

FP7 ICT Work Programme 2011-12

Remaining Calls up to the end of 2012

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Infoday FP7 EC, 19.10.2011, Minsk



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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
- Support to international cooperation
- Strengthen cooperation in an enlarged Europe
- Support to pre-commercial procurement

ICT in FP7 - Where do we stand?

- Behind us
 - ICT CfPs under WP 2007-08, WP 2009-10 and WP 2011-12
 - >4200 M€ of EU funding committed
 - >1200 projects launched or to be launched
 - >11700 participations
 - >3900 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 2011-12 Calls 8 and 9**
 - ~1350 M€ funding
 - ICT WP 2013
 - >1500 M€ funding
 - JTIs + AAL WPs 2011, 2012, 2013

FP7/ICT Programme Structure

Call 8
Deadline: 17/1/12

2 years budgets

ICT for socio-economic challenges

Call 9
Deadline: 17/4/12

Basic ICT technologies & infrastructures

1. Network and Service Infrastructures	625 M€, 26%
2. Cognitive Systems and Robotics	155 M€, 6%
3. Component and Systems	402 M€, 17%
4. Digital Content and Languages	165 M€, 7%

M€, 260~10%11% 5. ICT for Health, Ageing, Inclusion & Gov.	M€, 280~9%12% 6. ICT for Lower-Carbon Economy	140 M€, 6% 7. ICT for Manufac.& Enterprise	100 M€, 4% 8. ICT for Learning & Cultural Resources
Future Internet PPP FI PPP Deadline: 24/10/2012	Green Car PPP Energy Efficient Buildings PPP	Factory of the Future PPP PPPs Deadline: 1/12/11	

261 M€, 11%
Future & Emerging Technologies (FET)

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



ICT Call 8

- Call launch 20th July 2011
- Call close 17th January 2012; 17h00 Brussels time
- Total indicative budget 785.5 M€
- Ca. **1400** proposals (expected)?
- Evaluation February-April 2012

ICT Call 8

Twelve objectives in five of ICT Challenges

1.1 Future networks

1.2 Cloud computing; advanced software engineering

1.4 Trustworthy ICT

1.6 Future Internet research and experimentation

3.1 Nanoelectronic components

3.2 Smart components and smart systems integration

3.5 Photonics technologies

4.4 Intelligent information management

6.1 Smart energy grids

6.3 Efficient water resources management

6.7 Cooperative systems for energy efficiency and mobility

8.1 Technology-enhanced learning

ICT Call 8

Four FET Proactive objectives

9.6 Unconventional computation

9.7 Dynamics of multi-level complex systems

9.8 Minimising energy consumption of computing to the limit

9.12 Coordinating communities, identifying new research topics, fostering networking of national and regional programmes

Two specially targeted actions

9.14 Science of global systems

11.1 Pre-commercial procurement actions

Public Private Partnership calls 3

Factories of the Future 2012 (FoF)

7.1 Smart factories; energy-aware, agile manufacturing and customisation

7.2 Manufacturing solutions for new ICT products

Energy-efficient Buildings (EoB)

6.5 ICT for energy-positive neighbourhoods

Green Cars (GC)

6.8 ICT for fully electric vehicles

Public Private Partnership calls 3

- Calls launch 20th July 2011
- Calls close **1st December 2011**; 17h00 Brussels time
- Total indicative ICT budget
FoF 60 M€; EeB 30 M€; GC 30 M€
- FoF **60**; EeB **35**; GC **20** – ca. proposals?
- Evaluation January-March 2012

Why Public Private Partnerships (PPP)?

- Strong focus on industry-led roadmaps
- Cut across themes, technologies and research disciplines
- Cut across policy silos ("supply and technology push" + "demand and market pull")
- INFISO/ICT PPP
 - Future Internet PPP
- Jointly implemented with other Themes (DG RTD, ENV, ENERGY, NMP)
 - ICT in the Factories of the Future PPP
 - ICT in the Green Cars PPP
 - ICT in the Energy Efficient Buildings PPP

ICT Call 9

- Call launch 18th January 2012!!!!
- Call close 17th April 2012; 17h00 Brussels time
- Total indicative budget 291 M€

ICT Call 9

Five objectives in five of ICT Challenges

- **2.1 Cognitive Systems and Robotics**
- **4.3 Digital Preservation**
- **5.2 Virtual Physiological Human (VPH)**
- **8.2 ICT for access to cultural resources**
- **10.3 International Partnership building & dialogues**

ICT Call 9

Four FET Proactive objectives

- **9.9 FET Proactive: Quantum ICT**
- **9.10 FET Proactive: Collective Adaptive Systems (FOCAS)**
- **9.11 FET Proactive: Neuro-Bio-Inspired Systems (NBIS)**
- **9.12 Coordinating communities, identifying new research topics, fostering networking of national and regional programmes**

Challenge 1

Network and service infrastructures Call 8

Deadline: 17/1/12

160 M€

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 broadband systems and ultra-high capacity all-optical networks

70 M€

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

80 M€

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

25 M€

1.6: Future Internet Research and Experimentation (FIRE)

- FIRE Federation
- FIRE Experimentation
- Coordination and support



Challenge 1

Future Internet PPP

Launch date: 18/5/12

Deadline: 24/10/12

67.5 MC

1.8: Use case scenarios and early trials

- Working experimentation sites building upon common components and generic enablers
- Selected test applications
- Validation of the openness and versatility of the Core Platform and its Software Development Kit
- Detailed plan for the large scale expansion of platform usage

12.5 MC

1.9: Capacity Building and Infrastructure support

- Integration of identified infrastructures satisfying the interoperability requirements
- Adaptation, upgrade and validation of the infrastructures to support usage requirements from use cases
- Pan-European federation of test and experimental infrastructures satisfying interoperability requirements



2.1 Cognitive systems and robotics (Call 9)

Launch date: 18/1/12

Deadline: 17/4/12

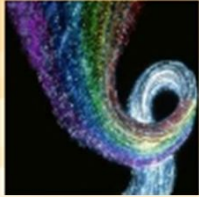
82 M€

- Cognition and control in complex systems
 - cognitive capabilities to enhance performance and manageability of artificial systems
- Gearing up cross-fertilisation between academic and industrial robotics
 - strengthen synergies
 - joint industrially-relevant scenarios
 - shared research infrastructures
 - joint small- to medium scale experimentation
 - comparative performance evaluation
- Smarter robots through targeted competitions
 - reference scenarios
 - soliciting private sponsorships
 - organising and managing events

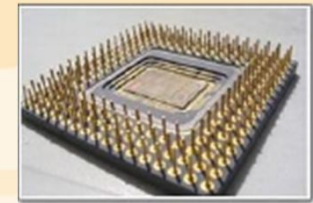


Challenge 3

Nanoelectronics, Smart systems, Photonics – Call 8



Deadline: 17/1/12



60 M€

3.1: Very advanced nanoelectronic components: design, engineering, technology and manufacturability

- alternative solutions to the traditional miniaturisation path, for information & communication systems & other applications

39 M€

3.2: Smart components and smart systems integration

- Micro-Nano Bio Systems (MNBS)
 - Increased intelligence
 - Enhanced miniaturisation
 - Increased integration

92 M€

3.5: Photonics

- Core photonics technologies
 - Optical data communications / Biophotonics / Imaging and sensing for safety and security / Lighting and displays / Photonics integration platforms
- ERANET-Plus action
- Innovative solutions through Pre-Commercial Procurement (PCP)

Challenge 4

Technologies for digital content and languages

30 M€

4.3: Digital preservation – Call 9

- Ensuring reliability of retrieval and use of digital resources across applications and platforms over time, and design digital content natively engineered for obsolescence avoidance

Deadline: 17/4/12

4.4: Intelligent information management – Call 8

Deadline: 17/1/12

50 M€

- Scaling up data analysis to keep pace with the rate of growth of data streams and collections and enable novel forms of real-time intelligence only possible on extremely large data volumes



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66.5 M€

- Patient-specific predictive computer-based models and simulation
 - integrating medical, biological and environmental data
 - explore the interaction and integration of environmental factors with medical & biological factors
 - demonstrate for a specific clinical need (all major diseases)

- ICT tools, services and infrastructure for multi-scale models and larger repositories
 - robustness and reproductibility
 - standards for models and data, tools and repositories
 - VPH Infostructure including a sustainable VPH model and data repositories
 - open environments and open-source software expected

- Demonstrators and proof of concept of digital representations of health status
 - integrating different patient-specific data and models of organs
 - coherent representation of a "Digital Patient"

Challenge 6

ICT for a low-carbon economy Call 8 and PPP



Deadline: 17/1/12

30 M€ 6.1: Smart energy Grids

- Intelligent systems and integrated communication infrastructure to assist in management of electricity grids

15 M€ 6.3: ICT for efficient water resources management

- ICT-enabled solutions for integrated water resources management (innovative demand management systems, decision support systems, data management technologies)

30 M€ 6.5: **PPP** EEB: ICT for energy-positive neighbourhoods

- management and control, decision-support systems for energy supply and demand in neighbourhoods and extended urban/rural communities

Deadline: 17/1/12

Deadline: 1/12/11

->Part of Public-Private Partnership on **Energy-Efficient Buildings**

Challenge 6

ICT for a low-carbon economy Call 8 and PPP



Deadline: 17/1/12

40 MC

6.7: Cooperative systems for energy efficient and sustainable mobility

- Cooperative Systems for low-carbon multi-modal mobility
 - focus on road transport
- European Wide Service Platform (EWSP) for cooperative system enabled services
- Coordination and support actions

• 6.8: **PPP GC**: ICT for fully electric vehicles (FEV)

30 MC

- Electric Drive and Electronic Components
- Integration of the FEV in the cooperative transport infrastructure
- Functional Safety and Durability of the FEV
- Coordination and Support Action “FEV made in Europe”

Deadline: 1/12/11

->Part of Public-Private Partnership on **Green Cars**



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Challenge 7

ICT for the enterprise and manufacturing - PPP

40 MC

7.1: 'Smart factories'

- Demonstration and benchmarking of novel process automation and control
- Large-scale validation of advanced industrial robotics systems
- Applications based on factory-wide networks of intelligent sensors and new metrology tools and methods
- Lasers and laser systems for manufacturing and materials processing

->Part of Public-Private Partnership on **Factories of the Future**

20 MC

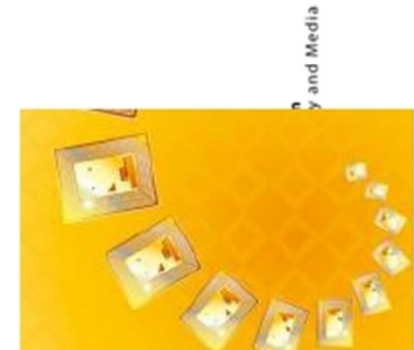
7.2: 'Manufacturing solutions for new ICT products'

- Feasibility demonstrators for industrial, low cost, high volume and high throughput manufacturing
- Production of organic and large area electronics and photonics products
- Industry-driven projects with quality control, testing and validation

->Part of Public-Private Partnership on **Green Car**

Deadline: 1/12/11

Deadline: 1/12/11



Challenge 8

ICT for learning and cultural resources

60 MC

8.1: Technology-enhanced learning – Call 8

- Advances in learning through ICT
- Systems endowed with the capabilities of human tutors
- Educational technologies for science, technology and maths
- Solutions for deployment of learning opportunities at the workplace
- Computational tools fostering creativity in learning processes

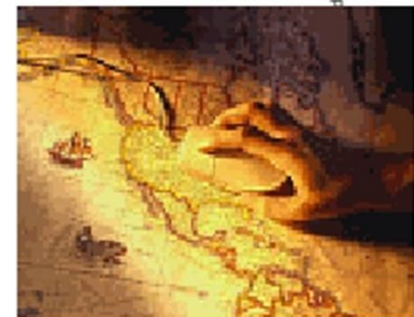
Deadline: 17/1/12

40 MC

8.2: ICT for access to cultural resources – Call 9

- Enhancing the meaning and experiences from digital cultural and scientific resources
- Creating personalised and engaging digital cultural experiences
- Platforms for building services to support use of cultural resources for research and education
- Technologies for the digitisation of cultural resources

Deadline: 17/4/12



FET Open

Future and Emerging Technologies

Deadline: 31/12/12

- 75 M€** 9.1: Challenging current Thinking
 - 9 M€** 9.2: High-Tech Research Intensive SMEs in FET research
 - 6 M€** 9.3: FET Young Explorers
 - 3 M€** 9.4: International cooperation on FET research
- Cut-off dates:

Batch	Short STREPs	Full STREPs and CSAs
12	3/5 2011	25/10 2011
13	25/10 2011	10/4 2012
14	10/4 2012	25/9 2012
15	11/9 2012	12/3 2013

FET Proactive and special initiative



Call 8

Deadline: 17/1/12

- 15 M€ – 9.6: Unconventional Computation
- 23 M€ – 9.7: Dynamics of Multi-Level Complex Systems
- 15 M€ – 9.8: Minimising Energy Consumption of Computing to the Limit
- 3 M€ – 9.12: Coordination

Call 9

- 22 M€ – 9.9: Quantum ICT
- 23 M€ – 9.10: Fundamentals of Collective Adaptive Systems
- 23 M€ – 9.11: Neuro-Bio Inspired Systems
- 2.5 M€ – 9.12: Coordination

Deadline: 17/4/12

- 3.5 M€ – 9.14 'Science of Global Systems' – Call 8
 - Tools to represent uncertainty and to construct chains of causality for use in socio-political decision processes

Deadline: 17/1/12

International collaboration

Horizontal actions

Call 9

Deadline: 17/4/12

2 ME

10.3: International partnership building & support to dialogues

Enable Partnership building in low and middle income countries

- Low-cost technologies, technologies promoting or enabling use of ICT, intuitive user interfaces and local content provisioning

Targeted countries: Low and middle income countries including Africa

Next Calls for Proposals – Deadlines - Reminders

- Energy-Efficient Buildings, Green Cars, Factories of the Future **PPPs** Call 2011..... 1 Dec 2011
- **ICT Call 8**.....17Jan 2012
- **ICT Call 9**.....17Apr 2012
- Future Internet **PPP** Call 2 24 Oct 2012
- FET OpenContinuously open
-

New Ideal-ist in your disposal

<http://www.ideal-ist.eu/>

The screenshot shows a Windows Internet Explorer browser window displaying the Ideal-ist website. The browser's address bar shows the URL <http://www.ideal-ist.net/>. The website header features the Ideal-ist logo, the text "Ideal-ist Your Worldwide ICT Support Network", and the website address "www.ideal-ist.eu". The date "Mon. 17/10/2011" is displayed, along with a search bar and navigation links for "User's Login", "Register", and "Consortium Area". The main navigation menu includes "Home", "About Ideal-ist", "Partner Search", "Service Map", "Events & News", "ICT in FP7", "Representatives", and "Press". The main content area features a large image of a diverse group of business professionals in an office setting. Overlaid on this image are four call-to-action buttons: "View Partner Searches", "Launch a New Partner Search", "Find Services in your Country", and "Find your Representative". To the right of the image, a text box explains that Ideal-ist addresses ICT companies and research organisations worldwide wishing to find project partners for participation in the Seventh Framework Programme (FP7) of the European Commission (2007-2013). Below the main content area, there are sections for "Recently Published Partner Searches", "ICT News", and "ICT Events". The Windows taskbar at the bottom shows the Start button, several open applications (including Microsoft Office Word and Outlook), and the system tray with the date and time "20:16" and "понедельник".

Getting help with proposals



FP7 ICTWeb

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



**Thank you for your attention!
And – good luck!**

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