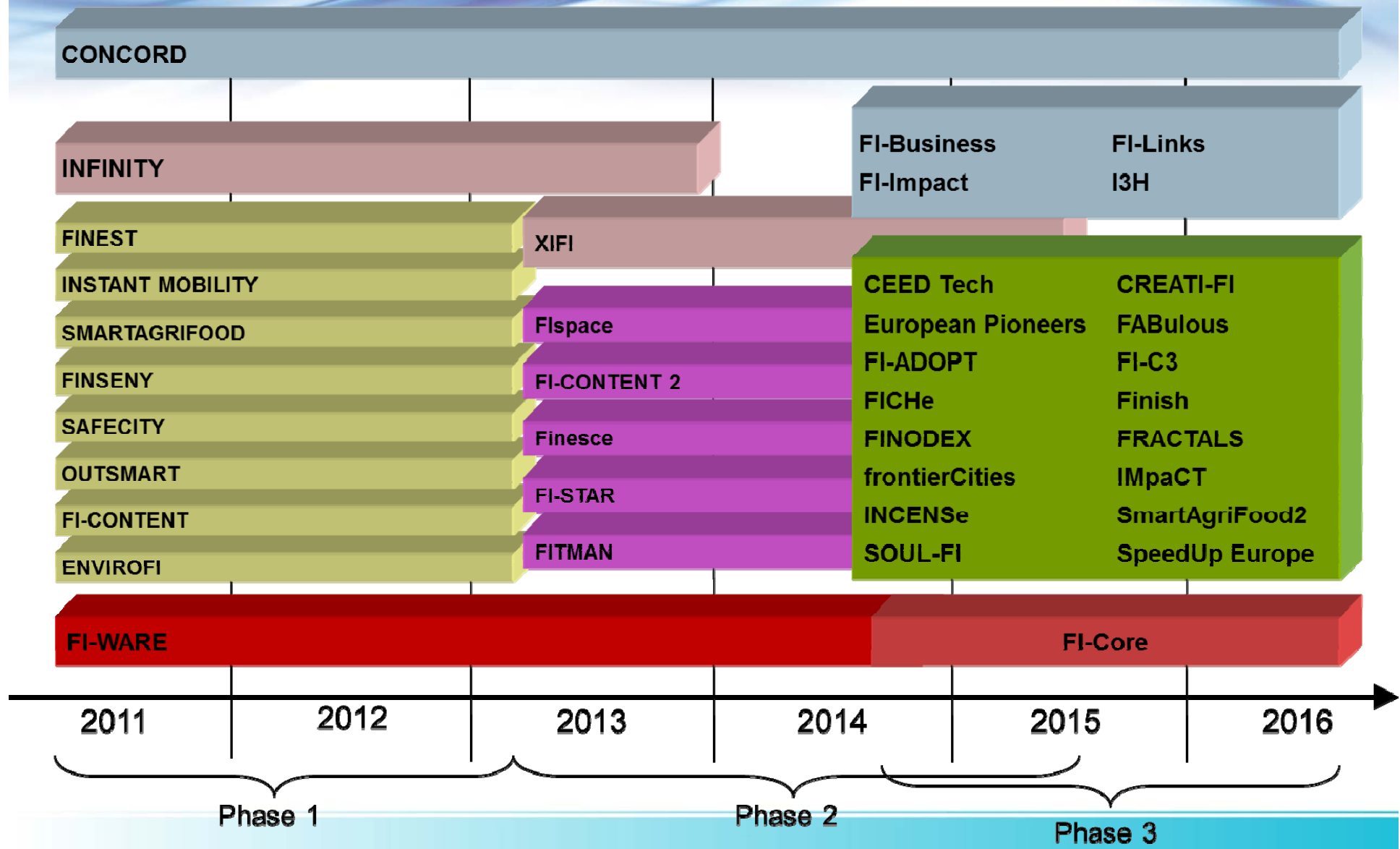




FIWARE Accelerator projektek

- Future Internet - Accelerators
- ICT across H2020
- How to find suitable calls?
- National contact point services
- Participation conditions
- Proposal submission
- Evaluation

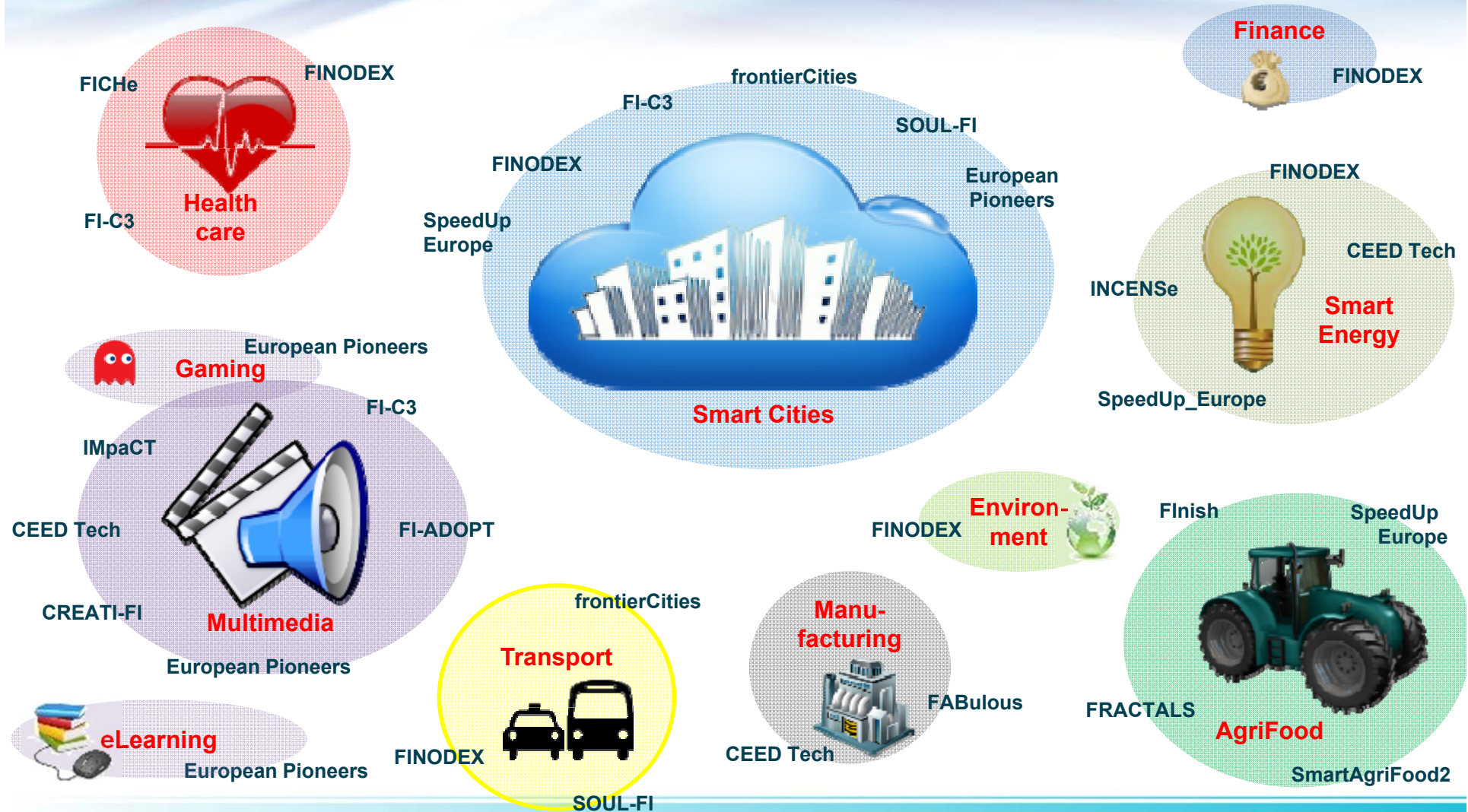
FI-PPP Programme



Where are the FIWARE accelerators?



TOPIC SECTORS COV





NEMZETI INNOVÁCIÓ
HIVATAL

FIWARE

ACCELERATOR PROGRAMME

Supporting Web entrepreneurs, startups and SMEs



Up to 150 K€ /
0% shares (equity free)



FIWARE
Accelerator



PROLOGUE

PROLOGUE

PROLOGUE

PROLOGUE

PROLOGUE



FIWARE

Accelerator Programme

www.fiware.org

New applications
and services
New companies
New markets



#SmartCities



#eHealth



#Social
Gleaning



#Manufacturing
&Logistics



#Media
&Content



#Transport



#AgriFood



#Energy
&Environment

www.fiware.org

Future Internet Accelerators

Which sectors are we talking about?

Select the area that suits your project best:



Future Internet Accelerators

Smart Cities

- CEED Tech
- EuropeanPioneers
- FI-C3
- frontierCities
- IMPACT
- INCENSE
- SOUL-FI
- SpeedUP!



Future Internet Accelerators

eHealth

- FI-ADOPT
- Finodex
- FI-C3
- FICHe



Future Internet Accelerators

Transport

- SOUL-FI
- Finodex
- Flnish
- frontierCities



Future Internet Accelerators

Energy & Environment

- SOUL-FI
- INCENSE
- Finodex
- CEED Tech
- SpeedUP!



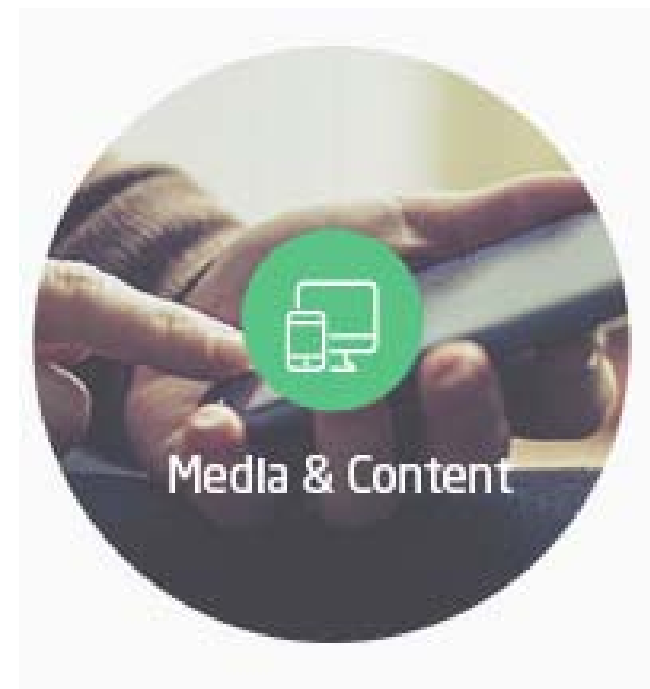
Agrifood

- FRACTALS
- Flnish
- SmartAgriFood
- SpeedUP!



Media & Content

- CreatiFI
- IMPACT
- CEED Tech
- FI-C3
- EuropeanPioneers
- FABulous



Future Internet Accelerators

Manufacturing & Logistics

- FABulous
- CEED Tech
- Flnish



Social & Learning

- SOUL-FI
- IMPACT
- FI-ADOPT
- EuropeanPioneers



About FINODEX

Finodex is a FIWARE accelerator funding and supporting the development and creation of innovative ICT-based products and services that make use of FIWARE platform and reuse Open Data.



Finodex offers:

- From **10k to 170k** funding
- A package of 5 free support services provided by 6 international partners

Finodex offers:

- 2 open calls :
 - 1st call: Signup before 19 Dec
 - 2nd call: spring 2015

Contact Finodex:

www.finodex-project.eu
info@finodex-project.eu
[@Finodexproject](https://twitter.com/Finodexproject)

Pre-proposal:

[http:// www.finodex-project.eu/preproposal](http://www.finodex-project.eu/preproposal)
to help prepare a winning proposal

About Speedup Europe

A disruptive acceleration programme providing funding as well as innovative support actions to European SMEs and teams of web entrepreneurs (3 to 5 members) developing high impact applications using FIWARE technologies in the areas of **Smart Cities**, **Clean Tech** and **Agribusiness**.

Speedup Europe offers to teams (3 to 5 members):

- Support to **match skills and staff into teams** (before proposals)
- **Funding from up to 70k €** for selected projects + Awards
- Innovative **support actions** via our hubs (Hamburg, Stockholm, Copenhagen, Aarhus)

<http://www.speedupeurope.eu/>
[@speedupeurope](#)



FI-ADOPT is a project accelerator aiming to promote the use and adoption of FIWARE technologies and assets. It will provide **financial, technological and business/market uptake support** to European SMEs and web entrepreneurs to develop highly innovative applications **based on the FIWARE Platform in the areas** of:

- Corporate and citizen's learning/training
- Healthy behaviour and wellbeing shaping
- Social cultural integration

FI-ADOPT offers:

- From **50k to 150k** funding
- Technological and business support

Contact FI-ADOPT:

<http://fiadopt-project.eu/>
@FIAdopt

FI-ADOPT offers:

- 3 open calls :
 - 1st call: Closed
 - 2nd call: 15 December to 31 January
 - 3rd call: March/April 2015

- FABulous aims to foster the innovation and web-entrepreneurship ecosystem for 3D printing in Europe bringing together FI assets, infrastructures and investors with innovators and entrepreneurs in the field of design manufacturing, logistics and content-based services to establish the European Network of Manufacturing Innovation Labs.

- SOUL-FI is seeking to promote the development of products and/or services that take advantage of real time information, open and crowd-sourced data. SOUL-FI is open for ideas based on FIWARE technologies that make the best of what the Internet of Things has to offer. Applications must address the domain of smart cities and sustainable mobility.

- CreatiFI's main objectives are to bridge the innovation gap between European Creative Industries and other regions in the world, while also boosting Europe's unique strengths of cultural diversity, which define its creative output. Applicants will be SMEs and web-entrepreneurs established in an EU member state (among others), using FIWARE technologies and preparing a CreatiFI programme.

- FI-C3's aim is to promote projects by SMEs and web-entrepreneurs relating to innovative products/services in three business domains: smart territories (smart city guides; smart city platforms; smart city services...), media & contents (multimedia augmented reality; transmedia/crossmedia devices; video games...), and care & well-being (smart home; indoor position; personalized connected media...). Selection criteria will be based on business idea, team, status and potential of the project.

- frontierCities aims to support the development and deployment of smart mobility solutions for cities. The goal of frontierCities is to bring the benefits of smart mobility solutions, which enhance mobility and quality of life, to European cities. Smart mobility applications supported by frontierCities will use the FIWARE technologies and environment.

- CEED Tech is a consortium of five startup accelerators, operating in Central and Eastern Europe; it aims to help young companies build viable products, launch them quickly and successfully raise capital. Its acceleration processes are designed around the specific needs of participants, employing the best practices used by world-leading accelerators. In only three years, it has launched 94 technology companies and helped them to raise over €5M in seed and venture capital

- The IMPACT project will facilitate the promotion and early adoption of FIWARE Technologies focusing on mobile technologies through a support program for start-ups. These mobile technologies **MUST** be present at the business model of applicants. IMPACT consortia will be coordinated by Buongiorno Spa, a world class Global Corporation in the mobile commerce ecosystem for developing and managing paid apps and services that help consumers get greater enjoyment from

Flnish

- The Flnish accelerator will foster the development and operation of intelligent software applications for supply chains of perishable products such as food or flowers. Application is open for SMEs, startups and web-entrepreneurs. Selection will be based on business potential, technological excellence and acceleration. Separate hackathons for natural persons and a competition for SMEs and startups will also be organized.

- FRACTALS aims to support the community of innovative ICT SMEs and web-entrepreneurs to develop FIWARE based applications with high market potential, addressing the needs of the agricultural sector. FRACTALS Call will be open to all European SMEs and web-entrepreneurs but will additionally focus on areas which are considered as "white spots" (Balkans, South East Europe).

- Future Internet CHallenge eHealth (FICHe) aims to accelerate SMEs and startups that develop innovative applications in the eHealth domain using FIWARE technology. FICHe will provide SMEs or startups with direct funding, technical training and business coaching.

- Internet Cleantech ENablers Spark (INCENSE) project aims to foster innovation and high-tech employment in the European ENERGY sector by developing a cross border initiative across Europe. INCENSE will select SMEs and web entrepreneurs intending to develop innovative Internet-based technologies in the Clean Tech sector, focusing on the following categories: Smart Grids, ICT, Automation Solutions, Energy Efficiency, Energy Storage, Electric Mobility, Renewable Generation

SmartAgriFood2

- SmartAgriFood aims to provide farmers and agricultural producers throughout Europe with ICT products (services and applications) ready for immediate use through an open and easily accessible online marketplace. Projects are expected to address one or more of three representative farming subsectors (Arable Farming - large-scale, Horticulture, Livestock Farming) and provide smart solutions for specific farm operations or farm management activities. New or existing applications should use FIWARE technologies and ideally be delivered through the FIspace platform (an integrated collaboration system).

- The FI-ADOPT accelerator will create a technological and business ecosystem in which SMEs and web-entrepreneurs will be supported to develop highly innovative applications for corporate and citizen's learning/training, healthy behaviour shaping and social integration purposes. They will employ rich media, social networking, and mobile apps and gaming principles. Selection criteria will be based on technological

- EuropeanPioneers aims to enlarge the number of web-entrepreneurs in the field of media in Europe and especially to implement successful state-of-the-art businesses in this field. Thus, the project focuses on creative ideas with the potential to exploit the latest technology provided by FIWARE and FI-CONTENT for the development of software applications enriching the media business landscape and improving media usage for end-customers as well as media suppliers. Minimum threshold

Mi a közös a FI Accelerator programokban?

FI-WARE Questionnaire - Evaluation

Series of questions that will be taken into account when **measuring usage of FIWARE** by a given application to any of the Open Calls published by FIWARE Accelerator Projects.

They will be considered by evaluators of the **top-level evaluation criterion** related to Use of the FIWARE technology.

<http://www.fi-ware.org/fiware-usage-questionnaire/>

FI-WARE Enablers - Generic

- Advanced middleware & interfaces to Network & Devices
- Advanced Web-based User Interface
- Applications/Services Ecosystems and Delivery Framework
- Cloud Hosting
- Data/Context Management
- Internet of Things Services Enablement
- Security

<http://catalogue.fi-ware.org/enablers>

FI Accelerator programok

Miben különböznek?

Program-specifikus elemek

Ki jelentkezhet?

- Magánszemély ötletgazdák
- Csapatok (alapítók)
- Web entrepreneur
- KKV-k

PÉLDÁK
Programonként
eltérhet !!!

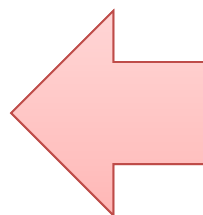
- 10 K EUR – 250 K EUR
- Több fázisú programok
- Támogatás formája
 - összegű „lump sum”
 - költségelszámolás alapú
 - díj
- Támogatás intenzitás –
100% vagy önrész követelmény
- Egyéb források bevonása



PÉLDÁK
Programonként
eltérhet !!!

Értékelési kritériumok

- Ötlet
- Piaci / üzleti lehetőségek
- Végrehajtás
- Csapat
- FI WARE technológiák alkalmazása



PÉLDÁK
Programonként
eltérhet !!!

Támogató szolgáltatások

- Ingyenes szolgáltatás (képzés, mentorok)
- Kapcsolat befektetőkkel, potenciális ügyfelekkel, kulcsszereplőkkel
- A termékek/szolgáltatások széleskörű teszteléséhez szükséges tárgyalások támogatása
- További finanszírozási források felkutatása (előkészítés befektetési csatornákra, közösségi finanszírozás, befektetések biztosítása)



PÉLDÁK
Programonként
eltérhet !!!

Jelentkezési folyamat

- Online űrlap
- 10-15 oldal projektleírás
(letölthető űrlap)
- Prezentáció
- Elevator pitch (1-2 perces video)
- Egyéb : pl. FI-AMAZE US

PÉLDÁK
Programonként
eltérhet !!!

Ingyenes start-up közösségi háló

- Founders get deals,
- List & recruit start-up jobs,
- Find info on start-up programs
- Apply for funding (Accelerators, Funds, Angels)
- Investors find great start-ups.
- Events
- etc.

<http://www.f6s.com/>

Miért érdemes részt venni ?

16 különböző FIWARE accelerator

- Különböző
- Tematikus orientáció
- Helyszín
- Támogatási formák / folyamatok időtartam

→ ***Ön választ***

Az Accelerátor programokkal az **ötletét EU/globális piacokon versenyképes termékké/szolgáltatássá** alakíthatja

→Több mint anyagi támogatás:

mentorok + kapcsolatok + növekedés támogatása



Horizon 2020 & Opportunities in ICT

What's new

- **A single programme** bringing together three separate programmes/initiatives*
- **Coupling research to innovation** – from research to retail,
all forms of innovation
- **Focus on societal challenges** facing EU society, e.g.
health,
clean energy and transport
- **Simplified access**, for all companies, universities,
institutes in all EU countries and beyond

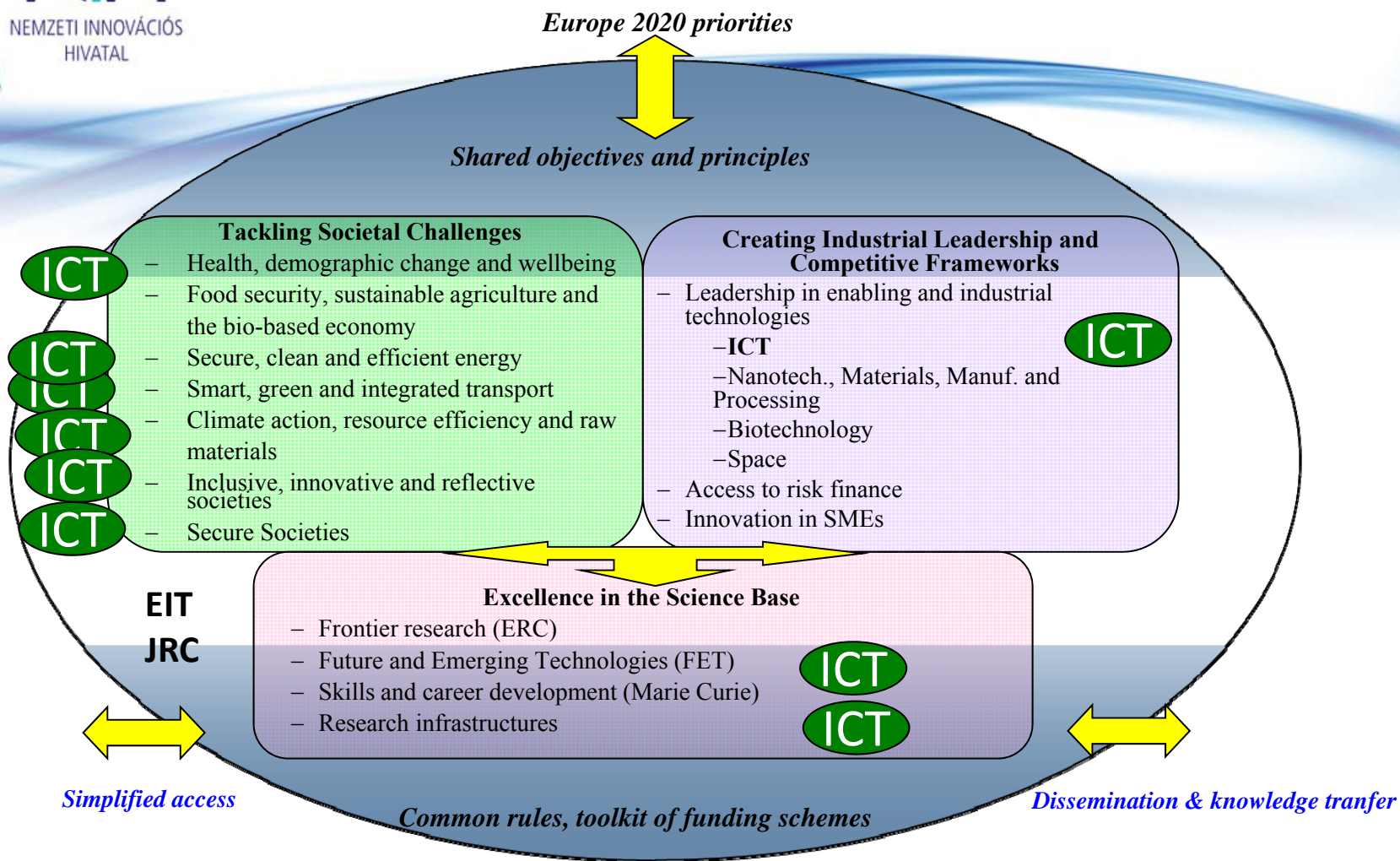
* The 7th Research Framework Programme (FP7), innovation aspects of Competitiveness and Innovation Framework Programme (CIP), EU contribution to the European Institute of Innovation and Technology (EIT)

ICT in H2020

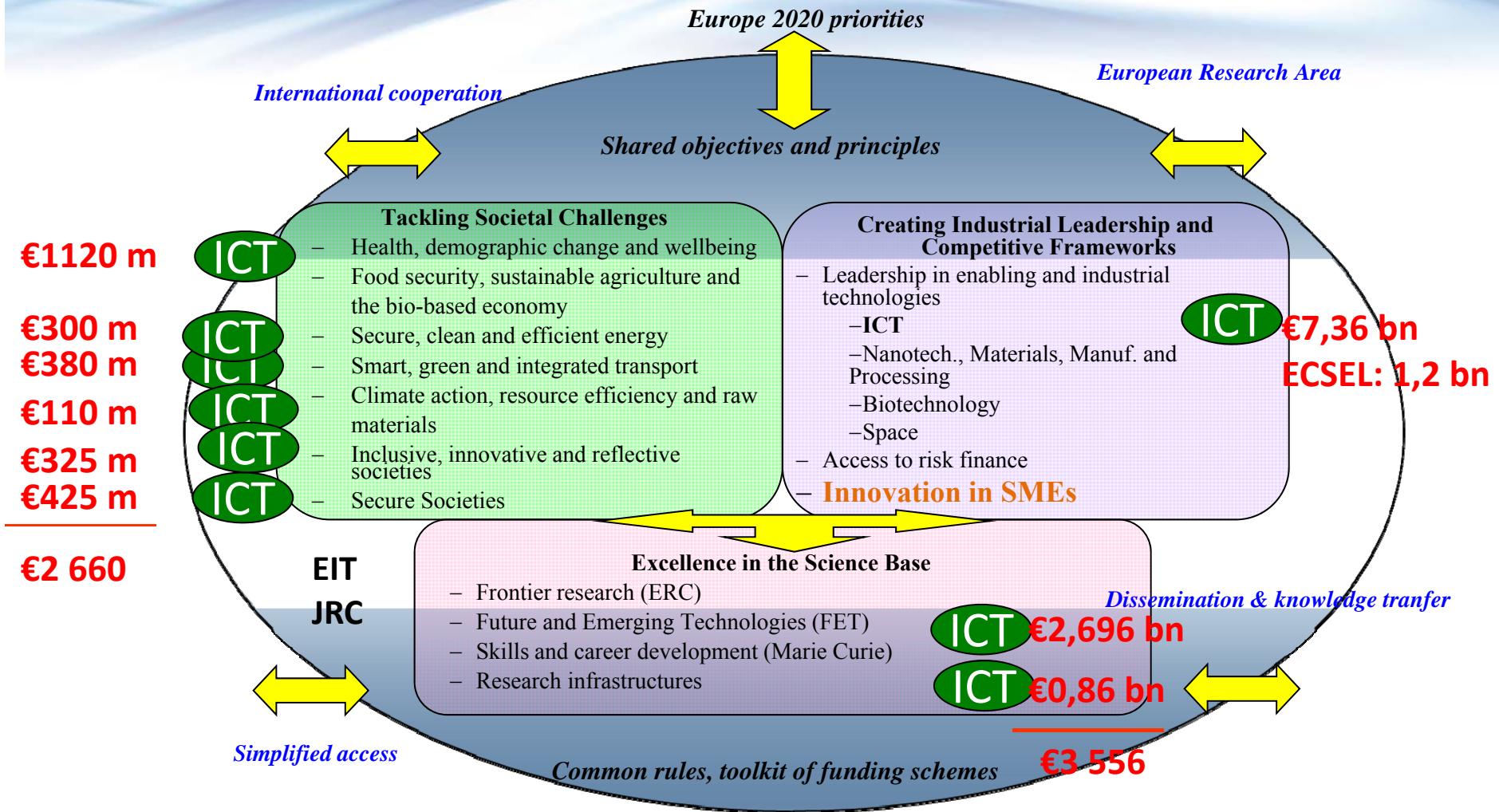
ICT in the 3 Pillars



Simplification?

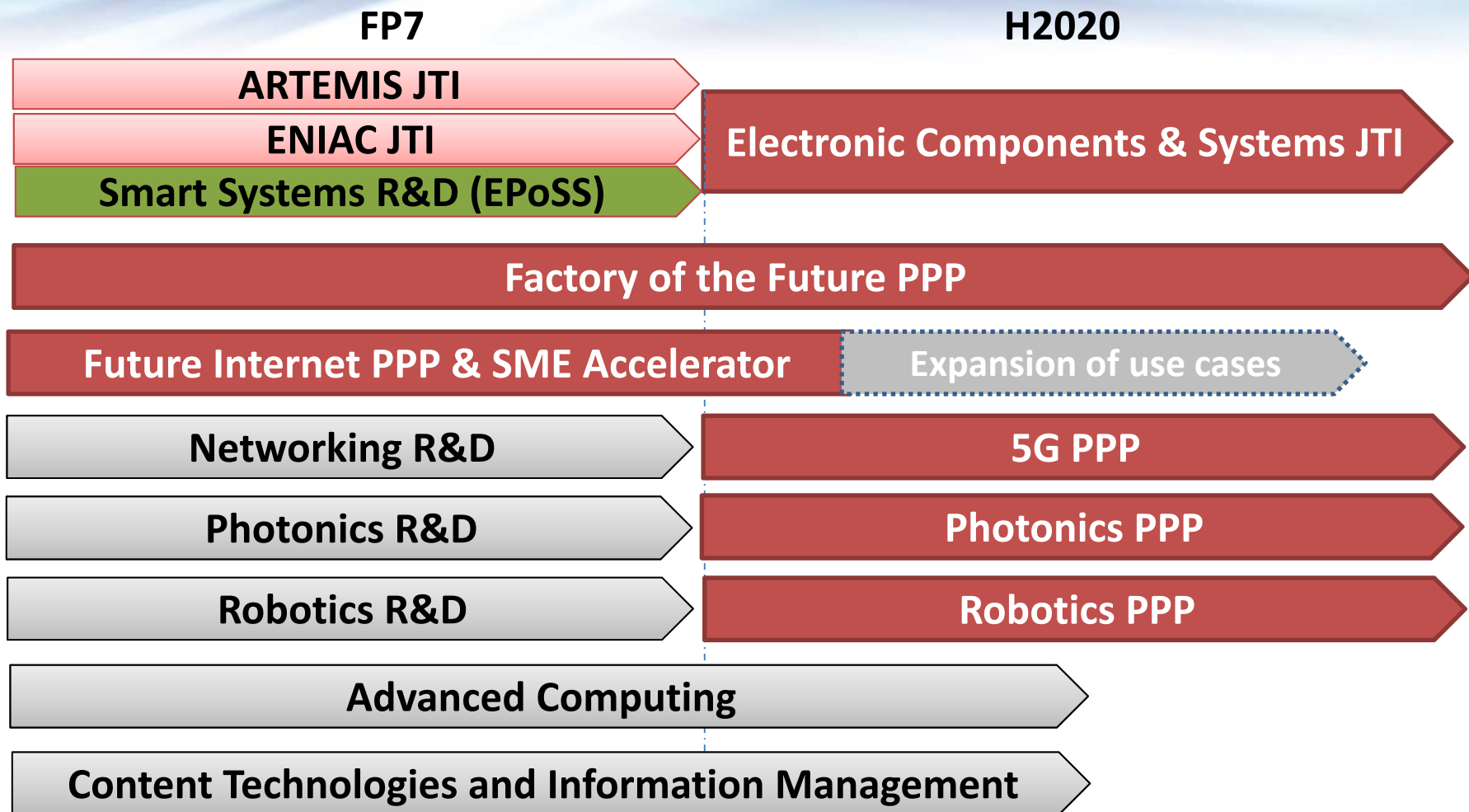


ICT in H2020 (€ 13 576)





ICT Roadmap-based research: Continuity and consolidation



8 Public-Private Partnerships

- **Factories of the Future (FoF)**, to support the manufacturing industry through the development of sustainable production technologies and systems (1150 M€)
- **Energy-efficient Buildings (EeB)**, to increase the competitiveness and energy efficiency of the construction industry (600 M€)
- **European Green Vehicles Initiative (EGVI)**, to develop a competitive and resource efficient transport system with significantly less CO2 emissions (750 M€)
- **Sustainable Process Industry (SPIRE)**, to make the process industry more resource- and energy-efficient (900 M€)
- **Photonics**, one of the key enabling technologies for our future prosperity and an essential element of many sectors, from energy and health, to everyday products like DVD players and mobile phones (700 M€)
- **Robotics**, a key driver of industrial competitiveness and essential to address key societal challenges in areas such as demographic change, health and well-being, food production, transport and security (700 M€)
- **High Performance Computing (HPC)**, which plays a pivotal role in stimulating Europe's economic growth and advancing European science (700 M€)
- **Advanced 5G networks for the Future Internet (5G)**, stimulate development of network internet infrastructure to ensure advanced ICT services for all sectors and users (700 M€)

Funding (€ million, 2014-2020)

Excellent Science Pillar

<i>European Research Council (ERC)</i> Frontier research by the best individual teams	13 095
<i>Future and Emerging Technologies</i> Collaborative research to open new fields of innovation	2 696
<i>Marie Skłodowska-Curie actions (MSCA)</i> Opportunities for training and career development	6 162
<i>Research infrastructures</i> (including e-infrastructure) Ensuring access to world-class facilities	2 488 (ICT: 863)

3 559

Funding (€ million, 2014-2020)

Industrial Leadership Pillar

<i>Leadership in enabling and industrial technologies (LEITs)</i> (ICT, nanotechnologies, materials, biotechnology, manufacturing, space)	13 557 (ICT: 7 360)
<i>Access to risk finance</i> Leveraging private finance and venture capital for research and innovation	2 842
<i>Innovation in SMEs</i> Fostering all forms of innovation in all types of SMEs	616 + complemented by expected 20% of budget of societal challenges + LEITs and ' <i>Access to risk finance</i> ' with strong SME focus

7 360



Funding (€ million, 2014-2020) Societal Challenges Pillar

ICT

Health, demographic change and wellbeing	7 472	15%
Food security, sustainable agriculture, marine and maritime research & the Bioeconomy	3 851	0
Secure, clean and efficient energy	5 931	5%
Smart, green and integrated transport	6 339	6%
Climate action, resource efficiency and raw materials	3 081	3.5%
Innovative, inclusive and reflective societies	1 309	25%
Secure societies	1 695	25%
<i>Science with and for society</i>	462	0
<i>Spreading excellence and widening participation</i>	816	0

30 956

2 660

A guide to ICT-related activities in WP2014-15

http://ec.europa.eu/information_society/newsroom/cf/dae/document.cfm?doc_id=3511

Guide to the presence of ICT in H2020

Find out more:

<http://ec.europa.eu/programmes/horizon2020/>

A guide to ICT-related activities in WP2014-15:

http://ec.europa.eu/information_society/newsroom/cf/dae/document.cfm?doc_id=3511

H2020 launched first calls:

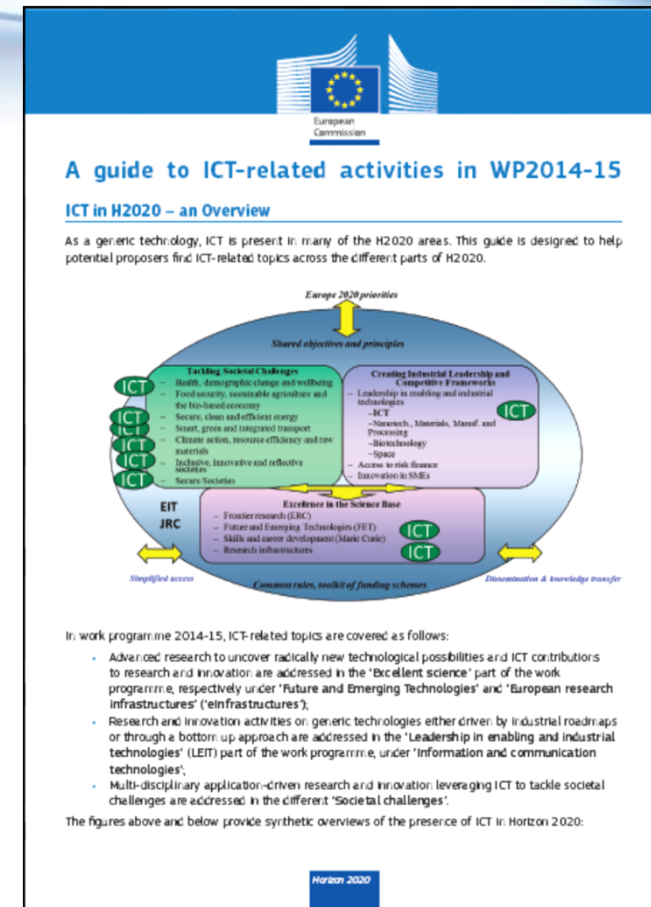
<http://ec.europa.eu/programmes/horizon2020/en/news/horizon-2020-launched-%E2%82%AC15-billion-over-first-two-years>

H2020 Calls published, see here:

https://ec.europa.eu/research/participants/portal/desktop/en/opportunities/h2020/master_calls.html#h2020-fof-2014-2015

The Participant Portal:

<https://ec.europa.eu/research/participants/portal/desktop/en/home.html>



http://ec.europa.eu/information_society/newsroom/cf/dae/document.cfm?doc_id=3511

ICT in Industrial leadership





ICT in Industrial Leadership - 100%

Támogatás felosztás 2014-15-ben

1. Components and systems -12%
 2. Advanced Computing - 3%
 3. Future Internet-21%
 4. Content technologies and information management -14%
 5. Robotics - 8%
 6. Key Enabling Technologies: Micro-nano-electronics and photonics - 21%
- + Factory of the Future cPPP – 6%
- + International Cooperation actions (EU-Brazil, EU-Japan) – 1%

ICT Cross cutting activities: -5%

- Internet of Things
- Human-centric Digital Age
- Cybersecurity
- Support to NCPs

ICT Innovation actions – 9%

- Access to finance
- Innovation policy support
- Open disruptive innovation scheme (SME instrument) -5%

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: **13 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: **14 April 2015**
- **H2020-EUB-2015 (EU-Brazil Call)**
 - Publication date: 15 October 2014
 - Deadline: **21 April 2015**

ICT in 2nd Pillar-LEIT-ICT1

- **ICT in 'Leadership in Enabling and Industrial Technologies'**
- **A new generation of components and systems**
 - ICT 1 – 2014: Smart Cyber-Physical Systems
 - ICT 2 – 2014: Smart System Integration
 - ICT 3 – 2014: Advanced Thin, Organic and Large Area Electronics (TOLAE) technologies
- **Advanced Computing**
 - ICT 4 – 2015: Customised and low power computing
- **Future Internet**
 - ICT 5 – 2014: Smart Networks and novel Internet Architectures
 - ICT 6 – 2014: Smart optical and wireless network technologies
 - ICT 7 – 2014: Advanced Cloud Infrastructures and Services
 - ICT 8 – 2015: Boosting public sector productivity and innovation through cloud computing services
 - ICT 9 – 2014: Tools and Methods for Software Development
 - ICT 10 – 2015: Collective Awareness Platforms for Sustainability and Social Innovation
 - ICT 11 – 2014: FIRE+ (Future Internet Research & Experimentation)
 - ICT 12 – 2015: More experimentation for the Future Internet
 - ICT 13 – 2014: Web Entrepreneurship
 - ICT 14 – 2014: Advanced 5G Network Infrastructure for the Future Internet

ICT in 2nd Pillar-LEIT-ICT2

- **Content technologies and information management**
 - ICT 15 – 2014: Big data Innovation and take-up
 - ICT 16 – 2015: Big data - research
 - ICT 17 – 2014: Cracking the language barrier
 - ICT 18 – 2014: Support the growth of ICT innovative Creative Industries SMEs
 - ICT 19 – 2015: Technologies for creative industries, social media and convergence
 - ICT 20 – 2015: Technologies for better human learning and teaching
 - ICT 21 – 2014: Advanced digital gaming/gamification technologies
 - ICT 22 – 2014: Multimodal and Natural computer interaction
- **Robotics**
 - ICT 23 – 2014: Robotics
 - ICT 24 – 2015: Robotics

ICT in 2nd Pillar-LEIT-ICT3

- **Micro- and nano-electronic technologies, Photonics**
 - ICT 25 – 2015: Generic micro- and nano-electronic technologies
 - ICT 26 – 2014: Photonics KET
 - ICT 27 – 2015: Photonics KET
 - ICT 28 – 2015: Cross-cutting ICT KETs
 - ICT 29 – 2014: Development of novel materials and systems for OLED lighting
- **ICT Cross-Cutting Activities**
 - ICT 30 – 2015: Internet of Things and Platforms for Connected Smart Objects
 - ICT 31 – 2014: Human-centric Digital Age
 - ICT 32 – 2014: Cybersecurity, Trustworthy ICT
 - ICT 33 – 2014: Trans-national co-operation among National Contact Points
- **Horizontal ICT Innovation actions**
 - ICT 34 – 2015: Support for access to finance
 - ICT 35 – 2014: Innovation and Entrepreneurship Support
 - ICT 36 – 2015 Pre-commercial procurement open to all areas of public interest requiring new ICT solutions
 - ICT 37 - 2014-15: Open Disruptive Innovation Scheme (implemented through the SME instrument)
- **Fast track to Innovation – pilot**
 - Fast track to Innovation – ICT topic

ICT in 2nd Pillar-LEIT-ICT4

- **International Cooperation actions**
 - ICT 38 – 2015: International partnership building and support to dialogues with high income countries
 - ICT 39 – 2015: International partnership building in low and middle income countries
- **EU-Brazil Research and Development Cooperation in Advanced Cyber Infrastructure**
 - EUB 1 – 2015: Cloud Computing, including security aspects
 - EUB 2 – 2015: High Performance Computing (HPC)
 - EUB 3 – 2015: Experimental Platforms
- **EU-Japan Research and Development Cooperation in Net Futures**
 - EUJ 1 – 2014: Technologies combining big data, internet of things in the cloud
 - EUJ 2 – 2014: Optical communications
 - EUJ 3 – 2014: Access networks for densely located users
 - EUJ 4 – 2014: Experimentation and development on federated Japan – EU testbeds

- **ICT in 'Leadership in Enabling and Industrial Technologies'**
- **Advanced Computing**
 - ICT 4 – 2015: Customised and low power computing
- **Future Internet**
 - ICT 8 – 2015: Boosting public sector productivity and innovation through cloud computing services
 - ICT 10 – 2015: Collective Awareness Platforms for Sustainability and Social Innovation
 - ICT 12 – 2015: More experimentation for the Future Internet
- **Content technologies and information management**
 - ICT 16 – 2015: Big data - research
 - ICT 19 – 2015: Technologies for creative industries, social media and convergence
 - ICT 20 – 2015: Technologies for better human learning and teaching

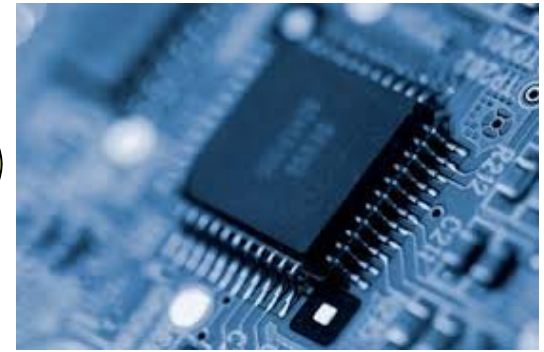
- **ICT in 'Leadership in Enabling and Industrial Technologies'**
- **Robotics**
 - ICT 24 – 2015: Robotics
- **Micro- and nano-electronic technologies, Photonics**
 - ICT 25 – 2015: Generic micro- and nano-electronic technologies
 - ICT 27 – 2015: Photonics KET
 - ICT 28 – 2015: Cross-cutting ICT KETs
- **ICT Cross-Cutting Activities**
 - ICT 30 – 2015: Internet of Things and Platforms for Connected Smart Objects
- **Horizontal ICT Innovation actions**
 - ICT 34 – 2015: Support for access to finance
 - ICT 36 – 2015: Pre-commercial procurement open to all areas of public interest requiring new ICT solutions
 - ICT 37 - 2014-15: Open Disruptive Innovation Scheme (implemented through the SME instrument)

ICT in 2nd Pillar- LEIT-(ICT-NMP)-FoF PPP

- **FoF 8 – 2015: ICT-enabled modelling, simulation, analytics and forecasting technologies**
- **FoF 9 – 2015: ICT Innovation for Manufacturing SMEs (I4MS)**
- FoF 10 – 2015: Manufacturing of custom made parts for personalised products
- FoF 11 – 2015: Flexible production systems based on integrated tools for rapid reconfiguration of machinery and robots
- FoF 12 – 2015: Industrial technologies for advanced joining and assembly processes of multi-materials
- FoF 13 – 2015: Re-use and re-manufacturing technologies and equipment for sustainable product life cycle management
- FoF 14 – 2015: Integrated design and management of production machinery and processes

Industrial Leadership - ICT

7,3 b€



- **A new generation of components and systems:**
 - engineering of advanced embedded and resource efficient components and systems
- **Next generation computing:**
 - advanced and secure computing systems and technologies, including cloud computing
- **Future Internet:**
 - software, hardware, infrastructures, technologies and services
- **Content technologies and information management:**
 - ICT for digital content, cultural and creative industries
- **Advanced interfaces and robots:**
 - robotics and smart spaces
- **Micro- and nanoelectronics and photonics:**
 - key enabling technologies

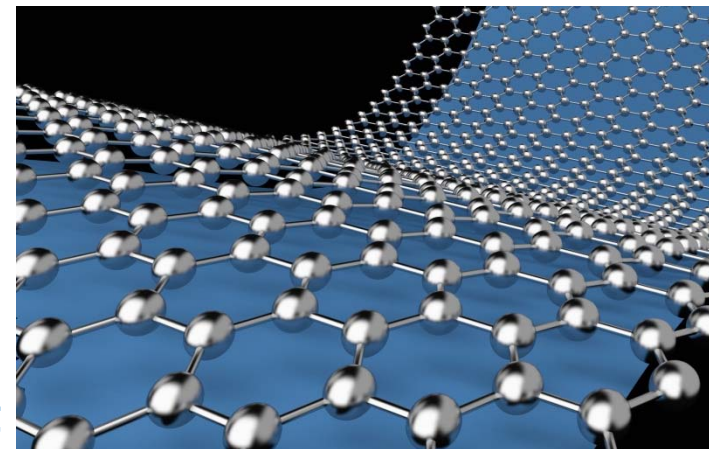


Components and systems

2014-2015

142 m€

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



Advanced Computing 2014-2015

57 m€

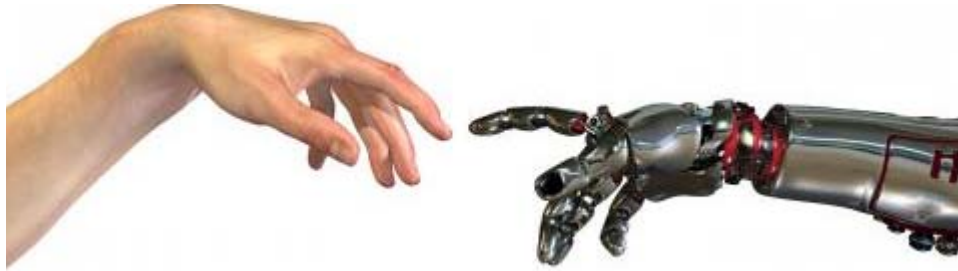
- Reinforce and expand Europe's industrial and technology strengths in **low-power ICT**
- Focus is on **integration of advanced components on all levels in computing systems**
- Complementary to and coordinated with work in the Future Internet area (on Cloud Computing) and in Excellence Science pillar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



Future Internet / 2014-2015

395,5 m€

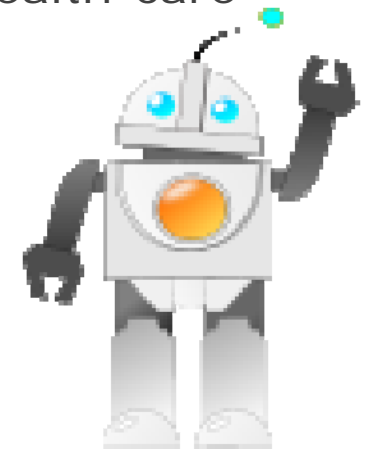
- Focused on **network and computing infrastructures** to accelerate innovation and address the most critical technical and use aspects of the Internet
- **Organised in ten topics:**
 - Smart networks and novel Internet **architectures** (24 M€)
 - Smart **optical** and **wireless network** technologies (30 M€)
 - Advanced **5G** Network Infrastructure for the Future Internet (125 M€)
→ **5G PPP**
 - Advanced **cloud** infrastructures and services (73 M€)
 - Boosting public sector productivity and innovation through cloud computing services (22 M€)
 - Tools and methods for **Software Development** (25 M€)
 - **FIRE+ (Future Internet Research & Experimentation)** (31,5M€)
 - More Experimentation for the Future Internet (18 M€)
 - **Collective Awareness Platforms** for sustainability and social innovation (37 M€)
 - **Web Entrepreneurship** (10 M€)



Robotics / 2014-2015

157 m€

- **Roadmap-based research driven by application needs**
→ **Robotics PPP**
- 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 cross-fertilisation
 - 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**
(of 74 M€ and 83M€ respectively)





Micro- and nano-electronics and photonics Key Enabling Technologies 2014-2015

215 m€

- Covers **generic technology developments on micro- and nano-electronics** focused on **advanced research** and lower Technology Readiness Levels (TRLs) (50 M€)
 - Complementary to the JTI Electronic Components and Systems
- 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.) (156 M€)
→ **Photonics PPP**
 - Includes calls for ERANETs as well as public procurement actions (roll-out and deployment of optical networking technologies)



Content technologies and information management / 2014-2015

260 m€

- **Addresses:**

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

- **Organised in eight topics:**

- Big data and Open Data innovation and take-up (50 M€)
- Big data research (39 M€)
- Cracking the language barrier (15 M€)
- Support to the growth of ICT innovative creative industries SMEs (15 M€)
- Technologies for creative industries, social media and convergence (41 M€)
- Technologies for better human learning and teaching (52 M€)
- Advanced digital gaming/gamification technologies (17 M€)
- Multimodal and natural computer interaction (31 M€)



Factory of the Future / 2014-2015

102 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**:
 - Process optimisation of manufacturing assets (34 M€)
 - ICT-enabled modelling, simulation, analytics and forecasting technologies (32 M€)
 - ICT Innovation for Manufacturing SMEs (36 M€)
 - Part of **FoF PPP**



ICT Cross-Cutting Activities / 2014-2015

- **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



- **Human-centric Digital Age (7 M€)**

- 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

- **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



- **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 horizontal innovation actions / 2014-2015

- **Support for access to finance (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



- **Innovation and Entrepreneurship Support (11 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
- European networks of procurers
- Pre-commercial procurement



- **Open Disruptive Innovation Scheme (90 M€)**

- 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

International cooperation actions / 2014-2015

27 m€

- **Coordinated calls**

- **EU-Brazil (7 M€)**

- Cloud computing, including security aspects
 - High performance computing
 - Experimental platforms

- **EU-Japan (6 M€)**

- 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



- **International partnership building and support to dialogues with high income countries (USA, Canada, East Asia and Oceania) (3 M€)**
 - **International partnership building in low and middle income countries (11 M€)**

HORIZON 2020

SME Instrument

[BG-12-2014-1: Supporting SMEs efforts for the development - deployment and market replication of innovative solutions for blue growth](#)

[BIOTEC-5a-2014-1: SME boosting biotechnology-based industrial processes driving competitiveness and sustainability](#)

[DRS-17-2014-1: Critical infrastructure protection topic 7: SME instrument topic: “Protection of Urban soft targets and urban critical infrastructures”](#)

[ICT-37-2014-1: Open Disruptive Innovation Scheme \(implemented through the SME instrument\)](#)

[IT-1-2014-1: Small business innovation research for Transport](#)

[NMP-25-2014-1: Accelerating the uptake of nanotechnologies, advanced materials or advanced manufacturing and processing technologies by SMEs](#)

[PHC-12-2014-1: Clinical research for the validation of biomarkers and/or diagnostic medical devices](#)

[SC5-20-2014-1: Boosting the potential of small businesses for eco-innovation and a sustainable supply of raw materials](#)

[SFS-08-2014-1: Resource-efficient eco-innovative food production and processing](#)

[SIE-01-2014-1: Stimulating the innovation potential of SMEs for a low carbon energy system](#)

[Space-SME-2014-1: SME Instrument](#)

SME Instrument

[BG-12-2015-1: Supporting SMEs efforts for the development - deployment and market replication of innovative solutions for blue growth](#)

[BIOTEC-5b-2015-1: SME boosting biotechnology-based industrial processes driving competitiveness and sustainability](#)

[DRS-17-2015-1: Critical infrastructure protection topic 7: SME instrument topic: Protection of Urban soft targets and critical infrastructures](#)

[ICT-37-2015-1: Open Disruptive Innovation Scheme \(implemented through the SME instrument\)](#)

[INSO-10-2015-1: SME business model innovation](#)

[INSO-9-2015-1: Innovative mobile e-government applications by SMEs](#)

[IT-1-2015-1: Small business innovation research for Transport](#)

[NMP-25-2015-1: Accelerating the uptake of nanotechnologies, advanced materials or advanced manufacturing and processing technologies by SMEs](#)

[PHC-12-2015-1: Clinical research for the validation of biomarkers and/or diagnostic medical devices](#)

[SC5-20-2015-1: Boosting the potential of small businesses for eco-innovation and a sustainable supply of raw materials](#)

[SFS-08-2015-1: Resource-efficient eco-innovative food production and processing](#)

[SIE-01-2015-1: Stimulating the innovation potential of SMEs for a low carbon energy system](#)

[Space-SME-2015-1: SME Instrument](#)

Implementation: SME instrument

Budget: 90M € for 2014-15

Funding: 70% of eligible cost

Scope: No restriction on ICT area

"Disruptive ICT innovation":

*Innovative ICT concept, product and service
applying new sets of rules, values and models
which ultimately disrupt existing markets*

Cut off dates:



H2020-SMEInst-2014-2015

[H2020-SMEINST-1-2014](#)

[H2020-SMEINST-1-2015](#)

[H2020-SMEINST-2-2015](#)

[H2020-SMEINST-2-2014](#)

ODI-ICT37 call cut-off dates:

Phase 1:

18/06/2014;

24/09/2014;

17/12/2014;

18/03/2015;

17/06/2015;

17/09/2015;

16/12/2015

Phase 2: 09/10/2014;

17/12/2014;

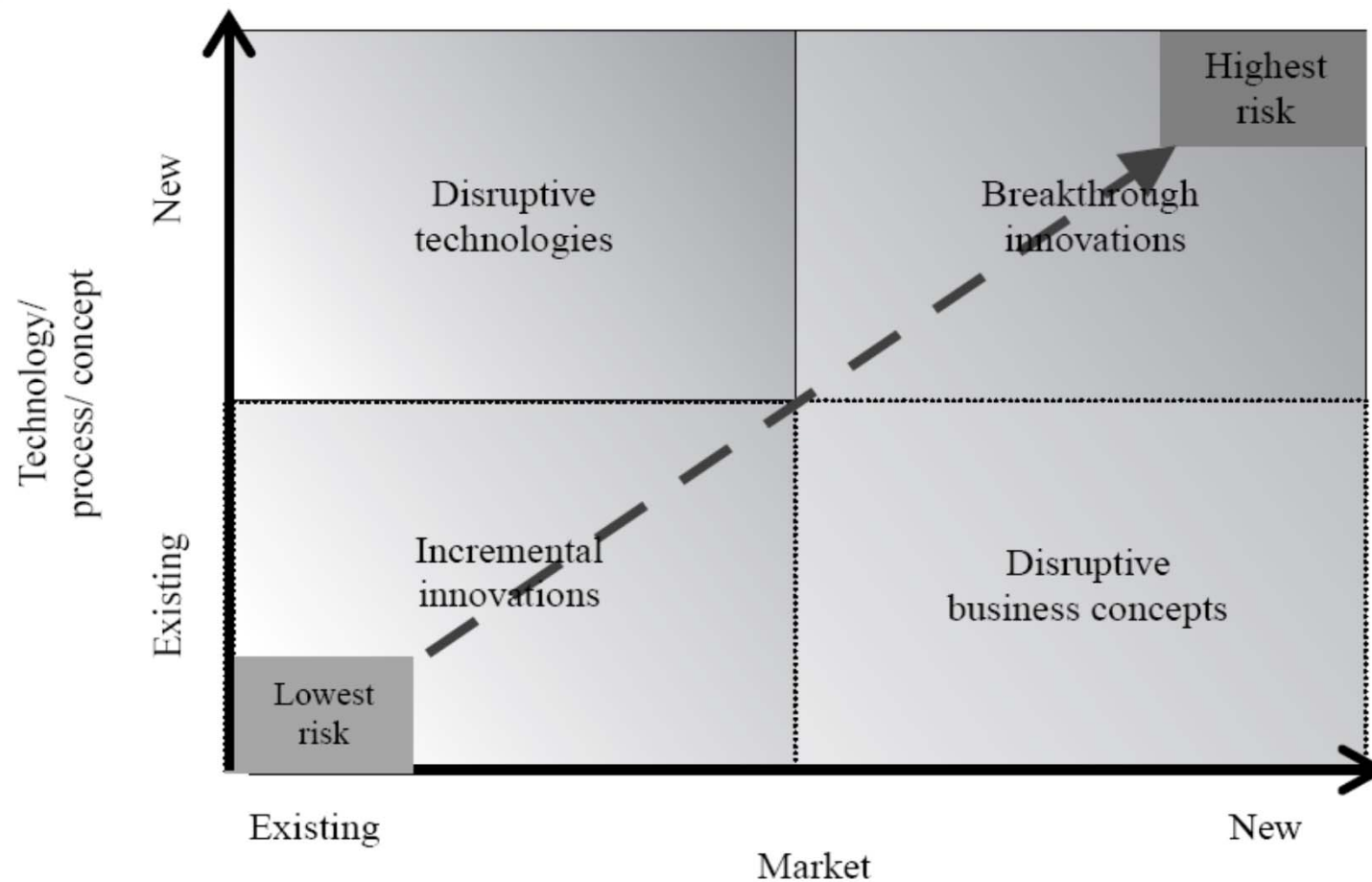
18/03/2015;

17/06/2015;

17/09/2015;

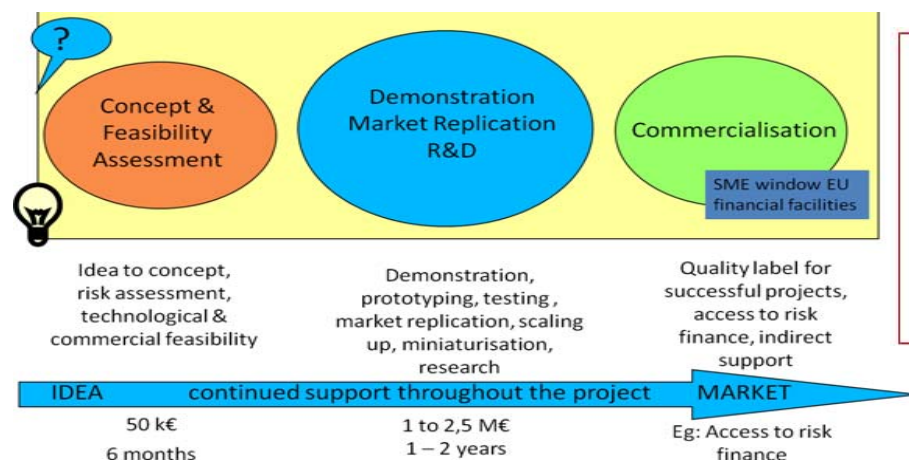
16/12/2015

ODI koncepció – a magas kockázat megosztása



ICT ODI költségvetés 2014-2015

	ICT téma	2014 Budget EUR million	2015 Budget EUR million
Open Disruptive innovation Scheme (ODI)	ICT37 [SME instrument]	45 of which: 4.5 for phase1, 39.6 for phase2. 0.9 for mentoring & coaching support and phase 3.	45 of which: 4.5 for phase1, 39.6 for phase2. 0.9 for mentoring & coaching support and phase 3.
Single stage for both phase 1 and phase 2. The budget available for phase 1 and phase 2 will be divided equally between each cut-off date.			



H2020-SMEInst-2014-2015

H2020-SMEINST-1-2014

H2020-SMEINST-1-2015

H2020-SMEINST-2-2015

H2020-SMEINST-2-2014

Call Budget

25,102 M€

26,557 M€

220,8976 M€

233,7016 M€

Open Disruptive Innovation – LEIT-ICT

<https://ec.europa.eu/digital-agenda/en/sme-instrument-0>



SME Instrument

Phase 1 aims to cover the assessment of technical feasibility and market potential of new ideas. The project will be supported by an investment of € 50,000 and the typical duration should be no longer than 6 months.

Phase 2 aims to cover R&I activities with a particular focus on demonstration activities (testing, prototype, scale-up studies, design, piloting innovative processes, products and services, validation, performance verification etc.) and market replication encouraging the involvement of end users or potential clients. Project funding should amount to no more than € 2,500,000 and the typical duration of third phase should range from 12 to 24 months (more funding and longer durations are possible if duly justified).

Phase 3 concerns support measures aimed at helping SMEs move towards commercialising their innovative products and services through measures like networking, training, coaching and mentoring, facilitating access to private capital or better interaction with key stakeholders. SMEs will not be funded directly under phase 3.

EU ICT-ODI információs nap

<http://ec.europa.eu/digital-agenda/en/news/info-day-open-disruptive-innovation-innovation-and-entrepreneurship-support-horizon-2020-work>

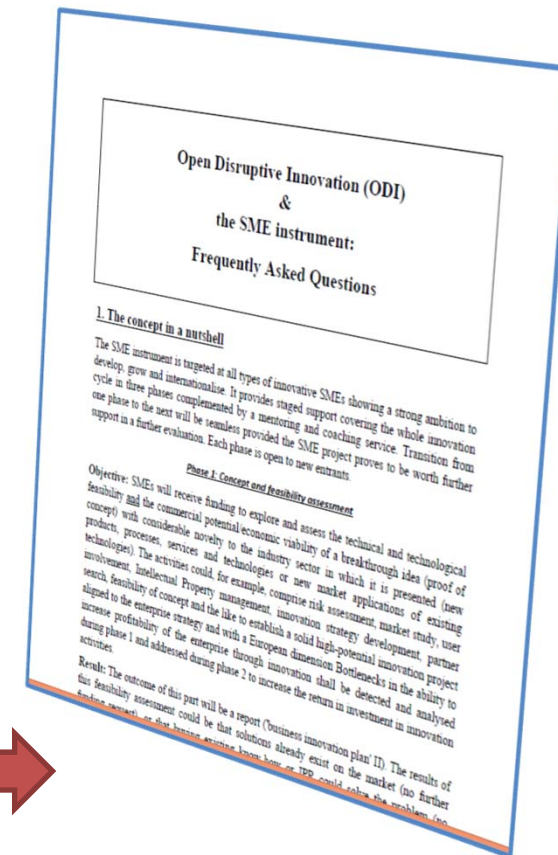
1 - Introduction

2 - Advice on writing a good proposal

3 - Open Disruptive Innovation and SME Instrument (Call ICT- 37-2014)

4 - Innovation and Entrepreneurship Support (Call ICT- 35 -2014)

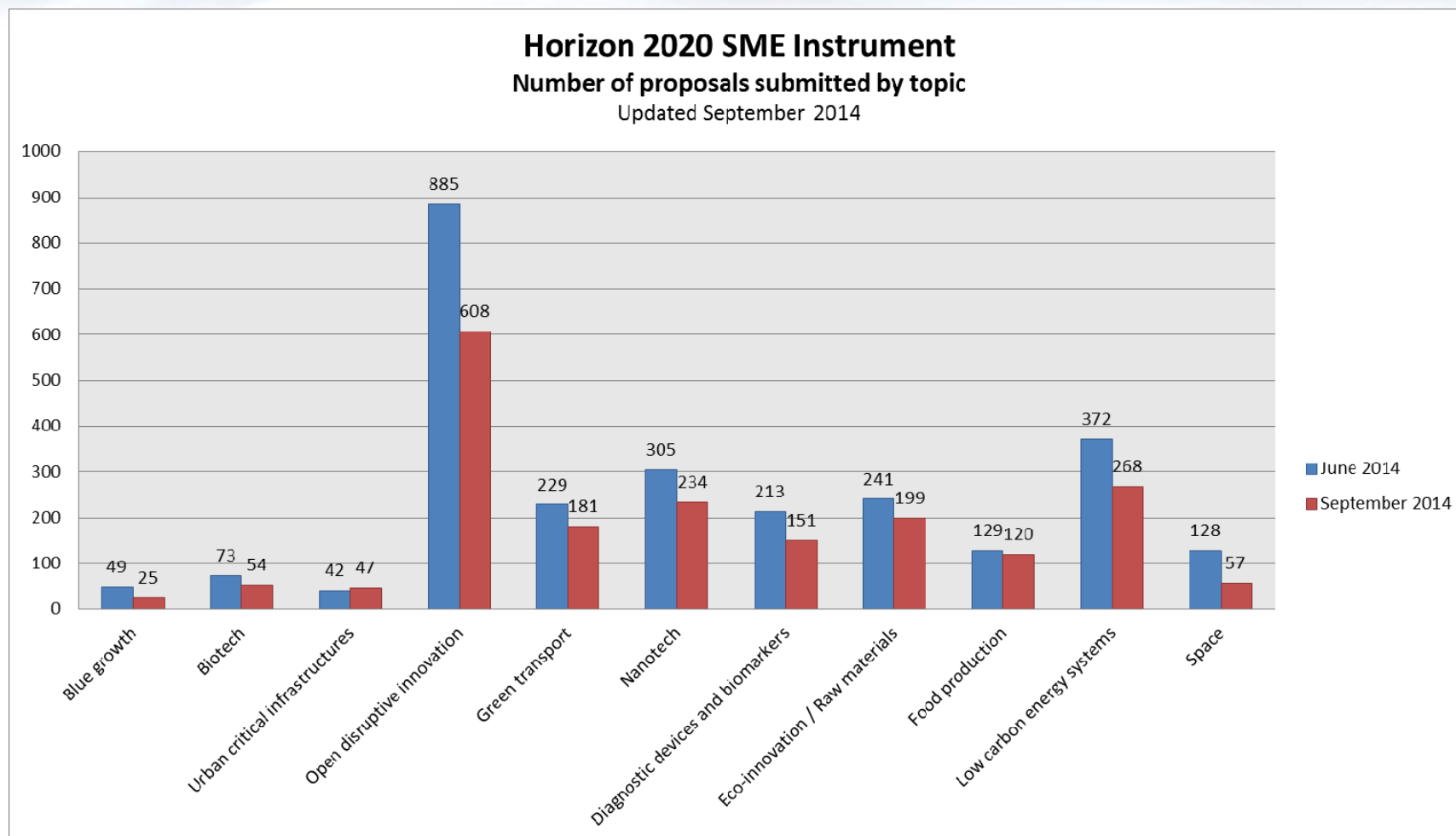
Q&A ODI/SME Instrument



Lessons learnt - Most of the non-selected proposals were:

1. Too much focused on the project and **not enough on the business opportunity**;
2. Not convincing when **describing the company** (you have to explain why your company will succeed and not your competitor);
3. Not providing enough information on **competing solutions**;
4. Having a **too low level of innovation**, planning to develop a product that already exists on the market;
5. Proposing just an idea **without any concept for its commercialisation**;
6. Just **trying their luck** (the SME Instrument is not a lottery!).

Open Disruptive Innovation – LEIT-ICT



Open Disruptive Innovation – LEIT-ICT

Country	Project acronym	Full title of the project
Austria	COMAWARE	COMmunication and Assessment With Adaptive Realtime Environments
Austria	TRACKANT	Mobile Smart Tracking Antenna System for Remotely Piloted Aircrafts
Denmark	DIGISTONE P1	Production and Market entry financing of Digital Concrete Screen for Outdoor Digital Signage application
Finland	MIGOSA	Modified Internal Gate image sensor for low light optimised Out-door Security surveillance Applications
France	EB2BSN	The first European Business-to-Business Social Network
France	EeHPC	Energy efficient High Performance Computing
France	PILOTS	Prototyping Internet Lot of Things Software
France	Toor-IG-ICT37-2014	Enabling mass access to the social phenomenon of e-sports tournaments by integrating In-Game Platform in world's leading video game
Ireland	OILMOD	Optical Injection Locked Modulator
Ireland	PICOMB	Photonic Integrated Comb Source: An Economic Feasibility Study
Ireland	SEDEUF	Sedicii Innovative Authentication
Israel	GALNIMBUS	Disruptive cloud-based irrigation controller to optimize water use efficiency in agriculture
Lithuania	Global PERES	Bringing a breakthrough e-nose solution on global markets for portable and reliable food safety and quality control
Poland	Pastguide	guide app to run and witness full 3d reenactments of the past events in the heritage place on your mobile device

Open Disruptive Innovation – LEIT-ICT

Country	Project acronym	Full title of the project
Slovenia	ThinkEHR Platform	Think!EHR Platform as vendor-neutral, open health data platform, designed for real-time, transactional health data storage enabling to go from idea to application in one hour.
Spain	3D-LEAP	3 Dimensional Light Sensor for Advanced Portable Devices
Spain	GEOAPPS	APPS for geotechnical field work
Spain	MD-PACS	A new paradigm in medical imaging systems for hospitals, clinics and professionals in spite of their size
Spain	QFast2	Fast Multitarget Pathogen Detection Platform Traceable within a Quality Assurance System
Spain	REVIVOS	Reviving Singers Through Voice Synthesis
Spain	SignSigma	Launching the next generation of mobile and multi-platform signature system based on biometric parameters
Spain	Smartick Games	Augmented math learning
Spain	TORUS PROJECT	High Performance Communications for Financial Services and Big Data
Spain	usenns	Neurotechnology to understand the emotions of customers in market research
Turkey	PRIME	Push Relevantly to Increase Mobile Engagement
UK	iBoard	Large scale interactive multi-touch displays
UK	iMoHEALTH	A pan-national collaborative analytics platform for the exploration of population health.
UK	LIRON-2020	Disruptive Technology for the Global Laundry Equipment Market

Inducement Prizes

What is an inducement prize?

- "Inducement prizes offer a reward to whoever can **first or best** deliver breakthrough solution to a clearly defined challenge. They are used to spur investment in a given direction, by specifying a target prior to the performance of the work. It is therefore mainly used for research and innovation, in order to:
 - *identify new approaches or ideas and attract investment in specific areas*
 - *demonstrate the feasibility or potential of some technologies or promote their development and diffusion.*"
- **NOT a recognition prize!!** (used to recognise an outstanding work **after** it has been performed)

Inducement prize approaches

- • Reward of the entry that first meets the specific goal announced in the contest rules (“first-past-the-post” contest).
- • Reward of the **best entry** within a given period (“best-in-class” contest):
 - - the prize is awarded to the participant that comes closest to achieving the announced objective within the stated time period.
 - - clear closing date
 - - evaluation procedure is likely to be more complex
 - - used as milestones to measure progress towards a long-term, complex objective.

Inducement Prizes Network Technologies ("best-in-class" contest)

1. Collaborative sharing of spectrum

- Novel methods for decentralised spectrum management
 - aims at demonstrating the potential of alternative – i.e. non-conventional - and highly decentralised spectrum management approaches, paving the way for significant spectrum efficiency gains.

2. Breaking the optical transmission barriers

- Maximise the fibre transmission capacity per channel
 - aims at incentivising radical breakthrough solutions, as opposed to incremental progress, in the area of point-to-point optical fibre transmission, overcoming the current limitations of long distance fibre transmission systems.

The feasibility of the proposed solutions will have to be demonstrated through clear experimental results.

Expected Impact

- Break known limits in usage of optical (core network) and wireless network technologies
- Reinforce scientific excellence and recognition of leading European research groups
- Achieve participation of institutions that are not usually/frequently involved in classical cooperation actions, and general public awareness on the importance of research in telecommunications and the EU support to it
- Contribute to addressing the lack of ICT engineer skills in Europe by advertising scientific careers to youngsters
- Contribute to the provision of first-class network infrastructure to deliver innovative services and applications to European citizens

Who can apply?

- Contest will be open to legal entities established in an EU Member State or in countries associated with Horizon2020
- Entry is to be submitted by an **SME or non-profit organisation** acting alone or together with other entities which are part of the same team.
- Exclusion criteria foreseen in the provisions of articles 106(1), 107, 108 and 109 of the Financial Regulation (regulation 966/2012) will apply.

Rules of Contest

- Annex F to the Work Programme (Model Rules of Contest-RoC) **to be published by the end of 2014**
- Common Rules of Contest for Prizes will be specified: processing of personal data, sole liability of contestants, applicable law and competent jurisdiction, conditions for participation, applicability of penalties, and exclusion criteria.
- Additional information in RoC:
 - (i) Arrangements and final date for the registration and submission of entries
 - (ii) Arrangements and rules for judging panel expert assignment
 - (iii) Arrangements for the payment of prize(s) to the winner(s) after their award
 - (iv) specific award criteria together with their thresholds and weighting, conditions for cancelling the contest, indication whether hearings will be organised as part of evaluation panel considerations.

Inducement Prize

Collaborative sharing of spectrum

Background:

- Wireless services using spectrum resources have grown from 90 Bn€ in 1995 to an expected 1550 Bn€ worldwide in 2015, yearly growth rates between 50 and 100%
- Demand for wireless services will increase by least 1000 times over the decade
- Unlikely that linear improvements of today's access technologies alone will respond to such growth
- **Objectives:**
 - provide innovative yet implementable solutions enabling a significant efficiency improvement in the usage of scarce spectrum resources
 - provide a solution which presents technical feasibility of disruptive spectrum access and sharing methods beyond the traditional cellular evolution and centralised spectrum sharing approaches

Inducement Prize

Collaborative sharing of spectrum

Award criteria:

- Substantial part based on experimental results (studies and early prototypes will not be considered).
- Solution has to be based on non-traditional spectrum management methodologies and demonstrate feasibility of pure collaborative decentralised methods based on terminal level information or collaboration
- demonstration of significant improvement over the state of the art technologies in terms of shared spectrum usage metrics:
 - full system level evaluation, with maximisation of number of users sharing a portion of spectrum
 - realistic use cases scenarios in terms of statistical service mix and of user distribution and motion over the area where spectrum sharing is considered.
 - increased efficiency (at least 20%) under similar use case scenarios
- Economic viability and acceptability from a policy perspective
- Capability and plan to demonstrate the solution in larger-scale or as a part of testbed.

Inducement Prize

Collaborative sharing of spectrum

- **Indicative timetable:**

• Stages	Indicative period
• Publication of the contest	Q4 2014
• Deadline for registration	Q3 2015
• Deadline for submissions	Q4 2015
• Award decision	Q2 2016

- **Amount of prize:**

- **Only one winning entry, € 500 000** to be awarded.
- If no entry is, in the opinion of the judging panel, fulfilling the minimum criteria and of sufficient quality, no prize will be awarded.

Inducement Prize

Breaking the optical transmission barriers

- **Background:**

- • Data traffic grow at exponential rate globally (values of 30-40% per year) → vast volumes of data being transported across over metro and core networks.
- • Radical breakthroughs are required for point-to-point optical fibre transmission to meet the bandwidth demand explosion.

- **Objectives:**

- • to reward a major optical transmission breakthrough solution, increasing the capacity, reach, spectrum range and/or spectral efficiency of point-to-point optical fibre transmission (sub)systems
- • take into account aspects of energy efficiency and economic viability

Inducement Prize

Breaking the optical transmission barriers

Award criteria:

- Substantial part based on experimental results (including a scaled-down system or sub-system experimental demonstrator)
- Demonstration of significant improvement over the state of the art in terms of:
 - Capacity per single fibre
 - Spectrum range and/or spectral efficiency
 - Reach (without optoelectronic re-generators)(above targets to be specified in the RoC)
- Economic viability, energy efficiency, ease of installation and deployment.

Inducement Prize

Breaking the optical transmission barriers

- **Indicative timetable:**

Stages	Indicative period
Publication of the contest	Q4 2014
Deadline for registration	Q4 2015
Deadline for submissions	Q1 2016
Award decision	Q3 2016

- **Amount of prize:**

Only one winning entry, € 500 000 to be awarded.

If no entry is, in the opinion of the judging panel, fulfilling the minimum criteria and of sufficient quality, no prize will be awarded.

Inducement Prize web page, Q&A

- More Inducement Prizes info and Q&A will be uploaded on:
- <http://ec.europa.eu/digital-agenda/en/inducement-prizes>

ICT in Excellent science



Excellent Science - ICT

2,5 b€*



- **Future and Emerging Technologies (FET)**

- **FET Open**: fostering novel ideas
- **FET Proactive**: nurturing emerging themes and communities
- **FET Flagships**: pursuing grand interdisciplinary science and technology challenges
 - **Graphene**
 - **Human Brain Project**

** Including budget for other areas than ICT covered in FET*

- **Research infrastructures**

- Developing the European research infrastructure for 2020 and beyond
- **Development, deployment and operation of ICT-based e-infrastructures**
 - **ICT infrastructure resources and services for Research**
 - **Access to and management of scientific data**
 - **High Performance Computing**

862 m€

Future and Emerging Technologies

2014-2015

472 m€

- **FET Open** (160 m€)
 - All technologies, no topical scope
 - Light and fast scheme
 - Several cut-off dates per year, one-step submission of ~15 pages
 - One stage evaluation
- **FET Proactive** (132,4 m€)
 - **Global Systems Science (GSS)** (10 M€)
 - Improve the way in which scientific knowledge can stimulate, guide, and help evaluate policy and societal responses to global challenges
 - **Knowing, doing, being: cognition beyond problem solving** (15 M€)
 - New approaches to cognitive systems
 - **Quantum simulation** (10 M€)
 - Quantum technologies to ultimately address real world problems
 - **Towards exascale high performance computing** (97,4 M€)
 - **HPC PPP**: To be coordinated with complementary work in LEIT and RI
- **FET Flagships** (179,6 m€)
 - Graphene
 - Human Brain Project



eInfrastructures / 2014-2015

177 m€

- **ICT infrastructure resources and services for Research (48 M€)**

- Provision of core services across e-infrastructures
- Research and Education Networking – GEANT
- eInfrastructures for virtual research environments

- **Access to and management of scientific data (72 M€)**

- Managing, preserving and computing with big research data
- Towards global data e-infrastructures – Research Data Alliance
- eInfrastructure for Open Access

- **High Performance Computing (57 M€)**

- Pan-European High Performance Computing infrastructure and services
- Centres of Excellence for computing applications
- Network of HPC competence centres for SMEs



HORIZON 2020



ICT in 1st Pillar: FET

Future and Emerging Technologies (FET)

- **FET Open: fostering novel ideas** 30/09/2014, 31/03/2015, 29/09/2015
- **FET Proactive: nurturing emerging themes and communities**
 - **FETHPC 1 - 2014: HPC Core Technologies, Programming Environments and Algorithms for Extreme Parallelism and Extreme Data Applications**
 - **FETHPC 2 - 2014: HPC Ecosystem Development** 25/11/2014
- **FET Flagships: pursuing grand interdisciplinary science and technology challenges**

Two flagship initiatives will be further developed and supported:

 - the Graphene flagship,
 - the Human Brain Project (HBP).

FET – 3 complementary funding schemes

Open, light and agile ← → Roadmap based research

FET-Open

Early Ideas
Uncorrelated
Research projects

**Exploring
novel ideas**

FET Proactive

*Exploration and
Incubation*
Topical clusters
of research projects

**Developing
topics & communities**

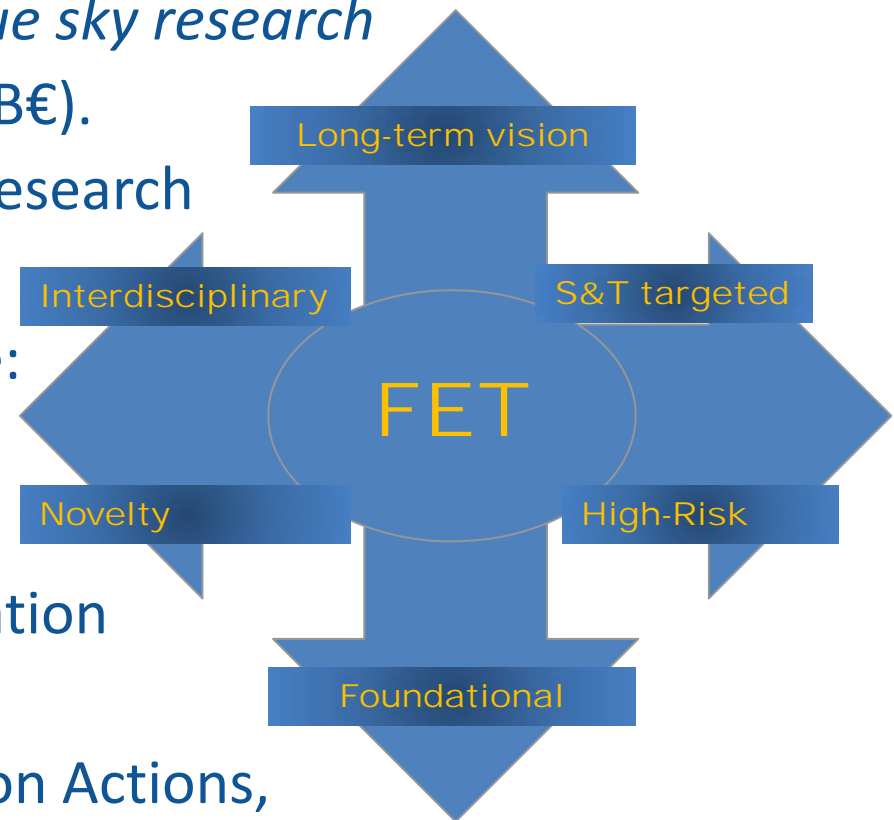
FET Flagships

*Large-Scale
Partnering Initiatives*
Common research
agendas

**Addressing
grand challenges**

FET Open: fostering novel ideas

- Collaborative research
- 'Open is open': all technologies, no topical scope.
 - *Bottom-up, but targeted - not blue sky research*
- 40% of the FET budget in H2020 (>1B€).
- FET gatekeepers define the kind of research that FET is looking for.
- An end-to-end light and fast scheme:
 - Deadline free, open 24/7
 - 15 page proposals
 - 1 step submission, 1 stage evaluation
 - 3 evaluation criteria
- Instruments: Research and Innovation Actions, Coordination and Support actions





FET Open in FP7 a portfolio snapshot



ONLINE CONSULTATION on FUTURE FET PROACTIVE TOPICS

Have your say on Future and Emerging Technologies!

Do you have a great idea for a new technology that is not possible yet? Do you think it can become realistic by putting Europe's best minds on the task?

<https://ec.europa.eu/digital-agenda/en/content/consultation-new-fet-proactive-topics>



FET Proactive Initiatives in FP7

Foundations of Computing & Communication

- Nano-Scale ICT Devices and Systems
- Science of Complex Systems for Socially Intelligent ICT
- Unconventional computation
- Dynamics of Multi-Level Complex Systems
- Concurrent Tera-Device Computing
- Quantum Information Foundations & Technologies
- Quantum ICT
- Molecular Scale Devices and Systems
- Towards Zero-Power ICT
- Minimising Energy Consumption of Computing to the Limit
- Atomic and molecular scale devices and systems

Intelligence and interaction

- Embodied Intelligence
- Pervasive adaptation
- Science of complex systems for Socially Intelligent ICT
- ICT Forever Yours
- Human-Computer Confluence
- Self-Aware Autonomous Systems
- Fundamentals of Collective Adaptive Systems
- Fundamentals of Creativity

Convergence and symbiosis

- Bio-ICT Convergence
- Bio-Chemistry based ICT
- Brain-Inspired ICT
- Neuro-Bio-Inspired Systems
- Evolving Living Technologies
- Symbiotic human-machine interaction

High Performance Computing PPP

- The EC Communication "**High-Performance Computing: Europe's place in a global race**", adopted 15 Feb 2012, describes an ambitious strategy for HPC, combining three elements:

FET

a) Computer Science: towards exa-scale High Performance Computing;

RI

b) providing access to the best supercomputing facilities and services for both industry and academia;

FET+
RI

c) achieving excellence in HPC applications;

Complemented with training, education and skills development in HPC

FET Flagships

FET Flagships are ambitious, large-scale, long-term, science-driven, goal-oriented, roadmap-based research initiatives, which are expected to:

- provide a strong S&T basis for future technological innovation and substantial benefits for society
- help overcome fragmentation and increase the impact of European research and innovation efforts

and which will require:

- cooperation among a range of scientific communities/disciplines, with industries and with the involvement of representatives from the civil society
- a long-term commitment of all key stakeholders sharing a common scientific vision and under a strong leadership
- a joint effort of EU and national programmes to provide a large financial support (~ 100 M€/year) over a long period (~10 years)

FET Flagship: Graphene

www.graphene-flagship.eu

GRAPHENE FLAGSHIP



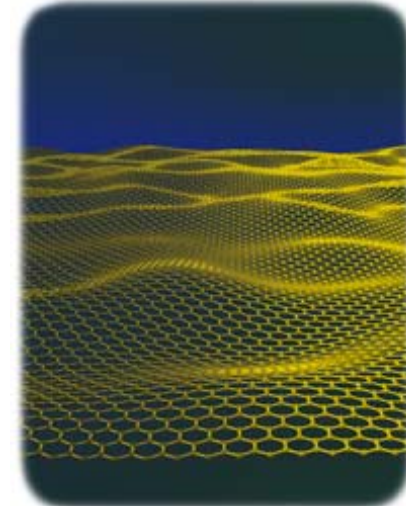
Graphene, is a 2D material , a single layer of carbon atoms, stronger than diamond, yet lightweight and flexible and an exceptional electricity conductor.

*The Graphene Flagship will bring graphene, and related 2D materials, **from academic labs to industry, manufacturing and society.***

Examples of products:

- ✓ **electronic paper**
- ✓ **bendable smartphones**
- ✓ **enhanced solar cells and batteries**
- ✓ **lighter and more energy efficient airplanes**

On the longer term, graphene is expected to give rise to new computers and revolutionary medical applications such as artificial retinas.



*Artistic impression of a corrugated graphene sheet
Credit: Jannik Meyer*



Nokia Morph concept - Credit: Nokia Research Center



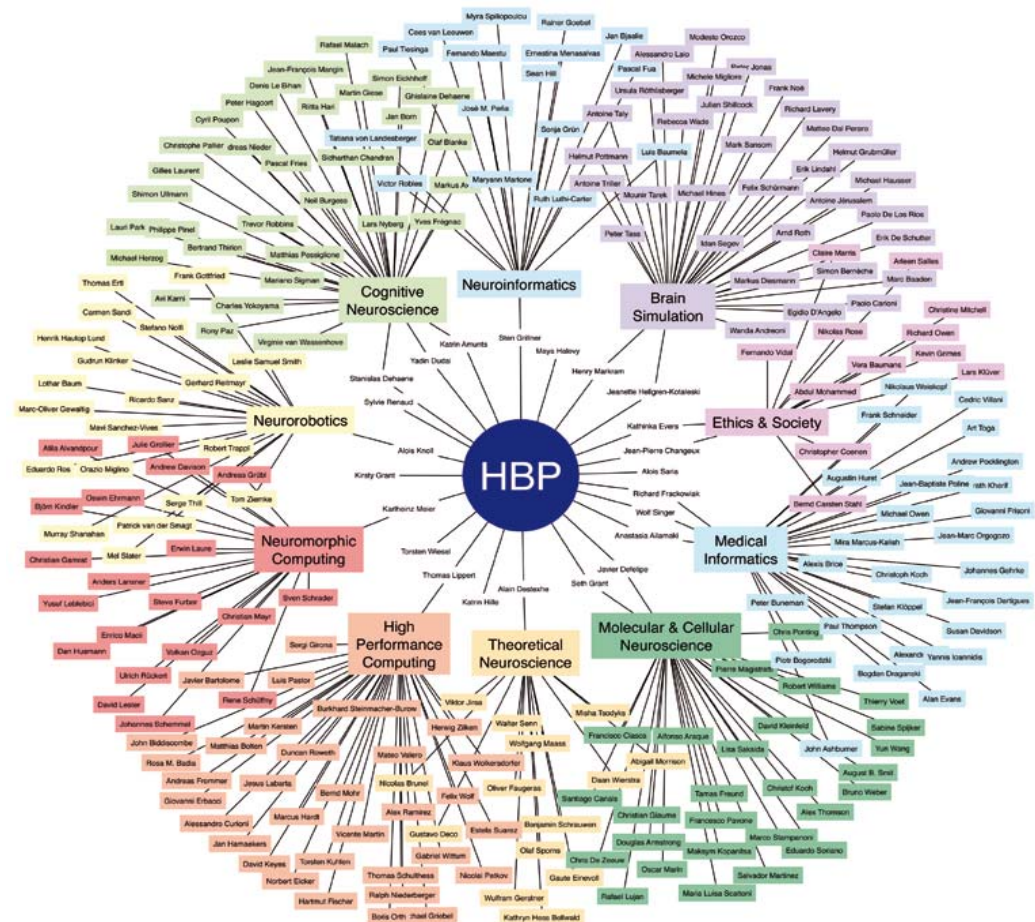
FET Flagship: Human Brain



HBP will create the world's largest experimental facility for developing the most detailed models of the brain (from genes to mind), for studying how the human brain works and ultimately for simulating and developing personalised treatment of brain diseases.

*This research lays the scientific and **technical foundation for medical progress**: identifying new drug targets and treatment, in response to the urgent need to combat brain diseases and their associated costs to society.*

*HBP will also produce brain-inspired '**neuromorphic**' computing systems that could drastically reduce power-consumption for super-computers and enhance robots.*



ICT in 1st Pillar: eInfrastructure

Research Infrastructure :**Development, deployment and operation of ICT-based e-infrastructures**

- ICT e-infrastructures cover the following main priorities:
- development and integration of ICT infrastructure resources and services for research,
- access to and management of research data,
- implementation of the e-infrastructure part of the EU strategy on high-performance computing.

e-infrastructure is covered in a dedicated call ('**e-Infrastructures**' (EINFRA)) with the nine following topics:

- **EINFRA 1-2014 – Managing, preserving and computing with big research data**
- **EINFRA 2-2014 – e-Infrastructure for Open Access**
- **EINFRA 3-2014 – Towards global data e-infrastructures – Research Data Alliance**
- **EINFRA 4-2014 – Pan-European High Performance Computing infrastructure and services**
- **EINFRA 5-2015 – Centres of Excellence for computing applications**
- **EINFRA 6-2014 – Network of HPC Competence Centres for SMEs**
- **EINFRA 7-2014 – Provision of core services across e-infrastructures**
- **EINFRA 8-2015 - Research and Education Networking – GÉANT**
- **EINFRA 9-2015 – e-Infrastructures for virtual research environments (VRE)**

In addition to eInfrastructures, ICT is also covered in the following topic:

- **INFRAIA 1-2014/2015: Integrating and opening existing national and regional research infrastructures of pan-European interest**

ICT in Societal challenges



ICT in Societal challenges



ICT in 3rd Pillar-Health1

SC1 - Health, demographic change and wellbeing

Advancing active and healthy ageing, with three out of the four proposed topics:

PHC 19 – 2014: Advancing active and healthy ageing with ICT: **Service robotics** within assisted living environments

PHC 20 – 2014: Advancing active and healthy ageing with ICT: ICT solutions for **independent living** with cognitive impairment

PHC 21 – 2015: Advancing active and healthy ageing with ICT: **Early risk detection** and intervention

Integrated, sustainable, citizen-centred care, with six out of eight topics:

PHC 25 – 2015: Advanced ICT systems and services for **Integrated Care**

PHC 26 – 2014: Self-management of health and disease: **citizen engagement and mHealth**

PHC 27 – 2015: **Self-management** of health and disease and patient empowerment supported by ICT

PHC 28 – 2015: Self-management of health and disease and decision support systems based on **predictive computer modelling** used by the patient him or herself

PHC 29 – 2015: **Public procurement of innovative eHealth** services (PPI)

PHC 30 – 2015: eHealth Sectoral Inducement **Prize**

HORIZON 2020

ICT in 3rd Pillar-Health2

- **Advancing active and healthy ageing topics:**
 - PHC 19 – 2014: Advancing active and healthy ageing with ICT: Service robotics within assisted living environments
 - PHC 20 – 2014: Advancing active and healthy ageing with ICT: ICT solutions for independent living with cognitive impairment
 - **PHC 21 – 2015: Advancing active and healthy ageing with ICT: Early risk detection and intervention**

ICT in 3rd Pillar-Health2

- **Integrated, sustainable, citizen-centred care topics:**
 - PHC 25 – 2015: Advanced ICT systems and services for Integrated Care
 - PHC 26 – 2014: Self-management of health and disease: citizen engagement and mHealth
 - PHC 27 – 2015: Self-management of health and disease and patient empowerment supported by ICT
 - PHC 28 – 2015: Self-management of health and disease and decision support systems based on predictive computer modelling used by the patient him or herself
 - PHC 29 – 2015: Public procurement of innovative eHealth services

ICT in 3rd Pillar-Health2

- **Improving health information, data exploitation and providing an evidence base for health policies and regulation, with two out of six topics:**
 - **PHC 31 – 2015: Digital representation of health data to improve disease diagnosis and treatment**
 - PHC 35 – 2014: eHealth interoperability
- In addition to the above, coordination and support actions are foreseen with the two following topics:
 - HCO 1 – 2014: Innovation Partnership: Support for the European Innovation Partnership on Active and Healthy Ageing – EIP-AHA
 - HCO 2 – 2014: Joint Programming: Coordination Action for the Joint Programming Initiative (JPI) "More Years, Better Lives - the Challenges and Opportunities of Demographic Change"

ICT in 3rd Pillar-Health1

SC1 - Health, demographic change and wellbeing

- **Advancing active and healthy ageing:**
 - PHC 21 – 2015: Advancing active and healthy ageing with ICT: **Early risk detection** and intervention
- **Integrated, sustainable, citizen-centred care**, with six out of eight topics:
 - PHC 25 – 2015: Advanced ICT systems and services for **Integrated Care**
 - PHC 27 – 2015: **Self-management** of health and disease and patient empowerment supported by ICT
 - PHC 28 – 2015: Self-management of health and disease and decision support systems based on **predictive computer modelling** used by the patient him or herself
 - PHC 29 – 2015: **Public procurement of innovative eHealth** services (PPI)
 - PHC 30 – 2015: eHealth Sectoral Inducement **Prize**

ICT in 3rd Pillar - Energy

SC3 - Secure, clean and efficient energy

ICT are present in the three calls, with a particularly prominent role in the third one (i.e. SCC).

- 'Energy Efficiency' (EE),
- 'Competitive Low-Carbon Energy' (LCE),
- 'Smart Cities and Communities' (SCC).

In the '**Energy Efficiency**' call, ICT appear in the activities focused on **buildings and consumers**: in the following topics:

- EE 8 – 2014: Public procurement of innovative sustainable energy solutions, where the scope includes the support to public authorities in procuring fast-evolving information and communication technologies such as Green Data Centres
- EE 11 2014, 2015- New ICT-based solutions for **energy efficiency**.

In the '**Competitive Low-Carbon Energy**' call, ICT appears in one topic of the activities grouped under the title '**Modernising the European electricity grid**':

- LCE 7 – 2015: Distribution grid and retail market, where the scope takes into account the contribution of ICT infrastructure to **smart grids and smart metering**.

The call on '**Smart Cities and Communities**' explicitly addresses solutions combining technologies from the energy, transport and ICT domains to address the issue of sustainable development in urban areas.

- SCC 1 – 2014/2015: Smart Cities and Communities solutions **integrating energy, transport, ICT sectors through lighthouse** (large scale demonstration - first of the kind) projects, which represents by far the main part of this call
- SCC 2 – 2014: Developing a framework for common, transparent data collection and performance measurement to allow comparability and replication between solutions and best-practice identification
- SCC 3 – 2015: Development of **system standards** for smart cities and communities solutions
- SCC 4 – 2014: Establishing networks of public procurers in local administrations on smart city solutions
- SCC 5 – 2014: Establishing a challenge prize competition: Smart solutions for creating better cities and communities

ICT in 3rd Pillar - Energy

SC3 - Secure, clean and efficient energy

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- 'Energy Efficiency' (EE),
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ICT in 3rd Pillar - Energy

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In the '**Competitive Low-Carbon Energy**' call, ICT appears in one topic of the activities grouped under the title '**Modernising the European electricity grid**':

- LCE 7 – 2015: Distribution grid and retail market, where the scope takes into account the contribution of ICT infrastructure to **smart grids and smart metering**.

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- SCC 3 – 2015: Development of **system standards** for smart cities and communities solutions

ICT in 3rd Pillar – Transport/Mobility

SC4 - Smart, green and integrated transport. Three calls are planned in 2014-15 for this challenge:

- 'Mobility for Growth' (MG), which actually constitutes the main call,
- 'Green vehicles' (GV),
- 'Small Business and Fast Track Innovation for Transport' (IT).

In the '**Mobility for Growth**' call, ICTs are expected to contribute to four of the nine targeted areas:

- **Road transport**, with two dedicated topics:
 - MG.3.5-2014 Cooperative ITS for safe, congestion-free and sustainable mobility
 - MG.3.6-2015 Safe and connected **automation** in road transport
- **Urban mobility**, where ICT can play a role in the following topic:
 - MG.5.3-2014 Tackling urban road congestion
- **Logistics**, with the following topic clearly requiring contribution from ICT:
 - MG.6.3-2015 Common communication and navigation **platforms for pan-European logistics applications**
- **Intelligent Transport Systems**, with the two following topics also clearly requiring contribution from ICT:
 - MG.7.1-2014 Connectivity and information sharing for intelligent mobility
 - MG.7.2-2014 Towards seamless mobility addressing fragmentation in ITS deployment in Europe

In the '**Green Vehicles**' call, ICTs are concerned by the following topic:

- GV.8-2015 **Electric vehicles'** enhanced performance and integration into the transport system and the grid,

SC4 - Smart, green and integrated transport. Three calls are planned in 2014-15 for this challenge:

- 'Mobility for Growth' (MG), which actually constitutes the main call,
- 'Green vehicles' (GV),
- 'Small Business and Fast Track Innovation for Transport' (IT).

In the '**Mobility for Growth**' call, ICTs are expected to contribute to four of the nine targeted areas:

- **Road** transport, with two dedicated topics:
 - MG.3.6-2015 Safe and connected **automation** in road transport
- **Logistics**, with the following topic clearly requiring contribution from ICT:
 - MG.6.3-2015 Common communication and navigation **platforms** for **pan-European logistics** applications

In the '**Green Vehicles**' call, ICTs are concerned by the following topic:

- GV.8-2015 **Electric vehicles'** enhanced performance and integration into the transport system and the grid,

ICT in 3rd Pillar – Environment

SC5 - Climate action, environment, resource efficiency and raw materials, ICT is expected to contribute to the activities foreseen in two calls:

- 'Waste: A Resource to Recycle, Reuse and Recover Raw Materials' (WASTE),
- 'Water Innovation: Boosting its value for Europe' (WATER),

The contribution in **waste management** is in four topics, for which ICT solutions are part of the scope:

- WASTE-1-2014: Moving towards a circular economy through industrial symbiosis
- WASTE-2-2014: A systems approach for the reduction, recycling and reuse of food waste
- WASTE-3-2014: Recycling of raw materials from products and buildings
- **WASTE-4-2014/2015: Towards near-zero waste at European and global level**

In the area of **water management**, the contribution of ICT is expected in the following topic:

- **WATER-1-2014/2015: Bridging the gap: from innovative water solutions to market replication**

SC5 - Climate action, environment, resource efficiency and raw materials,

ICT is expected to contribute to the activities foreseen in two calls:

- 'Waste: A Resource to Recycle, Reuse and Recover Raw Materials' (WASTE),
- 'Water Innovation: Boosting its value for Europe' (WATER),

The contribution in **waste management** is in four topics, for which ICT solutions are part of the scope:

- WASTE-4-2014/2015: Towards **near-zero waste** at European and global level

In the area of **water management**, the contribution of ICT is expected in the following topic:

- WATER-1-2014/2015: Bridging the gap: **from innovative water solutions to market replication**

ICT in 3rd Pillar – Societies

SC6 - Europe in a changing world - Innovative, inclusive and reflective societies. ICTs are contributing with specific topics of the third and the fifth of these calls:

- 'Reflective societies: cultural heritage and European identities' (REFLECTIVE),
- 'New forms of innovation' (INSO).

In '**Reflective societies: cultural heritage and European identities**', two topics deal with the use of ICT for the access to and the exploitation of cultural assets:

- **REFLECTIVE 6 – 2015: Innovation ecosystems of digital cultural assets**
- REFLECTIVE 7 – 2014: Advanced 3D modelling for accessing and understanding European cultural assets

In '**New forms of innovation**', three topics address the role of ICT in modernising the public sector:

- INSO 1 - 2015: **Innovation in the public sector** by using emerging ICT technologies
- INSO 2 – 2014, 2015: ICT-enabled **open government**
- INSO 9 – 2014, 2015: Innovative mobile e-government applications by SMEs

It is also proposed to have a coordination and support action in the area of ICT for learning and inclusion:

- INSO 6 - 2014: Platform for ICT for Learning and Inclusion

ICT in 3rd Pillar – Societies

SC6 - Europe in a changing world - Innovative, inclusive and reflective societies.

ICTs are contributing with specific topics of the third and the fifth of these calls:

- 'Reflective societies: cultural heritage and European identities' (REFLECTIVE),
- 'New forms of innovation' (INSO).

In '**Reflective societies: cultural heritage and European identities**', two topics deal with the use of ICT for the access to and the exploitation of cultural assets:

- **REFLECTIVE 6 – 2015: Innovation ecosystems of digital cultural assets**

In '**New forms of innovation**', three topics address the role of ICT in modernising the public sector:

- INSO 1 - 2015: **Innovation in the public sector** by using emerging ICT technologies
- INSO 2 – 2014, 2015: ICT-enabled **open government**
- INSO 9 – 2014, 2015: Innovative mobile e-government applications by SMEs

ICT in 3rd Pillar - Security

SC7 - Secure societies – Protecting freedom and security of Europe and its citizens

In this challenge, one out of the four calls is dedicated to ICT: '**Digital Security: Cybersecurity, Privacy and Trust**' (DS). This call comprises the six following topics:

- DS 1 – 2014: Privacy
- DS 2 – 2014: Access Control
- DS 3 - 2014: The role of ICT in Critical Infrastructure Protection
- DS 4 -2015: Secure Information Sharing
- DS 5 – 2015: Trust eServices
- DS 6 – 2015: Risk management and assurance models

ICT in 3rd Pillar - Security

SC7 - Secure societies – Protecting freedom and security of Europe and its citizens

In this challenge, one out of the four calls is dedicated to ICT: '**Digital Security: Cybersecurity, Privacy and Trust**' (DS). This call comprises the six following topics:

- DS 4 -2015: Secure **Information Sharing**
- DS 5 – 2015: Trust **eServices**
- DS 6 – 2015: **Risk management and assurance models**

Societal Challenges - ICT

636 m€
(2014-15)



- Health, demographic change and wellbeing
- Food security, sustainable agriculture, and forestry, marine, maritime and inland water research, and the bioeconomy
- Secure, clean and efficient energy
- Smart, green and integrated transport
- Climate action, environment, resource efficiency and raw materials
- Europe in a changing world – inclusive, innovative and reflective societies
- Secure societies – protecting freedom and security of Europe and its citizens

Key principles for ICT R&I in the Societal Challenges



- **Interoperability**
 - **Re-use and economies of scale**
 - **Breakthroughs leveraging the transformative power of ICT**
 - **Preparation for market deployment**
- +
- **Information for future digital policy**

Societal Challenges - ICT

Proposed funding (€ million, 2014-2015)

Challenge	Total	ICT	%
Health, demographic change and wellbeing	1 804	269	15%
Food security, sustainable agriculture, marine and maritime research & the Bioeconomy	687		
Secure, clean and efficient energy	1 447	72	5%
Smart, green and integrated transport	1 542	92	6%
Climate action, environment, resource efficiency and raw materials	745	26	3,5%
Innovative, inclusive and reflective societies	310	77	25%
Secure societies	393	100	25%

Health, demographic change and wellbeing / 2014-2015

269 m€



- **Advancing active and healthy ageing with ICT**
 - **Service robotics** within assisted living environments
 - ICT solutions for **independent living with cognitive impairments**
 - ICT solutions enabling **early risk detection and intervention**
- **Integrated, sustainable, citizen-centred care**
 - ICT-based approaches for **integrated care** (beyond current state-of-art in tele-health and tele-care)
 - **Self-management of health and disease**
 - Public-procurement of innovative eHealth services
- **Improving health information and data exploitation**
 - Digital representation of **health data** to improve diagnosis and treatment
 - **eHealth interoperability**



Secure, clean and efficient energy / 2014-2015

72 m€

- **Energy efficiency / buildings and consumers**
 - Public procurement of **green data centres**
 - New ICT-based solutions for **energy efficiency through citizens' behavioural change**
- **Competitive low-carbon energy / modernising the single European electricity grid**
 - Distribution grid and retail market
 - Next generation ICT infrastructure for **smart metering and smart grids**
- **Smart cities and communities**
 - Integration of **energy, transport and ICT** through **lighthouse projects** (large scale demonstration)



Smart, green and integrated transport / 2014-2015

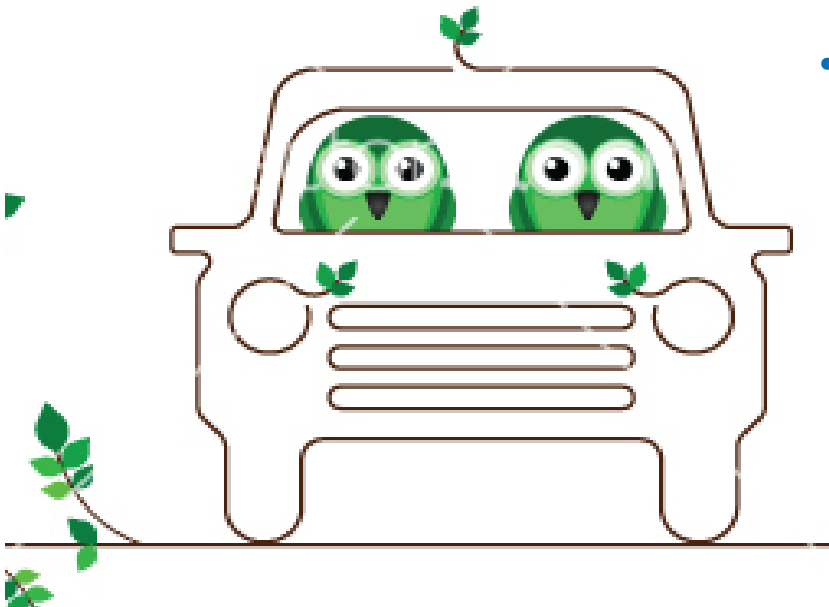
92 m€

- **Road**

- **Cooperative Intelligent Transport Systems**
 - Connecting people, vehicles, infrastructures and businesses
- Safe and connected **automation in road transport**

- **Green vehicles**

- **Electric vehicles'** enhanced performance and **integration into the transport system and the electricity grid**



- **Smart cities and communities**

- Integration of **energy, transport and ICT** through **lighthouse projects** (large scale demonstration)

Climate action, environment, resource efficiency and raw materials / 2014-2015

26 m€

- **Waste management**

- ICT solutions for waste traceability, waste material flow management

- **Water management**

- Development and deployment of advanced ICT solutions for water resources management in agriculture and urban areas



Europe in a changing world – inclusive, innovative and reflective societies / 2014-2015

77 m€

- **Reflective societies – Cultural Heritage**
 - Innovative ecosystems of digital cultural assets
 - Advanced 3D modelling for accessing and understanding European cultural assets
- **New forms of innovation**
 - Innovation in the public sector by using emerging ICT technologies
 - ICT-enabled **open government**
 - Personalised public services
 - M-government
 - Open participation
 - Transparency
 - ICT for **learning and inclusion**



Secure societies – protecting freedom and security of Europe and its citizens / 2014-2015

100 m€

- **Digital security: cybersecurity, privacy and trust**
 - Protecting our society by providing sustained **trust in the usage of ICT** and in securing the ICT underlying our digital society
 - **Preventing cyber-attacks** on any component of the digital society
 - **Ensuring freedom and privacy in the digital society**, protecting the fundamental values of our society and democratic rights of our citizens in cyberspace
 - Protect the weak in our society from abuses over the internet and **giving the user control over his private data**
 - Demonstrating the viability and maturity of state-of-the-art security solutions in **large scale demonstrators**, involving end users

SC6

Europe in a changing world – inclusive, innovative
and reflective Societies

INCLUSIVE

INNOVATIVE

REFLECTIVE SOCIETIES

REFLECTIVE SOCIETIES

- [REFLECTIVE-11-2015: Enabling Innovation - Creating Impact from Social Sciences and Humanities](#)
- [REFLECTIVE-2-2015: Emergence and transmission of European cultural heritage and Europeanisation](#)
- [REFLECTIVE-3-2015: European cohesion, regional and urban policies and the perceptions of Europe](#)
- [REFLECTIVE-4-2015: Cultural opposition in the former socialist countries](#)
- [REFLECTIVE-5-2015: The cultural heritage of war in contemporary Europe](#)
- [REFLECTIVE-8-2015: Communication and dissemination platform](#)

HORIZON 2020 WP 2014 – 2015

*Europe in a changing world – inclusive, innovative and reflective
Societies*

Reflective Societies: Cultural Heritage and European Identities

**REFLECTIVE 6 - 2015:
Innovation ecosystems of digital cultural assets**



Specific Challenge:

Show how digital cultural resources can promote creativity and generate innovation in research design and methodology, lead to richer interpretations of the past, bring new perspectives to questions of identity and culture, and generate societal and economic benefits.





Scope:

Support and promote access to and reuse of digital cultural heritage resources (available in scientific collections, archives, museums, libraries and cultural heritage sites)





Scope:

Projects should enable new models and demonstrations of the analysis, interpretation and understanding of Europe's cultural and intellectual history and/or capitalising on state of the art technologies (e.g. mobile and wearable devices)

bring cultural content to new audiences in novel ways, through the development of new environments, applications, tools, and services for digital cultural resources in scientific collections, archives, museums, libraries and cultural heritage sites.





End Users:

The developed technologies or services should be generated in the context of humanities research perspectives (identity, culture, questions of place, historical and cultural knowledge) and/or facilitate the access, reuse and exploitation of digital cultural resources meeting real user needs.



Collaboration:

They should illustrate how they allow new research questions to be formulated on the basis of cross-collaboration and/or stimulate cross-border, cross-lingual multi-disciplinary reuse of Europe's cultural heritage, enabling collaboration and partnerships and co-production of knowledge across sectors and communities of researchers and users.



Re-Use:

Proposals should demonstrate appropriate methods of re-using and repurposing digital assets, paving the way for wider exploitation of Europe's cultural resources and boosting innovation.





Expected impact: Activities under this topic will:

- Stimulate new research perspectives for the humanities and social science communities, promote further the use of digital cultural heritage allowing its reinterpretation towards the development of a new shared culture in Europe.
- Provide innovative and creative methods for approaching cultural assets and generate applications and services to access and exploit the rich and diverse European digital cultural heritage in a sustainable way.
- Foster collaboration between those with primary expertise in the interpretation of cultural data and researchers with complementary expertise in digital and interactive frameworks.

Innovation actions

Description: Action primarily consisting of activities directly aiming at producing plans and arrangements or designs for new, altered or improved products, processes or services. For this purpose they may include prototyping, testing, demonstrating, piloting, large-scale product validation and market replication.

Funding rate: 70% (except for non-profit legal entities, where a rate of 100% applies)



Innovation ecosystems of digital cultural assets

Action: Innovation Actions

Project size: expected (2-4 M€ funding)

Indicative budget: 10 M€

Opening: 10 December 2014

Deadline: 28 May 2015 at 17.00 Brussels time

Call Deadline: 28 May 2015

Proposals under article 185 (tagországi programok)

- Supporting research-performing small and medium-sized enterprises (**Eurostars-2**):
 - Impact assessment:
 - Executive summary of the Impact Assessment:
- European Metrology Programme for Innovation and Research (**EMPIR**):
 - Impact assessment:
 - Executive summary of the Impact Assessment:
- European and Developing Countries Clinical Trials Partnership (**EDCTP 2**):
 - Impact assessment:
 - Executive summary of the Impact Assessment:
- Active and Assisted Living Research and Development Programme (**AAL**):
 - Impact assessment:
 - Executive summary of the Impact Assessment:

Proposals for Joint Undertakings under article 187 (EU „PPP” programok)

- **Innovative Medicines Initiative (IMI) 2:**
 - Impact assessment:
 - Executive summary of the Impact Assessment:
- **Fuel Cells and Hydrogen (FCH) 2:**
 - Impact assessment:
 - Executive summary of the Impact Assessment:
- **Clean Sky 2:**
 - Impact assessment:
 - Executive summary of the Impact Assessment:
- **Bio-Based Industries:**
 - Impact assessment:
 - Executive summary of the Impact Assessment:
- **Electronic Components and Systems for European Leadership (ECSEL):**
 - Impact assessment:
 - Executive summary of the Impact Assessment:
- **Single European Sky Air Traffic Management Research (SESAR):**
 - Revision of Regulation:

Joint Technology Initiatives

- **ECSEL** (Electronic Components and Systems for European Leadership)
 - **1,215 b€ from EU** (250m€ in 2014-15)
 - **3,6 b€** (out of which 1,2 b€ from Member States) **from industry partners and other sources**

Joint Programme

- **AAL** Ambient Assisted Living

Joint Technology Initiatives

- **ECSEL** Electronic Components and Systems for European Leadership

Joint Programme

- **AAL** Ambient Assisted Living

Contractual PPPs

- **5G** → **700m€** indicatively earmarked in H2020 (125m€ in WP2014-15)
- **Photonics** → **700m€** (156m€ in WP2014-15)
- **Robotics** → **700m€** (157m€ in WP2014-15)
- **High Performance Computing** → **700m€** (157m€ in WP2014-15)
- **Factories of the Future** (ICT part) → **450m€** (102m€ in WP2014-15)
- **Green Vehicles** (ICT part) → **80m€** (20m€ in WP2014-15)

EIT ICT Labs operates from 5 Nodes and 3 Associated Partner Groups

-  EIT ICT Labs Node
-  Associated Partner Groups



<http://ictlabs.elte.hu/index.php?id=budapesti-tarsult-csomopont>

Európai Innovációs és Technológiai Intézet (EIT) a H2020 első két évében

- Kutatás, innováció és képzés összekapcsolása a KIC-ekben
- **Költségvetése a H2020-ból: kb. 2 437 M€**
- Első hullámban (2014) induló 2 KIC:
Healthy Living Active Ageing, Raw materials, továbbiak 2016 - Food, Manufacturing, 2018 - Urban mobility

Funding opportunities through existing projects in FP7

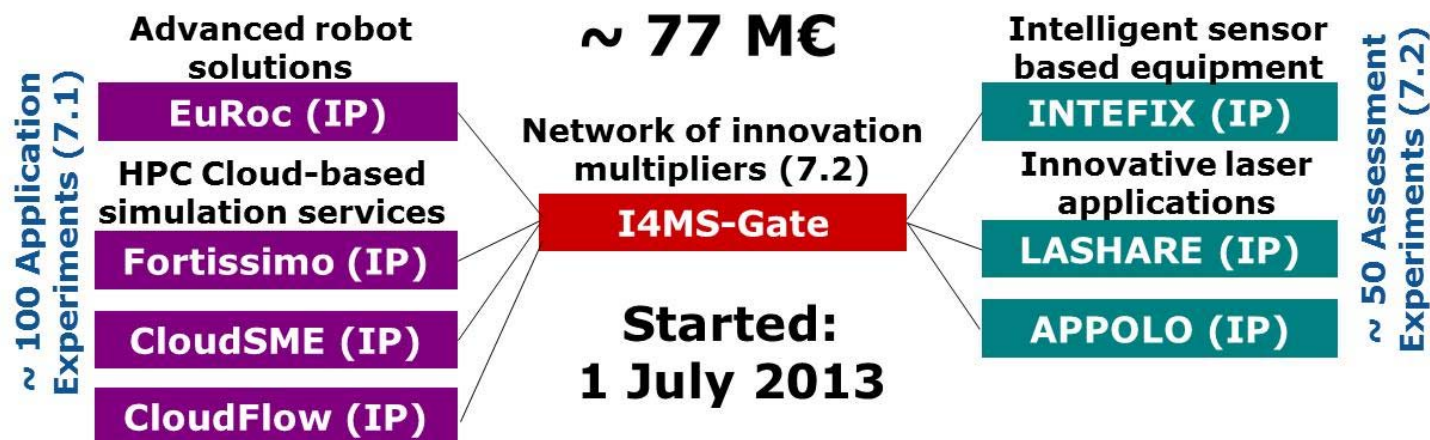
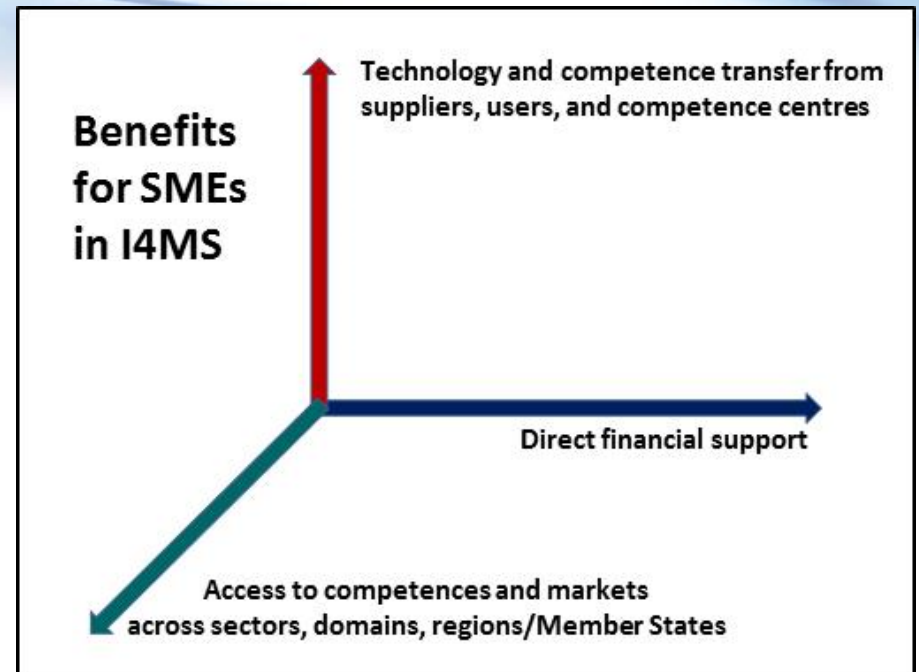
- Future Internet PPP - Accelerators
 - ECHORD ++ - Robotics
 - I4MS – Manufacturing
 - FET Flagships – Human Brain, Graphene
- ...

Funding opportunities through existing projects in FP7

Project	Event	Dates to remember
ECHORD++	<u>Call 1 for Experiments:</u>	Call opening: 3rd March 2014
	Call opening for pre-proposals and proposals submission	Call closing: 24th March 2014
EuRoC	<u>Call for Challengers</u> + <u>Call for End Users</u>	Deadline: 1st April 2014
euRathlon	<u>Call for participation:</u>	Part 1 deadline: 30 May 2014
	Underwater robotics challenge 2014, La Spezia, Italy, 29th September-3rd October, 2014.	Part 2 deadline: To Be Confirmed
RoCKIn	<u>Call for participation:</u>	Deadline: 1st June 2014 (tentative)
	Competition Event 2014, Toulouse, 26-30 November 2014 (European Robotics Week)	
RoCKIn	<u>Call for participation:</u>	Deadline: 1st June 2015 (tentative)
	Competition Event 2015, Lisbon, 25-29 November 2015 (tentative)	

Forrás: <http://ec.europa.eu/digital-agenda/en/news/funding-opportunities-through-existing-projects-fp7>

- Key role of SMEs in value chains: users and suppliers
- SME need more than €s
- 150 application experiments along value chains clustered
- Clustered around networks of competence centres
- Open Calls for experiments during course of projects



www.i4ms.eu/

Open Call CloudSME

- **New experiments in manufacturing and engineering based on cloud computing simulations**
- **Deadline:** 25th June 2014 (17:00 Brussels time)
- **Submission** via email to: opencall@cloudsme.eu
- **Expected duration:** 1st January 2015 - 31st December 2015
- **Call budget:** 400.000 Euro for 10 new beneficiary companies (not necessarily evenly)
- **Further information:** G.Z.Terstyanszky@westminster.ac.uk
- New! Info session on 23rd May, 11:30 CET. [Register for the webinar](#)

Where to find Call Information?

Call and all necessary documentation are
published on the Participant Portal

<http://ec.europa.eu/research/participants/portal/page/home>

- User friendly Participant Portal
- Easy to find funding opportunities



RESEARCH & INNOVATION

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Welcome to the Research and Innovation Participant Portal

About the Participant Portal:

The Participant Portal is your entry point for the electronic administration of EU-funded research and innovation projects. It hosts services for managing proposals and projects throughout their lifecycle.

The Participant Portal supports activities funded mainly by the following EU programmes:

- **7th Framework Programme for Research and Technological Development (FP7)**
- **Competitiveness and Innovation Framework Programme (CIP)**

Using the Participant Portal:

As a guest user, browse the public pages to:

- search for funding opportunities
- download guidance and legal documents
- search for the participant identification code (PIC) of an organisation
- contact the FP7 support services and browse the FAQ for guidance on the Participant Portal tools

As a registered user, benefit from personalised services for proposal submission, negotiation, and project management.



WHATS NEW



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BETA VERSION 4

European Commission > Research & Innovation > Participant Portal > Funding Opportunities

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Horizon 2020

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Search Topics

Call Updates

Other Funding Opportunities

Previous Framework
Programmes (FP7 & CIP)

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iCal ⓘ

Email notification ⓘ

HORIZON 2020 CALLS

66 results

FUNDING GUIDE

Filter options

Specific Programme:

- ☐ Excellent Science
- ☐ Industrial Leadership
- ☐ Societal Challenges
- ☐ Spreading excellence and widening participation
- ☐ Science with and for society

Type:

- ☒ Calls for proposal
- ☒ Calls for tender

Status:

- ☒ Open calls
- ☐ Closed calls
- ☐ Forthcoming calls

Sort by: ☒ Publication date ☐ Deadline ☐ Title ☐ Call ID

EXCELLENT SCIENCE Developing new world-class research infrastructures H2020-RIDEV-2014/2015 PUBDATE 2013-12-11 DEADLINE 2014-03-12	INDUSTRIAL LEADERSHIP Nanotechnologies, Advanced Materials and KET support H2020-NMK-2014/2015 PUBDATE 2013-12-11 DEADLINE 2014-03-12	SOCIETAL CHALLENGES Sustainable Food Security H2020-SFS-2014/2015 PUBDATE 2013-12-11 DEADLINE 2014-03-18
SOCIETAL CHALLENGES Water Innovation: Boosting its value for Europe H2020-WATER-2014/2015 PUBDATE 2013-12-11 DEADLINE 2014-03-18	EXCELLENT SCIENCE Marie Skłodowska-Curie Innovative Training Network H2020-MSCA-ITN-2014 PUBDATE 2013-12-11 DEADLINE 2014-04-08	SOCIETAL CHALLENGES Mobility for Growth H2020-MG-2014/2015 PUBDATE 2013-12-11 DEADLINE 2014-03-18
EXCELLENT SCIENCE FET Open - fostering novel ideas H2020-FETOPEN-2014/2015	INDUSTRIAL LEADERSHIP Biotechnologies H2020-BIOTEC-2014/2015	SOCIETAL CHALLENGES Blue Growth: Unlocking the potential of the oceans H2020-BG-2014/2015



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Calls



Search Topics

Call updates



FP7 & CIP Programmes

Calls



Call updates



CSMC

Other funding opportunities

21

Results

Keyword Search:

SEARCH

If you don't find your topic, you can also use the [free text search](#).

Status

- ☒ Open
- ☐ Closed
- ☐ Forthcoming

Sort by

- ☒ Title
- ☐ Call Id
- ☐ Publication Date
- ☐ Deadline Date

In addition, [see all the open calls](#) of Marie Skłodowska Curie Actions (MSCA) and European Research Council (ERC) grants for individual researchers of any nationality and research teams. The MSCA grants include opportunities for companies and SMEs. The MSCA and ERC grants are not restricted to specific topics.

Quick finder for topics linked to H2020 cross-cutting priorities:

Cross-cutting Key Enabling Technologies (KETs)

ERA-NET

Gender

Contractual Public-Private Partnerships (cPPPs)

International cooperation

SME Instrument

Socio-economic sciences and humanities

Topic: [Advancing active and healthy ageing with ICT: service robotics within assisted living environments:PHC-19-2014](#)

Specific challenges: Citizens in an ageing European population are at greater risk of cognitive

Call title: [Personalising health and care](#)
Call identifier: [H2020-PHC-2014-single stage](#)

Status: **Open**
Deadline: 15-04-2014

H2020 cross-cutting priorities (2014. Febr.)

Quick finder for topics linked to H2020 cross-cutting priorities:

- [Cross-cutting Key-Enabling Technologies \(KETs\)](#)
- [ERA-NET](#)
- [Gender](#)
- [Contractual Public-Private Partnerships \(cPPPs\)](#)
- [International cooperation](#)
- [SME Instrument](#)
- [Socio-economic sciences and humanities](#)

http://ec.europa.eu/research/participants/portal/desktop/en/opportunities/h2020/search/search_topics.html

H2020-ICT-2014-1 Call

Publication date:2013-12-11 Deadline Date2014-04-23 +17:00:00 (Brussels local time)
Budget€658,500,000Main Pillar Industrial Leadership Status Open OJ referenceOJ C361 of 11.12.2013

- Legal basis - Framework Programme H2020 [en](#)
- Legal basis - Rules for Participation [en](#)
- Legal basis - Specific Programme H2020 [en](#)
- WP H2020 - 1. Introduction [en](#)
- WP H2020 - 5. Introduction to Leadership in enabling and industrial technologies (LEITs) [en](#)
- WP H2020 - 5i. Information and communication technologies (ICT) [en](#)
- WP H2020 - 17. Communication and Dissemination [en](#)
- WP H2020 - 18. General Annexes [en](#)
- A guide to ICT-related activities in WP2014-15 [en](#)

**2013.dec.11
149 Call
published**

Description of the topics

- 3 key features in Work Programme
 - **Specific Challenge** – sets the context, the problem to be addressed, why intervention is necessary
 - **Scope** – delineates the problem, specifies the focus and the boundaries of the potential action BUT without overly describing specific approached
 - **Expected Impact** – describes the key elements of what is expected to be achieved
- Simplified types of action (instruments): Research & Innovation 100%; Innovation 70%; Coordination and Support Action etc.
- Size of projects is indicated

ICT-2015 Call fiche in WP-2014-15

H2020-ICT-2015

Publication date: 15 October 2014⁴⁴

Deadline(s): at 17.00.00 Brussels time on the following dates

For all topics	[14 April 2015] ⁴⁵
----------------	-------------------------------

Overall indicative budget: EUR 583 million from the 2015 budget⁴⁶

<i>All single stage</i>		2015 EUR million
Customised and low power computing	ICT4.a	37
	ICT4.b	17
	ICT4.c	3
Boosting public sector productivity and innovation through cloud computing services	ICT8.a	9
	ICT8.b	13
Collective Awareness Platforms for Sustainability and Social Innovation	ICT10.a	25
	ICT10.b	4
	ICT10.c	7
	ICT10.d	1
More experimentation for the Future Internet	ICT12.a	13
	ICT12.b	5
Big Data - research	ICT16.a	38
	ICT16.b	1
Technologies for creative industries, social media and convergence	ICT19.a	18
	ICT19.b	21
	ICT19.c	2
Technologies for better human learning and teaching	ICT20.a	9
	ICT20.b	5
	ICT20.c	28
	ICT20.d	10

Participation conditions

Simplification ... but really !

Single set of rules

- Covering **all research and innovation** programmes, initiatives and funding bodies (art. 185 and art. 187 initiatives, EIT,...), but flexible to accommodate specificities where needed (through delegated acts)
- Coherent with the rules contained in the **Financial Regulation (FR)**, but containing "derogations"

Forms of funding

- **Grants**
 - Direct financial contribution by way of donation in order to finance an action
- **Prizes**
 - Financial contribution given as reward following a contest
- **Procurement**
 - Supply of assets, execution of works or provision of services against payment
- **Financial instruments**
 - Equity or quasi-equity investments; loans; guarantees; other risk-sharing instruments

Types of actions supported by grants

- Research and innovation actions
- Innovation actions
- Coordination and support actions
- SME instrument
- ERANET Co-fund
- Pre-commercial procurement Co-fund
- Public procurement of innovative solutions Co-fund

Conditions for participation

- **Minimum conditions**
 - For standard collaborative actions
 - At least, 3 legal entities, each established in different MS/AC
 - For SME Instrument, programme co-fund, CSA
 - 1 legal entity established in a MS/AC
 - For Fast Track to Innovation
 - Max. 5 participants
- **Additional conditions**
 - To be set out in the Work Programme (i.e. number of participants, type of participants, etc.)

Eligibility for funding

- Entities established in MS or associated countries or third country identified in the WP
- Entities created under Union law
- International European interest organisation
- Other entities may receive funding if :
 - participation is essential or
 - such funding foreseen in bilateral arrangement between the Union and third country/international organisation

- **Award criteria**
 - Excellence
 - Sole criterion for ERC frontier research actions
 - Impact
 - Higher weighting for innovation actions
 - Quality and efficiency in the implementation
 - Details, Weightings and thresholds to be laid down in WP
- Evaluation to be carried out by independent expert

- **Time to Grant**

- From 9 (FR) to 8 months (Exceptions: ERC, complex actions, requested by applicants)
 - 5 months for informing applicants on outcome of scientific evaluation
 - 3 months for signature of GA = grant finalisation process
- **Remarks :**
 - no changes of the composition of the consortium (removal or substitution needs to be duly justified) before signature of the grant agreement
 - No provision for competitive call in order to include new beneficiaries

- **1 reimbursement rate by action** (same rate for all beneficiaries and all activities):
 - Up to 100% for Research and Innovation actions
 - Up to 70% for innovation (non-profit entities up to 100%) and programme co-fund actions
- **1 method for calculation of indirect costs:**
 - Flat rate of 25% of total direct costs, excluding subcontracting, costs of third parties and financial support to third parties
 - If provided in WP, lump sum or unit costs
- Funding of the action not exceed **total eligible costs minus receipts**

- **Salaries + social security charges + other costs included in the remuneration arising from national law/employment contract**
- **Additional remuneration** up to 8000 EUR (per year) for non-profit legal entities
- **Actual worked hours**
 - Evidence : normally through time recording system except for staff working full time on EU action

- **Actual costs**
- **Unit costs for**
 - average personnel costs
 - Calculation based on the total actual personnel costs recorded in the participant's accounts
 - Provisions on productive hours
 - SME owner and natural person with no salary

- Subcontracts' costs may be eligible if
 - foreseen in Annex 1 of the grant agreement
 - Not foreseen in Annex 1 only *"in duly justified cases that could not be clearly foreseen at the time of its entry into force"*
- WP may impose **further requirements** for subcontracting

Costs of third parties

- **Carrying out work**, costs may be eligible if
 - Third party eligible for funding
 - Affiliated or legal link with a beneficiary
 - Identified in the GA
 - Abides by the rules (inter alia on costs eligibility and control) applicable to the beneficiary
 - Accepts – if requested by EU - Joint and several liability with the participant
- **Making resources available**, costs may be eligible if conditions of the GA are met,

- **Audit certificates**
 - Only for final payments when total EU contribution claimed on the basis of actual costs + average personnel costs $\geq 325,000$ EUR
 - Certificates on the methodology
 - Optional certificates on average personnel costs
- **Ex-post audits**
 - Audits limited to 2 years after payment of the balance

- Continuity of the system applied in FP7 : H2020 GF replaces and succeeds to the FP7 GF
- Considered as sufficient guarantee under the FR
- No additional guarantee or security may be accepted from participants or imposed on them
- 5% contribution of the EU funding retained from the initial prefinancing
- 5% contribution returned to participants at the end of the action

Intellectual Property Rights (IPR)–in a nutshell - Results

- **Ownership**
 - Beneficiary generating the results
 - Joint-ownership in specific circumstances
- **Protection**
 - If results capable of commercial/industrial exploitation
 - If no protected, EU may assume ownership
- **Exploitation**
 - Best efforts obligation; WP may foresee additional obligations
- **Transfer and exclusive licences to a third country**
 - EC may object (competitiveness, ethical principles, security)
- **Dissemination**
 - Open access to scientific publications and under certain conditions to research data

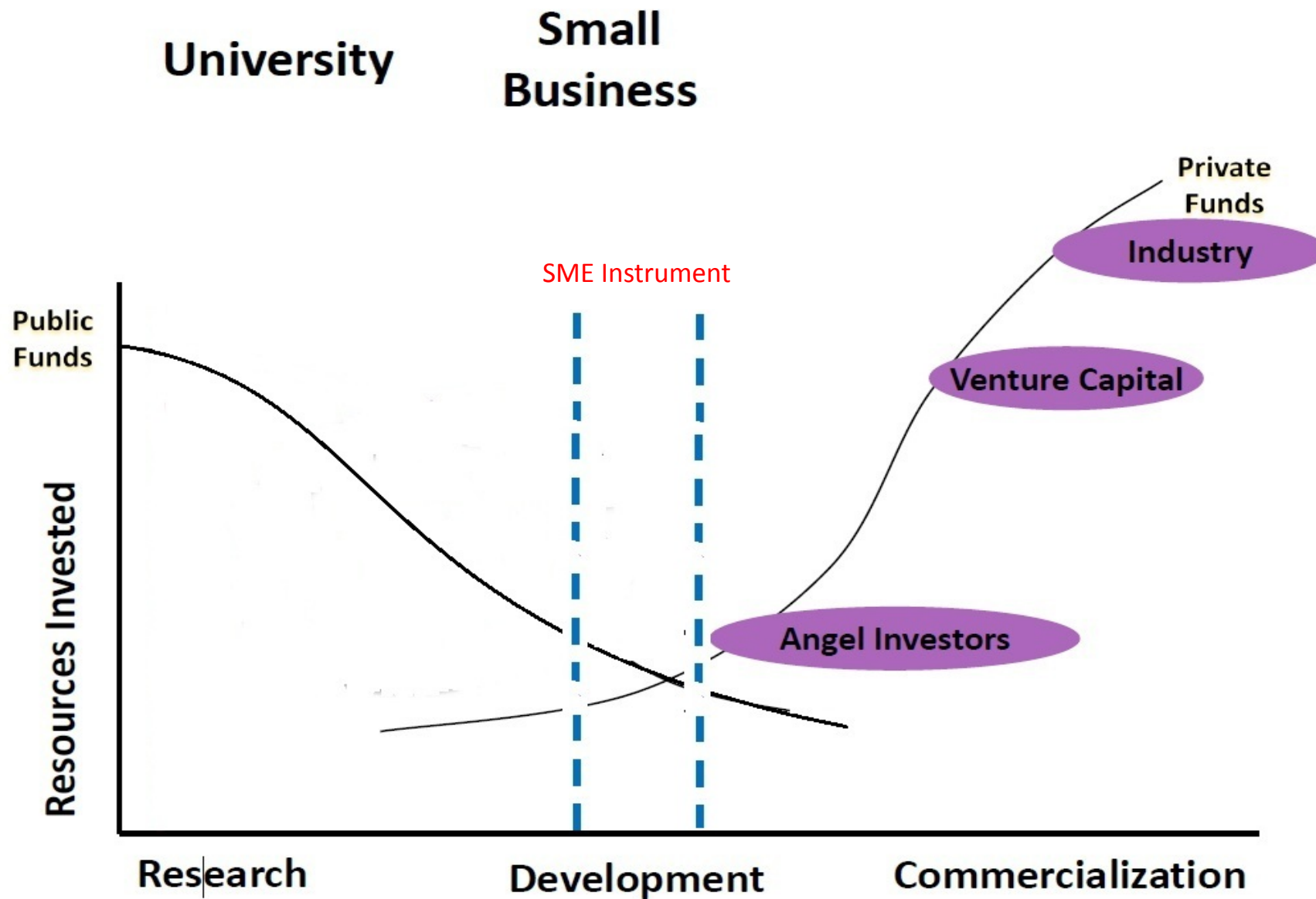
IPR in a nutshell– Access Rights

- **For implementation**
 - To background / results (royalty free) if needed
- **For exploitation**
 - To background / results (under fair and reasonable conditions) if needed to exploit own results
 - Also applicable to affiliates established in MS/AC
- **For EU/MS**

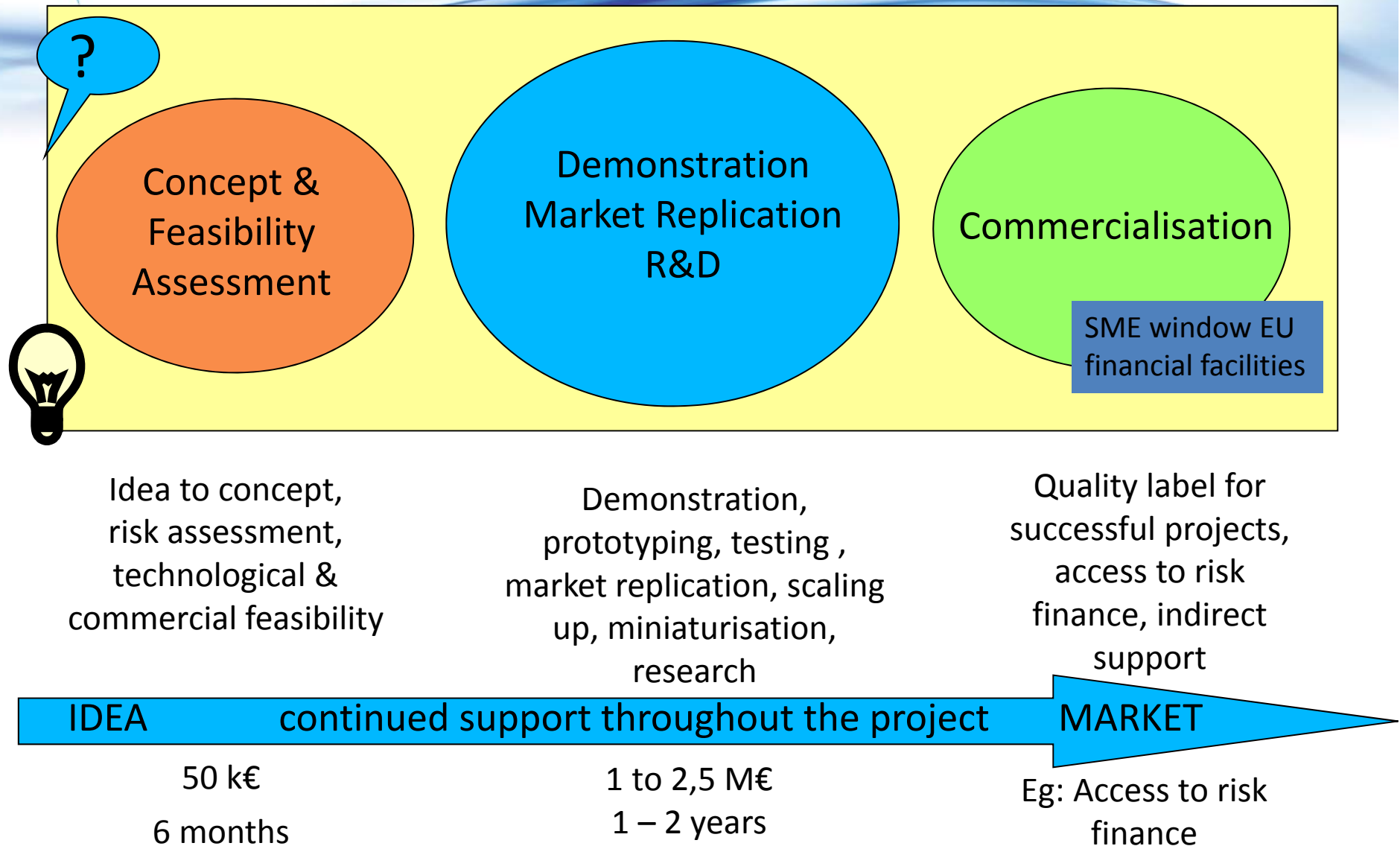
- **SME Instrument** (1 SME or consortium of SME)
 - Continuously open call; organised around 3 rounds
 1. lump sum to explore technical feasibility and commercial potential of a new idea
 2. grants to perform R&I with a particular focus on demonstration activities
 3. support measures and networking actions for helping exploitation of outcomes



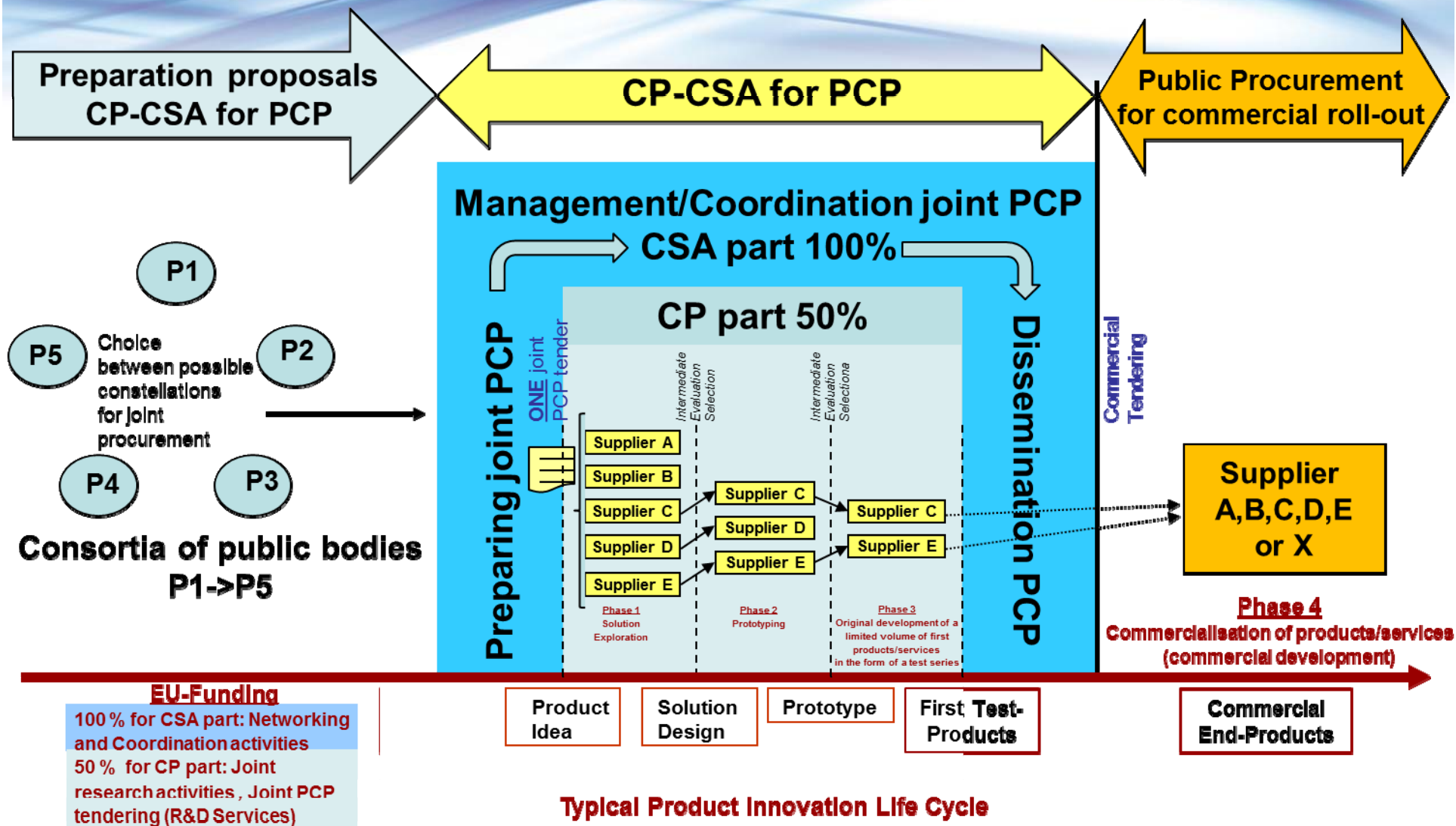
SME instrument - Filling a gap



SME instrument



PCP / PPI



The Prizes Instrument

➤ Recognition prizes

- Recognition of work that has **already** been done

➤ Inducement Prizes

- Providing a considerable financial inducement to stimulate researchers / innovators to do something that has **never been done before**
- Typically deliver a major technological breakthrough for a predefined challenge

For ICT three "Inducement prizes" will be launched during 2014-15

➤ **"Breaking the optical transmission barriers in the core network"**

- With focus on optical networks
- To be launched in 2014
- €1m purse

➤ **"Collaborative sharing of spectrum"**

- With focus on wireless networks
- To be launched in 2014
- €1m purse



Inducement Prizes in SC Health WP 2014-15

➤ **Development of interactive health & well-being app that**

- Ensures citizens can securely store and access their health and well-being data and...
 - Transmit it seamlessly to healthcare professionals and...
 - Provide a health and well-being "scoreboard" to the user
-
- Contest To be launched in 2015
 - Has €2m purse (to be distributed amongst at least 3 winners)

Implementation details to be published in 2014

Proposal Submission

Electronic Submission

Electronic Submission System accessed from the call page

- ECAS password
- PICs for all partners
- Prepare proposal,
 - On-line for structured part
 - Upload non-structured part - pdf file(s)
- Submit the proposal!
- Validation checks
- Complete submission, before the 17h00 deadline

Submission failure rate = $\pm 1\%$

Only reason for failure; waiting till the last minute

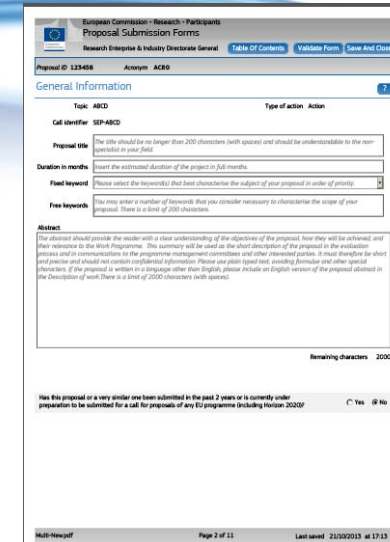
Technical problems

Panic-induced errors (uploading the wrong proposal)

Too late starting upload, run out of time

Section 1

- *Title, acronym, objective etc.*
- *Fixed and free keywords*
- *2000 character proposal abstract*
- *previous/current submission*
- *Declarations*



The screenshot shows the 'General Information' section of a proposal submission form. It includes fields for 'Topic', 'Cell identifier', 'Proposal title', 'Duration in months', 'Fixed keywords', and 'Free keywords'. There is also a section for 'Abstract' with a character count of 2000. At the bottom, there is a declaration checkbox: 'Has this proposal or a very similar one been submitted in the past 2 years or is currently under preparation to be submitted for a call for proposals of any EU programme (including Horizon 2020)?' with 'Yes' and 'No' options.

Section 2 (one form per partner)

- *Participant Identification Code (PIC) compulsory!*
- *Department*
- *Dependences*
- *Contact information*
- *Other contact information*

Structured Part – online 2/2

Section 3

- Cost and requested grant details*

3 - Budget



Participant	(A) Direct personnel costs/€	(B) Other direct costs/ €	(C) Sub-contracting costs/€	(D) Costs of providing financial support to third parties/€	(E) Costs of contri- butions provided by third parties which are not used on the beneficiary's premises/€	(F) Indirect Costs/€ (=0.25(A+B-E))	(G) Total estimated eligible costs/€ (=A+B+C+D+F)	(H) Reimbursement rate	(I) Max. amount of the grant / € (=G*H)	(J) Requested amount of the grant / €
	0	0	100%	0		0	0	100%	0	
Total	0	0	0	0		0			0	

Section 4

- Ethics' questionnaire*

Section 5

- Call related questionnaire*

Unstructured Part - pdf file(s)

Based around evaluation criteria:

- Excellence
 - Eg. Objectives, concept, progress beyond state-of-art...
- Impact
 - Eg. Potential impact (*incl. with reference to WP*); measures to maximise impact (*dissemination, communication, exploitation*)
- Implementation
 - Including work packages descriptions
 - Information on third parties and subcontractors

Template supplied by the submission system (.rtf)

LOGIN

FUNDING SCHEME

CREATE DRAFT

PARTIES

EDIT PROPOSAL

SUBMIT

Step 5

Edit Proposal

H2020-ICT-2014-1

Edina Nemeth

ICT-01-2014

RIA

WED 23 April 2014 17:00:00 Brussels Local Time

71 days left until closure

Acronym ID Contact

Acronym
abcdef

Configuration unconfirmed

You're using Chrome 32 on Windows. **Adobe Reader is not installed or not**

Edit Proposals' Forms

In this step you can edit the administrative forms and upload the proposal itself. ?

WARNING: This proposal contains changes that have not yet been submitted...

Administrative Forms

Edit will open the forms in Adobe Reader. ?

edit forms

view history

print preview

Part B and Annexes

In this section you may upload the technical annex of the proposal (in PDF format only) and any other requested attachments. ?

download templates

Technical Annex Section 1-3

upload

✕ ?

Technical Annex Section 4-5

upload

✕ ?

Submission in H2020

- Self check for SME status, financial viability
 - Proposal unstructure part closely matching criteria
 - Aligned with Grant Agreement “Description of Work”
 - Simpler but tougher page limits
- “warn and watermark” in first round of calls
- More 2-stage procedure; with simplified approaches for short proposals

Ideal-Ist Proposal Check Event

Call H2020-ICT-2014-1

19 March 2014 in Cologne

- 1. lépés: projekt absztrakt**
- 2. Lépés: teljes projekt, független szakértőkkel**

<http://www.ideal-ist.eu/event/ideal-ist-proposal-check-event-call-h2020-ict-2014-1>

Evaluations



Evaluation process

Eligibility
Check?

yes

Individual
Reading
(Remote)

Consensus

Panel review

...but adapting to Horizon 2020

- New types of call; new types of proposal
 - multi-disciplinary and multi-sectoral; more emphasis on innovation and close-to-market;
- Simplification, for applicants, experts, and for streamlined operations;
- Coherence across the programme

Evaluation Process

Chain of individual, consensus and panel review maintained. But changes w.r.t. FP7:

- Dealing with multi-disciplinary/sectoral proposals
 - New expert profiles, new blood;
 - Call for experts planned for November
 - Robust rules on expert turnover;
 - More experts per proposal;
 - Clear procedures for cases where experts disagree
- Dealing with 8 month TTG

Award criteria (Research and Innovation; Innovation Actions)

- **1. Excellence**

- Clarity of the objectives;
- Soundness of the concept, including transdisciplinary considerations;
- Credibility of the proposed approach;
- Progress beyond the state of the art.

- **2. Impact: [...] contribution to:**

- The expected impacts listed in the work programme
- Enhancing innovation capacity and integration of new knowledge;
- Strengthening the competitiveness and growth of companies by developing innovations meeting the needs of European and global markets;
- ...measures to, disseminate and exploit the project results,... communication.



- **3. Quality and efficiency of implementation**

- Coherence and effectiveness of work plan, ... allocation of tasks, resources;
- Competences, experience and complementarity of the individual participants, as well as of the consortium as a whole;
- Appropriateness of the management structures and procedures....risk management.

Scoring/weights/thresholds

- As in FP7 each criterion scored out of 5; individual threshold of 3; overall threshold of 10
- Unlike FP7, for Innovation Actions and SME instrument...
 - impact criterion weighted by factor of 1.5
 - Impact considered first when scores equal

Selection of proposals

All above threshold proposals in each topic are listed in descending order of overall score

Proposals selected starting from the top of the list, until the available budget is exhausted

So, ranking of proposal is very important

Priority of proposals with equal score

- For each group of tied proposals
 - First consider those that "fill gaps" in the WP
 - Of those, look at score for 'excellence', then at score for 'impact'
 - *(reverse for Innovation actions & SME instrument)*
 - If still equal, look at SME budget
 - If still equal look at gender balance in key personnel
 - If still equal, consider other factors (overall portfolio, wider H2020, EU objectives etc)
 - Then repeat for those that don't "fill gaps"

Appropriately qualified individuals may apply to work as experts in H2020 evaluations

- Application via Participant Portal



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

NATIONAL CONTACT POINT PARTNER SEARCH & PROPOSAL DEVELOPMENT



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Thu. 20/02/2014



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Open calls

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- [> H2020 – EU-JAPAN – 2014](#)
Close date:
10/04/2014
- [> H2020 – FoF – 2014/2015](#)



**Recently Published
Partner Searches**

- [> PS-AT-89331:
K4FoF](#)
- [> PS-SK-89303:
\[EuroLangNet 21+3 \]
European network](#)



In QA process

- [> PS-NO-89154:
Inclusive-MT](#)
- [> PS-NO-89152:
Inclusive-MT](#)

[View All](#)



ICT Events

[View All](#)

- [> European Data Forum
2014](#)
- [> Future Internet
Assembly](#)

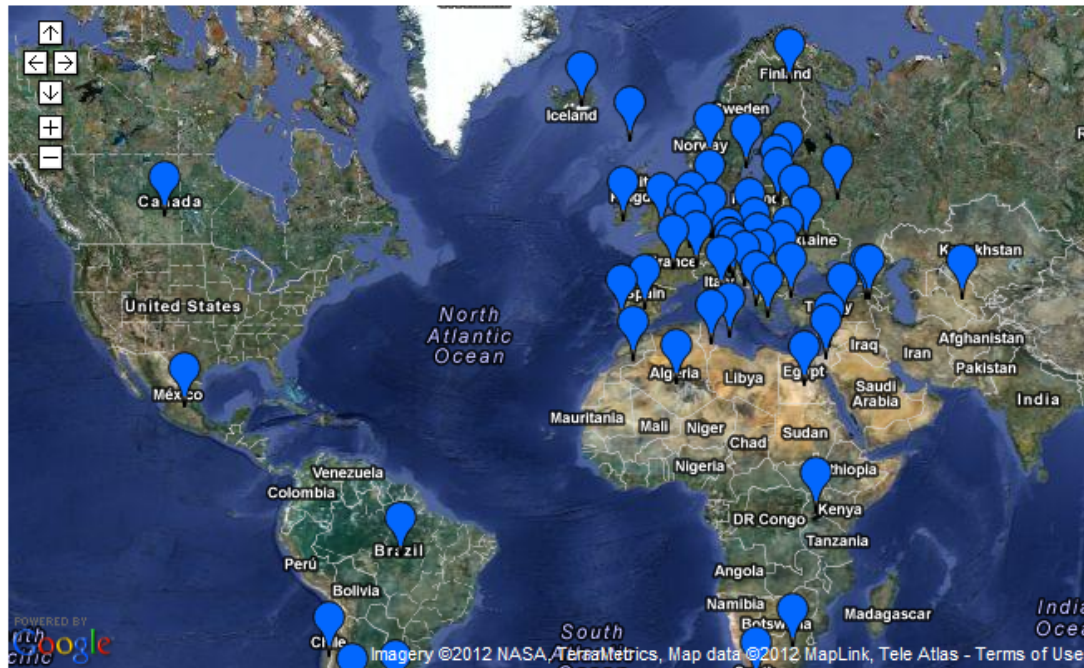
network of national contact points for ICT in Horizon 2020



- ➔ Supports project proposers
- ➔ From project idea to successful proposal submission

Ideal-ist Network

Ideal-ist Representatives



is worldwide

Albania | Algeria | Argentina | Armenia | Australia | Austria | Azerbaijan | Belarus | Belgium | Bosnia and Herzegovina | Brazil | Bulgaria | Canada | Chile | China | Croatia | Cyprus | Czech Republic | Denmark | Egypt | Estonia | Faroe Islands | Finland | France | Georgia | Germany | Greece | Hungary | Iceland | India | Ireland | Israel | Italy | Jordan | Latvia | Lebanon | Lithuania | Luxembourg | Malta | Mexico | Moldova | Montenegro | Morocco | Netherlands | New Zealand | Norway | Philippines | Poland | Portugal | Romania | Russia | Serbia | Singapore | Slovakia | Slovenia | South Africa | Spain | Sweden | Switzerland | Taiwan | Tunisia | Turkey | Uganda | Ukraine | United Kingdom | Uruguay | Uzbekistan | Quality Manager

Individual ETPs: H2020-ban elismert ETP-k

Bio-based economy	Energy	Environment	ICT	Production and processes	Transport
<u>EATIP</u>	<u>Biofuels</u>	<u>WssTP</u>	<u>ETP4HPC</u>	<u>ECTP</u>	<u>ACARE</u>
<u>ETPGAH</u>	<u>EU PV TP</u>		<u>EUROP</u>	<u>ESTEP</u>	<u>ERRAC</u>
<u>Food for Life</u>	<u>TPWind</u>		<u>ARTEMIS</u>	<u>EuMaT</u>	<u>ERTRAC</u>
<u>Forest-based</u>	<u>RHC</u>		<u>ENIAC</u>	<u>FTC</u>	<u>Logistics</u>
<u>Plants</u>	<u>SmartGrids</u>		<u>EPoSS</u>	<u>SusChem</u>	<u>Waterborne</u>
<u>FABRE TP</u>	<u>SNETP</u>		<u>ISI</u>	<u>Nanomedicine</u>	
<u>TP Organics</u>	<u>ZEP</u>		<u>Net!Works</u>	<u>ETP-SMR</u>	
			<u>NEM</u>	<u>Manufuture</u>	
			<u>NESSI</u>		
			<u>Photonics 21</u>		
Cross ETP Initiatives					
<u>Nanofutures</u>					
<u>Industrial Safety</u>					

Horizont2020 - ICT információs napok

Dátum	Rendezvény	ICT téma a felhívásban	Helyszín
January 13-14	Robotics	ICT 23, 24	Luxembourg
January 15-16	Data Value Chain & Language Technologies	ICT 15, 16, 17, 22	Luxembourg
January 15	Trust & Security	ICT 32, DS 1, 2, 6	Brussels
January 16	Web Entrepreneurship	ICT 13	Webinar
January 16	Photonics	ICT 26	Brussels
January 20	FET Proactive and Flagships	FETHPC 1, 2, FETPROACT 1, 2, 3	Brussels
January 21	SSH & RRI Actions for ICT	ICT 10, ICT 31	Brussels
January 23	Creative Industries & Cultural Heritage	ICT 18, 22	Luxembourg
January 23	Pre-commercial Public Procurement (PCP) and Public Procurement of Innovative Solutions (PPI) calls	ICT 35 & 36	Brussels
January 24	Open disruptive innovation / innovation & entrepreneurship	ICT 35 & 37	Brussels
January 31	Future Internet	ICT 5, 6, 7, 9, 11, 13, 14, EUJ	Brussels
February 6	Gaming, interaction	ICT 21, 22	Luxembourg
February 10	Innovation and Public Sector	eGov WP topics	Brussels
February 12	Innovation and ICT and Water management	WATER-1-2014	Brussels
February 12	Distribution grid and retail market	LCE 7 – 2014	Brussels
February 13-14	e-Infrastructures	EINFRA, INFRASUPP, INFRADEV	Brussels
February 14	Organic Electronics	ICT 3, 19	Brussels
February 26-27	Achieving impact Conference - Social Sciences and Humanities in Horizon 2020	REFLECTIVE, EURO, YOUNG, INSO	Athens
February 28	Smart Cities	SCC 1, 2, 5	Brussels
March 11	Brokerage Event in the area of Smart Systems Integration	ICT 2	Brussels
March 18	H2020 Info Day: Smart, Green and Integrated Transport	MG3.5-2014	Brussels
March 18-20	Future Internet Assembly	ICT 5-14	Athens
March 19-20	European Data Forum	ICT 15, 16	Athens

Németh Edina, ICT és FET nemzeti kapcsolattartó, e-mail: edina.nemeth@ist.hu; Tel: +36702210387

<http://www.nih.gov.hu/nemzetkozi-tevekenyseg/rendezvenyek/horizont2020-ict>

...

[Open Standards for ICT Procurement](#)

2014-12-03, Brussels, Belgium

[ICT 24 Brokerage Event Registration and GA – BRUSSELS EXPO, 9th December 2014](#)

2014-12-09, Brussels, Belgium

[H2020 LCE 23 – 2015 : Supporting the community in deploying a common framework for measuring the energy and environmenta](#)

2014-12-10, webinar

[Horizon 2020 Energy Efficiency: Information Day](#)

2014-12-12, Brussels, Belgium

[Workshop on Internet of Things - a Deeper Dive](#)

2014-12-16, Brussels, Belgium

[Share and inspire: Infoday on CAPS in Horizon 2020](#)

2014-12-16, Brussels, Belgium

[Horizon 2020 Calls Info Day: Low Power Computing, Internet of Things and platforms for smart objects, ICT in Factories o](#)

2014-12-17, Brussels, Belgium

[ICT-16 'Big data – research' Information and Networking day](#)

2015-01-15, Brussels, Belgium

[ARTEMIS brokerage event](#)

2015-01-21 - 2015-01-22

Amsterdam, Netherlands

[Smart, Green and Integrated Transport Information Day](#)

2015-02-02,
Brussels, Belgium

[ITEA 3 & ARTEMIS CO-SUMMIT](#)

2015-03-10 - 2015-03-11

Berlin, Germany

[ICT EVENT 2015](#)

2015-10-20 - 2015-10-22

Lisbon, Portugal

Key events – Project ideas

- ICT Proposers Day - 9-10 Oct 2014
 - <https://ec.europa.eu/digital-agenda/events/cf/ictpd14/item-display.cfm?id=12591>
 - <https://www.youtube.com/watch?v=ABoz3sNYU1M>
 - <https://www.b2match.eu/proposersday2014>



*e*DIGIREGION

Realising The Digital Agenda Through
Transnational Cooperation
Between Regions



Overall aims

Through a planned process of inter and intra regional mentoring, and knowledge transfer, eDIGIREGION will initiate a series of **cross-border transnational collaborations** and **internationalisation activities** in the technology domains of the **Digital Agenda** to support open innovation and boost regional competitiveness, unlock new business opportunities for SMEs and mobilise financial support.

Partners and partner regions:

South East Ireland

WIT = University/Research Centre

SERA = Regional government

IBEC = Industry representative organisation

Kernel Capital = Venture Capital company

Castilla-La Mancha Spain

UCLM = University

JCLM = Regional Government

Desertic = ICT Industry Cluster

Central Hungary

KMIRU Khe = Regional Government Innovation Agency

MIMO = ICT Industry Cluster

BME = University

Regens = SME

Bucharest-Ilfov

UEFISCDI = Government Research & Innovation Agency

UPB-CETTI = University

ARIES = ICT Industry Cluster

ARDBI = Regional government



Thank you for your attention!

Sándor Bottka

ICT Program Committee

National Innovation Office

Sandor.Bottka@ist.hu

Edina Németh

ICT & FET National Contact Point

National Innovation Office

Edina.Nemeth@ist.hu