ICT in the LEIT Priority of HORIZON 2020

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

Athens, 19 November 2013

Thomas Skordas
Head of the Photonics Unit
DG CONNECT, European Commission
Creating Industrial Leadership and Competitive Frameworks

− Leadership in enabling and industrial technologies
  − ICT
  − Nanotech., Materials, Manuf. and Processing
  − Biotechnology
  − Space
  − Access to risk finance
  − Innovation in SMEs

Tackling Societal Challenges

− Health, demographic change and wellbeing
− Food security, sustainable agriculture and the bio-based economy
− Secure, clean and efficient energy
− Smart, green and integrated transport
− Climate action, resource efficiency and raw materials
− Inclusive, innovative and reflective societies
− Secure Societies

Excellence in the Science Base

− Frontier research (ERC)
− Future and Emerging Technologies (FET)
− Skills and career development (Marie Curie)
− Research infrastructures

Shared objectives and principles

Europe 2020 priorities

Simplified access

Common rules, toolkit of funding schemes

Dissemination & knowledge transfer

HORIZON 2020
Industrial Leadership - ICT

1. A new generation of components and systems: engineering of advanced embedded and resource efficient components and systems

2. Next generation computing: advanced and secure computing systems and technologies, including cloud computing

3. Future Internet: software, hardware, infrastructures, technologies and services

4. Content technologies and information management: ICT for digital content, cultural and creative industries

5. Advanced interfaces and robots: robotics and smart spaces

6. Micro- and nanoelectronics and photonics: key enabling technologies

• Covers **systemic integration from smart integrated components to cyber-physical systems**

• **Complementary to the JTI Electronic Components and Systems (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)

ICT 1: 56 M€

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

• Towards platforms and ecosystems: reference architectures and platforms for open, smart and co-operative CPS
• Towards a "smart everywhere" society: For networks of embedded systems design centres to help businesses innovate → large scale experiments driven by user requirements

Support Actions

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

DG CNECT Contact Point: Unit A3
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37 M€ - 100% funding
Small & large projects

17 M€ 70% funding
Small projects

Large projects

2 M€, 100% funding

ICT 2 – 2014: Smart System Integration

ICT 2: 48 M€

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 application-specific smart systems

b. Innovation actions

- 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

1 M€, 100% funding

Precommercial Procurement Action

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

Coordination and Support Actions

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

DG CNECT Contact Point: Unit A4
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Commission Decision
Draft – Pending
ICT 3 – 2014: Advanced TOLAE technologies

ICT 3: 38 M€

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

17 M€ - 100% funding
Small projects

15.5 M€ - 70% funding
Large projects

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
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• Reinforce and expand Europe's industrial and technology strengths in **low-power 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€

Multi core and parallel architectures

Energy efficiency

Mixed criticality systems and applications

• 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 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 5 – 2014: Smart networks and novel Internet architectures

ICT 5: 24 M€

a. Research and Innovation actions

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

Draft – Pending Commission Decision

DG CNECT Contact Point: Unit E1
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ICT 6 – 2014 Smart optical and wireless network technologies

ICT 6: 30 M€

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.

Draft – Pending Commission Decision

DG CNECT Contact Point: Unit E1
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29 M€ - 100% funding
Small projects

1 M€, 100% funding
ICT 7 – 2014: Advanced cloud infrastructures and services

ICT 7: 73 M€

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

Coordination and Support Actions

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

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

DG CNECT Contact Point: Unit E2
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### 3. Future Internet / 2014-2015

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

**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+

**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**
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ICT 13 – 2014: Web Entrepreneurship

ICT 13: 10 M€

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

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.

6 M€, 70% funding Small Projects

4 M€, 100% funding

DG CNECT Contact Point: Unit E3
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ICT 14 – 2014: Advanced 5G Network Infrastructure for the Future Internet

ICT 14: 125 M€

Call Opens 15 July 14
Closes 25 Nov 14

a. Research and Innovation 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

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

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
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98 M€, 100% funding Large projects

25 M€, 70% funding Large project

2 M€, 100% funding Large project

• 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€
ICT 15 – 2014: Big data and open data innovation and take-up

**ICT 15: 50 M€**

### 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

### 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

39 M€, 70% funding Small & Large projects

11 M€, 100% funding 1 CSA per area

1 project

A few projects

DG CNECT Contact Point: Unit G3
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ICT 17 – 2014: Cracking the language barrier

ICT 17: 15 M€

a. Research and Innovation actions
A radically improved quality and coverage of machine translation

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

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

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4 M€, 100% funding

10 M€, 70% funding
Small projects

1 M€, 100% funding

Draft – Pending Commission Decision
ICT 18 – 2014: Support to the growth of ICT innovative creative industries SMEs

ICT 18: 15 M€

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

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

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

1 M€, 100% funding

Draft – Pending Commission Decision

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ICT 21 – 2014: Advanced digital gaming/gamification technologies

ICT 21: **17 M€**

**a. Research and Innovation actions**

Advanced digital gaming technologies and components for the digital game industry

9 M€, 100% funding 
Large projects

**b. Innovation actions**

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

8 M€, 70% funding 
Small projects

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ICT 22 – 2014: Multimodal and natural computer interaction

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
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• **Roadmap-based research driven by application needs**

• **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€
ICT 23 – 2014: Robotics

ICT 23: 74 M€

PPP Robotics

57 M€, 100% funding
Small & Large projects

12 M€, 70% 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

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

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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€
ICT 26 – 2014: Photonics KET

PPP Photonics

ICT 26: 47 M€

28 M€, 100% funding
Small projects

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

b. Innovation actions
Open system architectures for Solid State Lighting

8 M€, 70% funding
1 Large project

5 M€ - PCP Cofund
70% funding

c. Coordination and Support Actions
Strategic coordination and networking; Wide uptake of SSL technologies; EU-wide outreach

6 M€ - ERANET Cofund

c. ERANETs
A joint call for proposals between national & regional grant programmes

DG CNECT Contact Point: Unit A1
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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 29: 18 M€
A Joint Call between ICT and NMP

a. Research and Innovation actions

ICT 29: 18 M€, 100% funding
Small projects

ICT 29 – 2014: Development of novel materials and systems for OLED lighting

DG CNECT Contact Point: Unit A1
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ICT Cross-Cutting Activities / 2014-2015

- **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
ICT 32 – 2014: Cyber-security, Trustworthy ICT

ICT 32: 38 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

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

1 M€, 100% funding

DG CNECT Contact Point: Unit H4
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ICT innovation actions / 2014-2015

- **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-invest in ICT innovative companies
  - 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

  - 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
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 1st 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

**DG CNECT Contact Point: Unit F2**
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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€
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 smart 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

• 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:
- The Participant Portal to be revamped soon: [https://ec.europa.eu/research/participants/portal](https://ec.europa.eu/research/participants/portal)
Thank you for your attention!

Find out more:
www.ec.europa/research/horizon2020