



EU ICT PRO

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EU ICT Promóciós Csoport

Information and Communication Technologies

FP7 - ICT

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EU ICT-Pro

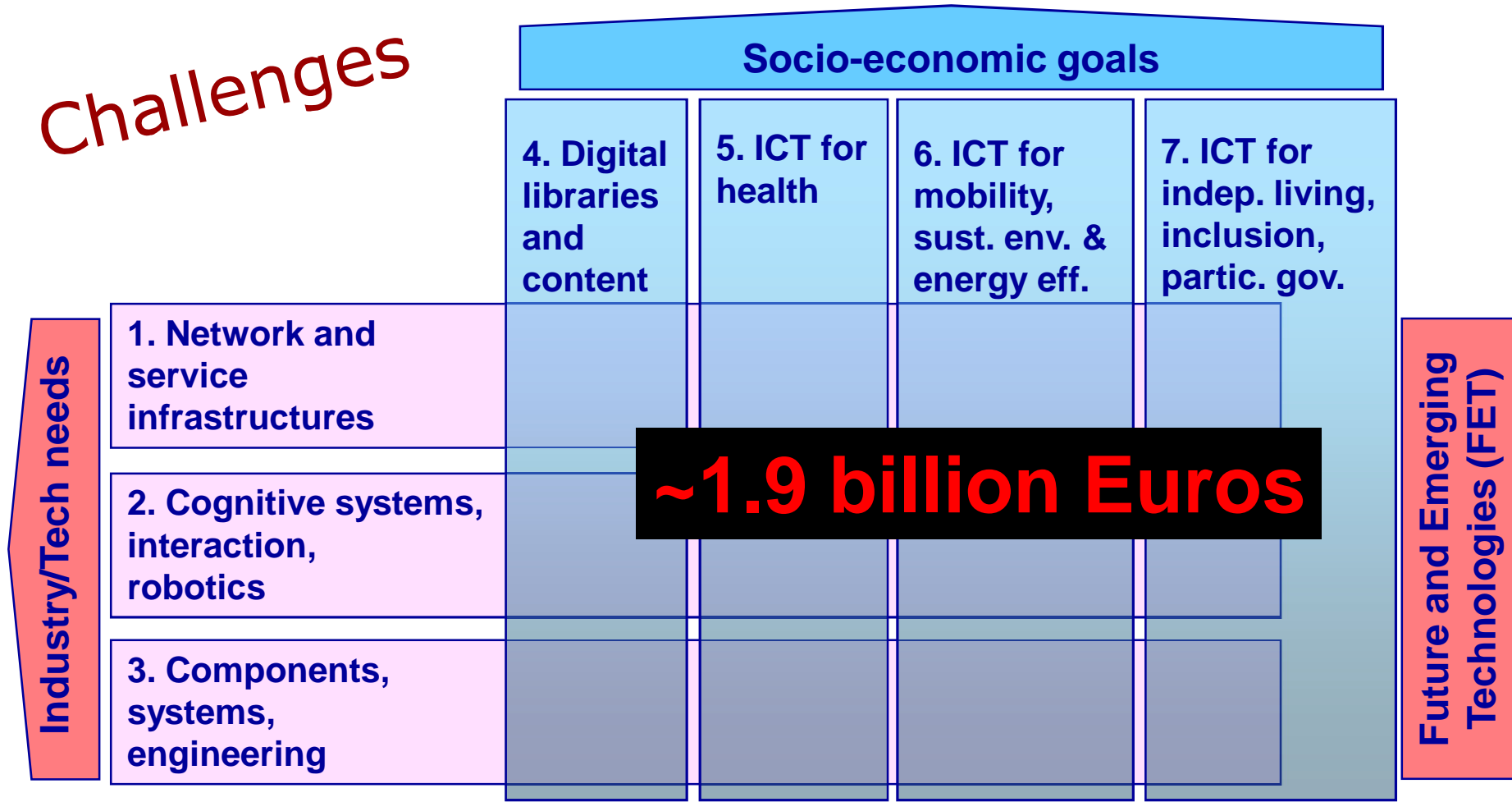
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FP7 ICT Work Programme 2009-10

Challenges



Draft

Changes in 'modalities'

WP 2011-13

5. ICT for Health and well-being

6. ICT for a low-carbon economy

7. ICT for the enterprise and manufacturing

8. Digital libraries and learning

Future and Emerging Technologies

1. Networking, computing and service infrastructure

Future Internet PPP

2. Smart environments, cognition, interaction and control

JTIs ENIAC and ARTEMIS

3. Alternative paths to components

4. Content, information management & media technologies

International cooperation – Other horizontal actions

AAL

GC PPP
EeB PPP

FoF PPP





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ICT – Call 6

Call identifier: FP7- ICT -2009-6
Date of publication: 24 November 2009

**Deadline: 13 April 2010 at 17.00.00
(Brussels local time)**

Indicative budget: EUR 286 million



IC
Cognitive

Research Objectives

C6 ICT-2009.2.1: Cognitive Systems

ICT-2009.2.2: Language Based Interaction

Target outcomes

- a) engineering of artificial cognitive systems
- b) endowing robots with advanced perception and action capabilities
- c) designing and implementing complete robotic systems
- d) system architectures integrating communication, control, and cognitive capabilities
- e) cross-fertilisation between academic and industrial research
- f) Virtual Institute
- g) co-operation and communication within a multidisciplinary robotics community
- h) co-operation and communication within a multidisciplinary artificial cognitive systems research



ICT – Challenge 4 Digital Libraries and Content

Research Objectives

C6

ICT-2009.4.1 Digital libraries

ICT-2009.4.2 Technology-enhanced learning

ICT-2009.4.3 Intelligent information management



Work programme 2009-2010: Digital Libraries and Digital Preservation

Digital preservation research topics

- a) Scalable systems and services for preserving digital content (IP)
- b) Advanced scenarios / challenging problems
 - 1) preserving complex objects (new) (STREP)
 - 2) intelligent digital curation and preservation (IP)

Digital libraries research topics

- c) Innovative solutions for assembling multimedia digital libraries (IP)
- d) Adaptive cultural experiences (new) (STREP)



Work programme 2009-2010: Digital Libraries and Digital Preservation

e) **Research capacity** building:

- Interdisciplinary research networks

f) **Uptake** of research results:

- Promoting uptake to encourage deployment; roadmapping; showcase, validation and demonstration centres (**new**)



ICT – Challenge 5 Towards Sustainable and Personalised Healthcare

Research Objectives

ICT-2009.5.1: Personal Health Systems

ICT-2009.5.2: ICT for Patient Safety

C6

ICT-2009.5.3: Virtual Physiological Human

ICT-2009.5.4: Int'l Coop. on Virtual Physiological Human



Objective 5.3 VPH Call 6

Target outcomes overview:

- a) Patient-specific computer based models and simulation
- b) ICT tools, services and infrastructures for bio-medical researchers
- c) Evaluation and assessment of VPH Projects w.r.t.
- d) Observatory on achievements and evolution of the broader BMI field (e.g. bioinformatics, Medical informatics, neuro-informatics)

a) and b) IP/STREP 61M€

c) SA 1M€

d) CSA 1M€



VPH Call 6

Focus a):

Patient-specific computer based models and simulation

- Multiscale models & simulation of organs/systems targeting specific clinical needs.
- Better understanding of the functioning of the organs and their pathologies aiming at prediction/early diagnosis.

Emphasis on:

- Integration of existing models
- Clinical benefits demonstrated
- Data acquisition, medical, clinical, bio research (if needed) < 25%
- Access to external computing facilities supported

Not in scope:

- proposals which cover only one biological scale.
- improvement of current medical image processing techniques (image based models)
- Modelisation of clinical processes
- Full development of simulator based on medical images only
- Geometrical model of the anatomy



VPH call 6

Focus b):

ICT tools, services and infrastructures for bio-medical researchers to support at least 2 of the 3 activities:

1. Share data and knowledge
 2. Jointly develop and share models/simulators
 3. Create collaborative environments
- Interface to access to resources like Grid/HPC infrastructures
 - Ability to interface with existing medical research infrastructure
 - Complement/compatible with existing methods/standards to be suggested by VPH-NoE



VPH call 6

Focus a) and b)

Instrument/budget:

- STREP/IP
- Budget: 61M€
- Minimum 30% to STREP; more than 50% to IPs including at least one in (a) and one in (b)
- For a) Considering the coverage of the projects already funded in this field, the selection of proposals targeting clinical applications other than cancer and cardiovascular diseases will be given preference in case of proposals with tied scores at the evaluation stage.



VPH Call 6

Focus c)

Evaluation and assessment of VPH Projects w.r.t. optimal use and contribution of

- Shared tools/infrastructure
- Clinical achievements
- Market potential/ penetration

Instrument/budget:

- SA max funding of 1M€



VPH Call 6

Focus d)

Observatory on achievements and evolution of the broader BMI field (e.g. bioinformatics, Medical informatics, neuro-informatics):

- Facilitate communication between projects
- Dissemination and training

Aim at:

- Sustaining cross collaboration among different fields
- Build on related NoEs

Instrument/budget:

- CSA max funding of 1M€



Objective 5.3 – Virtual Physiological Human

Expected impacts:

- Predictive, individualised safer Healthcare
- Accelerate medical knowledge discovery and management and the use of computer based environments
- Improve interoperability of BioMedical information and knowledge
- Acceptance and use of realistic and validated models
- Re-enforce leadership of EU industry and strengthen multidisciplinary research in supporting innovative medical care.



ICT - Challenge 6

ICT for Mobility, Environmental Sustainability and Energy Efficiency

Research Objectives:

ICT-2009.6.1 - ICT for Safety and Energy Efficiency in Mobility

C6

ICT-2009.6.2 - ICT for Mobility of the Future

ICT-2009.6.3 - ICT for Energy Efficiency

ICT-2009.6.4 - ICT for Environmental Simulation & Monitoring

ICT-2009.6.5 - Novel ICT solutions for Smart Electricity Distribution Networks (Joint Call ICT-Energy)



Call 6 - Objective 6.2:

ICT for Mobility of the Future

- Field Operational Tests for Integrated Safety Systems and Co-operative Systems ⇒ **IP, STREP, CSA**
 - assess improvements in efficiency, safety and comfort
 - analysis of user acceptance, performance and benefits

- ICT-based Systems & Services for Smart Urban Mobility & New Mobility Concepts ⇒ **STREP**
 - address the environmental footprint and safety of mobility, while fostering economic growth

- Coordination and Support Actions ⇒ **CSA**
 - Including International Cooperation



Sub-area: Field Operational Test for Integrated Safety Systems and Cooperative Systems

Aiming at:

- assess improvements in efficiency, safety and comfort
- collect data allowing analysis of user acceptance, performance and benefits for road safety and efficiency of both autonomous on-board and cooperative systems

Research topics include:

- large-scale test programmes of close-to-market systems, before their full-scale deployment in Europe.
- performance validation of safety-related co-operative systems

"...FOT's are an essential tool to test several ICT systems in real environment and thus give the opportunity to evaluate their combined impact on drivers' behaviour and on the transport system..." (SRA, ICT for Mobility)

Open for
IP, STREP and CSA





Sub-area: ICT-based systems and services for Smart Urban Mobility and New Mobility Concepts

Aiming at:

- to address the environmental footprint and safety of mobility, while fostering economic growth.

Research topics include:

- innovative new tools, services and methods for demand management ICT tools and services for logistics optimized for urban environments
- use of ICT for replacing mobility (virtual mobility, tele-presence)
- new, multi-modal urban mobility concepts



"...Research needs to be pursued in several complementary areas in a coordinated manner in order to develop further concepts for urban mobility..."

(SRA, ICT for Mobility)



Sub-area: **Coordination and Support Actions**

Open for
CSA

In the framework of the Intelligent Car initiative

- research agendas
- dissemination of results (user awareness campaigns)
- assessments of socio-economic impact
- training





Sub-area: **International Cooperation**

active exchange of information through:

- the creation of bilateral task force(s)
- regular workshops:
 - for mutual validation and exploitation of programme results, e.g. methodologies, draft specifications and standards; and
 - for accessing Field Operational Tests datasets.



**Open for
CSA**

"...International Cooperation is necessary to allow Europeans (industry and public authorities) to exploit research results quickly and to adapt them to the regional requirements..." (SRA, ICT for Mobility)



Future and Emerging Technologies

- ICT-2009.8.1 Concurrent Tera-device Computing
- ICT-2009.8.2 Quantum Information Foundations and Technologies
- ICT-2009.8.3 Bio-chemistry-based Information Technology
- ICT-2009.8.4 Human-Computer Confluence
- ICT-2009.8.5 Self-Awareness in Autonomic Systems
- ICT-2009.8.6 Towards Zero-Power ICT
- ICT-2009.8.7 Molecular Scale Devices and Systems
- ICT-2009.8.8 Brain Inspired ICT
- ICT-2009.8.9 Coordinating Communities, Plans and Actions in FET Proactive Initiatives
- ICT-2009.8.10 Identifying new research topics, Assessing emerging global S&T trends in ICT for future FET Proactive initiatives

Call 6

Cont

- ICT-2009.8.0 FET-Open



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Horizontal Support Actions

Call 6

ICT-2009.9.1 International cooperation

Call 6

ICT-2009.9.2 Supplements to Support International Cooperation between Ongoing Projects



Upcoming events + past important events

2009. december 2.	Brussels, Belgium	<u>FP7 consultation meeting on Service and Social Robotics for the Ageing Population</u>
2009. december 15-16.	Amsterdam, Netherlands	<u>ARTEMIS Brokerage event for call 2010</u>
2010. január 14-15.	Brussels, Belgium	<u>Photonics21 Annual Meeting 2010</u>
2010. január 14	Luxembourg	<u>ICT Challenge 2 - Cognitive Systems, Interaction and Robotics Information Day</u>
2010. január 19.	Brussels, Belgium	<u>Networked Media systems – Defining Future Research Challenges</u>
2010. január 26.	Brussels, Belgium	<u>The Future of Cloud Computing</u>
2010. január 21.	Brussels, Belgium	FET Call 6 Infoday
2010. február 23-24	Brussels, Belgium	<u>High Level event on ICT for Energy</u>
2010. március 1-2.	Nürnberg, Germany	<u>ARTEMIS Spring Event 2010</u>
2010. március 10-12.	San Sebastian, Spain	<u>EUROP Technology Platform and EURON Network Annual Meetings</u>
2010. április 14-16.	Valencia, Spain	<u>Future Internet Assembly</u>
2010. szeptember 27-29.	Brussels, Belgium	<u>ICT Event - FP7 ICT Conference & Exhibition</u>

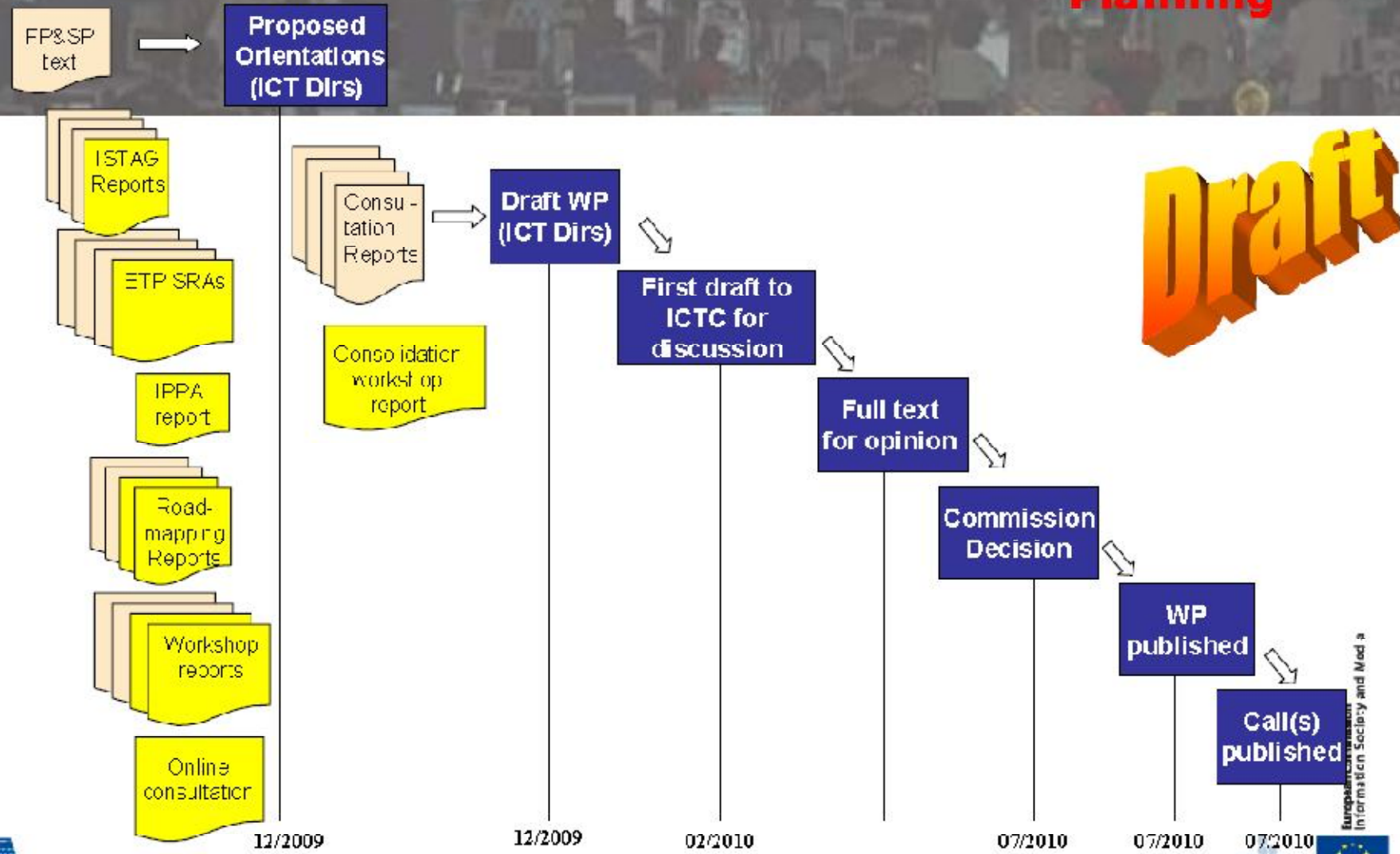


ICT Work Programme Consultation Process

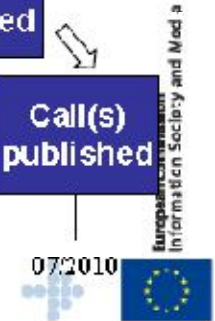
- Szoftverek és szolgáltatások webes konzultáció eredményei. [Bővebben...](#)
- Az EPoSS Technológiai Platform publikálta a munkaprogramhoz adott véleményét: [Bővebben...](#)
- A DG INFSO eInclusion részlege konzultációs workshopot szervez Brüsszelben robotika témában. [Bővebben...](#)
- Networked Media webes konzultáció. [Bővebben...](#)

Work Programme 2011-13

Planning



Draft



Note: dates are tentative



ETP / JTI

- **AAL** - <http://www.aal169.org/>
- **NEM** - <http://www.nem-initiative.org/>
- **EUROP** - <http://www.robotics-platform.eu/>
- **ISI** - <http://www.isi-initiative.eu.org>
- **ARTEMIS** - <http://www.cordis.lu/ist/artemis>
- **eMobility** - <http://www.emobility.eu.org>
- **ENIAC** - <http://www.eniac.eu/>
- **Nessi** - <http://www.nessi-europe.com>
- **Photonics21** - <http://www.photonics21.org/>
- **EPoSS** - <http://www.smart-systems-integration.org>



Useful information, services

- FP7 <http://cordis.europa.eu/fp7/>
- ICT programme <http://cordis.europa.eu/fp7/ict>
- EU ICT Pro <http://www.ist.hu>
- Partner search <http://www.ideal-ist.net>
<http://cordis.europa.eu/partners-service/>
- Finance Helpdesk <http://www.finance-helpdesk.org>
- IPR Helpdesk <http://www.ipr-helpdesk.org>



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