



# ICT in the LEIT Priority of HORIZON 2020

The New EU Framework Programme for Research and Innovation
Workprogramme 2014-2015

Thessaloniki, 20 November 2013

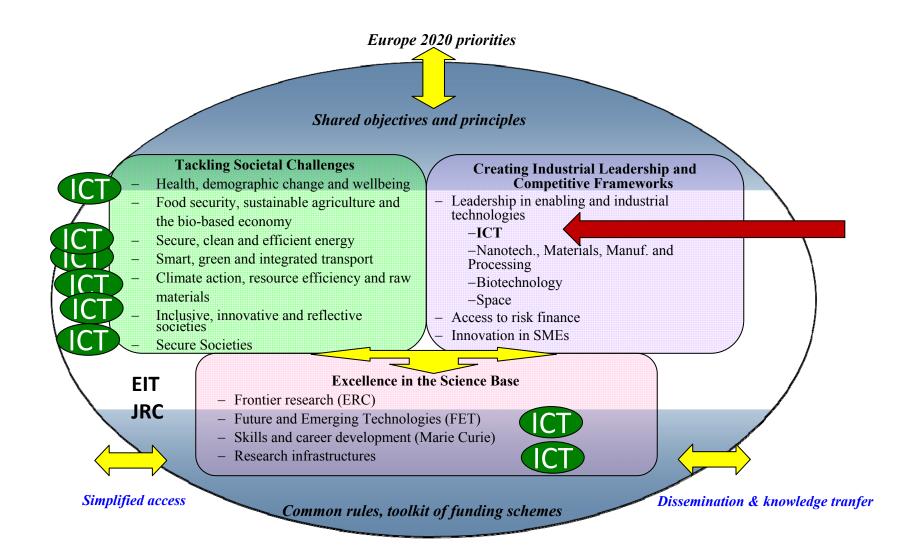
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Head of the Photonics Unit

DG CONNECT, European Commission

HORIZON 2020







# **Industrial Leadership - ICT**



- 1. A new generation of <u>components and systems</u>: engineering of advanced embedded and resource efficient components and systems **JTI ECSEL**
- 2. Next generation <u>computing</u>: advanced and secure computing systems and technologies, including cloud computing <u>links to</u> <u>PPP HPC</u>
- 3. <u>Future Internet</u>: software, hardware, infrastructures, technologies and services **PPP 5G**
- 4. <u>Content technologies</u> and <u>information management</u>: ICT for digital content, cultural and creative industries **Future PPP on Big Data?**
- 5. Advanced interfaces and robots: <u>robotics</u> and <u>smart spaces</u> **PPP Robotics**
- 6. <u>Micro- and nanoelectronics</u> and <u>photonics</u>: key enabling technologies

  PPP Photonics





- Covers systemic integration from smart integrated components to cyberphysical systems
- Complementary to the JTI Electronic Components and Systems (ECSEL) JTI ECSEL
- Organised in three related topics:
  - ICT 1 2014: Smart cyber-physical systems → 56 M€
    - Next generation embedded and connected systems
  - ICT 2 2014: Smart system integration → 48 M€
    - Integration of heterogeneous micro- and nanotechnologies into smart systems
  - ICT 3 2014: Advanced Thin, Organic and Large Area Electronics → 38 M€
- R&I in this area will also contribute to the implementation of the Strategic
   Research Agenda on Energy Efficient Buildings



ICT 1 - 2014: Smart cyber-physical systems (CPS)

Draft pending

Commission Decision

Commission Decision

ICT 1: 56 M€

37 M€ - 100% funding **Small & large projects** 

#### a. Research and Innovation actions

New paradigms, concepts, and platforms / toolboxes laying the foundation for future generations of CPS. Focus is on:

- Modelling and integration frameworks
- •Smart cooperative and open CPS: Engineering CPS that respond in real-time to dynamic and complex situations while preserving control, safety, privacy, reliability, etc.

#### **b.** Innovation actions

17 M€ 70% funding

 Towards platforms and ecosystems : reference architectures and platforms for open, smart and co-operative CPS

Small projects

• Towards a "smart everywhere" society: For networks of embedded systems design centres to help businesses innovate

Large projects

→ large scale experiments driven by user requirements

#### **Support Actions**

2 M€, 100% funding

• Structuring of constituencies, roadmappping, promotion and dissemination, definition of strategic collaboration agenda with the USA ...

**DG CNECT Contact Point: Unit A3** 

CNECT-A3@ec.europa.eu



ICT 2 – 2014: Smart System Integration

Draft - Pending Commission

ICT 2: 48 M€

35 M€ - 100% funding Small & large projects

#### a. Research and Innovation actions

- Advancing the SoA of heterogeneous integration of micro and nanotechnologies into smart systems. Focus on:
  - Higher density 3D heterogeneous integration
  - Autonomous smart systems with efficient energy management and harvesting
  - Smart systems with multi-functional properties
- R&D of <u>application-specific</u> smart systems

#### b. Innovation actions

9 M€ - 70% funding Small & large projects

- Access services to design and manufacturing capabilities for prototyping, early validation and first production
- Equipment / process assessment for technology suppliers in smart systems

3 M€ - PCP Cofund 70% funding

#### c. Precommercial Procurement Action

Public authorities (acting as first users) procuring lab on chip based technologies for in-vitro diagnosis

1 M€, 100% funding

#### **Coordination and Support Actions**

Networking and collaboration among and with clusters, training, conferences, etc.

DG CNECT Contact Point: Unit A4
CNECT-A4@ec.europa.eu

**ICT 3 – 2014: Advanced TOLAE technologies** 

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Draft Pending

Commission Decision

ICT 3: 38 M€

17 M€ - 100% funding Small projects

#### a. Research and Innovation actions

TOLAE technologies and manufacturing processes. Focus is on conformable / flexible / stretchable substrates, advanced materials and technologies and scalable manufacturing processes

#### b. Innovation actions

15.5 M€ - 70% funding Large projects

Demonstrate innovative products enabled by TOLAE: Prototype development and demonstration in smart packaging, advertisement or sensing

3 M€, 100% funding

# c. Technology Take-up and Innovation support Actions

 Competence centres providing EU-wide access services to industry

> 2.5 M€ - PCP Cofund 70% funding

#### d. Precommercial Procurement Action

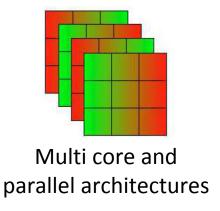
 For public authorities (acting as first users) for procuring electronic and photonic textile

DG CNECT Contact Point: Unit A1 CNECT-PHOTONICS@ec.europa.eu

# 2. Advanced Computing / 2014-2015

Draft - Pending Commission Decision

- Reinforce and expand Europe's industrial and technology strengths in lowpower ICT
- Focus is on integration of advanced components on all levels in computing systems
- Complementary to and coordinated with work in the Future Internet area (on Cloud Computing) and in Excellence Science pillar under Research Infrastructures and FET (on High Performance Computing)
- Organised in one topic:
  - ICT 4 2015: Customised and low power computing → 57 M€









- Focused on **network and computing infrastructures** to accelerate innovation and address the most critical technical and use aspects of the Internet
- Organised in ten topics:
  - ICT 5 2014: Smart networks and novel Internet architectures → 24 M€
  - ICT 6 2014 Smart optical and wireless network technologies → 30 M€
  - ICT 7 2014: Advanced cloud infrastructures and services → 73 M€
  - ICT 8 2015: Boosting public sector productivity and innovation through cloud computing services → 22 M€
  - ICT 9 2015: Tools and methods for Software Development → 25 M€
  - ICT 10 2015: Collective Awareness Platforms for sustainability and social innovation → 37 M€
  - ICT 11 2014: FIRE+ (Future Internet Research & Experimentation) → 31.5 M€
  - ICT 12 2015: Integrating Experiments and facilities in FIRE+ → 18 M€
  - ICT 13 2014: Web Entrepreneurship → 10 M€
  - ICT 14 2014: Advanced 5G Network Infrastructure for the Future Internet → 125 M€ (PPP 5G)





### ICT 5 – 2014: Smart networks and novel Internet architectures

Draft - Pending Commission Decision

ICT 5: 24 M€

#### a. Research and Innovation actions

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Novel Internet architectural and networking approaches to info delivery and access

- → with built-in security and privacy, mobility and scalability and targeting low-cost migration strategy from existing IP networks
- → Pilot experiments using virtualised platforms

100% funding Small projects



ICT 6 - 2014 Smart optical and wireless network technologies

ICT 6: 30 M€

Draft Pending Commission Decision

29 M€ - 100% funding Small projects

#### a. Research and Innovation actions

- Focus on optical networks
- Dynamic management of resources
- Transmission speeds at 10 Gbps/user (in 10 years)
- Efficient data centre architectures
- Scalability, cost and energy efficiency
- Focus on wireless networks
- New paradigms for wireless connectivity
- Flexible use of spectrum & usage diversity
- Coverage of hybrid (terrestrial/satellite) infrastructure

## **Coordination and Support Actions**

 Dissemination, standardisation, international cooperation, roadmapping, etc. 1 M€, 100% funding



ICT 7 - 2014: Advanced cloud infrastructures and services of Draft Commission Decision Commission Decision Commission Commission Decision Commission Comm

ICT 7: 73 M€

66 M€ - 100% funding **Small and large projects**  5 M€ - 70% funding **Small projects** 

#### a. Research and Innovation actions

- High performance heterogeneous cloud infrastructures (IaaS, PaaS, SaaS)
- Federated cloud networking: deploying & managing cloud infrastructures, resources and services across computing & storage infrastructures
- Dynamic configuration, automated provisioning and orchestration of cloud resources
- Automated discovery and composition of services
- **Cloud security**

#### b. Innovation actions

Platforms for trusted cloud systems: open source SW for innovative and trusted cloud-based services

2 M€, 100% funding

### **Coordination and Support Actions**

Defining common ref. models for SLAs in the cloud, addressing legal, economic, and societal factors, project collaboration actions, ...

**DG CNECT Contact Point: Unit E2** 

CNECT-E2@ec.europa.eu



# ICT 11 – 2014: FIRE+ (Future Internet Research & Experimentation)

Draft - Pending Commission

ICT 11: 31.5 M€

#### a. Research and Innovation actions

- Creation, reconfiguration and/or extension of experimental infrastructures
- Leverage GÉANT infrastructures by integrating devices across all comm. layers
- Develop the concepts of Experimentation-as-a-Service (EaaS) and Virtual Experimentation

#### b. Innovation actions

Selecting ideas for prototyping, experimentation, and validation and enabling experimentation planning and execution on top of FIRE+

5 M€, 70% funding 1 large project

25 M€, 100% funding

**Large projects** 

1.5 M€, 100% funding

#### **Coordination and Support Actions**

Identification of new experimental facilities and testbeds for integration into FIRE+; roadmapping of future needs; International coop. with the USA, ...

DG CNECT Contact Point: Unit E4
CNECT-E4@ec.europa.eu



# ICT 13 – 2014: Web Entrepreneurship

Draft - Pending Decision

ICT 13: 10 M€

6 M€, 70% funding Small Projects

#### a. Innovation actions

- Develop and test online platforms connecting existing local web entrepreneurship ecosystems and hubs and provide new services for web entrepreneurs
- Include conditions for collaborative innovation
- Help promising web start-ups

4 M€, 100% funding

#### **b.** Coordination Activities

Strengthen the environment for web entrepreneurship - exploit synergies across communities; Increase the impact and reach of online support platforms and services they offer + include training, legal and financial aspects, etc.

European Commission

DG CNECT Contact Point: Unit E3
CNECT-E3@ec.europa.eu

ICT 14 – 2014: Advanced 5G Network Infrastructure Pending for the Future Internet

Draft Commission Decision Decisio

Call Opens 15 July 14
Closes 25 Nov 14

ICT 14: 125 M€

PPP 5G

98 M€, 100% funding Large projects

#### a. Research and Impovation actions

- Radio network architectures and technologies
- Network architecture, protocols and radio technologies
- Low cost ubiquitous radio access infrastructure supporting low rate IoT and very high rate (>> 1Gbit/s) access
- Radio, optical or copper based backhaul/fronthaul integration
- Architectures for 5G transceivers and micro-servers
- Convergence beyond last mile
- Network Management

Radically decrease network management opex through automation whilst increasing user perceived QoS, experience and security

b. Innovation actions

Large project

**Network virtualisation and SW networks:** large scale validation, testing and standardisation in virtualisation; Orchestration logic; Tighter integration between the application/ service layers and the networking layers

2 M€, 100% funding

#### **Coordination and Support Actions**

Monitoring the PPP; international co-operation opportunities; support to standardisation and to spectrum policy; technology roadmaps, ...

**DG CNECT Contact Point: Unit E1** 

CNECT-E1@ec.europa.eu



# 4. Content technologies and information management / 2014-2015

Draft - Pending Commission Decision

#### Addresses:

- Big Data with focus on both innovative data products and services and solving research problems
- Machine translation to overcome barriers to multilingual online communication
- Tools for creative, media and learning industries to mobilise the innovation potential of SMEs active in the area
- Multimodal and natural computer interaction

#### Organised in eight topics:

- ICT 15 2014: Big data and open data innovation and take-up → 50 M€
- ICT 16 2015: Big data research → 39 M€
- ICT 17 2014: Cracking the language barrier → 15 M€
- ICT 18 2014: Support to the growth of ICT innovative creative industries SMEs → 15 M€
- ICT 19 2015: Technologies for creative industries, social media and convergence → 41 M€
- ICT 20 2015: Technologies for better human learning and teaching → 52 M€
- ICT 21 2014: Advanced digital gaming/gamification technologies → 17 M€
- ICT 22 2014: Multimodal and natural computer interaction → 31 M€



# 4. Content technologies and information management / 2014-2015 ICT 15 - 2014: Big data and open data innovation and take up is ion Draft Commission Commission Commission

ICT 15: 50 M€

39 M€, 70% funding **Small & Large projects** 

#### b. Innovation actions

- An incubator for open data supply chains (open calls and support for SMEs to build services on top of open data)
- Innovation and technology transfer in multilingual data harvesting and analytics solutions and services

1 project

A few projects

#### **Coordination and Support Actions**

- Exchange and reuse of data assets;
- Coordination of skills centres for big data analytics technologies and business development;
- Creation of a Big Data integrator platform for all H2020

11 M€, 100% funding 1 CSA per area

**DG CNECT Contact Point: Unit G3** 

CNECT-G3@ec.europa.eu



# 4. Content technologies and information management / 2014-2015 ICT 17 – 2014: Cracking the language barrier Pending Draft Pending Commission Decision Commission Decision

ICT 17: 15 M€

#### a. Research and Innovation actions

A radically improved quality and coverage of machine translation

4 M€, 100% funding)

#### b. Innovation actions

Pilots for optimizing translation quality and language/topical coverage in realistic use situations.

10 M€, 70% funding Small projects

#### **Coordination and Support Actions**

Benchmarking and competitive evaluation of machine translation, and the optimal use of language resources from various sources

1 M€, 100% funding

DG CNECT Contact Point: Unit G2

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# 4. Content technologies and information management / 2014-2015 ICT 18 – 2014: Support to the growth of ICT innovative creative industries SMEs

ICT 18: 15 M€

Draft - Pending Commission Decision

14 M€, 70% funding Small projects (0.5 M€ to 1 M€) for 6-18 months

#### b. Innovation actions

Support creative SMEs in leveraging emerging ICT technologies (e.g. 3D, augmented reality, advanced user interfaces, visual computing) for the development of innovative products, tools, applications and services

1 M€, 100% funding

#### **Coordination and Support Actions**

Stimulate the growth of creative industries: include investor readiness support; connect creative SMEs with appropriate sources of funding; ...

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Javier.Hernandez-Ros@ec.europa.eu
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# 4. Content technologies and information management / 2014-2015

ICT 21 – 2014: Advanced digital gaming/gamification technologies

ICT 21: 17 M€

Draft - Pending Commission Decision

9 M€, 100% funding Large projects

#### a. Research and Innovation actions

Advanced digital gaming technologies and components for the digital game industry

b. Innovation actions

8 M€, 70% funding Small projects

Stimulate technology transfer and new non-leisure applications by SMEs through coordinating and incubating small scale experiments – underpin new market developments on digital games for learning and skills acquisition, and for empowerment and social inclusion

DG CNECT Contact Point: Unit G2
Javier.Hernandez-Ros@ec.europa.eu

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# 4. Content technologies and information management / 2014-2015 ICT 22 – 2014: Multimodal and natural computer interaction of the commission of the commissio

ICT 22: 31 M€

a. Research and Innovation actions

- Interactive information retrieval systems with more efficient and natural ways of delivering answers to users' queries.
- Novel multi-modal, adaptive interfaces, including Brain Computer Interfaces

7.5 M€, 100% funding Small projects

16 M€, 100% funding Small projects

#### b. Innovation actions

Innovative multimodal interfaces to provide more efficient and natural ways of interacting with computers and improve users' experience

7.5 M€, 70% funding Small projects

**DG CNECT Contact Point: Unit G2** 

CNECT-G2@ec.europa.eu



## 5. Robotics / 2014-2015



- Roadmap-based research driven by application needs
- **PPP Robotics**
- Effort to close the innovation gap to allow large scale deployment of robots and foster market take-up: use-cases, pre-commercial procurement, industry-academia collaboration
  - Includes two pre-commercial procurement actions (health-care sector, public safety and environmental monitoring)
- Additional activities: shared resources, performance evaluation & benchmarking, community building and robotic competitions
- Organised in two annual calls (topics ICT 23 2014 and ICT 24 2015)
  - ICT 23 2014: Robotics → 74 M€
  - ICT 24 2015: Robotics → 83 M€



### 5. Robotics / 2014-2015

**ICT 23 – 2014: Robotics** 

Draft - Pending Commission

**PPP Robotics** 

ICT 23: 74 M€

57 M€, 100% funding Small & Large projects

#### a. Research and Innovation actions

- Advance abilities & key technologies for industrial and service robotics
  - Advance cognition, human-robot interaction, mechatronics, navigation, and perception technologies and prove the exploitation potential in the *market domains of manufacturing, commercial, civil, agriculture*
- Horizontal issues: systems development processes, common HW and SW platforms and benchmarking for technology assessment, performance evaluation and certification

12 M€, 70% funding Small & Large projects

#### b. Innovation actions

Technology transfer and robotics use cases: introduce, test and validate robotics in real-world conditions

5 M€ - PCP Cofund 70% funding

#### c. Precommercial Procurement Action

 Public authorities (acting as first users) for procuring robotics for public safety and monitoring of environment and infrastructures

DG CNECT Contact Point: Unit A2
CNECT-A2@ec.europa.eu

Europe
Comm

# 6. Micro- and nano-electronics and photonics Key Enabling Technologies / 2014-2015



- Covers generic technology developments on micro- and nano-electronics focused on advanced research and lower Technology Readiness Levels (TRLs)
  - Complementary to the JTI Electronic Components and Systems (ECSEL)
- Addresses the **full innovation and value chain** in markets sectors where the European **photonics** industry is particularly strong (optical communications, lighting, medical photonics, laser technologies, etc.)

#### → Photonics PPP

- Includes calls for ERANETs as well as public procurement actions (roll-out and deployment of optical networking technologies)
- Organised in five topics:
  - ICT 25 2015: Generic micro- and nano-electronic technologies → 50 M€
  - ICT 26 2014: Photonics KET → 47 M€
  - ICT 27 2015: Photonics KET → 44 M€



- ICT 28 2015: Cross-cutting ICT KETs → 56 M€
- ICT 29 2014: Development of novel materials and systems for OLED lighting → 18 M€



# 6. Micro- and nano-electronics and photonics / 2014-2015

ICT 26 – 2014: Photonics KET

Draft - Pending
Commission Decision

**PPP Photonics** 

ICT 26: 47 M€

28 M€, 100% funding Small projects

#### a. Research and Innovation actions

- Application driven core photonic technology developments – focus on:
  - Biophotonics for screening of diseases
  - Sensing for safety and civil security:
     optoelectronic devices for NIR & MIR sensing applications (0.7 to 50 μm) for high volume markets
- Disruptive approaches in sensing

Photonic sensing devices offering breakthrough advances in sensitivity or specificity

8 M€, 70% funding 1 Large project

#### b. Innovation actions

Open system architectures for Solid State Lighting

5 M€ - PCP Cofund 70% funding

### c. Coordination and Support Actions

Strategic coordination and networking; Wide uptake of SSL technologies; EU-wide outreach

#### c. ERANETS

6 M€ - ERANET Cofund

A joint call for proposals between national & regional grant programmes





DG CNECT Contact Point: Unit A1
CNECT-PHOTONICS@ec.europa.eu

# 6. Micro- and nano-electronics and photonics / 2014-2015

Draft - Pending Commission ICT 29 – 2014: Development of novel materials and systems for OLED lighting



# ICT 29: 18 M€ A Joint Call between ICT and NMP

18 M€, 100% funding **Small projects** 

#### a. Research and Innovation actions

Focus is on: Materials, process & device technology for OLED lighting – focus is on:

- -Materials: competitive lifetime for all colours and white light
- -Devices: OLEDs over larger surfaces, with higher brightness, larger uniformity and longer lifetimes
- -Energy efficacy above 100 lm/W, with improved out-coupling efficiency



- ICT 30 2015: Internet of Things and platforms for Connected Smart Objects → 51 M€
- Cutting across several LEIT-ICT areas (smart systems integration, smart networks, big data)
- Bringing together different generic ICT technologies and their stakeholder constituencies
- ICT 31 2014: Human-centric Digital Age → 7 M€ (for R&I actions and for CSAs)
- Understanding technologies, networks and new digital and social media and how these are changing the way people behave, think, interact and socialise as persons, citizens, workers and consumers
- ICT 32 2014: Cyber-security, Trustworthy ICT → 38 M€
- Focuses on security-by-design for end to end security and a specific activity on cryptography
- Complementary to Cyber-security in Societal Challenge 7
- ICT 33 2014: Trans-national co-operation among National Contact Points → 4 M€
- Mechanisms for effective cross border partnership searches, identifying, understanding and sharing good practices among ICT NCPs



# **ICT Cross-Cutting Activities / 2014-2015**

Draft - Pending Commission ICT 32 – 2014: Cyber-security, Trustworthy ICT

ICT 32: 38 M€

37 M€, 100% funding Small and large projects (2-8 M€)

#### a. Research and Innovation actions

Security-by-design for end-to-end security

Develop and test paradigms across all HW and SW layers of an ICT system and application and business services + include automated security policy governance for open and dynamically reconfigurable environments

#### Cryptography

HW based real-time cryptography, distributed cryptography, post-quantum cryptography for long term security, quantum key distribution (QKD) systems and networks, etc.

#### c. Coordination and Support Actions

Activities supporting the Cryptography Community: integration and structuring of the cryptography community, technology gaps, standards development, training needs and skill shortage, open competitions, dissemination and outreach

> 1 M€, 100% funding

**DG CNECT Contact Point: Unit H4** CNECT-H4@ec.europa.eu

- ICT 34 2015: ICT contribution to pilot for co-investments by business angels in innovative ICT firms → 15 M€

  Pilot action for business angels to co-investigation.
- Implemented by EIF and closely coordinated with "Access to risk finance" part of H2020
- ICT 35 2014: Innovation and Entrepreneurship Support → 7 M€
- ICT business idea contests in universities and high schools
- ICT entrepreneurship summer academy
- ICT entrepreneurship labs
- Campaign on entrepreneurship culture in innovative ICT sectors
- Support for definition and implementation of inducement prizes
- ICT 36 2015: Pre-commercial procurement open to all areas of public interest requiring new ICT solutions → 4 M€
- European networks of procurers
- Pre-commercial procurement
- ICT 37 2014-15: Open Disruptive Innovation Scheme → 45 M€ (2014) + 45 M€ (2015)
- Support to a large set of early stage high risk innovative SMEs in ICT
- Implementation through the **SME instrument** 
  - -> Continuously open calls with several (3) cut-off dates/year
  - -> 5% of LEIT budget

# ICT innovation actions / 2014-2015

# ICT 37 – Open Disruptive Innovation Scheme Draft Pending Decision Financing innovative SMEs through the dedicated SME instrument

- For early stage, high-risk innovative SMEs
- •Objective: nurture promising innovative and disruptive ideas; support prototyping and demo in real world environments; help deployment
- Phase 1: Concept and feasibility assessment
- → lump sum of 50 K€ per project for ~6 months project durations
- ■Phase 2: R&D, demonstration, market replication (70% funding)
- → 0.5 to 2.5 M€ per project for 1 to 2 years; Must include a first commercialisation plan
- **■Phase 3**: via the Debt Facility (EIB/EIF)
- → Apply for Phase 1 or directly for Phase 2
- Budget of the action: 90 M€ for 2014-15: (10% Phase 1, 88% Phase 2, 2% Phase 3)
- **■**Continuously Open Calls Opens 1<sup>st</sup> March (TBC)
- **3 Cut-off dates in 2014:** For phase 1: 18.06, 24.09,17.12; for Phase 2 TBD
- ■Time to Grant: 3 months for Phase 1 and 6 months for Phase 2



# International cooperation actions / 2014-2015



- Coordinated calls
- EU-Brazil
- Cloud computing, including security aspects
- High performance computing
- Experimental platforms
- EU-Japan
  - Technologies combining big data, internet of things in the cloud
  - Optical communications
  - Access networks for densely located users
  - Experimentation and development on federated Japan-EU testbeds
- ICT 38 2015: International partnership building and support to dialogues with high income countries (USA, Canada, East Asia and Oceania) → 3 M€
- ICT 39 2015: International partnership building in low and middle income countries → 11 M€



# Factory of the Future / 2014-2015



Call DDL:

20 March 14

- Focuses on **ICT components of innovative production systems in all sectors** (for more personalised, diversified and mass-produced product portfolio and for rapid adaptations to market changes)
- Organised in three topics:
  - FoF 1 2014: Process optimisation of manufacturing assets → 34 M€

includes R&I on CPS-based process optimisation (Cyber-Physical Systems) for adaptive and smark manufacturing systems; Collaborative and mobile manufacturing (cloud-enabled) process optimisation of manufacturing assets across the supply chain; and, towards zero-failure laser-based manufacturing;

- FoF 8 2015: ICT-enabled modelling, simulation, analytics and forecasting technologies → 32 M€
- FoF 9 2015: ICT Innovation for Manufacturing SMEs (I4MS) → 36 M€
- Part of the PPP FoF



# **Call planning overview**

Draft - Pending Commission

#### LEIT

- H2020-ICT-2014 (ICT Call 1)
  - Publication date: 11 December 2013
  - Deadline: 23 April 2014 (all topics except 5G Future Internet)
  - Deadline for 5G Future Internet: 25 November 2014
- H2020-FoF-2014/2015 (Factory of the Future)
  - Publication date: 11 December 2013
  - Deadlines: 20 March 2014 and 9 December 2014
- H2020-EUJ-2014 (EU-Japan Call)
  - Publication date: 7 January 2014
  - Deadline: 10 April 2014
- H2020-ICT-2015 (ICT Call 2)
  - Publication date: 15 October 2014
  - Deadline: 21 April 2015 (TBC)
- H2020-EUB-2015 (EU-Brazil Call)
  - Publication date: 15 October 2014
  - Deadline: 21 April 2015 (TBC)



# **Guide to the presence of ICT in H2020**

- Comprehensive coverage of all three H2020 pillars
- Detailed list of calls and topics

#### Find out more:

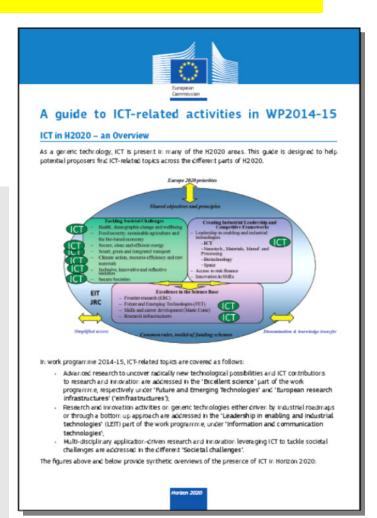
- http://ec.europa.eu/research/horizon2020/index\_en.cfm
- **A guide to ICT-related activities in WP2014-15:**<a href="http://ec.europa.eu/information-society/newsroom/cf/dae/document.cfm?doc\_id=3511">http://ec.europa.eu/information-society/newsroom/cf/dae/document.cfm?doc\_id=3511</a>
- ■The ICT LEIT WP 2014-15 can be found at:

  <a href="https://ec.europa.eu/digital-agenda/sites/digital-agenda/files/H2020%20LEIT-ICT%20WP%202014-15%20-agenda/files/H2020%20LEIT-ICT%20WP%202014-15%20-agenda/files/H2020%20LEIT-ICT%20WP%202014-15%20-agenda/files/H2020%20LEIT-ICT%20WP%202014-15%20-agenda/files/H2020%20LEIT-ICT%20WP%202014-15%20-agenda/files/H2020%20LEIT-ICT%20WP%202014-15%20-agenda/files/H2020%20LEIT-ICT%20WP%202014-15%20-agenda/files/H2020%20LEIT-ICT%20WP%202014-15%20-agenda/files/H2020%20LEIT-ICT%20WP%202014-15%20-agenda/files/H2020%20LEIT-ICT%20WP%202014-15%20-agenda/files/H2020%20LEIT-ICT%20WP%202014-15%20-agenda/files/H2020%20LEIT-ICT%20WP%202014-15%20-agenda/files/H2020%20LEIT-ICT%20WP%202014-15%20-agenda/files/H2020%20LEIT-ICT%20WP%202014-15%20-agenda/files/H2020%20LEIT-ICT%20WP%202014-15%20-agenda/files/H2020%20LEIT-ICT%20WP%202014-15%20-agenda/files/H2020%20LEIT-ICT%20WP%202014-15%20-agenda/files/H2020%20LEIT-ICT%20WP%202014-15%20-agenda/files/H2020%20LEIT-ICT%20WP%202014-15%20-agenda/files/H2020%

<u>%2031%2010%202013.pdf</u>

•The Participant Portal to be revamped soon:

https://ec.europa.eu/research/participants/portal







# Thank you for your attention!

Find out more:

www.ec.europa/research/horizon2020