

### ICT WP2013 July 2012

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### **Context and trends**

ICT: a critical infrastructure for growth

• key for all vital social and economic processes

### The need for a new approach towards innovation

 important to translate breakthrough technologies into innovations (new products, processes and services) need to better integrate research and innovation

### Social innovation: an important driver

- development of the emerging ICT-intensive world should not be only technology-driven
- bottom-up and user-generated innovation becomes more influential





# ICT in FP7 - Where do we stand?

Behind us

- ICT CfPs under WP 2007-08, WP 2009-10 and WP 2011-12
  - 5025M€ funding committed (15% to SMEs) 1483 projects launched and contracts signed 14365 participations (4644 distinct organisations)
- Calls under two Joint Technology Initiatives (Artemis and Eniac) and the Ambient Assisted Living Joint Programme (AAL) in 2008, 2009, 2010 and 2011

### Ongoing activities

• ICT WP 2011-12 Calls 8 and 9 (DL:1/2012; 4/2012)

~1350 M€ funding

Call 8 received 1405 proposals with 12169 participations

Call 9 received 645 proposals with 5117 participations

• ICT WP 2013

 $\sim$ 1484 M€ funding for projects

• JTIs + AAL WPs 2012 and 2013





### **Inputs to WP2013**

- ISTAG
  - ISTAG Report on "Orientations for EU ICT R&D and Innovation beyond 2013" (July 2011)
  - Draft ISTAG Report on "FP7 ICT WP2013 orientations" (March 2012)
- Member States Committee (ICTC)
- European Technology Platforms
- Workshops and meetings
- Studies and analysis
- Results of the first 7 calls for proposals (portfolio analysis)







### WP2013: a dual objective

### Ensure a certain degree of continuity in priorities

- original FP7 ICT R&D challenges express mid- to long-term objectives
- core technology and application areas will continue to be key challenges
- requires a sustained effort until the end of the Framework

### Bridge to activities in Horizon 2020

- *important role to play in preparing for Horizon 2020*
- adaptation of the strategy towards a more integrated R&I approach
- pilot new approaches





### Main features (I)

### Continuity

 Completion of activities launched since the start of FP7 including Public Private Partnerships (PPP)

### Prepare for the launch of Horizon 2020

- Reorganising to adapt to H2020 structure
- Prepare for new activities
- Prepare for new PPPs

### Bridge to innovation

- New activities to enable testing and validation
- Support to a better exploitation and take-up
- Continue Pre-Commercial Procurement scheme





### Main features (II)

### Involving more SMEs

• Specific SME-targeted activities

### Prepare FET Flagships

Ramp-up phase for two selected flagships

### Pilot new social innovation approaches

New dedicated activity

### Contributing to broader policy agendas

Support to EIP on Active and healthy Ageing









### Pervasive and Trusted Network and Service Infrastructures

• Continue roadmap based research

Challenge 1

- To leverage new constituencies (innovative SMEs)
- Software systems laying the basis for the future European Cloud strategy
- To open the Future Internet PPP platform following an open innovation model





### **Pervasive and Trusted Network and Service Infrastructures**



challenge 1

### 1.1: Future Networks

- Next generation heterogeneous wireless and mobile broadband systems;
- Call 11
- High throughput low-latency infrastructures; Internet architectures; Tighter integration of satellite and terrestrial communications technologies; **Coordination and support actions**
- http://cordis.europa.eu/fp7/ict/future-networks/home en.html



#### 1.2: Software Engineering, Services and Cloud Computing

- Advanced computing architectures and software engineering for the cloud Call 10 • and beyond; Innovative software and tools for services; Coordination and support actions 16 ME
  - http://cordis.europa.eu/fp7/ict/ssai/home\_en.html

#### Call 101.3: Digital Enterprise

- New models for the Digital Enterprise; Applications for the Sensing Enterprise; Coordination and Support Actions



http://cordis.europa.eu/fp7/ict/enet/home\_en.html

#### SMART

20 ME

#### **1.4:** A reliable, smart and secure Internet of things for Smart Cities

- A reliable and secure Internet of Things; A smart Internet of Things; **Coordination and Support Actions**
- http://cordis.europa.eu/fp7/ict/enet/home\_en.html







11

#### **1.5: trustworthy ICT**



- Security and privacy in cloud computing; Security and privacy in mobile services; Development, demonstration and innovation in cyber security; technologies and methodologies to support European trust and security policies: EU-Australia cooperation
- http://cordis.europa.eu/fp7/ict/security/home en.html

Call 10

### 1.6: Connected and Social Media

- **Connected Media; Social Media; Coordination and Support**
- http://cordis.europa.eu/fp7/ict/netmedia/home en.html

#### Call 10

33.4 ME

### .7: Future Internet research Experimentation (FIRE)

- New testbed facilities; Experimentally driven research to conduct multidisciplinary investigation of key techno-social issues; Coordination and Support actions; EU-South Africa; EU-China; EU-South Korea
- Call 10

19 ME

http://cordis.europa.eu/fp7/ict/fire/home\_en.html

#### 100 M 1.8: Expansion of use Cases (of the FI-PPP)

Call FI

Large set of innovative and technologically challenging services and applications in a wide range of Internet usage areas under the auspices of the FI-PPP

www.fi-ppp.eu

### 30 ME **Call F1.9: Technology Foundation Extension and Usage**

- Technology Foundation Extension; Platform availability; platform sustainability; usage and participation
- www.fi-ppp.eu



### Example: Future Internet - PPP





### **Cognitive Systems and Robotics**

- Further support to cognitive systems, smart spaces and intelligent robotic systems
- Special emphasis will be on industrial involvement, use cases and accompanying measures to exploit and support the uptake of promising technologies







#### Call 10

### **Cognitive Systems and Robotics**

#### 2.1: Robotics, Cognitive Systems and Smart Spaces, <sup>61 MC</sup>Symbiotic Interaction

 Intelligent robotics systems; Cognitive systems and smart spaces; Symbiotic human-machine interaction

### 2.2: Robotics use cases and Accompanying measures



challenge 2

Use cases in service robots; Robotics research roadmap coordination and socio-economic aspects; Robotics networking; Dissemination and outreach

http://cordis.europa.eu/fp7/ict/cognition/home\_en.html



Research and Innovation



### What are you looking for?

- STRONGER INDUSTRY PARTICIPATION
  - 3 ROLES:
  - Involve their R&D departments
  - Provide validation scenarios
  - Provide platforms

-> DEMONSTRATED <u>COMMITMENT</u> TO THE PROJECTS AND GENUINE <u>INTEREST</u> IN THE PROJECT <u>OUTCOME</u>

EXPECTED IN:

- Objective 2.1) S&T
- Objective 2.2) Pilots
- Objective 2.2) Accompanying measures
- STRENGTHEN SCIENTIFIC EXCELLENCE: R&D Obj 2.1)
- INCREASED VISIBILITY OF EUROPEAN ROBOTICS





### What you do NOT want?

- Pure theoretical projects with only simulation/lab tests
- Pure application/product development
- Double funding -> Same topic can be addressed by several projects but each has to justify its specificity/contribution
- Large effort on literature survey -> bring the right expertise on board
- Re-submission from other challenges artificially re-shaped for this challenge
- Any ARTIFICIAL ADD-ON examples
  - Industry with no clear role / added value or no clear commitment to the project
  - "Good geographical coverage"
  - Huge un-manageable inefficient IPs with large number of partners
  - Consultant for administration/finance (unless proven the most cost efficient solution)





- Consolidation in 4 objectives
- New opportunities in "beyond CMOS", the "More than Moore", Photonics and computing
- Focus on the two key enabling technologies INFSO is responsible for in H2020 (micro- and nanoelectronics, photonics)
- Take-up actions with special emphasis on SME users and technology suppliers





### Alternative Paths to Components and Systems

#### 3.1: Nanoelectronics



- Integration of advanced nanoelectronics devices and technologies (16nm and below); Advanced nanoelectronics manufacturing processes; Design, modelling and simulation for advanced nano-electronics technologies; International
- Call 11 cooperation
  - http://cordis.europa.eu/fp7/ict/micro-nanosystems/home\_en.html
  - 3.2: Photonics



- Application-specific photonic devices; Cross-cutting technologies for a wide range of applications; Technology take-up and Innovation Support; ERANET-plus action
- Call 11 http://cordis.europa.eu/fp7/ict/photonics/home\_en.html

### **3.3:** Heterogeneous Integration and take-up of Key Enabling technologies for Components and Systems



- Integrating heterogeneous technologies; Technology take-up and innovation support
- Call 10 http://cordis.europa.eu/fp7/ict/components/home\_en.html

#### 3.4: Advanced computing, embedded and control systems



Next generation of energy- and cost-efficient servers for data-centres; Control in embedded systems with mixed criticalities sharing computing resources; Exploiting synergies and strengths between computing segments; from analysing to controlling behaviour of Systems of Systems; Access to novel computing

Call 10

technologies for industry; Constituency building and road-mapping
 http://cordis.europa.eu/fp7/ict/embedded-systems-engineering/home\_enghtml





### 3.3 Heterogeneous Integration and take-up of Key Enabling Technologies for Components and Systems



- Miniaturised smart systems
- ✓ Hybrid integration of organic electronics and micro/nano electronics
- Further development and validation in real settings of micro-nano-bio and bio-photonics systems

#### Technology take-up and innovation support

- Assessment experiments in nano-electronics and smart systems
- ✓ Access services
- A network of innovation multipliers



- eco-system for smart systems integration
- deployment of bio-photonics and micro-nano-bio solutions

Roll-to-Roll

lets2bightana

novation

International co-operation

Metrology Using X-Ray Techniques Jordan Valley, CEA-LETI, STMicroelectronics Crolles II, NXP Crolles R&D





(PYTHIA (Lab-on-Chip)







iPHOS (Sub-THZ com)





### Technologies for Digital Content and Languages

- Creating the conditions to become leading supplier of analytics tools
- Encompass multimodality (text, speech/audio, video) and unstructured content analytics
- Reuse of public sector information

Challenge 4

• Specific initiative on analytics for SMEs









### **Technologies for Digital content and Languages**



#### 4.1: Content analytics and language technologies

Call 10

- Cross-media content analytics; High-quality machine translation; Natural spoken and multimodal interaction; Developing joint plans and services
- http://cordis.europa.eu/fp7/ict/language-technologies/home\_en.html



#### 4.2: Scalable data analytics

Call 11

20 ME

- Scalable algorithms, software frameworks, visualisation; Big data networking and hardware optimisations roadmap; Societal externalities of Big Data roadmap
  - http://cordis.europa.eu/fp7/ict/content-knowledge/home\_en.html

#### **SME-DCA***3: SME initiative on analytics*

- Integrated Open Data Incubator; Easing transfer and take-up of language technologies; Software components and intuitive end user applications based on reuse of open data
- http://cordis.europa.eu/fp7/ict/content-knowledge/fp7-call-sme-dcacontent\_en.html



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## Call 10 - 4.1 Content analytics & language technologies

- **new title** to reflect a broader, cross-disciplinary approach
- **continuity** in terms of research lines:
  - content analytics aka information extraction, mining of unstructured content, categorisation & summarisation, sentiment analysis...
  - machine translation
  - spoken & multimodal interaction
- **discontinuity** in terms of ambition & timeframe; paving the way for work under H2020, 2014+





### • common features with the previous calls

- written and/or spoken language, as required
- multi-lingual (i.e. multiple in/out languages), where relevant cross-lingual ("translation")
- handle everyday language, social media & user generated content
- cope with massive volumes & diverse sources
- cater for contextualisation & personalisation
- technologies are adaptive (language, domain, task)
  - $\circ$   $\,$  but... testing within specific application environments  $\,$

#### • new emphasis on

- beyond pure text or speech:
  - 1) multimedia content & multimodal interaction, and therefore
  - 2) cross-disciplinary approaches & partnerships





Challenge 5

### ICT for Health, Ageing Well, Inclusion and Governance

- Adaptation of challenge 5 to support the European Innovation Partnership on Active and Healthy Ageing
- Empower the individual to improve and manage both personal and professional life conditions and participation
- Governance work on interactive platforms for social interaction and crowd sourcing
- A new activity for social innovation







### **Call 10**

### ICT for Health, Ageing Well, Inclusion and Governance

http://cordis.europa.eu/fp7/ict/programme/projects5 en.html

### 58 ME

### 5.1: Personalised health, active ageing, and independent living

Personalised Guidance Services for lifestyle management and disease prevention; Personalised Guidance Services for management of comorbidities and integrated care; Personalised Services for Independent Living and Active Ageing; Pre-commercial procurement Actions; Coordination and Support Actions

#### 31.9 ME 5.2: Virtual Physiological Human

Clinical proof of concept of patient specific computer based models; Personal health Forecasting; One Coordination and Support Action

#### 5.3: ICT for smart and personalised inclusion

Accessible and intuitive solutions for personalised interfaces to smart • environments and innovative services; Coordination and support Actions

#### 5.4: ICT for Governance and Policy Modelling

Policy modelling and simulation for achieving productivity gains and innovation in public service provision through innovative use of ICT; **Coordination and Support Actions** 



19 ME

19 ME

### 5.5: Collective Awareness platforms for Sustainability and Social Innovation

Supporting grassroots experiments and prototypes; Support; Engaging citizens and society at large; Integrating the scientific base for the multidisciplinary understanding of collective awareness platforms for 25 sustainability and social innovation





### What are we looking for: Platforms for Collective Awareness and Action

http://ec.europa.eu/information\_society/activities/collectiveawareness/index\_en.htm

- platforms for social innovation, supporting informed and sustainability-aware decisions, based on an extended awareness of the environment and of the consequences of our actions
- Harnessing concepts from:



- IoT collecting data from environment
- Social networks interaction
- Wikis coproduction of new knowledge





### possible applications:

- Informing consumer decisions
  - Product ranking/labelling/development
- Prompting behavioural changes
  - Life Footprint, more efficiency
- Virtual communities for change
  - Stimulating Social Innovation
- Access to simulations/statistics
  - Visual Analytics style
- Anticipating societal changes





**CO**2





### **ICT for a low-carbon economy**

- *ICT to achieve substantial efficiency gains in key resources*
- Smart grids, energy efficient buildings and public spaces, electric vehicles and energy efficient mobility.
- Co-ordinated Call with DG ENER focusing on system integration and validation of ICT infrastructures for energy-efficient neighborhoods







### Call 11

### **ICT for a low carbon economy**



### 18<sup>MC</sup>6.1: Smart Energy Grids

Intelligent systems built over existing and future telecommunications networks and services that will assist in the management of the electricity distribution grid in an optimized, controlled and secure manner



#### http://ec.europa.eu/information\_society/activities/sustainable\_growth/gr ids/index\_en.htm

#### 6.3: ICT for water resources management



- Innovative ICT systems and services for efficient water use and reuse, in order to improve household, business and societal awareness, to induce changes in consumer behaviour and to enable the introduction of innovative resource and demand management schemes and adaptive pricing incentives
- http://ec.europa.eu/information\_society/activities/sustainable\_growth/w ater/index\_en.htm

#### 6.5: Co-operative mobility

- Supervised automated driving; Coordination and Support Actions
- http://ec.europa.eu/information\_society/activities/esafety/research\_activ /index\_en.htm







#### **Call SMART CITIES**



### ICT for a low carbon economy



#### **6.2: Data Centres in an energy-efficient and environmentally** *friendly internet*

 System level technologies and associated services that will improve the energy and environmental performance of data centres



http://ec.europa.eu/information\_society/activities/sustainable\_growth/ic t\_sector/index\_en.htm

#### 6.4: Optimising Energy Systems in Smart Cities

 Decision-support systems and/or management and control systems; Coordination and Support Actions



http://ec.europa.eu/information\_society/activities/sustainable\_growth/cities/index\_en.htm

#### 6.6: Integrated personal mobility for smart cities

- Research building on existing Technologies for in-vehicle platforms and traffic management resources and integration with transformative technologies such as future internet and cloud computing
- http://ec.europa.eu/information\_society/activities/esafety/index\_en.htm





#### **ICT for a low carbon economy**



#### 6.7: Electro-mobility

- Advanced System Architectures for fully electric vehicles; Comprehensive Energy Management; Coordination and support actions
- http://ec.europa.eu/information\_society/activities/esafety/index\_en.htm







### **Smart Cities Call**

•Focus on sustainability and activities at the intersection of energy, transport and ICT.

•Cooperation with DG ENER and DG RTD and DG INFSO to bridge current activities with H2020 Smart Cities and Communities – A joint call of 209M€ in WP2013.

•Cooperation within the ICT Theme: Challenge 1 IoT (20 M€) and Challenge 6 – sustainability (60M€) and mobility (15M€).





Smart cities: Joint Call between ENER, CONNECT and RTD





Challenge 7

### ICT for Enterprise and Manufacturing

- The ICT contribution to FoF aims at improving the efficiency, adaptability and sustainability of manufacturing and advanced robotics systems
- The focus of the work is on take-up initiatives
- The aim is to bring together ICT suppliers and users with a special emphasis on SMEs





### **ICT for the Enterprise and Manufacturing**

### 7.1: Application experiments for robotics and simulation

 Robot solutions for new manufacturing applications; Simulation services for engineering and manufacturing; Constituency building and road-mapping



Challenge 7

### 7.2: Equipment assessment for sensor and laser based applications

 Intelligent equipment solutions in custom manufacturing and/or remanufacturing; Innovative laser applications in manufacturing: Equipment assessment; Establish a network of innovative multipliers; Support a rapid build-up of new manufacturing skills

->7.1 & 7.2 are part of Public-Private Partnership on Factories of the Future http://cordis.europa.eu/fp7/ict/programme/challenge7\_en.html http://cordis.europa.eu/fp7/ict/micro-nanosystems/ict-for-fof\_en.html







### **Factories of the Future: ICT Vision**



#### **Smart Factories:**

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Goal: More automation, better control & optimisation of factory processes

Means: Software, lasers & intelligent devices embedded in machines & factory infrastructure

#### **Factory productivity**

- Less waste
- Less energy use
- Faster time-to-market
- Better quality



#### Virtual Factories:

– <u>Goal:</u>

To manage supply chains; to create value by integrating products & services

Means: Software to holistically interconnect & manage distributed factory assets; new business models & value propositions

#### **Digital Factories:**

- <u>Goal:</u>

To "see" the product before it is produced

Means: Software for the digital representation & test of products & processes prior to their manufacture & use

#### Supply-chain productivity

- High-value products
- Keep jobs in Europe
- Process transparency
- IPR security
- Lower CO<sub>2</sub> footprint

#### **Design productivity**

- Reduce design errors
- Better & efficient products
- Less waste + rework
- Faster time-to-market





### FoF ICT Calls Overview





### Last Call FP7 Work Program 2013 (ICT)

#### Mainly ICT Use Experiments (2 types):

- Application experiments (SME users)
- Equipment assessments (SME suppliers)

#### 4 Thematic Areas:

- Robot solutions for new manufacturing applications
- Simulation services for engineering & manufacturing
- Intelligent equipment in custom manufacturing and/or remanufacturing
- Innovative laser applications in manufacturing

#### How:

- IPs coordinated by R&D institutes or industry associations: launching open calls
- IP size: 6-10M€, 3-4 year-experiments
- Experiments: around 500 k€ (2-3 years duration)

#### Budget:

• 70 M€





### **ICT for Creativity and Learning**

- Mobilize small and medium enterprises that produce tools for the creative industry
- Integrated learning and knowledge solution building blocks that can support formal learning contexts led by the public sector







### **ICT for Creativity and Learning**



challenge 8

#### 8.1: Technologies and scientific foundations in the field of creativity

**Creative experience tools; Intelligent computational environments** 

Call 10

stimulating and enhancing human creativity; progress towards formal understanding of creativity; Roadmaps for future research and innovation



### 8.2: Technology-enhanced learning

- Call 11
- ICT-enabled learning environments; Learning analytics, educational data mining; Holistic learning solutions; Support for organising competitions
- http://cordis.europa.eu/fp7/ict/telearn-digicult/telearn en.html









### Future and Emerging Technologies

- Continue the open and proactive schemes
- New and lighter submission process in FET Xtrack
- FET Proactive proposes to address activities including:
  - Embodied evolution of artificial systems
  - Atomic scale devices and systems
- The FET Flagships preparatory phase. In WP2013 two flagship will be launched and the ramp-up phase will be supported
- http://cordis.europa.eu/fp7/ict/programme/fet\_en.html





- 34 ME 9.1: Challenging current Thinking
- 6<sup>MC</sup> 9.2: High-Tech Research Intensive SMEs in FET research
- 8 9.3: FET Young Explorers
- 2<sup>ME</sup> 9.4: International cooperation on FET research

#### Cut-off dates:

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



### 9.5: FET-Open Xtrack





### **FET Proactive and Coordination**

- 9.6: Evolving Living technologies (EVLIT)
  - 9.7: Atomic and Molecular Scale devices and Systems
  - 9.8: Coordination communities

### **FET Flagships**



16 ME

3 ME

#### 9.9: FET Flagships







### FET

Objective Title	Budget	Call
9.1 Challenging current Thinking	34	FET O
9.2 High-Tech Research Intensive SMEs in FET research	6	FET O
9.3 FET Young Explorers	8	FET O
9.4 International cooperation on FET research	2	FET O
9.5 FET-Open Xtrack	15	XTRACK
9.6 FET Proactive: Evolving Living Technologies	16	10
9.7 FET Proactive: Atomic and Molecular Scale Devices and Systems	16	10
9.8 FET Proactive: Coordinating communities	3	10
9.9 FET Flagships (a)	108	FLAGS 44
9.9 FET Flagships (b) Research and Innovation	2	11



### **FET Flagships**

Ambitious, unifying goal Science-driven, highly interdisciplinary Large-scale Visionary initiatives with transformative impacts Federation

FET Flagships are science-driven, large-scale, multidisciplinary research initiatives oriented towards a unifying goal, with a transformational impact on science and technology and substantial benefits for European competitiveness and society. The goals of such initiatives should be visionary and highly ambitious in terms of scientific challenges, resources required and coordinated efforts. They require cooperation among a range of disciplines, communities and programmes, extending over a long period (in the order of 10 years duration). FET Flagships are based on partnerships that enable effective coordination of efforts.





### **FET Flagship Pilots**

### FuturICT

#### The FuturICT knowledge accelerator

understanding and managing complex, global, socially interactive systems, with a focus on sustainability and resilience



### Graphene



#### Graphene S&T for ICT and beyond

exploiting properties of graphene and related two-dimensional materials for the emergence of a graphene-based translational technology and innovative applications

#### Guardian Angels for a smarter planet

smart, energy-efficient devices for personal assistance based on zero-power sensing, computation and communication technologies









### **FET Flagship Pilots**

# HBP

**The Human Brain Project** building a European facility to simulate the working of the human brain by developing and using supercomputers and neuromorphic hardware, and involving the collection and integration of large amounts of medical and neurophysiological information

### **ITFoM**

### Molecular modelling in health and medicine

building individual computational models of the biological processes that occur in every human for personalised healthcare



### **RoboCom**

#### **Robot Companions**

unveiling the secrets underlying the embodied perception, cognition, and emotion of natural sentient systems and using this knowledge to build robot companions based on simplexity, morphological computation and sentience







# Exascale Computing platforms, software and applications

• Continuation of the exascale initiative started in the WP2011-12

22 ME

• Leveraging the existing European strengths in computing to develop autonomous technology for building the next generation of extreme performance computing





### **International Cooperation**



#### **10.1: EU-Japan research and development Cooperation**

 Optical Communication; Wireless Communications; Cybersecurity for improved resilience against cyber threats; Extending the cloud paradigm to Call EU-Japan the Internet of Things- Connected objects and sensor clouds within the service perspective; Global scale experiments over federated testbeds: Control, tools and applications; Green & content centric networks



#### 10.2: EU-Brazil research and development Cooperation

• Cloud Computing for Science; Sustainable technologies for a smarter Society; Smart Services and applications for a Smarter Society; Hybrid Call EU-Brazil broadcast-broadband TV applications and services



#### **10.3: International partnership building and support to dialogues – Horizontal International Cooperation Actions**

Call 10

Support to dialogues between the EU and strategic partner countries and regions and to foster cooperation with strategic third country organisations in collaborative ICT R&D.

In addition a number of "targeted openings" for research cooperation with other third countries is available within specific objectives





Support to SMEs

Cross border services., investment readiness and legal advice for ICT SMEs, start-ups and entrepreneurs

- Pre-Commercial Public Procurement (PCP)
   Significant increase. Five different activities are available:
  - Digital preservation ICT for Health Cloud computing ICT-enabled learning environments Generic PCP to prepare for H2020

### Enlarged Europe

Reinforce the cooperation across the enlarged Union and to strengthen the integration of the European 50 research area



# Horizontal Actions

<i>Objective Title</i>	Budget	Call
11.1 Ensuring more efficient higher quality public services through Pre-Commercial Procurement of ICT solutions across sectors of public interest	4	10
11.2 More efficient and affordable solutions for digital preservation developed and validated against public sector needs through joint Pre-Commercial procurement (PCP)	5	11
11.3 High quality cloud computing environment for public sector needs, validated through a joint pre-commercial procurement (PCP)	10	10
11.4 Supplements to Strengthen Cooperation in ICT R&D in an Enlarged European Union	9	10
11.5 Cross border services, investment readiness and legal advice for ICT SMEs, start-ups an different repreneurs	5.7	<i>10</i> 51



### **Next Call for proposals**

Call Title	Opening	Closing		
SME Initiative	10 July 2012	15 January 2013		
<i>Green cars and</i> <i>FoF</i>	10 July 2012	4 December 2012		
Smart Cities	10 July 2012	4 December 2012		
ICT Call 10	10 July 2012	15 January 2013		
FET Flagships	10 July 2012	23 October 2012		
FET Open	12 September 2012	12 March 2013		
FET Open Xtrack	12 September 2012	29 January 2012		
EU Brazil	12 September 2012	12 December 2012		
ICT Call 11	18 September 2012	16 April 2013		
EU Japan	2 October 2012	29 November 2012		
FI PPP	16 May 2 Delater	10 December 2013		



### **Successful proposals**

### Preparing a successful proposal





Use the pre-proposal check service\* and the contact persons list to make sure your proposal is eligible and in scope for this call.....

.....And do it before you prepare your proposal, not afterwards

\*described in the Guide for applicants





### ICT Helpdesk

Use the FP7 Research enquiries service\* to check any financial or legal elements you are uncertain about.....

*.....And do it before you prepare your proposal, not afterwards* 

*\*address in the Guide for applicants* 





### **Self-evaluation**

Use the Instructions\* and Forms\*\* we prepare for our evaluators

- 1. Give the instructions and your draft proposal to experienced colleagues
- 2. Then re-write your proposal following their recommendations

\*appendix in the Guide for Applicants \*\* available on the ICT Call page in the Participants' Portal





### When writing your proposal....

Divide your effort over the evaluation criteria

Many proposers concentrate on the scientific element, but lose marks on project planning or impact description

*Think of the finishing touches which signal quality work:* 

- well-organised contents, following the Part B structure
- useful and understandable diagrams
- no typos, no inconsistencies and obvious paste-ins, no numbers which don't add up, no missing pages ...





### When writing your proposal....

Make it easy for the evaluators to give you high marks. Don't make it hard for them!

- Make sure you submit the <u>latest</u>, <u>complete</u> version of your proposal (Last minute changes generate errors!)
- Don't write too little; cover what is requested
- Don't write too much
- Don't leave them to figure out why it's good, tell them why it's good





### Instructions given to evaluators

"Evaluate the proposal which the proposer sent us. Make no additional assumptions, do not read between the lines"

"Look through to the essentials of the proposal – a weak proposal can be deceptively well written, a strong proposal may be handicapped by language difficulty"





### Success factors mesearch proposals

*Focus your effort: support <u>one</u> proposal and make it a winner* 

- Show innovation; describe the state of the art, show you understand it, show how you advance it
- Check the timeline for ongoing research, especially in the ICT programme, don't duplicate existing work
- You <u>must</u> explain how you will achieve impact





### Success factors in research proposals

- Find good partners. Critical mass; no gaps, no passengers
- Academia cooperating with industry
- Involvement of users
- Make the proposal compelling for a busy reader (the first 5-10 pages are key!)
- Key individuals, relevant expertise and achievements, not long boring lists





### Reasons for failure in research proposals RTD content

- not reflecting the goals of the objective
- lack of innovation: state of art not explained or understood
- narrow scope
- lack of focus, aims too varied

Planning

- lack of coherence between objectives and project workplan
- risk factors not addressed, no contingency plans
- no monitorable indicators, decision points (milestones)



### **Reasons for failure**

### Management

- consortium not balanced, gaps/overlaps in the skills mix
- lack of integration between partners/vague management structure
- weak or narrow dissemination plans
- ill-defined exploitation prospects





### **Getting help with your proposal** *The ICT theme supports*

- Information days and briefings in Brussels and elsewhere
- Partner search facilities (http://www.ideal-ist.net/)
- A supporting website of advice, information and documentation the Participant Portal
- A general FP7 Helpdesk, an ICT Information desk and a Helpdesk for electronic proposal submission)
- A list of contact persons for the objectives in each call
- A pre-proposal check service

And a network of National Contact Points in Europe and beyond:

http://cordis.europa.eu/fp7/ncp\_en.html





### Information days - when, where, who

#### <u>Date</u>

26 & 27 September 2012 (Wednesday & Thursday)

### <u>Location</u>

Warsaw, Poland



### Co-hosted by

- Polish Ministry of Science and Higher Education
- NCP Poland





### **Draft programme at a glance**

		Hall nº 1			Hall n° 3		1st floor		
		<b>Room 1</b> "Networks" (dir E)	Room 2 "Components & systems" (dir A)	Room 3 "Media, data & FET" (dir C & G)	Room 4 "ICT for people" (Ch. 5)	Room 5 "ICT for low carbon economy" (Ch. 6)	Room A	Room B	Room C
[	11:00 - 12:30	Obj 1.1	Obj 2.1	FET-Open	Obj 5.1	Make proposal	NCP meeting	???	
Day 1	13:00 - 14:30	Obj 1.2	Obj 2.2	FET-Flagships	Obj 5.2	Obj 6.1	Obj 11.5 (SMEs)		
	14:45 - 16:15	Obj 1.3	Obj 7.1 & 7.2	FET-Proactive	Obj 5.3	Obj 6.2	Obj 10.3 (Inco)		
	16:30 - 18:00	Obj 10.1 (Inco)	Obj 10.2 (Inco)	Obj 8.1	Obj 5.4	Make proposal	e-Infra		
								Face2face	Face2face
	9:00 - 10:30	Obj 1.6	Obj 3.1	Obj 8.2	Make proposal	Obj 6.3		???	
y 2	10:45 - 12:15	Obj 1.7 & 1.8	Obj 3.2	Obj 4.1	Obj 5.5	Obj 6.4			
Day	12:45 - 14:15	Obj 1.4	Obj 3.3	Obj 4.2	Obj 11.1-3 (PCP)	Obj 6.5			
	14:30 - 16:00	Obj 1.5	Obj 3.4	Obj 4.3	Make proposal	Obj 6.6			66





### **Useful links**

- http://ec.europa.eu/research/participants/portal
- <u>http://cordis.europa.eu/fp7</u>
- *National Contact Points:<u>http://cordis.europa.eu/fp7/ncp\_en.html</u>*
- *Partner search facilities: <u>http://www.ideal-ist.net/</u>*
- Information desk: <u>ict@ec.europa.eu</u>
- IPR Helpdesk: <u>http://www.ipr-helpdesk.org/index.html</u>





### Experts

*Appropriately qualified individuals may apply to work as experts in FP7 evaluations* 

• Application via website

https://cordis.europa.eu/emmfp7/

• Selection per call to ensure broad ranging and expert group; avoiding conflicts of interest

