European Commission

ICT WP2013

September 2012

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Research and Innovation

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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 participation
- *ICT WP 2013*
  - ~1484 M€ funding for projects
- *JTIs + AAL WPs 2012 and 2013*

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

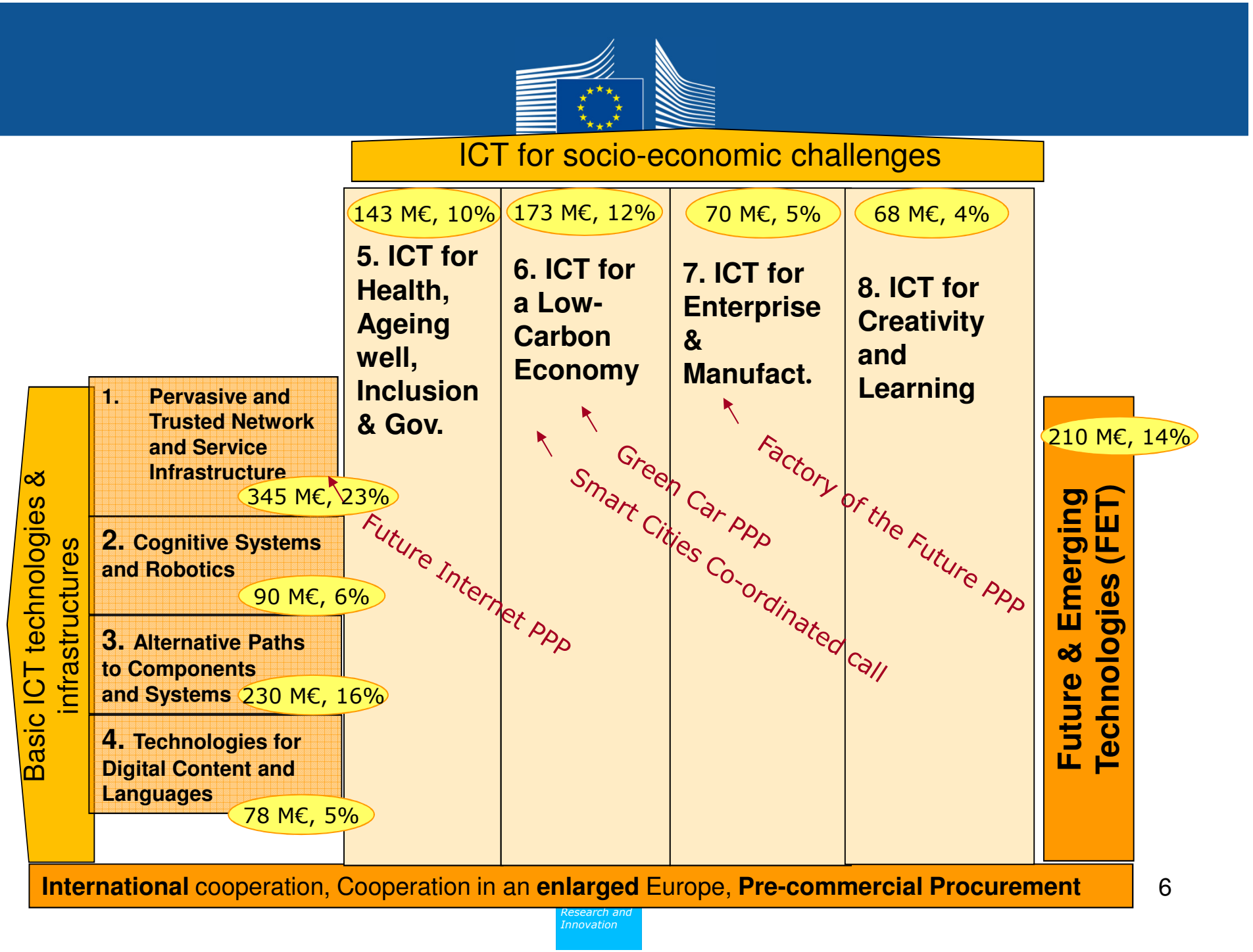
- *Ramp-up phase for two selected flagships*

Pilot new social innovation approaches

- *New dedicated activity*

Contributing to broader policy agendas

- *Support to EIP on Active and healthy Ageing*


ICT for socio-economic challenges
143 M€, 10%
173 M€, 12%
70 M€, 5%
68 M€, 4%
5. ICT for Health, Ageing well, Inclusion & Gov.
6. ICT for a Low-Carbon Economy
7. ICT for Enterprise & Manufact.
8. ICT for Creativity and Learning
Basic ICT technologies & infrastructures
1. Pervasive and Trusted Network and Service Infrastructure
345 M€, 23%
2. Cognitive Systems and Robotics
90 M€, 6%
3. Alternative Paths to Components and Systems
230 M€, 16%
4. Technologies for Digital Content and Languages
78 M€, 5%
Future Internet PPP
Green Car PPP
Smart Cities Co-ordinated call
Factory of the Future PPP
210 M€, 14%
Future & Emerging Technologies (FET)
International cooperation, Cooperation in an enlarged Europe, Pre-commercial Procurement
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Pervasive and Trusted Network and Service Infrastructures

- Continue roadmap based research
- Leveraging new constituencies (innovative SMEs)
- Software systems laying the basis for the future European Cloud strategy
- Developing the Future Internet PPP platform following an open innovation model

Research and Innovation

1.1: Future Networks

48.5 M€

Call 11

Next generation heterogeneous wireless and mobile broadband systems; High throughput low-latency infrastructures; Internet architectures; Tighter integration of satellite and terrestrial communications technologies; Coordination and support actions

1.2: Software Engineering, Services and Cloud Computing

41.5 M€

Call 10

Advanced computing architectures and software engineering for the cloud and beyond; Innovative software and tools for services; Coordination and support actions

1.3: Digital Enterprise

16 M€

Call 10

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

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

20 M€

A reliable and secure Internet of Things; A smart Internet of Things; Coordination and Support Actions

Call: SMART CITIES

1.5: Trustworthy ICT

36.5 M€

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

Call 10

1.6: Connected and Social Media

33.4 M€

Connected Media; Social Media; Coordination and Support

Call 10

1.7: Future Internet research Experimentation (FIRE)

19 M€

Call 10

New test-bed 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

1.8: Expansion of use Cases

100 M€

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

1.9: Technology Foundation Extension and Usage

30 M€

Call FI

Technology Foundation Extension; Platform availability; platform sustainability; usage and participation

Challenge 1: Example

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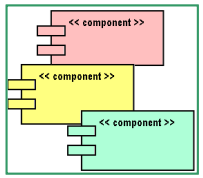
a) Advanced computing architectures and software engineering for the cloud and beyond.



Implementation of **computing architectures, patterns and programming models** for the efficient and secure usage of **heterogeneous and distributed** computing resources spanning the smart device to the large data centre, building on **European users' needs** and advancing cloud architectures and standards.

Software engineering

Modern platforms

Applied research

b) Innovative software and tools for services

Innovative and self-adaptive **Internet-based services** using agile software technologies and tools for any phase of the service lifecycle and exploiting **widely distributed computing architectures, large distributed data sets and smart sensors.** This work should take into account the **social, open and collaborative** dimensions of software development and service provisioning, and be implemented by **short duration projects**

Public network

Big data, IoT

Quick results

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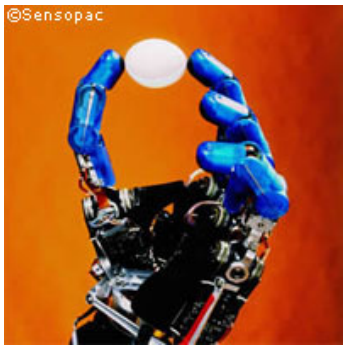
Cognitive Systems and Robotics

- 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



2.1: Robotics, Cognitive Systems and Smart Spaces, Symbiotic Interaction

67 M€

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

2.2: Robotics use cases and Accompanying measures

23 M€

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

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What are we looking for?

Stronger Industry Participation

- 3 Roles:

  Involve R&D departments

  Provide validation scenarios

  Provide platforms

➡ Demonstrated **commitment** to the projects and genuine **interest** in the project **outcome**, 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

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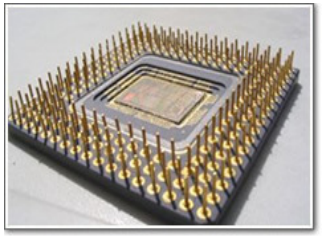
Alternative paths to components and systems

- 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

Research and Innovation



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3.1: Nanoelectronics

32 M€

Call 11

Integration of advanced nanoelectronics devices and technologies (16nm and below); Advanced nanoelectronics manufacturing processes; Design, modelling and simulation for advanced nano-electronics technologies; International cooperation

3.2: Photonics

61 M€

Call 11

Application-specific photonic devices; Cross-cutting technologies for a wide range of applications; Technology take-up and Innovation Support; ERANET-plus action

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

64 M€

Call 10

Integrating heterogeneous technologies; Technology take-up and innovation support

3.4: Advanced computing, embedded and control systems

72.5 M€

Call 10

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 technologies for industry; Constituency building and road-mapping

Challenge 3: Example

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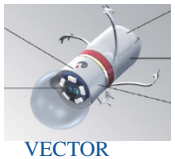
Integrating heterogeneous technologies



VECTOR
(Endoscopic capsule)

- *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*
- *International co-operation*

iPHOS (Sub-THZ com)

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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
- Specific initiative on analytics for SMEs

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4.1: Content analytics and language technologies

27 M€

Call 10

Cross-media content analytics; High-quality machine translation; Natural spoken and multimodal interaction; Developing joint plans and services

4.2: Scalable data analytics

31 M€

Call 11

Scalable algorithms, software frameworks, visualisation; Big data networking and hardware optimisations roadmap; Societal externalities of Big Data roadmap

4.3: SME initiative on analytics

20 M€

Call: SME-DCA

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

Challenge 4: Example

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<u>New title</u> to reflect a broader, cross-disciplinary approach

<u>Continuity</u> in terms of research lines:

- *content analytics*
  aka information extraction, mining of unstructured content, categorisation & summarisation, sentiment analysis…
- *machine translation*
- *spoken & multimodal interaction*

<u>Discontinuity</u> in terms of ambition & timeframe; paving the way for work under H2020, 2014+

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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)*
  - ➢ *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***

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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

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5.1: Personalised health, active ageing, and independent living

58 M€

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

5.2: Virtual Physiological Human

31.9 M€

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

19 M€

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

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5.4: ICT for Governance and Policy Modelling

19 M€

Call 10

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

5.5: Collective Awareness platforms for Sustainability and Social Innovation

15 M€

Call 10

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 sustainability and social innovation

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

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*

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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

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6.1: Smart Energy Grids

18 M€

Call 11

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

6.3: ICT for water resources management

14 M€

Call 11

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

6.5: Co-operative mobility

26 M€

Call 11

Supervised automated driving; Coordination and Support Actions

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

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

6.4: Optimising Energy Systems in Smart Cities

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

6.6: Integrated personal mobility for smart cities

15 M€ 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

6.7: Electro-mobility

40 M€

Advanced System Architectures for fully electric vehicles; Comprehensive Energy Management; Coordination and support actions

Challenge 6: Example

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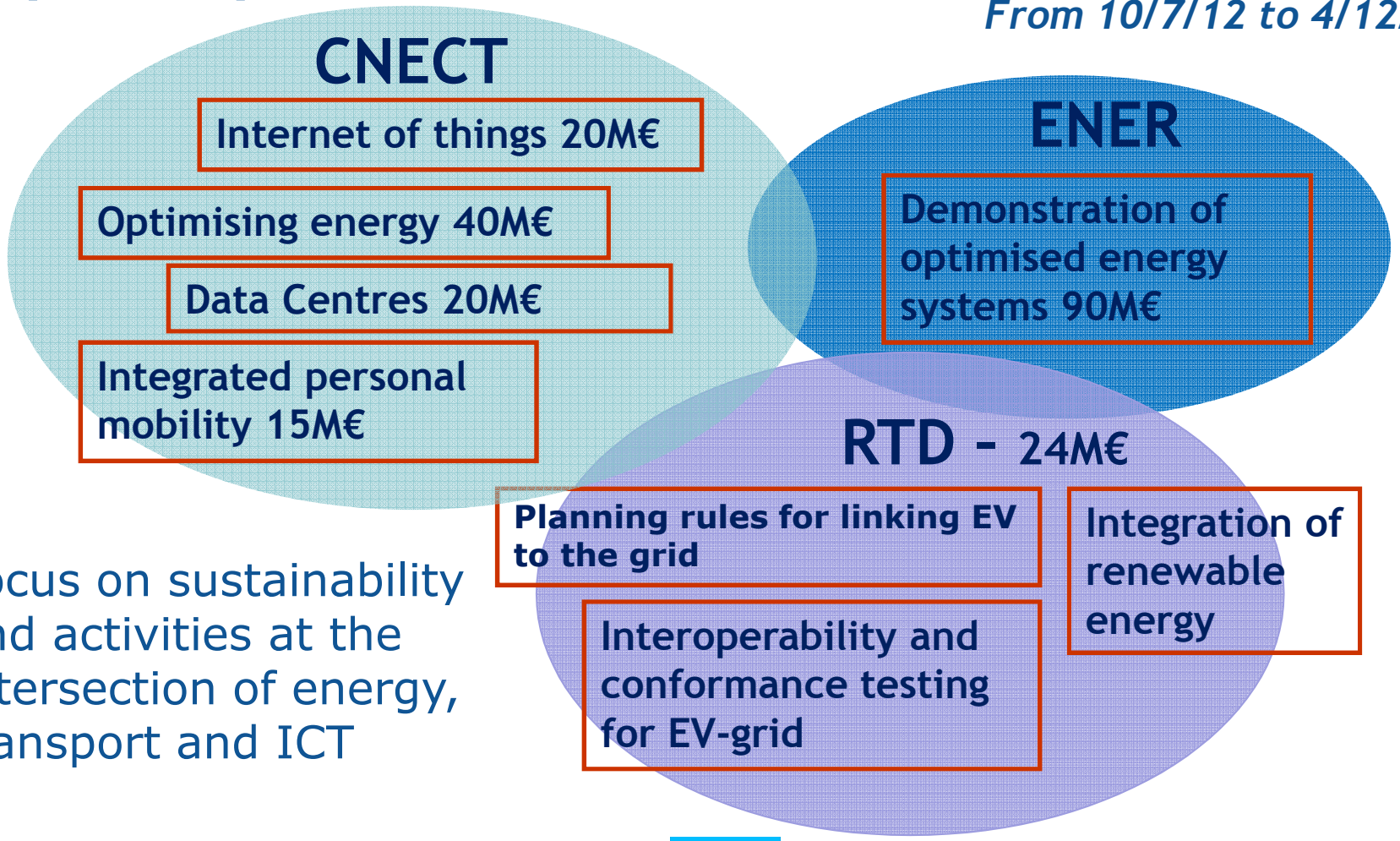
Smart cities: Joint Call between ENER, INFSO and RTD (209 m€)

From 10/7/12 to 4/12/12



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

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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

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7.1: Application experiments for robotics and simulation

35 M€

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

7.2: Equipment assessment for sensor and laser based applications

35 M€

Intelligent equipment solutions in custom manufacturing and/or re-manufacturing; 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 (FoF)**

Challenge 7: Example

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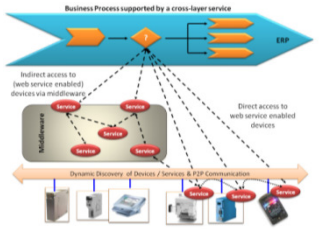
Factories of the Future: ICT Vision

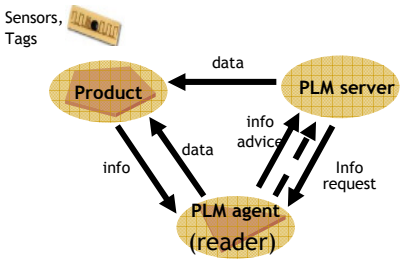


Smart Factories:

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

Goal:
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

Supply-chain productivity
- High-value products
- Keep jobs in Europe
- Process transparency
- IPR security
- Lower CO_2 footprint

Digital Factories:

Goal:
To "see" the product before it is produced

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

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

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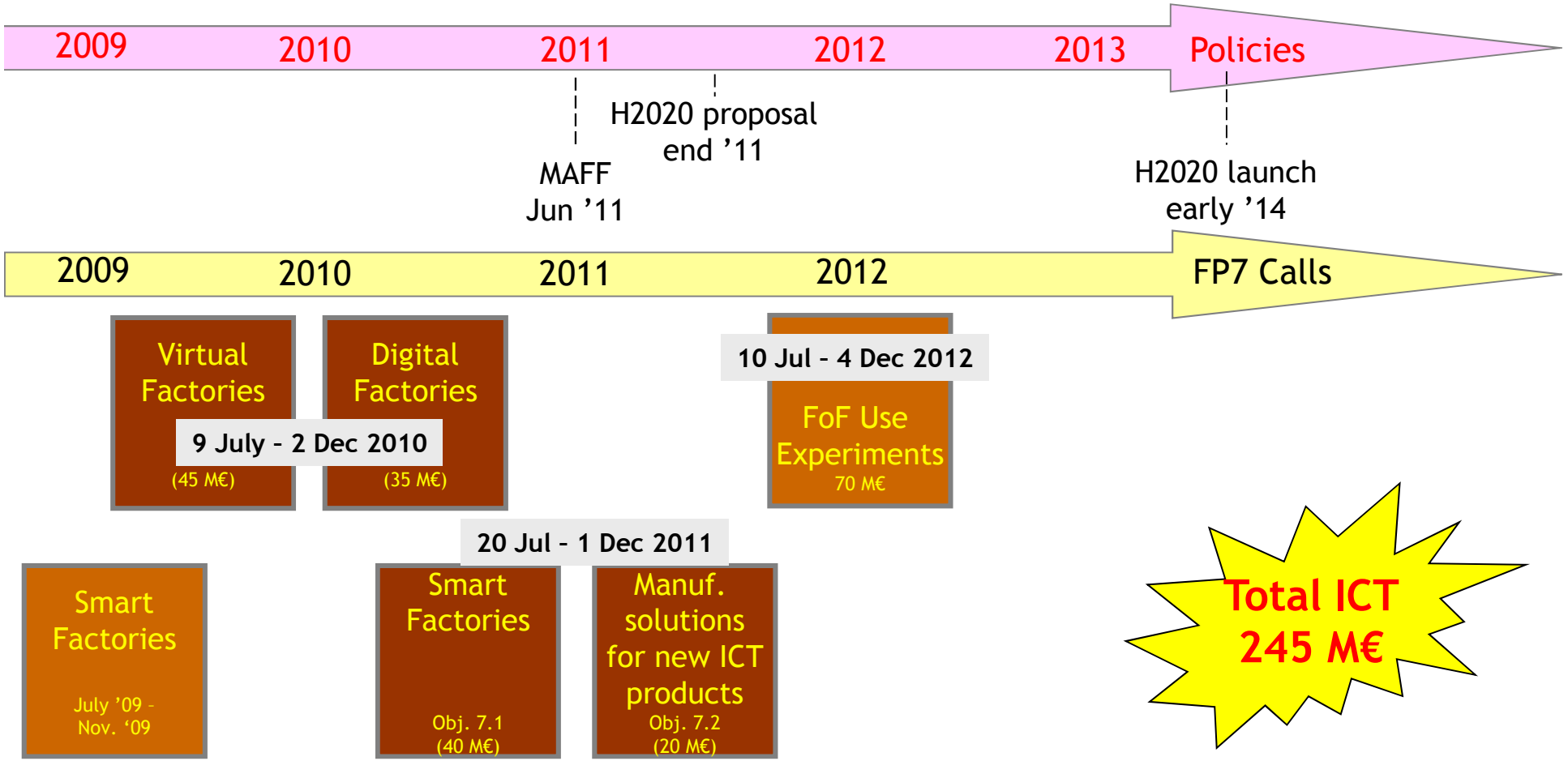
FoF ICT Calls Overview



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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

8.1: Technologies and scientific foundations in the field of creativity

43 M€

Call 10

Creative experience tools; Intelligent computational environments stimulating and enhancing human creativity; progress towards formal understanding of creativity; Roadmaps for future research and innovation

8.2: Technology-enhanced learning

25 M€

Call 11

ICT-enabled learning environments; Learning analytics, educational data mining; Holistic learning solutions; Support for organising competitions

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Future and Emerging Technologies-FET

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

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FET Open

34 M€ 9.1: Challenging current Thinking

6 M€ 9.2: High-Tech Research Intensive SMEs in FET research

8 M€ 9.3: FET Young Explorers

2 M€ 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

15 M€ 9.5: FET-Open Xtrack

FET Proactive and Coordination

16 M€ **9.6: Evolving Living technologies (EVLIT)**

16 M€ **9.7: Atomic and Molecular Scale devices and Systems**

3 M€ **9.8: Coordination communities**

FET Flagships

110 M€ **9.9: FET Flagships**

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*
9.9 FET Flagships (b)	2	*11*

FET Flagships

- Ambitious, unifying goal
- Science-driven, highly interdisciplinary
- Large-scale
- Visionary initiatives with transformative impacts
- Federation
- In the order of 10 years duration
- Based on partnerships that enable effective co-ordination of efforts

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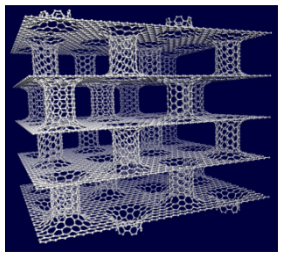
FuturICT

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

Guardian Angels for a smarter planet

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

FET Flagships Pilots

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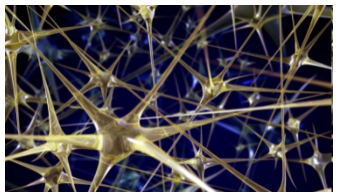
HBP



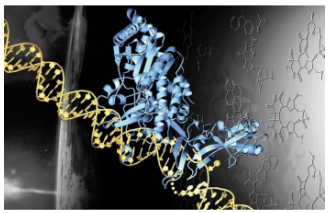
The Human Brain Project

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

Molecular modelling in health and medicine

ITFoM

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

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Exascale Computing platforms, software and applications

22 M€

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

9 M€

Call EU-Japan

Optical Communication; Wireless Communications; Cybersecurity for improved resilience against cyber threats; Extending the cloud paradigm to 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

5 M€

Call EU-Brazil

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

International Cooperation

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

8 M€

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.

Call 10

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

Horizontal activities

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 research area*

Horizontal Actions

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

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What is the rationale behind PCP?

- *Health care*
- *Climate Change*
- *Energy Efficiency*
- *Transport*
- *Security*
- *…*

*Public sector is faced with important **societal challenges**.*

*Addressing these, often requires public sector transformations so technologically demanding, that **no commercially stable** solutions exists on the market yet, and forward looking public procurement strategies (incl. procurement of **R&D**) are needed*

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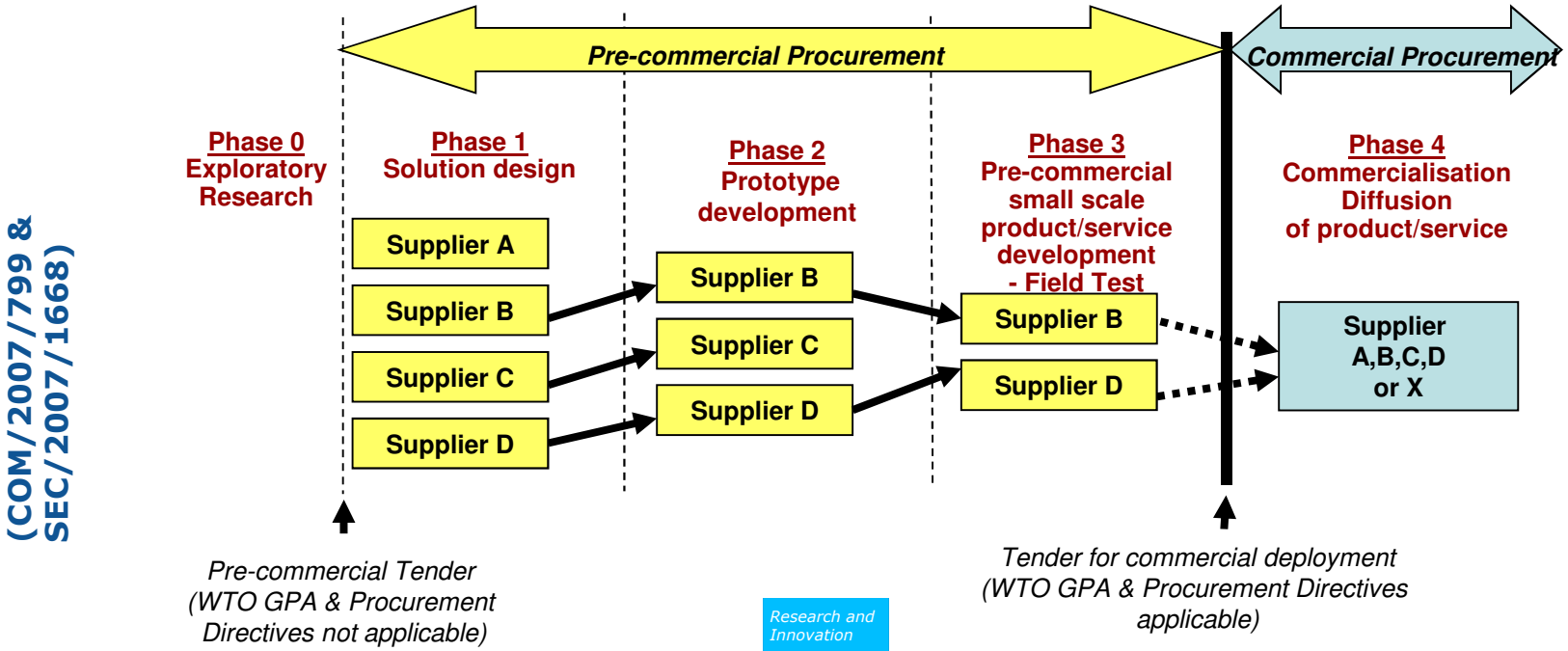
Bridging the innovation gap through public demand pull

Specific approach for public sector to procure R&D services, ensuring

- *Benefit and risk sharing between procurers and suppliers*
- *Competition and transparency in the procurement process*
- *Compliance with legal framework without entailing State Aid*



Research and Innovation

Next Call for proposals

Call Title	Opening	Closing
SME Initiative	10 July 2012	15 January 2013
Green cars and FoF	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 2013	10 December 2013

Information days - when, where, who

Date

26 & 27 September 2012
(Wednesday & Thursday)

Location

EXPO XXI in Warsaw, Poland

Co-hosted by

Polish Ministry of Science and Higher Education

NCP Poland

http://ec.europa.eu/ictproposersday

European Commission

Objectives of the event

Goals	Concepts
1. networking	• networking sessions per objective • on-site networking around objective booths • pre-arranged bilateral meetings (by Ideal-IST) • online networking in advance (=recommended)
2. information	• presentations by EC • information stands • contact with EC staff

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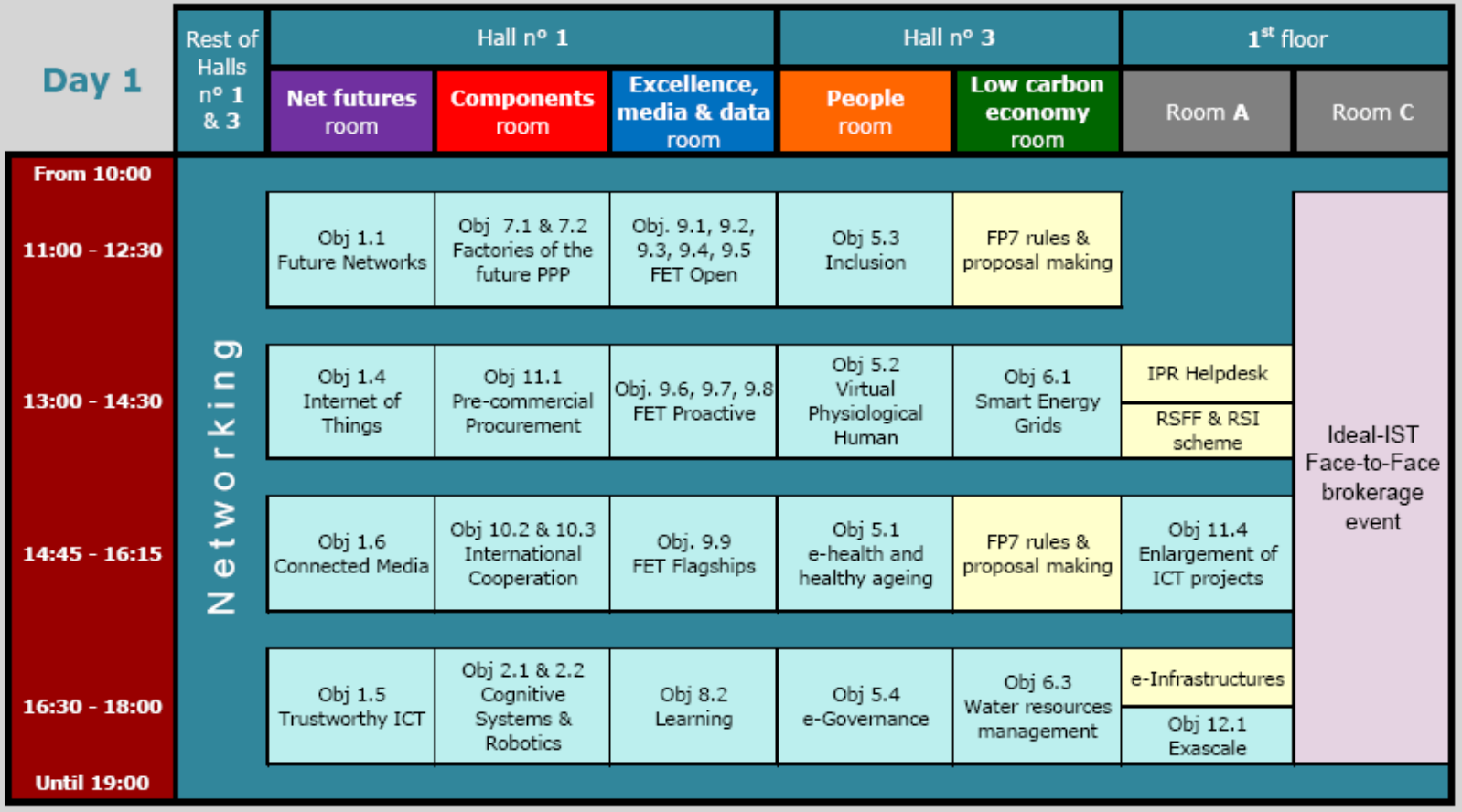
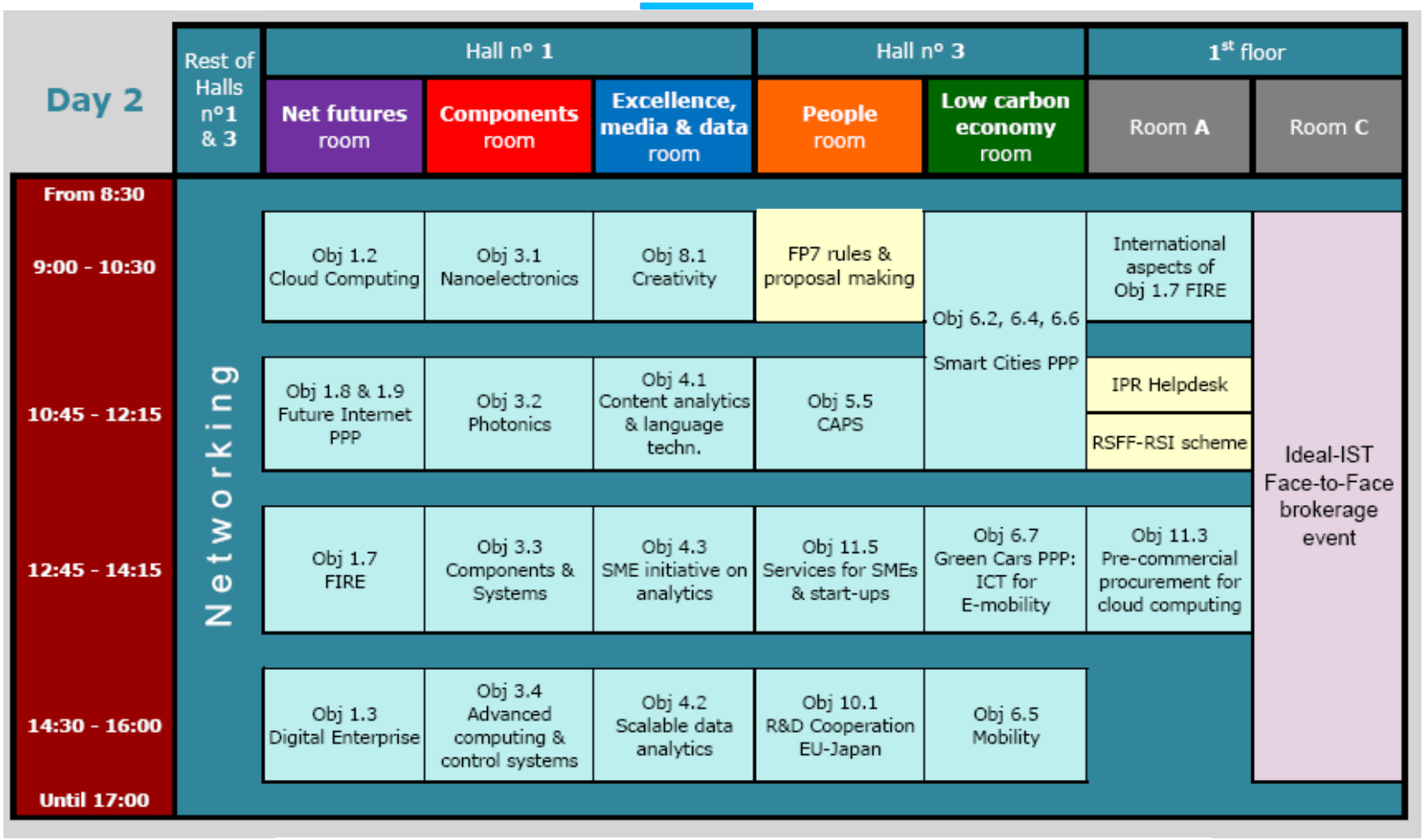
Final programme



European Commission



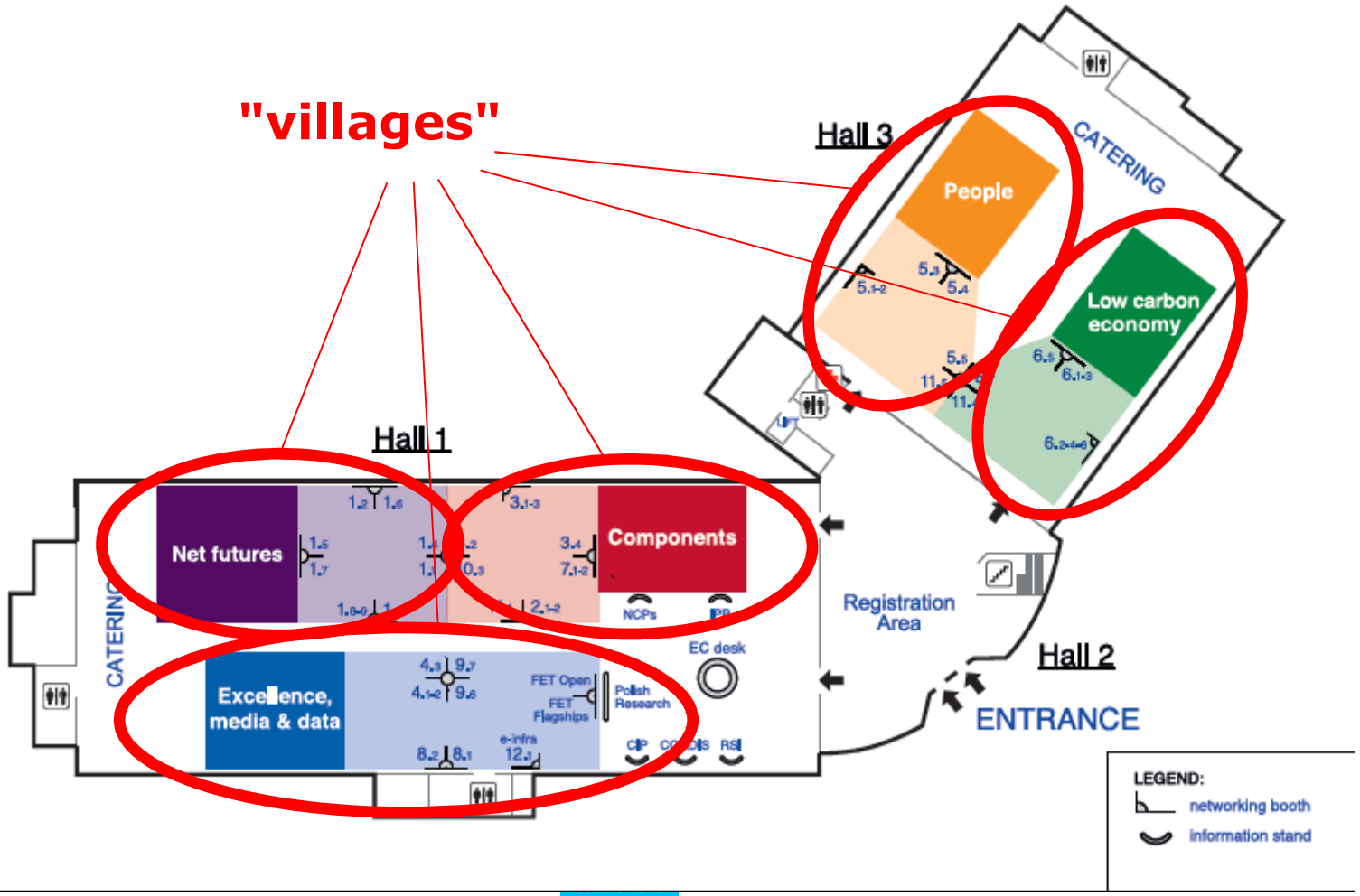
Legend

informal networking opportunity | networking session | presentation | pre-arranged bilateral meetings

Research and Innovation

European Commission

EXPO XXI



Getting help with proposals

- *http://ec.europa.eu/research/participants/portal*
- *http://cordis.europa.eu/fp7*
- *National Contact Points:*

  http://cordis.europa.eu/fp7/ncp_en.html
- *Partner search facilities: http://www.ideal-ist.net/*
- *Information desk: ict@ec.europa.eu*
- *IPR Helpdesk: http://www.ipr-helpdesk.org/index.html*

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)

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WP2013: a dual objective

Ensure a certain degree of continuity in priorities

- *P7 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

- *adaptation of the strategy towards a more integrated R&I approach*
- *pilot new approaches*

Research and Innovation

What we 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)*

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 CNECT 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€).