Preparatory work for the Framework Programme 8 in Software and Services research

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EU research and innovation funding 2007-2013

Seventh Framework Programme (FP7)

**budget: 53.3 billion euro**

Research, technological development and demonstration activities across the EU, four Specific Programmes: Cooperation, Ideas, People and Capacities; also supports research in nuclear energy (Euratom) and the Joint Research Centre (JRC).

Competitiveness and Innovation Framework Programme (CIP)

**budget: 3.6 billion euro**

Encourage the competitiveness of European industry, with SMEs as its main target.

Cohesion policy

About 86 billion euro (25% of the total Structural Funds budget) allocated to enhancing the capacity of regional economies to change and innovate.

The European Institute of Innovation and Technology (EIT)

An autonomous EU body bringing together the higher education, research and business sectors to stimulate worldleading innovation.

**budget: 309 million euro**
EU FP8 preparation: the context

Europe 2020 strategy: the overall EU strategy for smart, sustainable and inclusive growth

Two of the “flagship initiatives” in Europe 2020:

**Digital Agenda**
strategy for a flourishing digital economy by 2020

**Innovation Union**
make Europe into a world-class science performer

(Other Flagship Initiatives: Youth, Resource efficiency, Industrial policy, New skills and jobs, Against poverty)

**FP8 (starting 2014)**
- Link to grand European challenges
- Better management and simpler administration
- Complementary approaches
- Open light and fast
- Roadmap based research
EU FP8 preparation: key ideas

Science for science (researchers set the agenda)
Science for competitiveness (industry sets the agenda)
Science for society (civil society actors set the agenda)

(Interim evaluation of the 7th FP)

- Coordination and pooling with Member States
- Pre-commercial procurement and Public-Private Partnership
- Structural funds for research & innovation
e-infrastructures, cloud computing strategy

(Digital Agenda)

Open, light and fast schemes in addition to roadmap-based

(Green paper COM(2011) 48)

- Strengthening and further developing the role of EU instruments to support innovation:
  - structural funds, rural development funds, R&D framework programme, CIP ...
  - EIB ...
  - and streamline administrative procedures ...

(Innovation Union)

Join the consultation on the changes to EU research and innovation funding
(green paper): http://ec.europa.eu/research/csfri/index_en.cfm
FP8 preparation - timeline

2010

Framework Programme 7

WP 2009-2010

Workprogramme 2011-2012

Future Internet PPP phase 1

Future Internet PPP phase 2

WP 2013

2011

2012

2013

2014

Framework Programme 7

FP8

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FI-PPP phase3 (to2015)
Today’s work
Projects addressing challenges

Internet of Services

Service Front-Ends
- SOCIETIES, I2Web, OMELETTE, Serenoa, SocIoS

Service Platforms
- WAX, SRT-15, PLAY, Indenica

Cloud Computing

Platform as a Service
- 4CaaST, CumuloNimbo, Cloud4SOA

Infrastructure as a Service
- VISION Cloud, OPTIMIS, CONTRAIL, Cloud-TM, mOSAIC

Advanced Software Engineering

Service coordination
- CHOReOS, ACSI

Testing
- FITTEST

Maintenance
- FastFix

Migration to clouds
- REMICS

Open source development
- ALERT

Coordination and Support Actions
- HOLA!, MobiWebApp, MOSQUITO, SEQUOIA, SOFI, SPRERS
Addressing (near) future challenges
Obj. 1.2, ICT WP 2011-2012

## Cloud computing
- Management of cloud resources
- Cloud Interoperability
- Support of mobile, context-aware applications
- Integration of computing and networking environments

## Internet of services
- Service engineering
  - Services enabled by integration of real and virtual worlds
  - Scalability, self-management, fault localisation, ...
- Life cycle management tools and methods

## Advanced software engineering
- Advanced engineering for software
- Quality measure and assurance techniques
- Management of non-functional requirements
- Tools and methods for community-based software development

### Support actions
- Standardization and collaboration
- Open source development model
- Cooperation with Japan on cloud computing
What input do we need for FP8 preparation?

**Vision**, not only technologies!
Which challenges can be solved by ICT? (policy, markets, industry, society...)

**How to get there** (roadmap)

**Impact** and chance of success

**Priorities**: what **is** important and what **might be**

Which are the **stakeholders**? Identify our "customers"

**Innovative**, controversial, high-risk, visionary ideas
Thanks for your contributions!

just to start the discussion... a “tag cloud” built from your position papers
For more information

FP7
http://cordis.europa.eu/fp7/
http://cordis.europa.eu/fp7/ict/

Software & Service Architectures and Infrastructures

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Public consultation on EU research and innovation funding
http://ec.europa.eu/research/csfri/index_en.cfm