

## FP7 Cooperation

### Information and Communication Technologies ICT



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#### What funds will be available?

Budget 2007 – 2013: 9,110 billion Euros

Call GC, EEB, FoF PPP - 2011	Call Future Internet PPP 2011	Call EU-Russia	Call EU-Brazil	Call FET Flags. initiat.
130 M€	90 M€	4 M€	5 M€	10 M€
Call 7	Call SME initiat*	Call 8*	Call GC, EEB, FoF PPP – 2012*	Call 9*
778.5 M€	35 M€	785.5 M€	120 M€	291 M€
Call Future Internet PPP*	FET Open*			
80 M€	93 M€			

Detailed information on calls: [www.euresearch.ch/calls](http://www.euresearch.ch/calls)

\*the budget for these calls will be confirmed in July 2011

#### What are the objectives and background of Information and Communication Technologies ICT?

##### Objectives

Improving the competitiveness of European industry and enabling Europe to master and shape future developments in ICT so that the demands of its society and economy are met. ICT is at the very core of the knowledge based society. Activities will continue to strengthen Europe's scientific and technology base and ensure its global leadership in ICT, help drive and stimulate product, service and process innovation and creativity through ICT use and value creation in Europe, and ensure that ICT progress is rapidly transformed into benefits for Europe's citizens, businesses, industry and governments. These activities will also help reduce the digital divide and social exclusion.

##### Background

ICT will open up many new opportunities for higher-value products and services, for which partnering at the European level is the optimal approach to ICT investment. The ICT theme prioritises strategic research around key technology pillars, ensures end-to-end integration of technologies and provides the knowledge and the means to develop a wide range of innovative ICT applications.

Activities will cover collaboration and networking actions including topics relying on the work of European Technology Platforms as well as other sources.

The active participation of small and medium-sized enterprises and other small entities in the programme is essential given their role in promoting innovation. They play vital roles in the development and nurturing of new visions in ICT and their applications, as well as, transforming them into business assets.



## What areas will be funded during FP7 under Information and Communication Technologies ICT?

### General

The ICT Work Programme has a set of 8 challenges: Four ICT technology challenges and four challenges with socio economic goals. There are various objectives expressed within these 8 Challenges and Future and Emerging Technologies (FET). For each objective, the Work Programme defines the target outcome of the supported research and the expected impact of these outcomes on the European economy and society.

As part of the European Economic Recovery Plan, the Commission has launched in 2009 three Public-Private Partnerships (PPPs).

- Factories of the Future (FoF)
- Energy-efficient Buildings (EEB)
- Green Cars (GC)

The three PPPs represent a powerful means of boosting research efforts in three large industrial sectors - automotive, construction and manufacturing.

These three PPPs are presented within the relevant ICT challenges. They will, however, be called for separately in coordination with the other FP7 themes.

### Challenge 1: Pervasive and Trusted Network and Service Infrastructures

1. Future Networks
2. Cloud Computing, Internet of Services and Advanced Software Engineering
3. Internet-connected objects
4. Trustworthy ICT
5. Networked Media and Search Systems
6. Future Internet Research and Experimentation (FIRE)

#### **Public Private Partnership Future Internet (FI)**

7. *Technology foundation: Future Internet Core Platform*
8. *Use Case scenarios and early trials*
9. *Capacity Building and Infrastructure Support*
10. *Programme Facilitation and Support*

### Challenge 2: Cognitive Systems and Robotics

1. Cognitive Systems and Robotics

### Challenge 3: Alternative Paths to Components and Systems

1. Very advanced nanoelectronic components: design, engineering, technology and manufacturability
2. Smart components and smart systems integration
3. New paradigms for embedded systems, monitoring and control towards complex systems engineering
4. Computing Systems
5. Core and disruptive photonic technologies
6. Flexible, Organic and Large Area Electronics and Photonics

### Challenge 4: Technologies for Digital Content and Languages

1. SME initiative on Digital Content and Languages
2. Language Technologies
3. Digital Preservation

4. Intelligent Information Management

### Challenge 5: ICT for Health, Ageing Well, Inclusion and Governance

1. Personal Health Systems (PHS)
2. Virtual Physiological Human
3. Patient Guidance Services (PGS), safety and healthcare record information reuse
4. ICT for Ageing and Wellbeing
5. ICT for smart and personalised inclusion
6. ICT solutions for governance and policy modelling

### Challenge 6: ICT for a low carbon economy

1. Smart Energy Grids
2. ICT systems for energy efficiency
3. ICT for efficient water resources management

#### **Public-Private Partnership 'Energy-efficient Buildings' (EEB)**

4. *ICT for energy-efficient buildings and spaces of public use*
5. *ICT for energy-positive neighbourhoods*

6. Low carbon multi-modal mobility and freight transport
7. Cooperative Systems for energy efficient and sustainable mobility

#### **Public-Private Partnership 'Green Cars' (GC)**

8. *ICT for fully electric vehicles*

### Challenge 7: ICT for the Enterprise and Manufacturing

#### **Public-Private Partnership 'Factories of the Future' (FoF)**

1. *Smart Factories: Energy-aware, agile manufacturing and customisation*
2. *Manufacturing solutions for new ICT products*
3. *Virtual Factories and enterprises*
4. *Digital factories: Manufacturing design and product lifecycle management*

### Challenge 8: ICT for Learning and Access to Cultural Resources

1. Technology-enhanced learning
2. ICT for access to cultural resources

### Future and Emerging Technologies (FET)

There are two complementary FET schemes:

**FET-Open:** challenging current thinking and attracting future potential

**FET Proactive:** tackling targeted transformative research and exploring new large-scale scientific challenges and cooperation models

#### FET OPEN

1. Challenging Current Thinking
2. High-Tech Research Intensive SMEs in FET research
3. FET Young Explorers
4. International cooperation on FET research

#### FET Flagship Initiative

5. FET Flagship Initiative Preparatory Actions

#### FET Proactive



6. Unconventional Computation (UCOMP)
7. Dynamics of Multi-Level Complex Systems (DyM-CS)
8. Minimising Energy Consumption of Computing to the Limit (MINECC)
9. Quantum ICT (QICT) including ERA-NET-Plus
10. Fundamentals of Collective Adaptive Systems (FOCAS)
11. Neuro-Bio-Inspired Systems (NBIS)
12. Coordinating Communities, Identifying new research topics for FET Proactive initiatives and Fostering Networking of National and Regional Research Programmes
13. Exa-scale computing, software and simulation
14. Science of Global Systems

### International Cooperation

1. EU-Brazil Research and Development cooperation
2. EU-Russia Research and Development cooperation
3. International partnership building and support to dialogues

### Horizontal Actions

1. Ensuring more efficient, higher quality public services through Pre-Commercial Procurement
2. Supplements to Strengthen Cooperation in ICT R&D in an Enlarged European Union

<http://www.euresearch.ch/ict>

### What other areas of FP7 might I apply for?

- Nano: [www.euresearch.ch/nmp](http://www.euresearch.ch/nmp)
- Health: [www.euresearch.ch/health](http://www.euresearch.ch/health)
- Security: [www.euresearch.ch/security](http://www.euresearch.ch/security)
- Bottom-up research projects for collaboration between SMEs and R&D institutions: [www.euresearch.ch/SME](http://www.euresearch.ch/SME)
- Funding of fellowships: [www.euresearch.ch/people](http://www.euresearch.ch/people)
- Funding of infrastructures: [www.euresearch.ch/infrastructures](http://www.euresearch.ch/infrastructures)

### What key stakeholders should I be aware of?

- European Technology Platforms (ETP) in ICT:
  - ARTEMIS: Advanced R&D on Embedded Intelligent Systems (Joint Technology Initiatives (JTI))
  - ENIAC: European Nanoelectronics Initiative Advisory Council (JTI)
  - eMobility: Mobile and Wireless Communication Technology
  - NEM: Networked and Electronic Media Platform
  - NESSI: Networked European Software and Services Initiative
  - EUROP: European Robotics Platform
  - PHOTONICS21 – The Photonics Technology Platform
  - ISI: Integral Satellite communication Initiative
  - EPoSS: European Technology Platform on Smart Systems Integration
- Public-Private Partnerships (PPP):
  - Factories of the Future (FoF)
  - Energy-efficient Buildings (EEB)
  - Green Cars (GC)
  - Future Internet (FI)
- EU Commission Directorate General Information Society and Media (DG INFSO)
- International Telecommunication Union (ITU)
- European Research Consortium in Informatics and Informatics (ERCIM)

- World Wide Web Consortium (W3C)
- International Federation for Information Processing (IFIP)

You will find all the corresponding links on [www.euresearch.ch/ict](http://www.euresearch.ch/ict)-> Documents & websites

### How do I find partners, for example, to join a consortium?

#### Find partners by:

- Contacting researchers/private industries you know personally
- Attending conferences and events
- Searching the project database of former successful EU projects
- Reading about the experiences of others who have obtained EU funding
- Submitting a partner search request and/or screen the actual requests on IDEALIST, the European partner search tool for ICT projects partners
- Screening the presentations made during the events organized by DG INFSO for each strategic objective of ICT

<http://www.euresearch.ch/ict-partnersearch>

### What other information could be helpful?

#### Key documents

- Publications of the DG INFSO & Media on CORDIS <http://cordis.europa.eu/ist/publications/publications.htm>
- ISTAG Last Report: Revising Europe's ICT Strategy [ftp://ftp.cordis.europa.eu/pub/ist/docs/istag-revising-europes-ict-strategy-final-version\\_en.pdf](ftp://ftp.cordis.europa.eu/pub/ist/docs/istag-revising-europes-ict-strategy-final-version_en.pdf)

#### Key websites

- IST in FP6 on Cordis <http://cordis.europa.eu/ist/>
- ICT in FP7 on Cordis <http://cordis.europa.eu/fp7/ict/>
- Digital Agenda 2020 [http://ec.europa.eu/information\\_society/digital-agenda/index\\_en.htm](http://ec.europa.eu/information_society/digital-agenda/index_en.htm)
- Information Society on Europa [http://ec.europa.eu/information\\_society/index\\_en.htm](http://ec.europa.eu/information_society/index_en.htm)
- European Joint Research Centre (JRC) Publication Repository <http://publications.jrc.ec.europa.eu/repository/>

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- personalised information by Email via your profile at [www.euresearch.ch](http://www.euresearch.ch)
- more information about services via our other R&D Guides, Management Guides and Participation Guides
- Enterprise Europe Network (EEN): Build technology partnerships with organisations in more than 40 countries [www.swisseen.ch](http://www.swisseen.ch)

[www.euresearch.ch/services](http://www.euresearch.ch/services)

#### Who is the Swiss National Contact Point for Information and Communication Technologies ICT?

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## Document information

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