Internet of Things for a wiser planet”

- 1.4: Trustworthy ICT
 - security in networked service and computing environments; trust, privacy and claims management infrastructures; and data policy, governance and socio-economic aspects of trustworthy ICT
- 1.5: Networked media and search systems
 - digital media delivery platforms, end-to-end immersive and interactive media technologies, and multimedia search technologies.
- 1.6: Experimental facilities for experimentally-driven R&D on Future Internet
 - providing larger scale and diversity to test and validate the developments at closer to reality conditions

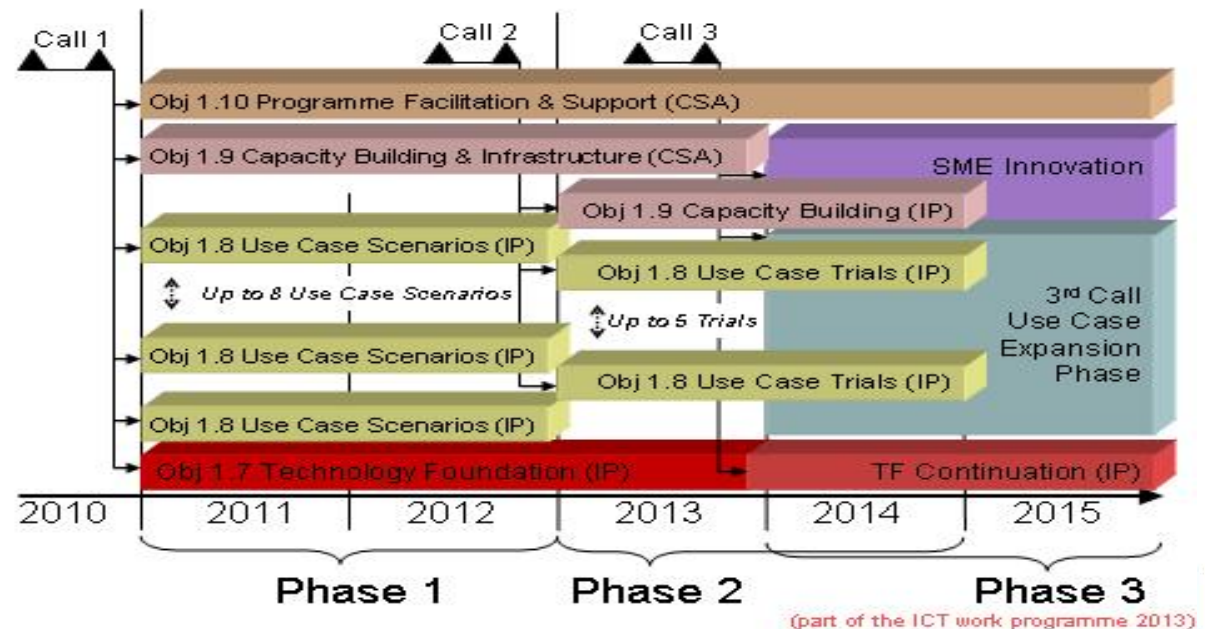


Future Internet PPP

Challenge 1 – Network and service infrastructures

including “Internet of Things for a wiser planet”

- 1.7-1.10: Future Internet Public Private Partnership (FI PPP)
 - R&D of innovative open network & service platforms with generic common enablers
 - experimentation and validation in demand-driven use cases of ‘smart applications’



ICT for a energy-efficiency and the environment

Challenge 6 – ICT for a low-carbon economy

including “ICT for a low-carbon economy smart cities”

- 6.1: Future electricity distribution grids
 - applying seamless communications systems to increase the connectivity, management, automation and coordination between suppliers, consumers & networks
- 6.2: Energy efficient design and decision support tools
 - optimizing the energy performance during systems development and operation, e.g. simulation and planning, enterprise management systems, data centres
- 6.3: Water management
 - including demand-side management, integrated water resource management frameworks and comprehensive decision support systems



ICT for a energy-efficiency and the environment

Challenge 6 – *ICT for a low-carbon economy*

including “ICT for a low-carbon economy smart cities”

- 6.4 + 6.5: Energy-efficient buildings, neighbourhoods and urban/rural areas
 - improving the buildings construction cycle, improving the use of energy beyond buildings, advancing complex urban systems, optimising the dynamics of energy supply and demand in neighbourhoods and extended urban/rural communities
 - Part of Public-Private Partnership on Energy-Efficient Buildings ([EEB PPP](#))



ICT for transport

Challenge 6 – *ICT for a low-carbon economy*

▶ including “Towards a common approach to cooperative systems in transport”

- 6.6: ICT for low-carbon multi-modal freight and logistics
 - covering technologies and services for multi-modal freight and logistics as well as ICT for clean and efficient multi-modal mobility for further improving energy efficiency and reducing CO2 emissions in all modes of transport for passengers and goods
- 6.7: Cooperative Systems for low-carbon multi-modal mobility
 - covering cooperative applications & services for energy efficiency & eco-friendly mobility as well as a European Wide Service Platform (EWSP) for services leveraging those cooperative systems



ICT for transport

Challenge 6 – *ICT for a low-carbon economy*

▶ including “Towards a common approach to cooperative systems in transport”

- 6.8: ICT for fully electric vehicles
 - advancing the development and integration of major building blocks of the Full Electric Vehicle (FEV), and integrating the FEV with infrastructures
 - Part of Public-Private Partnership on Green Cars ([GC PPP](#))



Objectives of international collaboration

- To jointly develop ICT solutions to major **global societal challenges**
- To jointly respond to major global technological challenges by developing **interoperable solutions and standards**
- To improve **scientific and technological cooperation** for mutual benefit



Reinforce and focus support to international collaboration

- General opening
 - International partners welcome in all Challenges and Objectives
 - Eligibility criteria:
 - Minimum 3 different EU Member State or Associated Countries
 - Beyond this minimum, all non-EU/non-AC countries can participate
- Targeted opening
 - The participation of third countries is particularly welcomed
 - Explicitly mentioned in most of the Objectives
- Horizontal actions on international cooperation
 - Coordinated calls (twinning of projects) with Brazil and Russia
 - International partnership building and support to dialogues

International collaboration

Horizontal actions

- 10.3 : International partnership building & support to dialogues
 - Support to dialogues with strategic partner countries and regions
 - to create cooperative research links between European organisations and partners in third countries
 - Enable Partnership building in low and middle income countries
 - addressing at the same time technology and business model innovations, e.g. low-cost technologies, intuitive user interfaces and local content provisioning



Calls for Proposals - deadlines

Main Calls:

- ICT Call 7.....18 Jan 2011
- ICT Call 8.....17 Jan 2012
- ICT Call 9.....17 Apr 2012

PPP Calls:

- FI PPP Call 119 Oct 2010
- EEB, GC, FoF PPPs Call 2010 2 Dec 2010
- EEB, GC, FoF PPPs Call 2011 2 Dec 2011
- FI PPP Call 2 spring 2012

FI: Future Internet, EEB: Energy-Efficient Buildings

FoF: Factories of the Future, GC: Green Cars

Calls for Proposals - deadlines

- EU/Russia coordinated call 14 Sep 2010
- EU/Brazil coordinated call 12 Oct 2010
- FET Flagship Initiatives 19 Oct 2010
- SME initiative on digital content 28 Apr 2011
and languages
- FET Open Continuously open

◀
Proposed call deadlines – to be confirmed at call publication

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

* Separate call

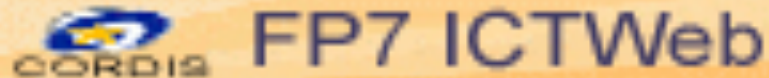
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Which Objective in which Call? (M€)	Call				
	PPP Call 1	7	Call 8	Call 9	PPP Call 2
5. ICT for Health, Ageing Well, Inclusion & Governance					
5.1 Personal Health Systems (PHS)		X			
5.2 Virtual Physiological Human (VPH)		X		X	
5.3 Patient Guidance Services (PGS)		X			
5.4 ICT for Ageing and Wellbeing		X			
5.5 ICT for smart and personalised inclusion		X			
5.6 ICT Solutions for governance and policy modelling		X			
6. ICT for a Low Carbon Economy					
6.1 Smart energy grids			X		
6.2 ICT systems for Energy Efficiency		X			
6.3 ICT for efficient water resources management			X		
6.4 PPP EEB: ICT for energy-efficient buildings & spaces	X				
6.5: PPP EEB: ICT for energy-positive neighbourhoods					X
6.6 Low-carbon multi-modal mobility and freight transport		X			
6.7 Cooperative systems for sustainable mobility			X		
6.8 PPP GC: ICT for fully electric vehicles	X				X
7. ICT for the Enterprise and Manufacturing					
7.1 PPP FoF: Smart factories					X
7.2 PPP FoF: Manufacturing Solutions for new ICT products					X
7.3 PPP FoF: Virtual factories and enterprises	X				
7.4 PPP FoF: Digital factories	X				
8. ICT for Learning and Access to Cultural Resources					
8.1 Technology-Enhanced Learning			X		
8.2 ICT for access to cultural resources				X	

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				X
9.2 High-Tech Research Intensive SMEs in FET research				X
9.3 FET Young Explorers				X
9.4 International cooperation on FET research				X
FET-Proactive				
9.5 FET Flagship Initiative Preparatory Actions*	X*			
9.6 FET Proactive: Unconventional Computation		X		
9.7 FET Proactive: Multi-Level Complex Systems		X		
9.8 FET Proactive: Energy Consumption of Computing		X		
9.9 FET Proactive: Quantum ICT			X	
9.10 FET Proactive: Collective Adaptive Systems			X	
9.11 FET Proactive: Neuro-Bio-Inspired Systems			X	
9.12 Coordinating Communities etc	X	X	X	
9.13 Exa-scale computing, software and simulation	X			
9.14 Joint Call ICT-SSH on 'Science of Global Systems'		X		
10. International Cooperation				
10.1 EU-Brazil Research and Development Cooperation*	X*			
10.2 EU-Russia Research and Development Cooperation*	X*			
10.3 International Partnership building & dialogues	X		X	
11. Horizontal Actions				
11.1 Pre-Commercial Procurement Actions	X			
11.2 National Contact Points	X			
11.3 Cooperation in an Enlarged Europe	X			

* Separate calls

More information



- cordis.europa.eu/fp7/ict/
- ec.europa.eu/information_society/



ICT 2010 Conference

Brussels, 27-29 September

- International cooperation portal:
cordis.europa.eu/inco/