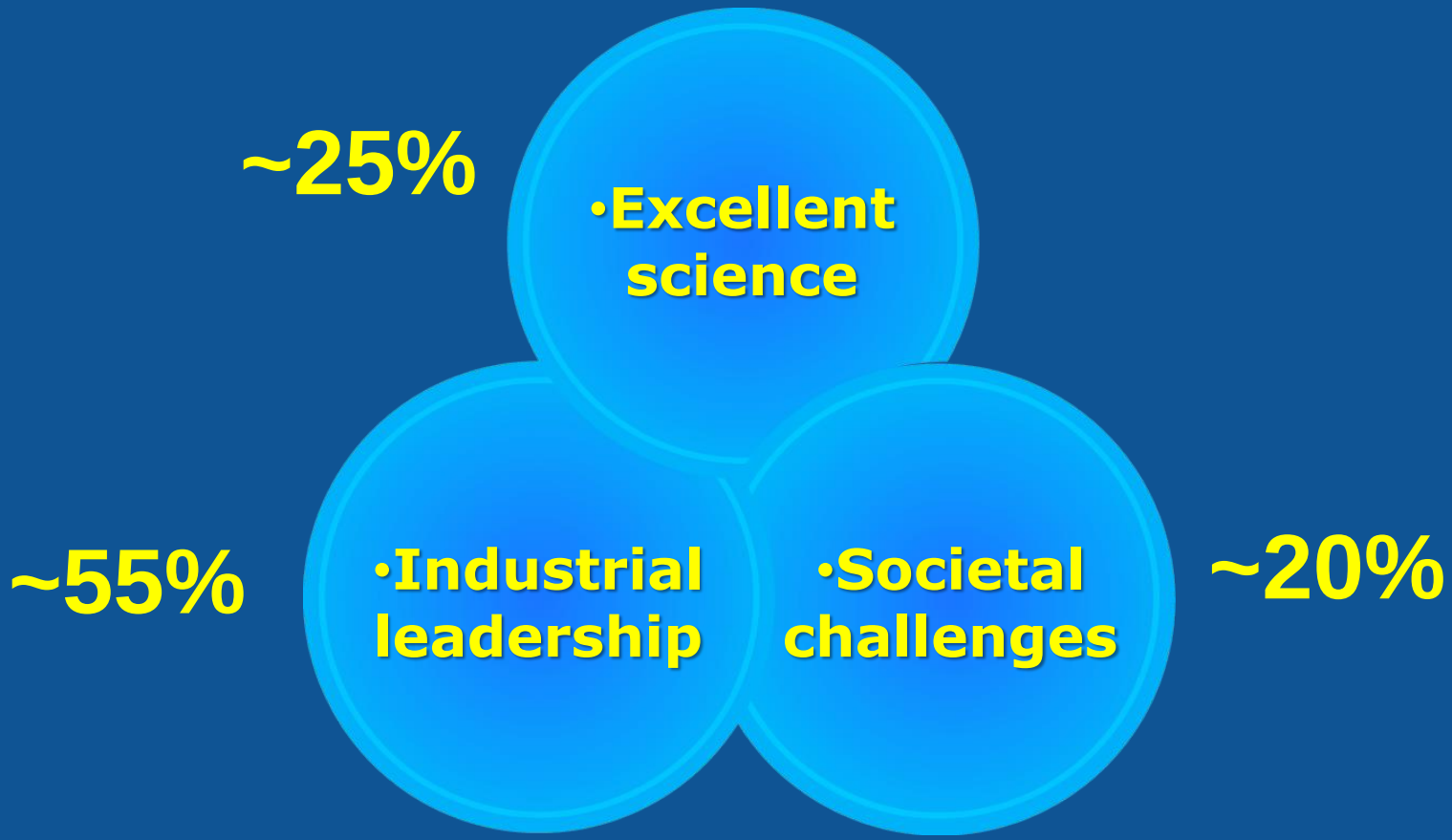
NEMZETI INNOVÁCIÓS HIVATAL

ICT Pályázati Lehetőségek Horizon 2020-ban

NIH, Külkapcsolatok Főosztálya

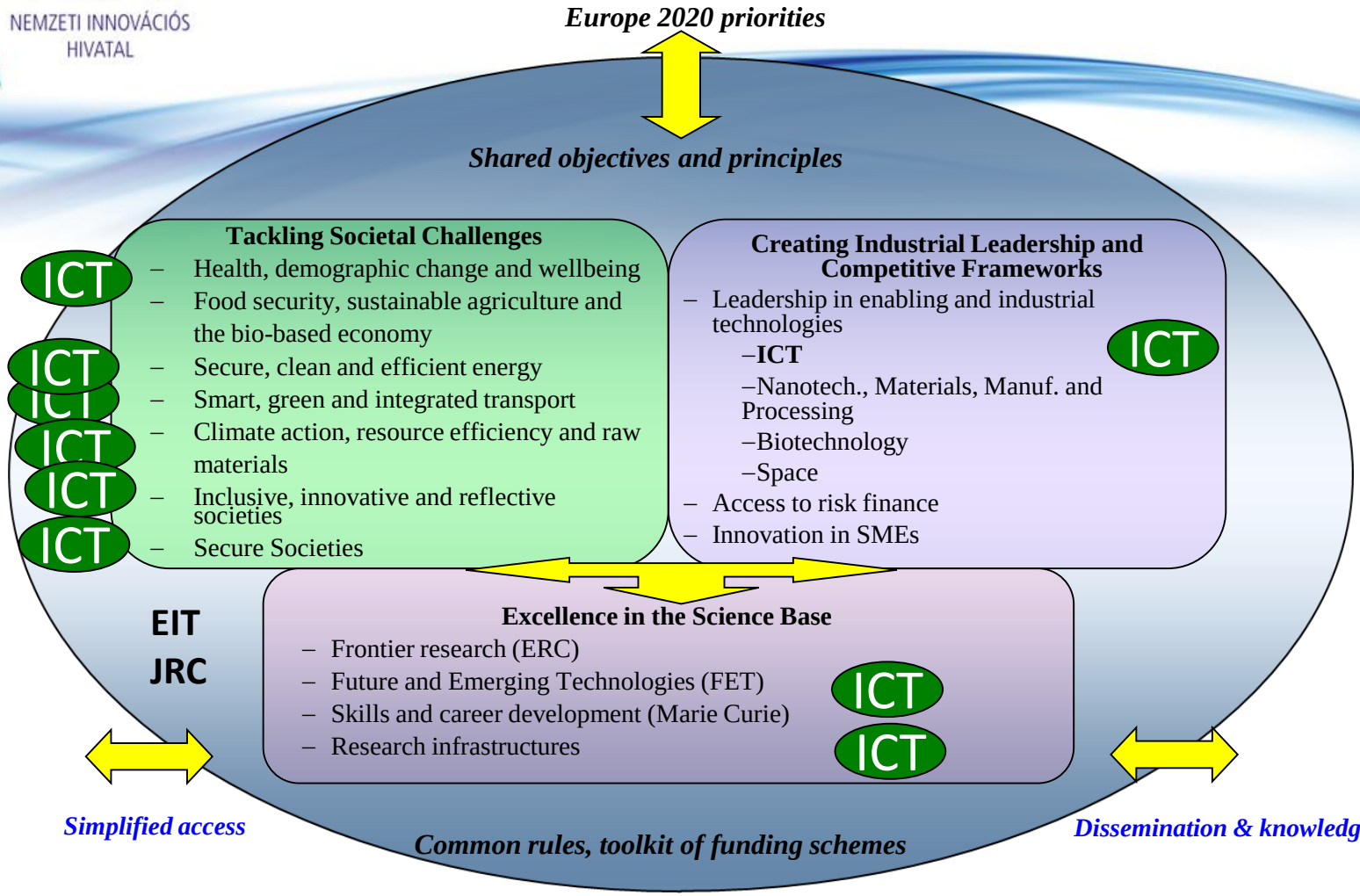
AAL Információs Nap – Budapest, 2014.05.16.

ICT a 3 pillérben

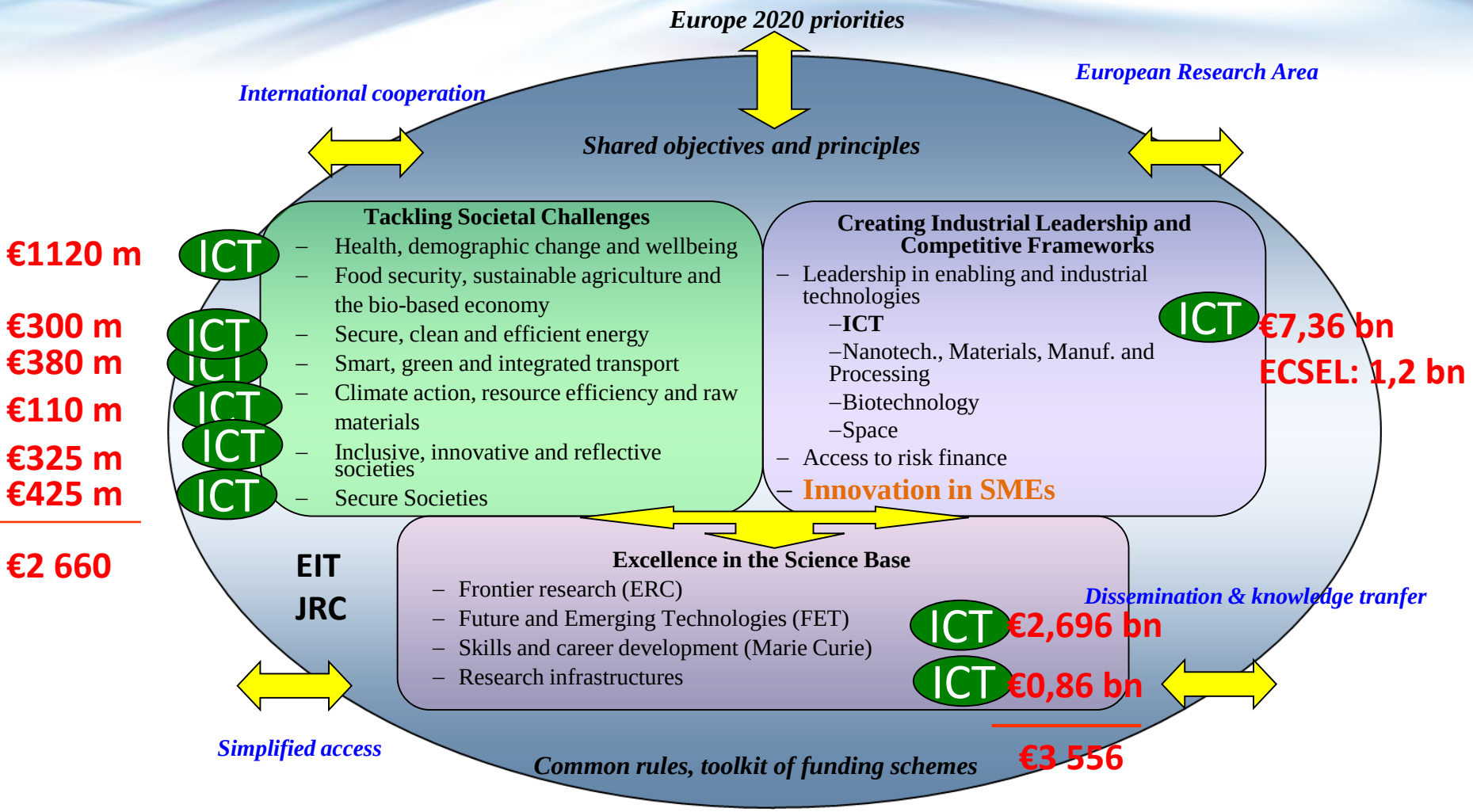


NEMZETI INNOVÁCIÓS HIVATAL

Egyszerűsítés?


Europe 2020 priorities
Shared objectives and principles
Tackling Societal Challenges
– Health, demographic change and wellbeing
– Food security, sustainable agriculture and the bio-based economy
– Secure, clean and efficient energy
– Smart, green and integrated transport
– Climate action, resource efficiency and raw materials
– Inclusive, innovative and reflective societies
– Secure Societies
ICT
ICT
ICT
ICT
ICT
Creating Industrial Leadership and Competitive Frameworks
– Leadership in enabling and industrial technologies
–ICT
–Nanotech., Materials, Manuf. and Processing
–Biotechnology
–Space
– Access to risk finance
– Innovation in SMEs
ICT
EIT
JRC
Excellence in the Science Base
– Frontier research (ERC)
– Future and Emerging Technologies (FET)
– Skills and career development (Marie Curie)
– Research infrastructures
ICT
ICT
Simplified access
Common rules, toolkit of funding schemes
Dissemination & knowledge tranfer

ICT in H2020 (€ 13 576)



€1120 m ICT

€300 m ICT

€380 m ICT

€110 m ICT

€325 m ICT

€425 m ICT

€2 660

ICT €7,36 bn

ECSEL: 1,2 bn

ICT €2,696 bn

ICT €0,86 bn

€3 556

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:

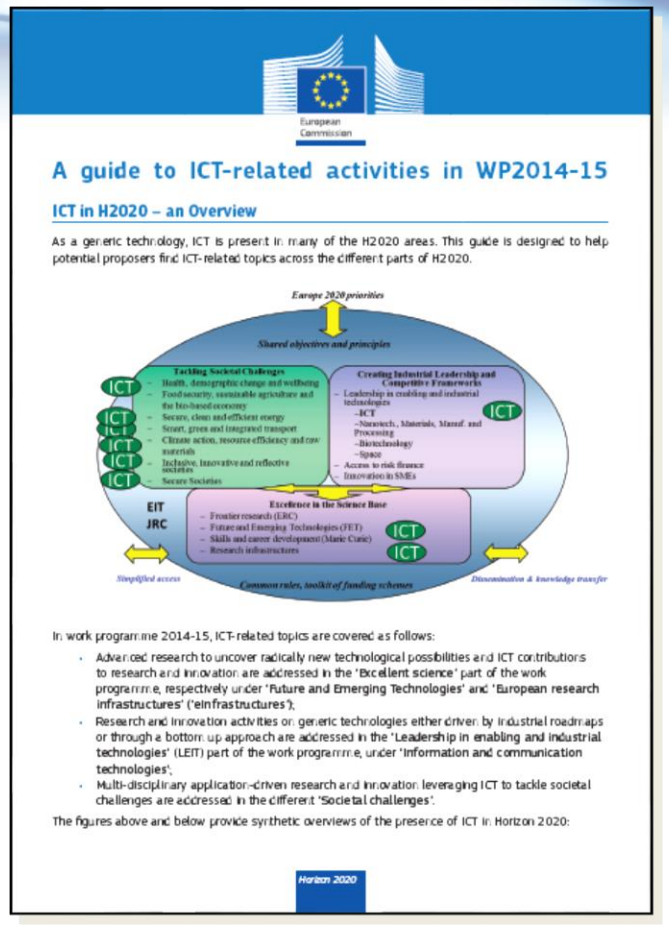
http://ec.europa.eu/programmes/horizon2020/en/news/horizon-2020-launched-%E2%82%AC15-billion-over-first-two-years

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



European Commission

A guide to ICT-related activities in WP2014-15

ICT in H2020 – an Overview

As a generic technology, ICT is present in many of the H2020 areas. This guide is designed to help potential proposers find ICT-related topics across the different parts of H2020.

In work programme 2014-15, ICT-related topics are covered as follows:

- Advanced research to uncover radically new technological possibilities and ICT contributions to research and innovation are addressed in the 'Excellent science' part of the work programme, respectively under 'Future and Emerging Technologies' and 'European research infrastructures' ('eInfrastructures');
- Research and innovation activities on generic technologies either driven by industrial roadmaps or through a bottom-up approach are addressed in the 'Leadership in enabling and industrial technologies' (LEIT) part of the work programme, under 'Information and communication technologies';
- Multi-disciplinary application-driven research and innovation leveraging ICT to tackle societal challenges are addressed in the different 'Societal challenges'.

The figures above and below provide synthetic overviews of the presence of ICT in Horizon 2020:

Horizon 2020

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

ICT in Industrial leadership

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 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%

ICT in 2nd Pillar-LEIT-ICT 2015

- **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
- **Robotics**
  - ICT 24 – 2015: Robotics

ICT in 2nd Pillar-LEIT-ICT 2015

- **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)

Open Disruptive Innovation – LEIT-ICT

http://ec.europa.eu/research/participants/portal/desktop/en/opportunities/h2020/topics/2538-ict-37-2014-1.html

H2020-SMEInst-2014-2015

H2020-SMEINST-1-2014
H2020-SMEINST-1-2015
H2020-SMEINST-2-2015
H2020-SMEINST-2-2014

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:

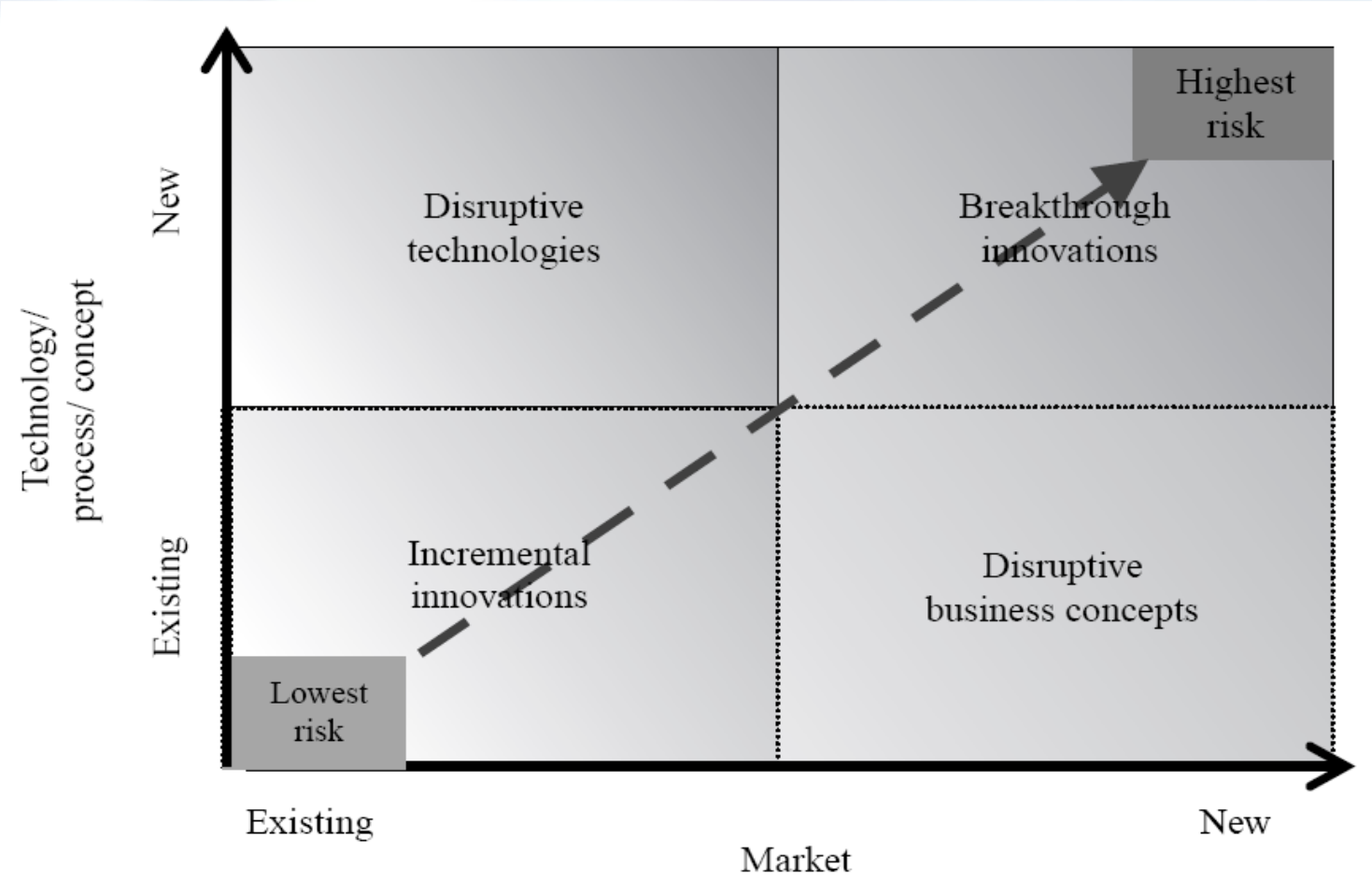
ODI-ICT37 call cut-off dates:

Phase 1:

18/06/2014;
24/09/2014;
17/12/2014;
18/03/2015;
17/06/2015;
17/09/2015;
16/12/2015

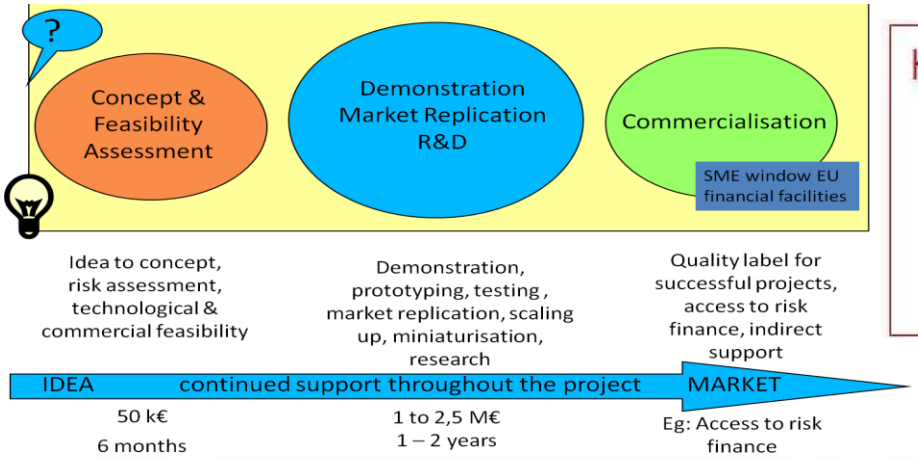
Phase 2: 09/10/2014;
17/12/2014;
18/03/2015;
17/06/2015;
17/09/2015;
16/12/2015

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 M€
26,557 M€
220,8976 M€
233,7016 M€

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

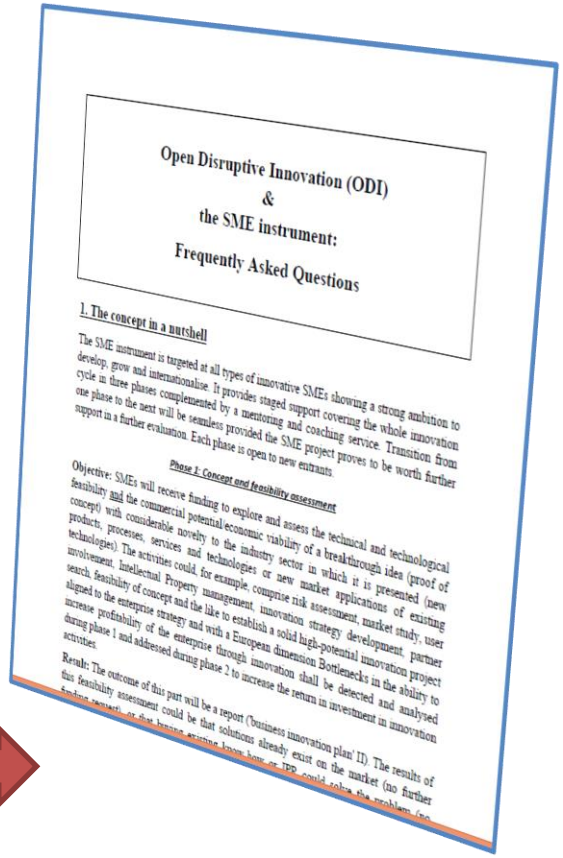
1 - Introduction

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



Open Disruptive Innovation (ODI)
&
the SME instrument:
Frequently Asked Questions

1. The concept in a nutshell

The SME instrument is targeted at all types of innovative SMEs showing a strong ambition to develop, grow and internationalise. It provides staged support covering the whole innovation cycle in three phases complemented by a mentoring and coaching service. Transition from one phase to the next will be seamless provided the SME project proves to be worth further support in a further evaluation. Each phase is open to new entrants.

Phase 1: Concept and feasibility assessment

Objective: SMEs will receive funding to explore and assess the technical and technological feasibility and the commercial potential-economic viability of a breakthrough idea (proof of concept) with considerable novelty to the industry sector in which it is presented (new products, processes, services and technologies or new market applications of existing technologies). The activities could, for example, comprise risk assessment, market study, user involvement, intellectual Property management, innovation strategy development, partner search, feasibility of concept and the like to establish a solid high-potential innovation project aligned to the enterprise strategy and with a European dimension Bottlenecks in the ability to increase profitability of the enterprise through innovation shall be detected and analysed during phase 1 and addressed during phase 2 to increase the return in investment in innovation activities.

Result: The outcome of this part will be a report (business innovation plan' II). The results of this feasibility assessment could be that solutions already exist on the market (no further

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

ICT in 3rd Pillar- LEIT-(ICT-NMP)-FoF PPP

- **FoF 1 – 2014: Process optimisation of manufacturing assets**
- FoF 2 – 2014: Manufacturing processes for complex structures and geometries with efficient use of material
- FoF 3 – 2014: Global energy and other resources efficiency in manufacturing enterprises
- FoF 4 – 2014: Developing smart factories that are attractive to workers
- FoF 5 – 2014: Innovative product-service design using manufacturing intelligence
- FoF 6 – 2014: Symbiotic human-robot collaborations for safe and dynamic multimodal manufacturing systems
- FoF 7 – 2014: Support for the enhancement of the impact of FoF PPP projects
- **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

ICT in Excellent science

ICT in 1st Pillar: FET

Future and Emerging Technologies (FET)

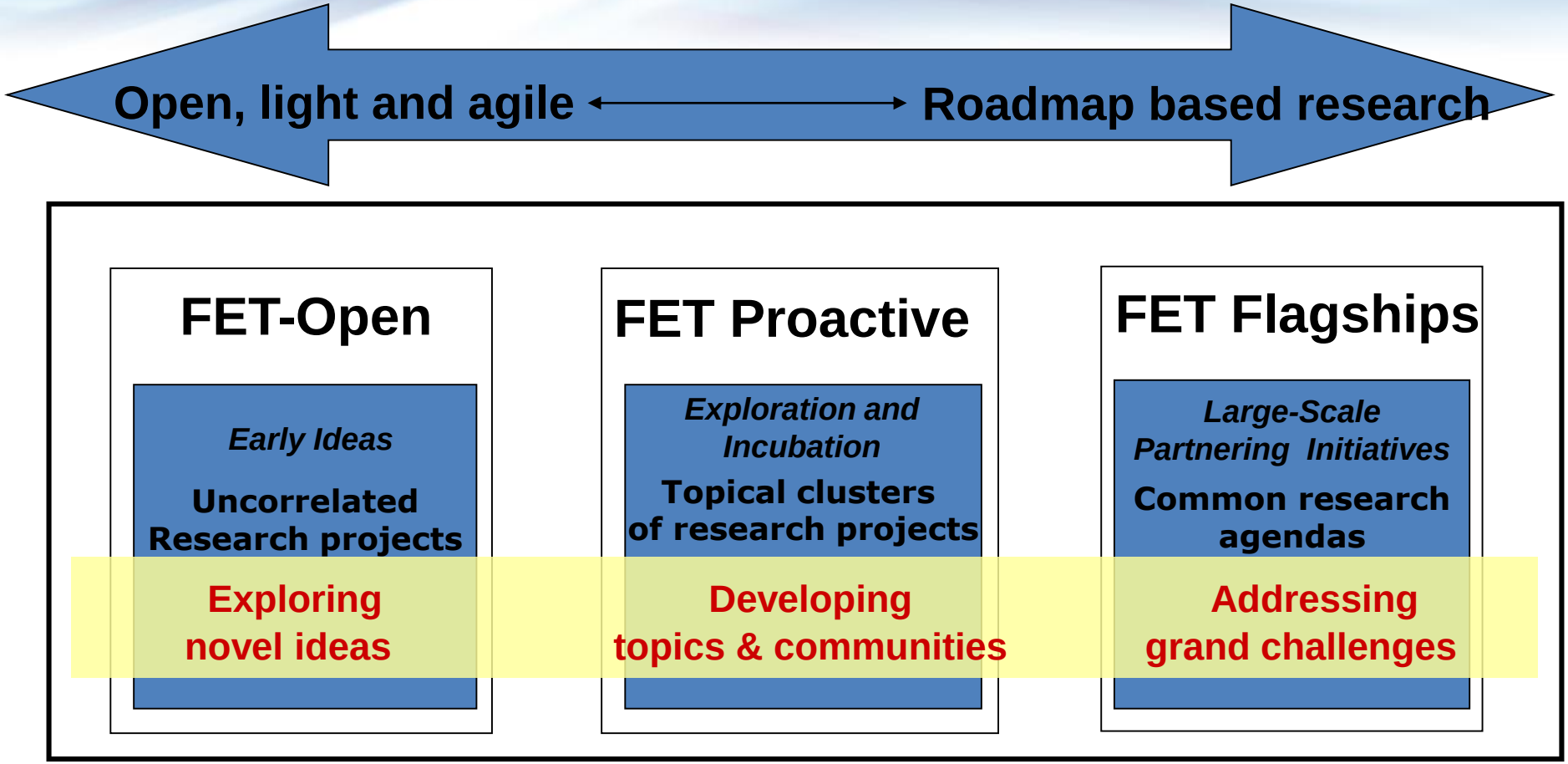
- **FET Open: fostering novel ideas** 30/09/2014, 31/03/2015, 29/09/2015

- **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**

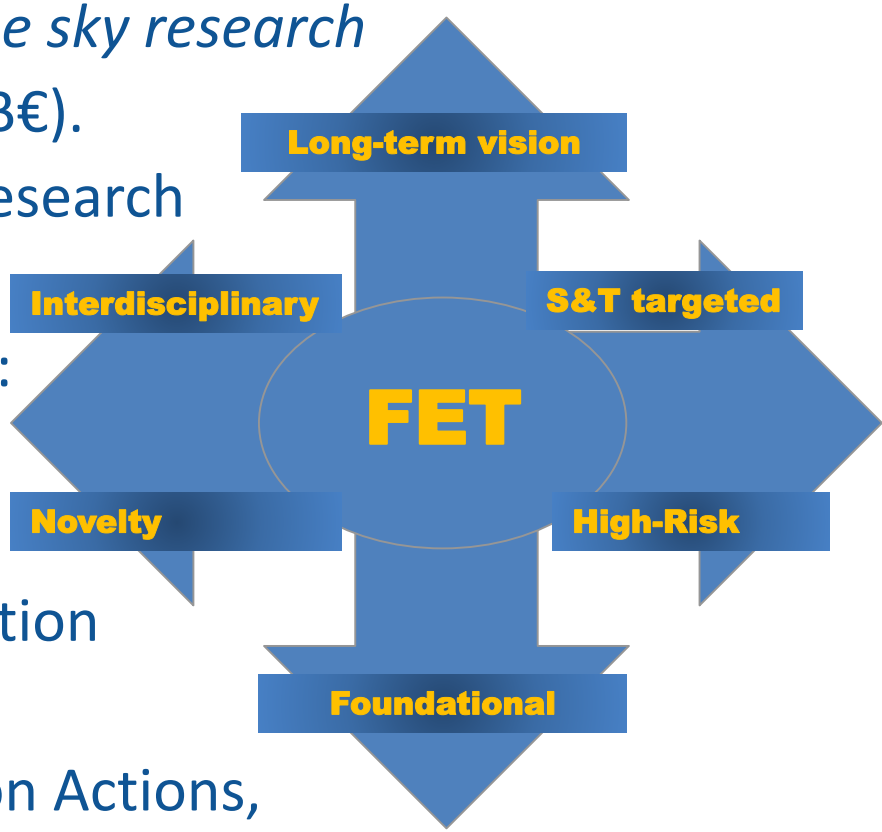
  Two flagship initiatives will be further developed and supported:
  - the Graphene flagship,
  - the Human Brain Project (HBP).

FET – 3 complementary funding schemes



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 Proactive (except HPC) –Thematic call

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

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

European Commission

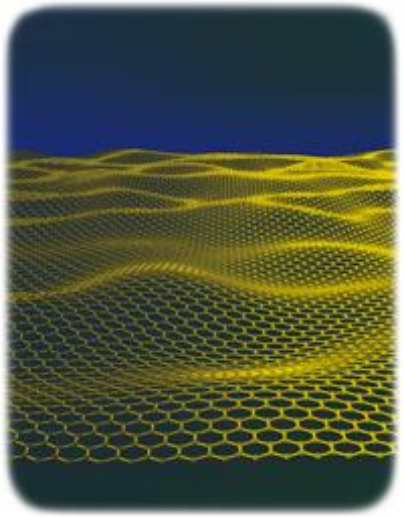
Graphene, is a 2D material , a single layer of carbon atoms, stronger than diamond, yet lightweight and flexible
and an exceptional electricity conductor.

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

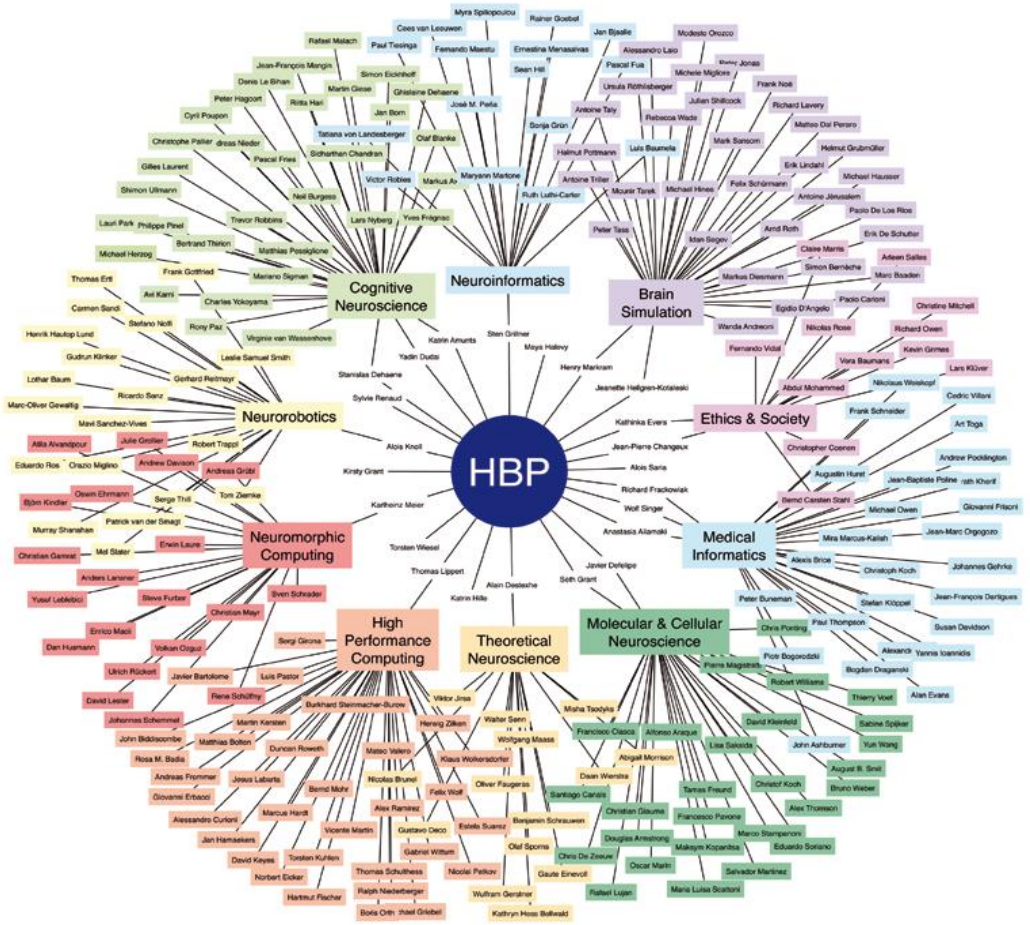
European Commission

HBP
The Human Brain Project

HBP will create the wold'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 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 – Inclusion

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: 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

Benefits of Partnerships - ICT

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**

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)

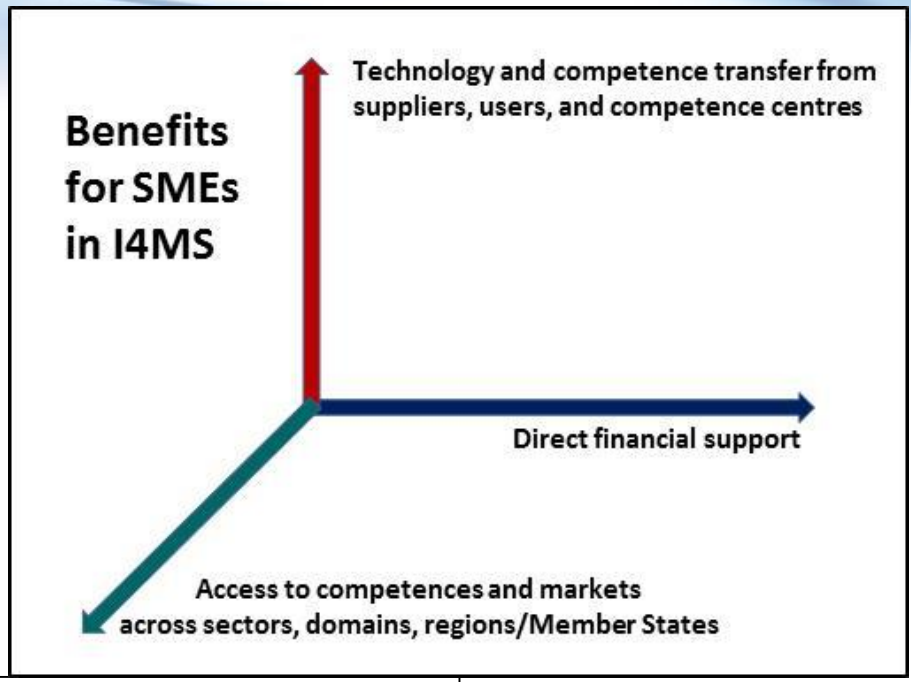
Funding opportunities through existing projects in FP7

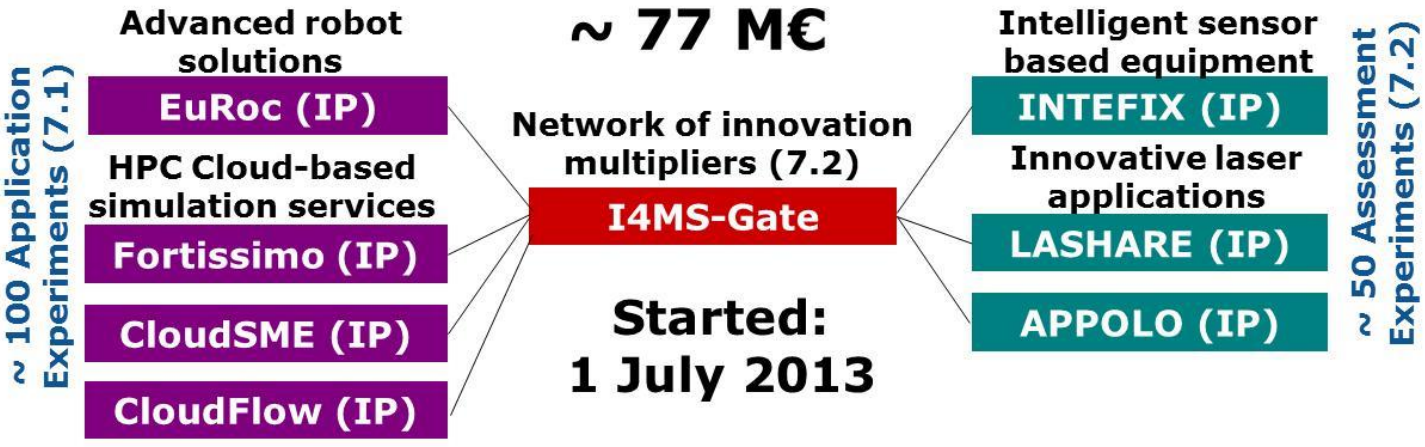
NEMZETI INNOVÁCIÓS HIVATAL

Obj. FoF9

I4MS: ICT Innovation I4MS – Phase II for Manufacturing SMEs

- 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

SME instrument

- **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

NEMZETI INNOVÁCIÓS HIVATAL

Partnerkeresés

Ideal-ist

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Your Worldwide ICT Support Network

Thu. 20/02/2014

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- Opportunity finder
- Find your Representative

Ideal-ist addresses ICT companies and research organizations worldwide wishing to find project partners for a participation in the Horizon 2020 program of the European Commission.
Ideal-ist offers a unique and quality-labelled Partner Search and other services helping to ease participation in Horizon 2020. Learn more About ideal-ist

Open calls

View All

- 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 proccess

- PS-NO-89154: Inclusive-MT
- PS-NO-89152: Inclusive-MT

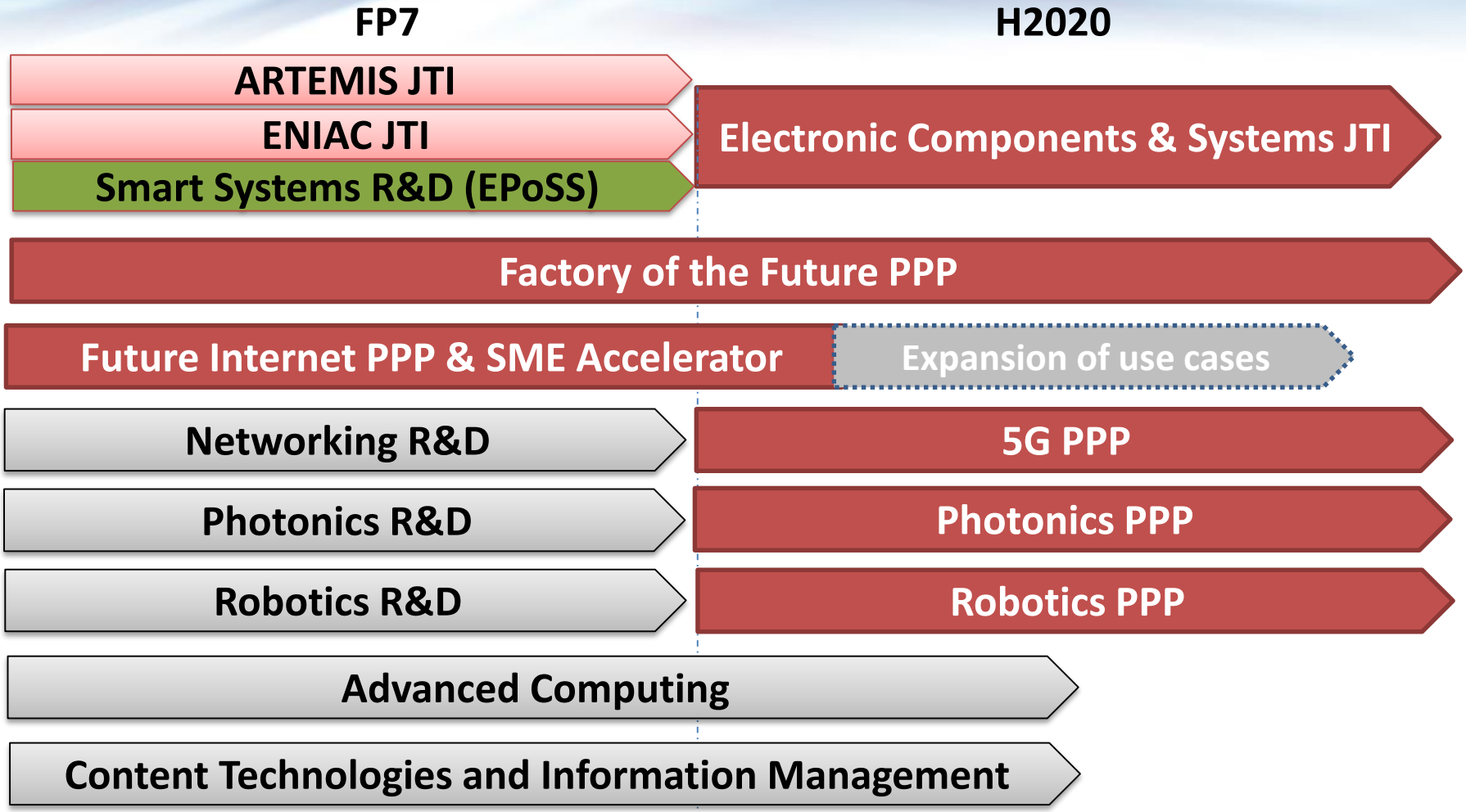
View All

ICT Events

View All

- European Data Forum 2014
- Future Internet Assembly

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€)

Individual ETPs: H2020-ban elismert ETP-k

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

Cross ETP Initiatives

Nanofutures

Industrial Safety

Rendezvények

- ICT Proposers Day

  Florence, Italy

  Oct 9-10, 2014

- FET Information Day (OPEN, HPC)

  Budapest, MTA

  June 25-26, 2014

Köszönöm figyelmüket!

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