



MINISTÈRE
DU REDRESSEMENT
PRODUCTIF



MINISTÈRE
DE L'ENSEIGNEMENT SUPÉRIEUR
ET DE LA RECHERCHE

Présentation générale

Les TIC dans Horizon 2020



Présentation générale TIC dans H2020 - 04/12/2013 - N° 1



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A decorative graphic in the top left corner consisting of nine yellow five-pointed stars arranged in a circular pattern, with one star positioned below the main cluster.

- 1. TIC H2020 dans le panorama du soutien public européen**
- 2. La participation française et européenne au 7ème PCRDT**
- 3. Les TIC dans le programme pour le « leadership » dans les technologies génériques et industrielles**
- 4. Le dispositif national d'accompagnement à H2020**
- 5. Table ronde**



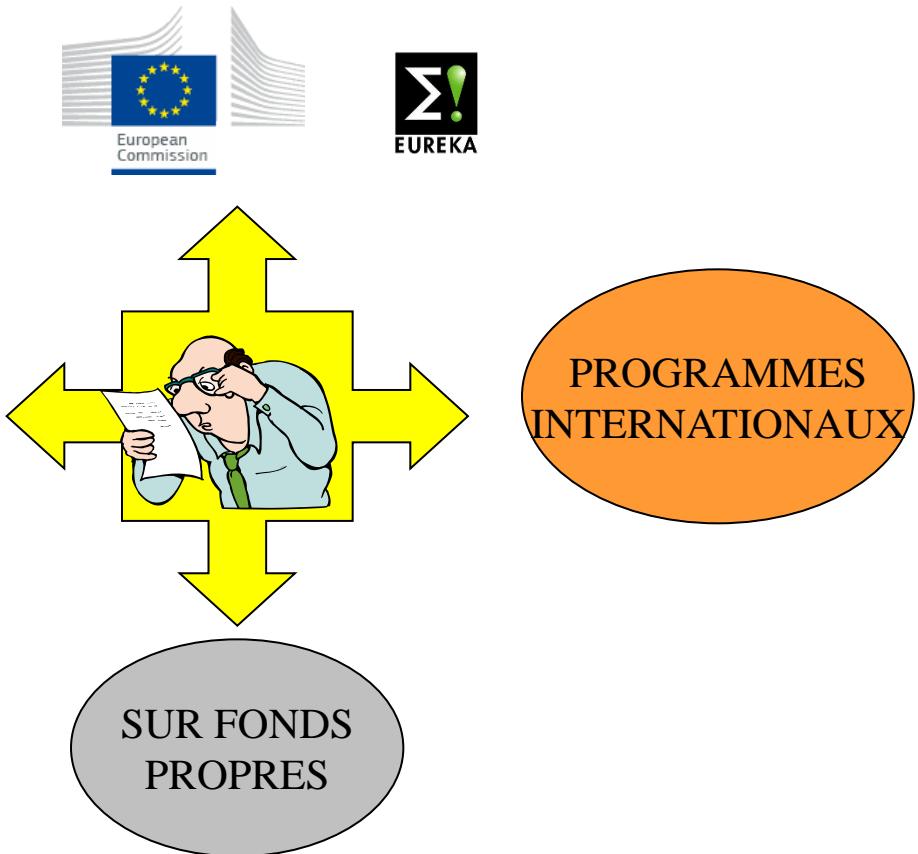
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5. Table ronde

Patrick SCHOULLER
(MRP DGCIS STIC) représentant au Comité de programme LEIT TIC

On ne fait pas un projet pour aller chercher des sous disponibles quelque part....

Mais on cherche si quelque part des financements peuvent aider à faire son projet...





FEDER R&D innovation

CIR + CICE

Aide BPI innovation

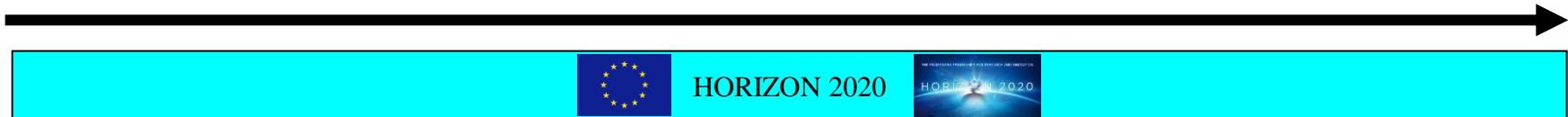
JEI

IDEE

RECHERCHE FONDAMENTALE

RECHERCHE INDUSTRIELLE

MARCHÉ



ANR BLANC

ANR THEMES

FUI Poles competitivies

EUREKA FIL DE L EAU



EUREKA CLUSTER



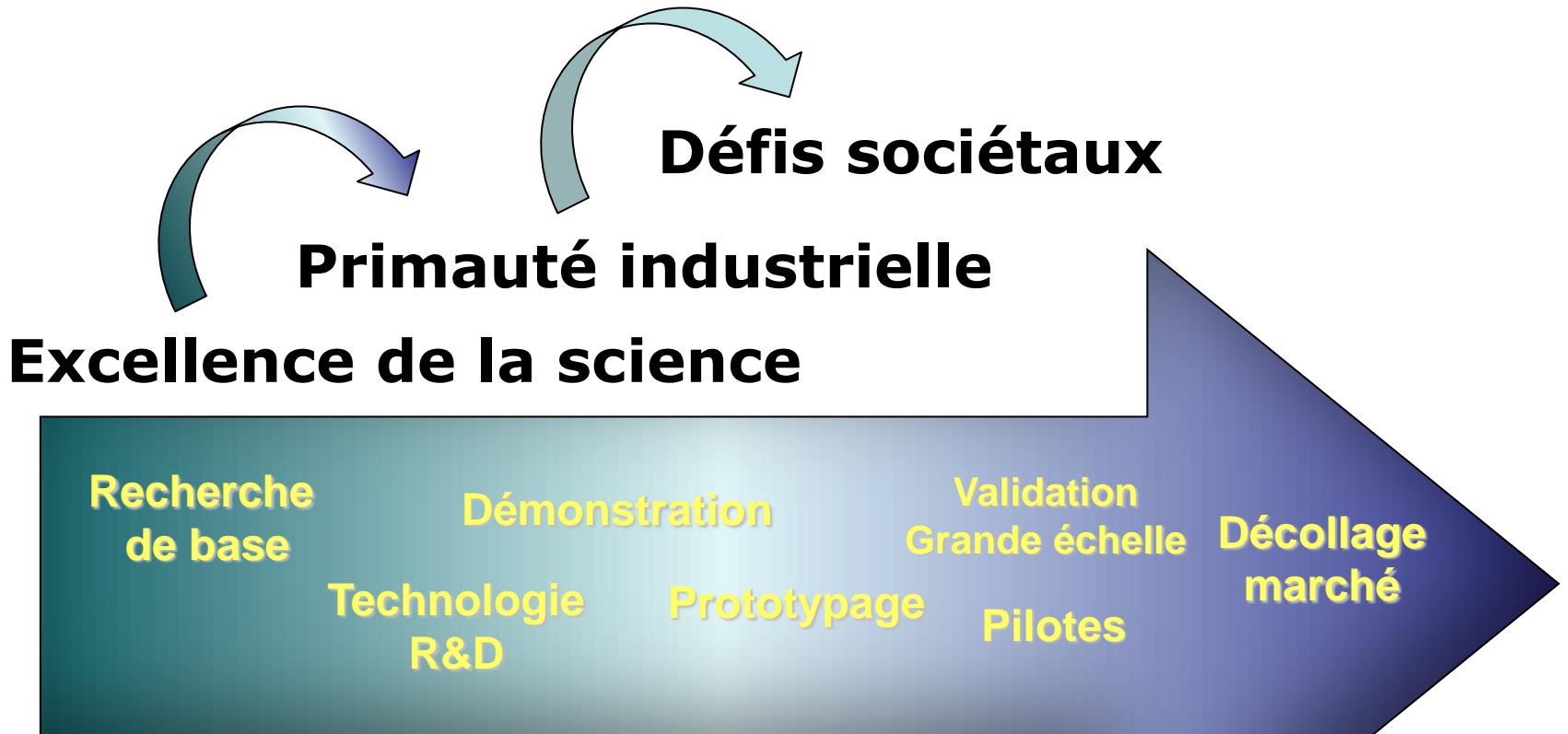
EUROSTARS



ECSEL



H2020 Couvre la chaîne entière de l'innovation et sa nouvelle structure offre des opportunités



Plusieurs modifications importantes

Un seul programme

Financements simplifiés

De nouveaux instruments

Moins d'administration

Plus de liberté dans projets

Plus de rapidité

Plus d'impact



Sommaire

A cluster of yellow stars of varying sizes, some with black outlines, arranged in a loose, upward-spiraling pattern.

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Frédéric LAURENT
(MESR) représentant au Comité de programme LEIT TIC

PCRTD: la problématique française

- La France est le 3^{ème} bénéficiaire du 7^{ème} PCRTD et ses résultats se dégradent (13% sur le 6^{ème} PCRTD, 11,5% à présent)
- Pour **chaque €** abondé par la France au budget du PCRTD (via le budget de l'UE), **seul 0,7 €** bénéficie aux équipes françaises!
- En comparaison, pour chaque € abondé par la Suisse au budget du PCRTD, 3€ bénéficient aux équipes suisses
- En consolidé sur le PCRTD, la France perd **~ 600 M€/an** de crédits RDI au bénéfice de ses partenaires (mais aussi compétiteurs) européens!
- ...à comparer aux ressources annuelles de l'ANR, du FUI...

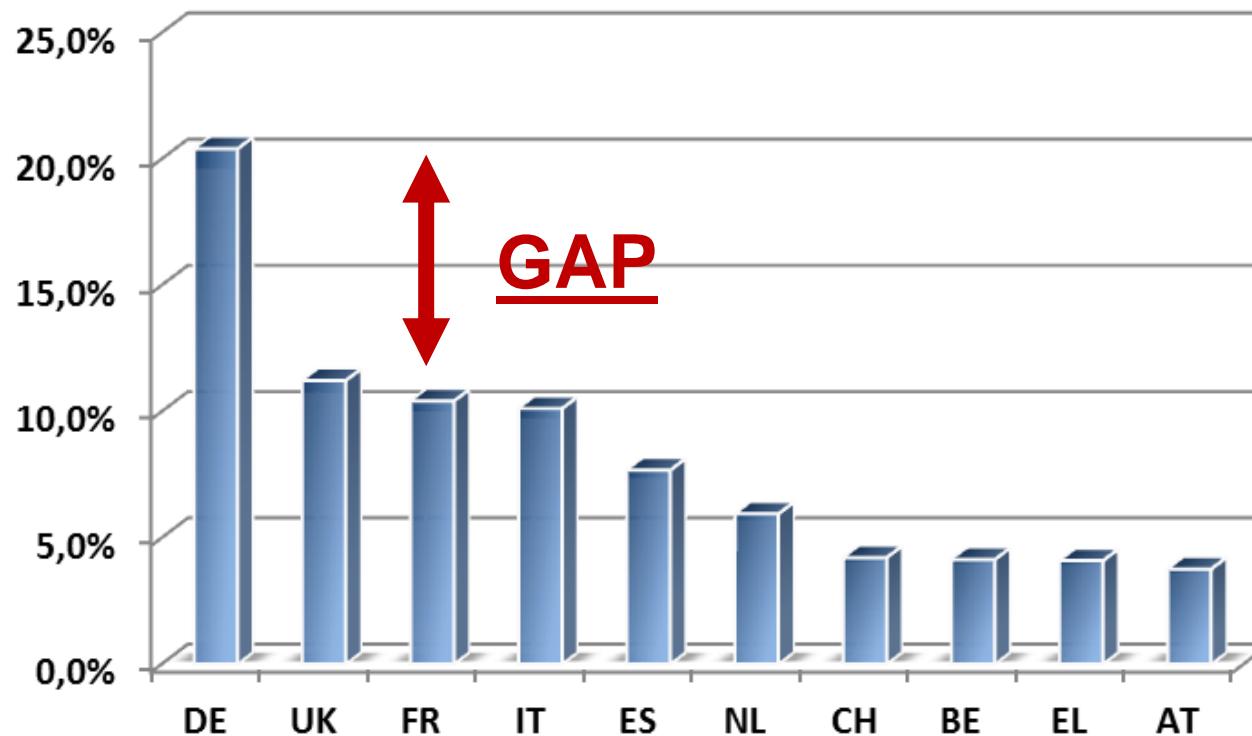
Nécessité de
remobiliser les équipes
nationales!



Europe et TIC: la problématique française (1)

- Une performance très contrastée...
 - FET: 10,9%
 - Technos cœur TIC: 11,2%
 - TIC pour les défis: 6,3%
 - ...mais qui se dégrade globalement
 - WP 2007-2008: 10,6%
 - WP 2009-2010: 9,3%
 - WP 2011-2012: 9,6%
 - WP 2013: 8,8%
 - Sur la base d'un budget TIC 2013 de 1,5 G€, cela correspond à un déficit supérieur à 100 M€/an
- ...avec participation faible
 - FET: 8,8%
 - Technos cœur: 9,2%
 - TIC pour les défis: 5,3%
 - ...et en forte baisse!
 - 8,9%
 - 8,2%
 - 8%
 - 6,2%

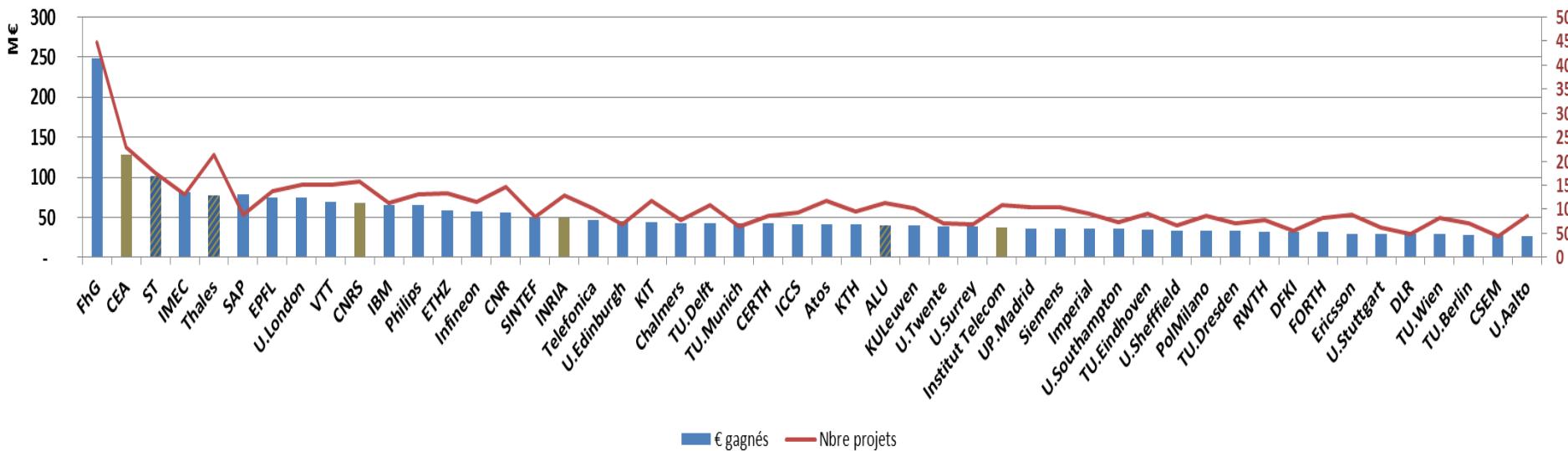
Europe et TIC: la problématique française (2)



Retour FR de 10,4% vs. 20,4% pour DE

Europe et TIC: la problématique française (3)

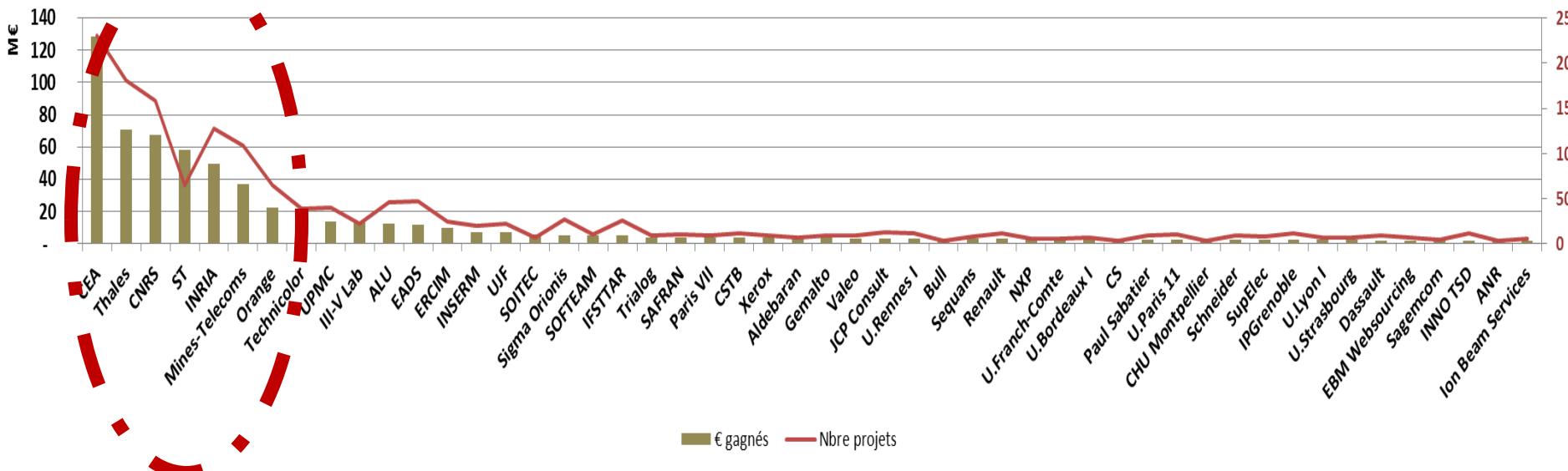
Les grands bénéficiaires européens



Plusieurs acteurs FR dans le Top 50

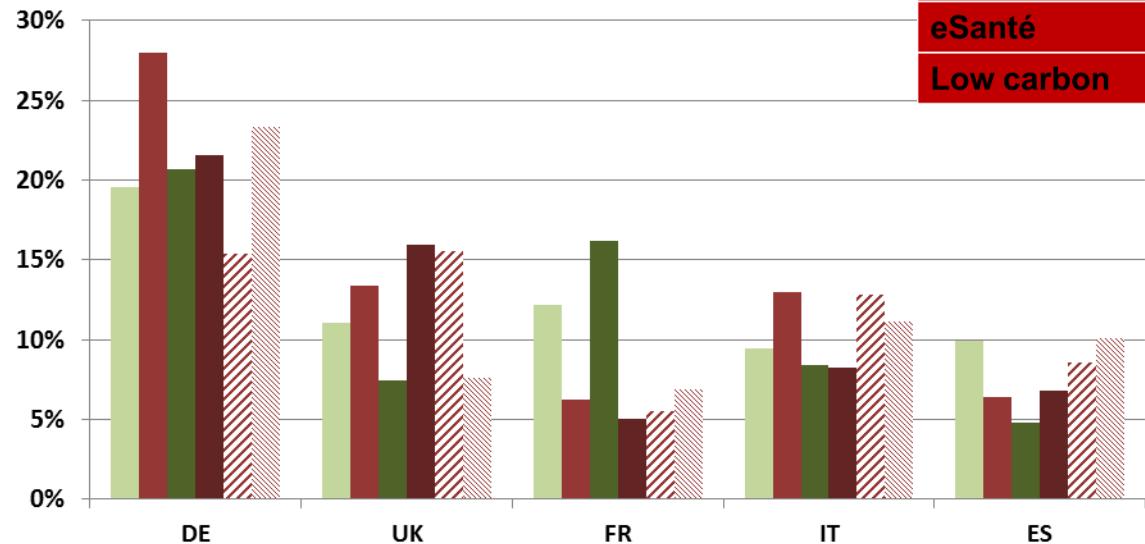
Europe et TIC: la problématique française (4)

Les grands bénéficiaires nationaux



Une forte concentration

Europe et TIC: la problématique française (5)



■ Télécoms
■ Robotique
■ Composants & Systèmes
■ Contenus
■ eSanté
■ Low Carbon

Une position très contrastée de la France
en fonction des secteurs

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Khalil ROUHANA
(Commission européenne) Directeur à la DG CONNECT

Les transparents de Khalil



ICT in HORIZON 2020

**The New EU
Framework Programme for
Research and Innovation**

2014-2020



*Khalil Rouhana
Director, Components and systems
DG CONNECT, European Commission*

Horizon 2020

HORIZON 2020



The Multiannual Financial Framework 2014-2020:

European Council conclusions, 8 February 2013

Key challenge: stabilise the financial and economic system while taking measures to create economic opportunities

1. Smart & inclusive growth (€451 billion)



2. Sustainable growth, natural resources (€373 billion)

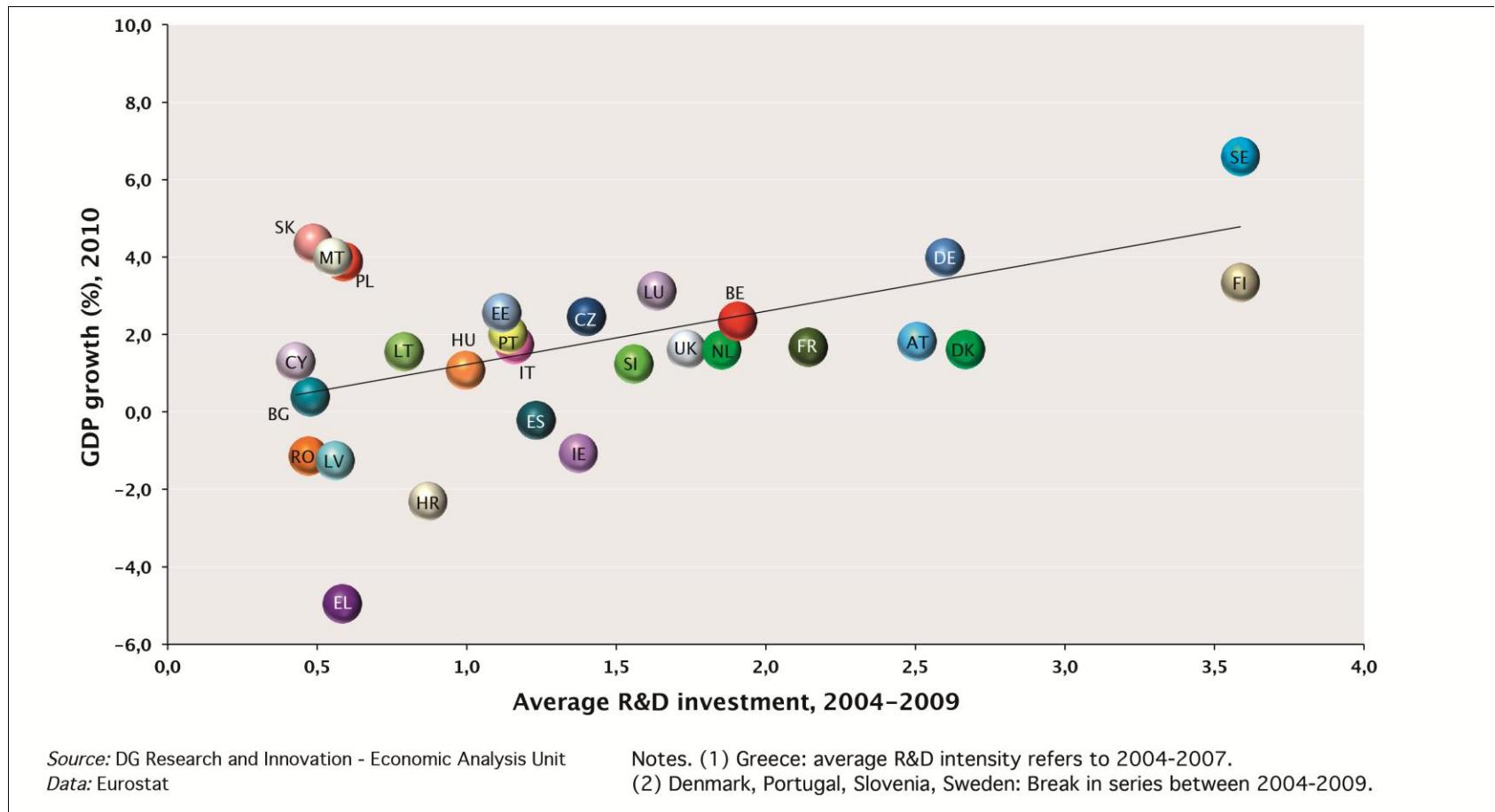
3. Security and citizenship (€16 billion)

4. Global Europe (€58 billion)

5. Administration (€61.6 billion)

**TOTAL
€960 billion**

Investment in R&D is part of the solution to exit from the economic crises



What is Horizon 2020



- **Initial Commission proposal for a €80 billion research and innovation funding programme (2014-2020); now just over €70 billion**
 - ✓ (in 2011 Constant prices, ~78 B€ in current prices)
- **A core part of Europe 2020, Innovation Union & European Research Area:**
 - Responding to the economic crisis to invest in future jobs and growth
 - Addressing people's concerns about their livelihoods, safety and environment
 - Strengthening the EU's global position in research, innovation and technology

What's new



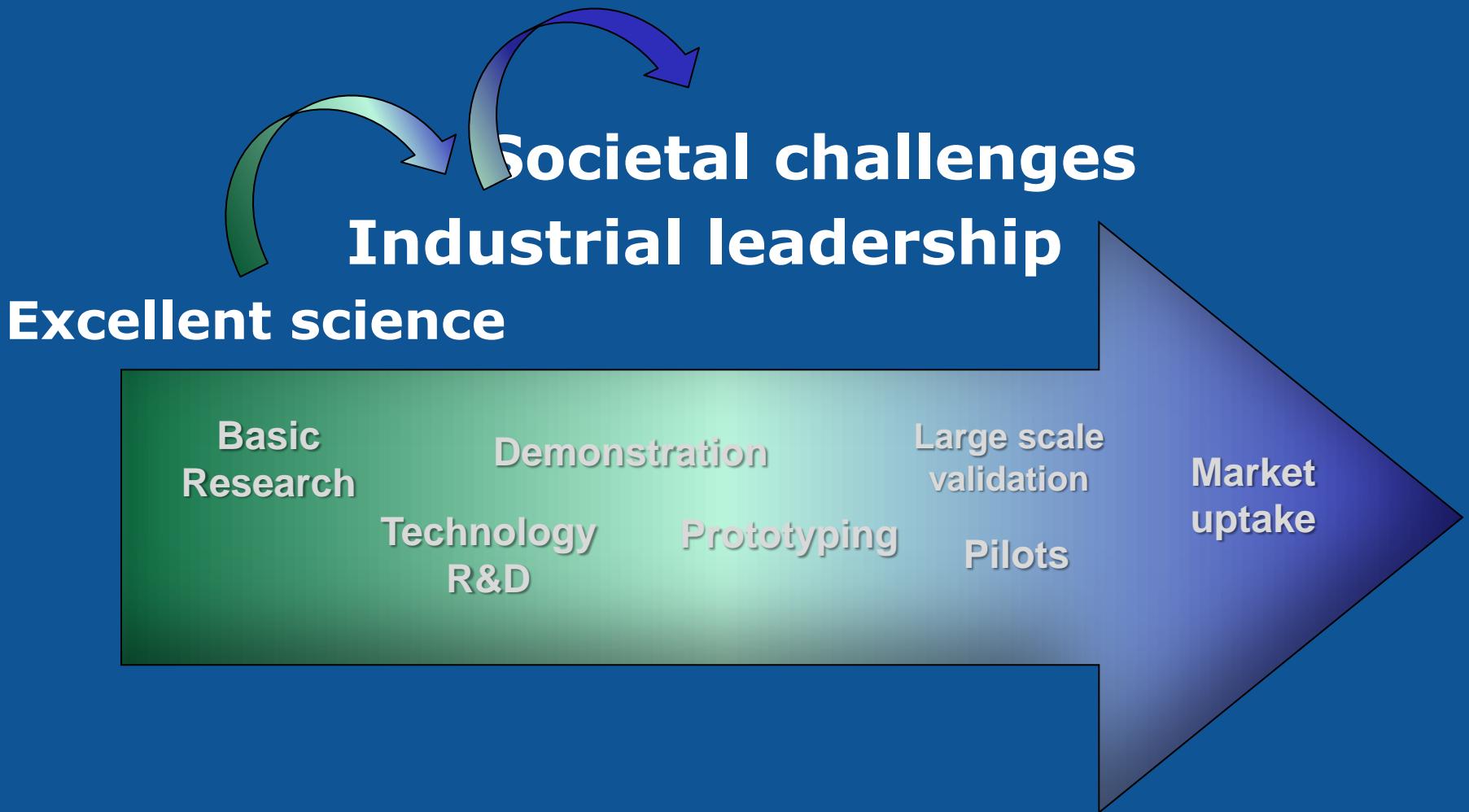
- **A single programme** bringing together three separate programmes/initiatives*
- **Coupling research to innovation** – from research to retail, all forms of innovation
- **Focus on societal challenges** facing EU society, e.g. health, clean energy and transport
- **Emphasises Key Enabling Technologies**
- **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)

Three priorities



Coverage of the full innovation chain



Three priorities



Priority 1. Excellent science

- **Why:**
- World class science is the foundation of tomorrow's technologies, jobs and wellbeing
- Europe needs to develop, attract and retain research talent
- Researchers need access to the best infrastructures



Proposed funding (€ million, 2014-2020)*

<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 (including e-infrastructure)</i> Ensuring access to world-class facilities	2 488

Priority 2. Industrial leadership

- **Why:**
- Strategic investments in key technologies
 - (e.g. advanced manufacturing, micro-electronics, photonics) underpin innovation across existing and emerging sectors
- Europe needs to attract more private investment in research and innovation
- Europe needs more innovative small and medium-sized enterprises (SMEs) to create growth and jobs

Proposed funding (€ million, 2014-2020)

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

Priority 3. Societal challenges

- **Why:**
- Concerns of citizens and society/EU policy objectives (climate, environment, energy, transport, etc) cannot be achieved without innovation
- Breakthrough solutions come from multi-disciplinary collaborations, including social sciences & humanities
- Promising solutions need to be tested, demonstrated and scaled up

Proposed funding (€ million, 2014-2020)

Health, demographic change and wellbeing	7 472
Food security, sustainable agriculture and forestry, marine and maritime and inland water research and the Bioeconomy	3 851
Secure, clean and efficient energy *	5 931
Smart, green and integrated transport	6 339
Climate action, environment, resource efficiency and raw materials	3 081
Inclusive, innovative and reflective societies	1 310
Secure societies	1 695
<i>Science with and for society</i>	462
<i>Spreading excellence and widening participation</i>	816

* Additional funding for nuclear safety and security from the Euratom Treaty activities (2014-2018)

Horizon 2020 and partnering



Public private partnerships:

- Through Joint Technology Initiatives or other formal structures (Art. 187)
- Through contractual agreements, which provide inputs for work programmes
- Only when criteria met, e.g. clear commitments from private partners

Public public partnerships:

- Through « ERA-Nets » for topping up individual calls/actions (replacing current ERA-Net, ERA-Net Plus, Inco-Net, Inno-net)
- Through participation in joint programmes between Member States (Art. 185)
- Supporting agendas of Joint Programming Initiatives when in line with Horizon 2020
- Only when criteria met, e.g. financial commitments of participating countries

European Innovation Partnerships:

- Not funding instruments, but for coordination with broader policies and programmes

Innovation Investment Package



€22 billion Innovation Investment Package

Joint Technology Initiatives (under Article 187)

- Innovative Medicines Initiative 2
- Clean Sky (Aeronautics) 2
- Fuel Cell and Hydrogen 2
- Bio-based Industries
- Electronic components and systems

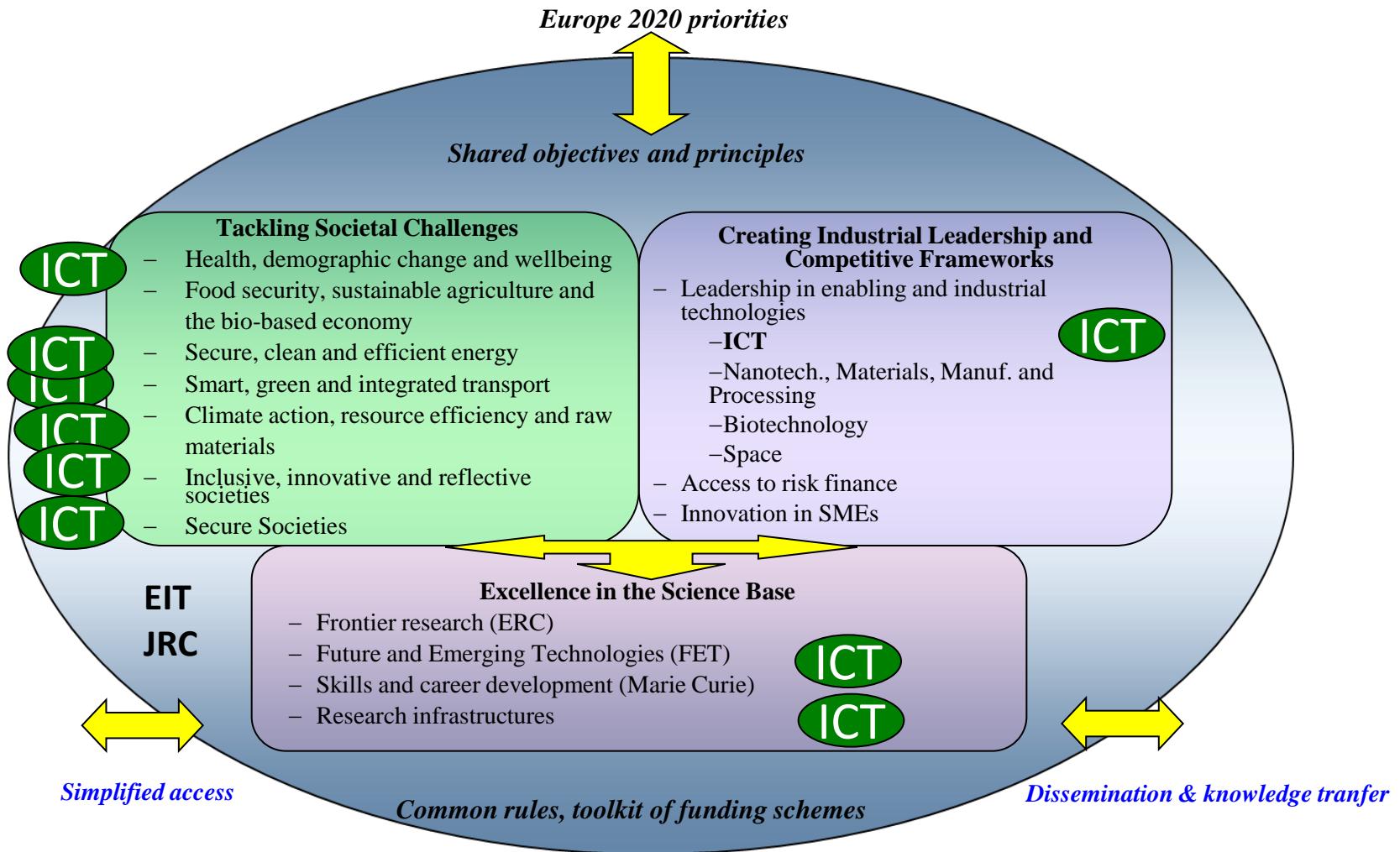
Joint programmes (under Article 185)

- European and Developing Countries Clinical Trials Partnership (EDCTP) 2
- European Metrology Research Programme 2
- Eurostars (for SMEs) 2
- Active and Assisted Living 2

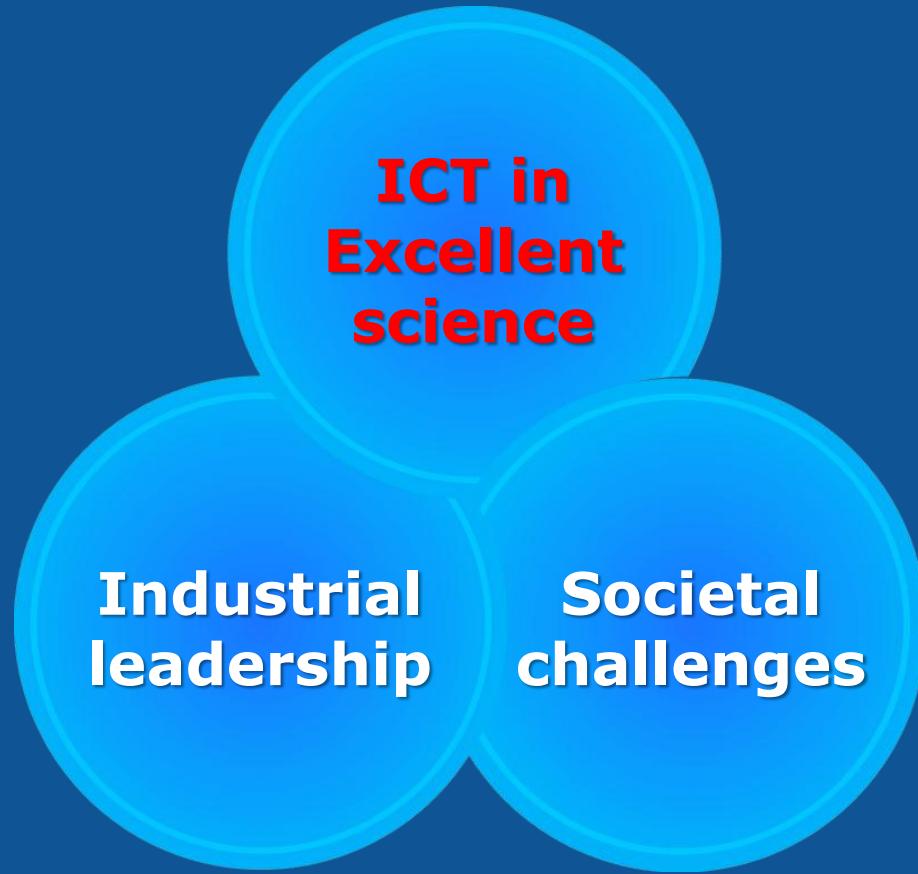
ICT in Horizon 2020

HORIZON 2020

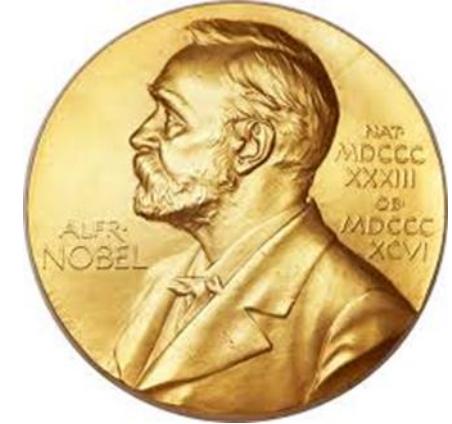




ICT in Excellent Science



Excellent Science - ICT



- **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

- **Research infrastructures**

- Developing the European research infrastructure for 2020 and beyond
 - **Development, deployment and operation of ICT-based e-infrastructures**

Future and Emerging Technologies (FET) / 2014-2015 (overall budget 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

- 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

(overall budget 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€)

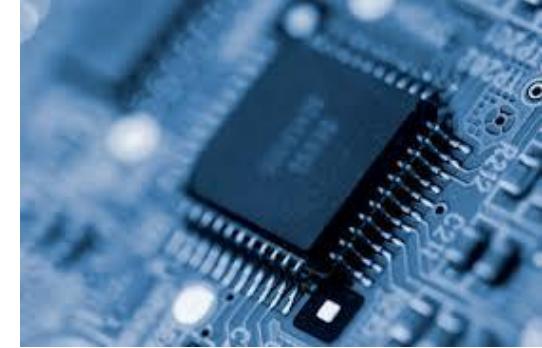


- Pan-European High Performance Computing infrastructure and services
- Centres of Excellence for computing applications
- Network of HPC competence centres for SMEs

ICT in Industrial Leadership (LEIT)



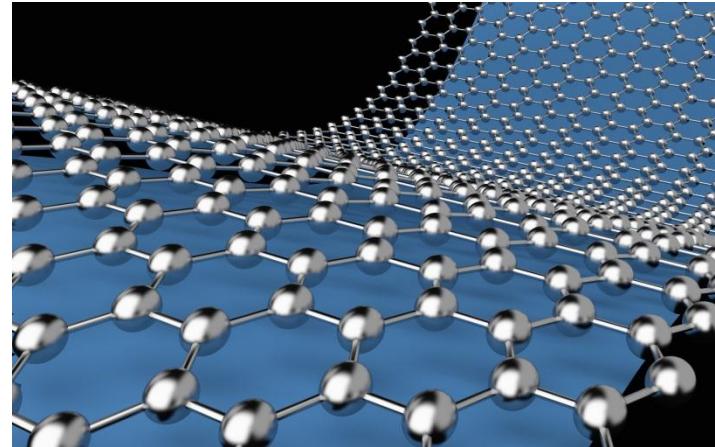
Industrial Leadership - ICT



- **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 (overall budget 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 (overall budget 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 (overall budget 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€)

Content technologies and information management / 2014-2015 (overall budget 260 M€)

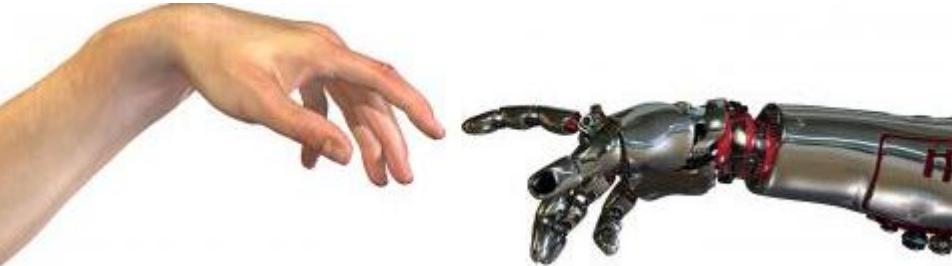
- **Addresses:**

- **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:**

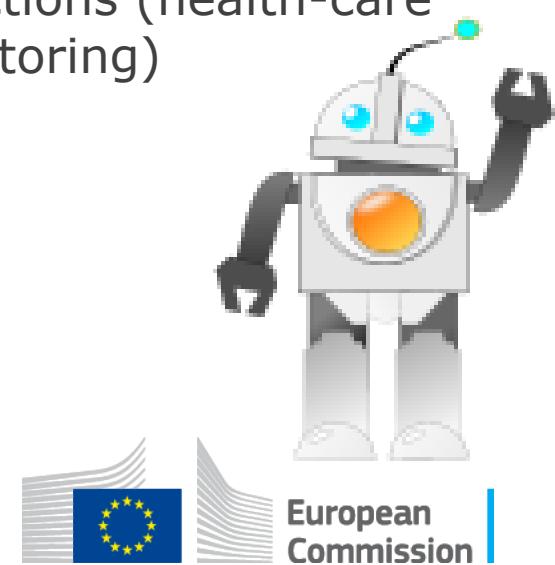
- Big data and Open Data innovation and take-up (50 M€)
- Big data research (39 M€)
- Cracking the language barrier (15 M€)
- Support to the growth of ICT innovative creative industries SMEs (15 M€)
- Technologies for creative industries, social media and convergence (41 M€)
- Technologies for better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





Robotics / 2014-2015 (overall budget 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 (overall budget 206 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)
 - Warning: still subject to Commission Decision ◀

Factory of the Future / 2014-2015

(overall budget 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



► Warning : still subject to Commission Decision ◀

International cooperation actions / 2014-2015

(overall budget 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
 - Acces networks for densely located users
 - Experimentation and development on federated Japan-EU testbeds



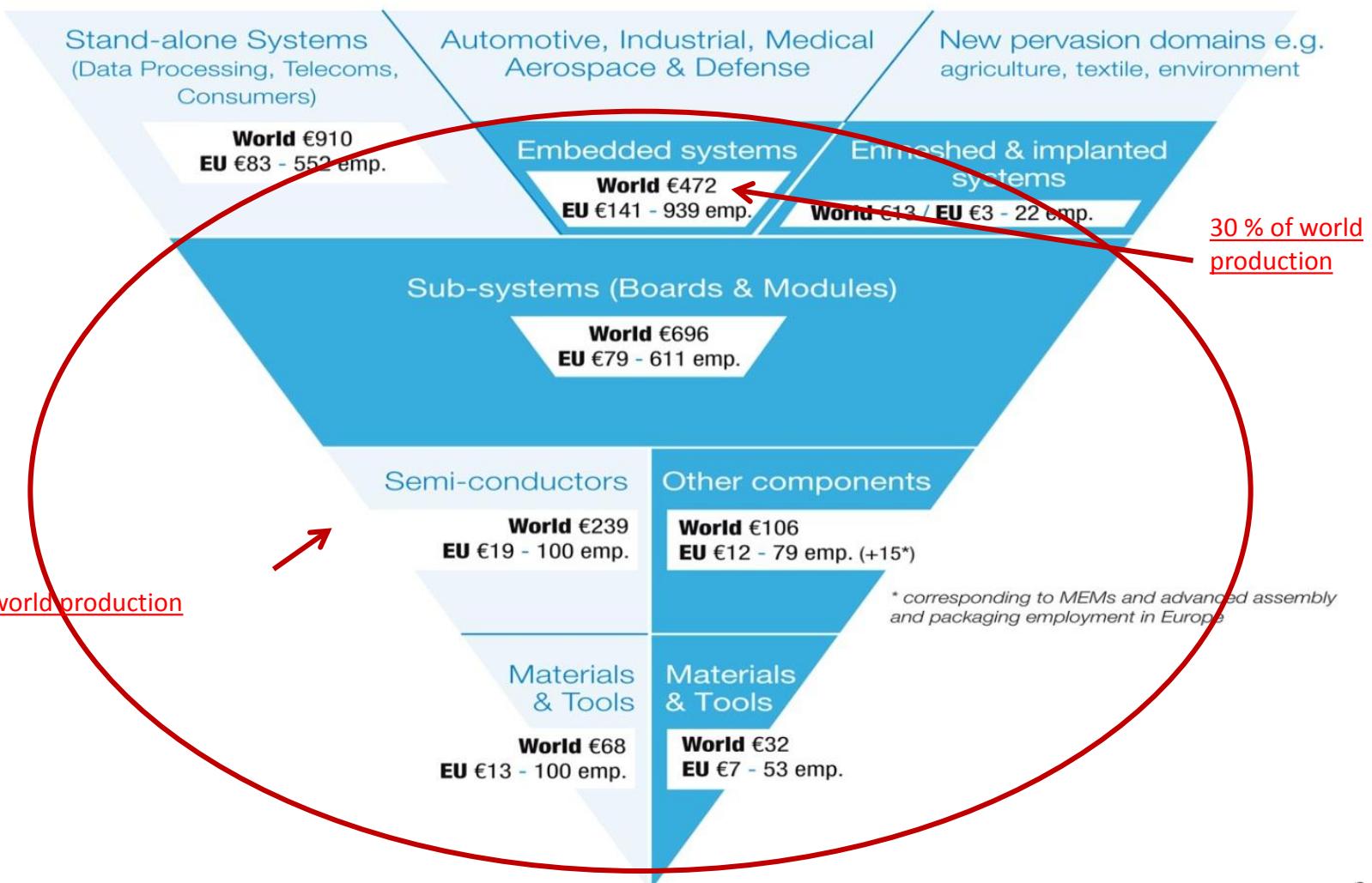
- International partnership building and support to dialogues with high income countries (USA, Canada, East Asia and Oceania) (3 M€)
 - International partnership building in low and middle income countries (11 M€)



Towards Industrial Strategies boosting impact

Role of the PPPs (JTIs and cPPPs)

Example: Component and systems





H2020 – LEIT – ICT, Components and systems

HORIZON 2020

Excellent Science/ FET ("Graphene Flagship")



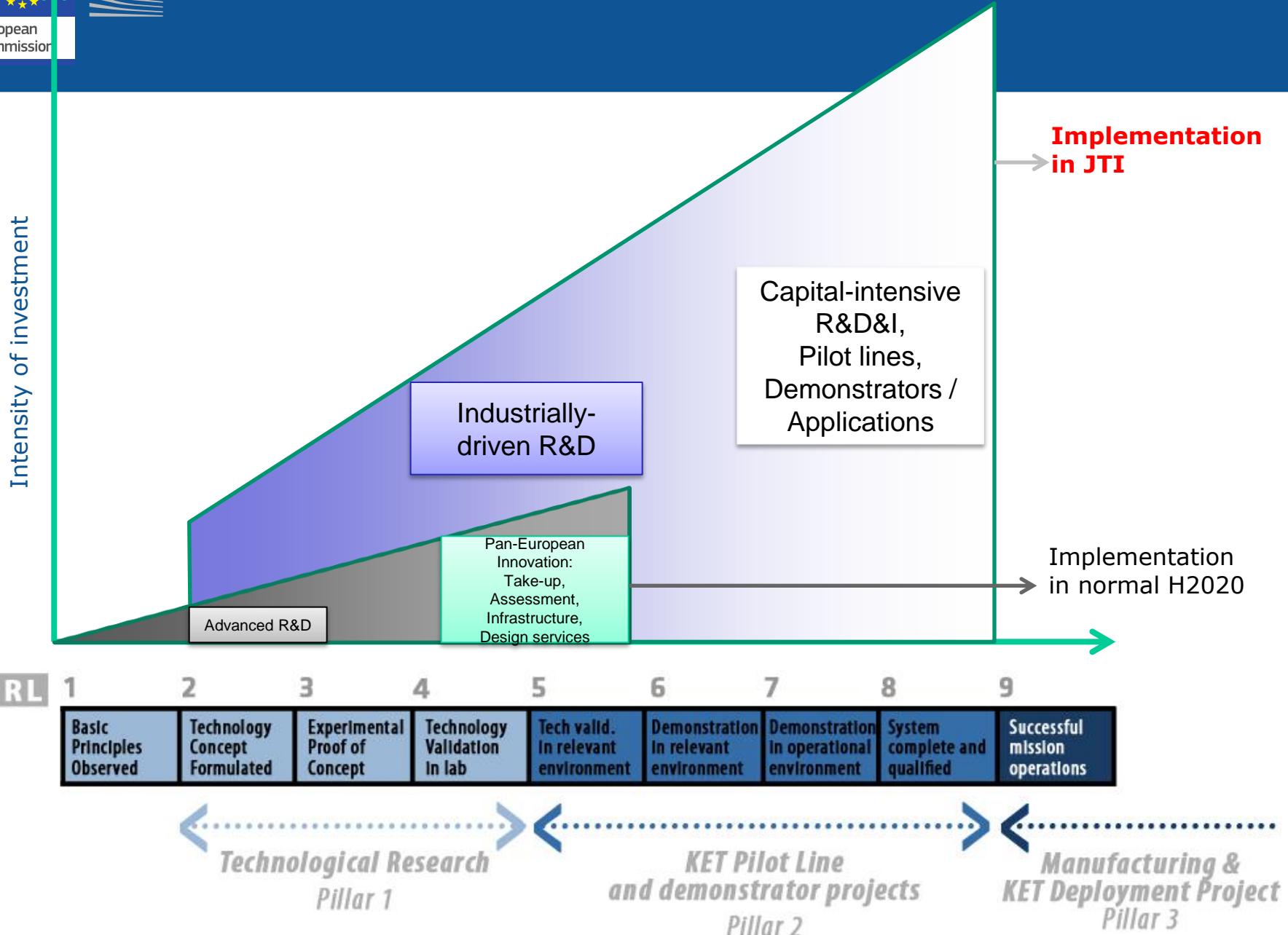
European
Commission



"Graphene Flagship")



Focus: High TRLs, Large scale Pilots, demos



ICT in Societal Challenges



Societal Challenges - ICT

- **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**



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, resource efficiency and raw materials	745	26	3,5%
Innovative, inclusive and reflective societies	310	82	26%
Secure societies	393	100	25%

Health, demographic change and wellbeing / 2014-2015 (overall budget 269)

- **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 (overall budget 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 (overall budget 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 (overall budget 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

(overall budget 82 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

(overall budget 100 M€)

- **Digital security: cybersecurity, privacy and trust**

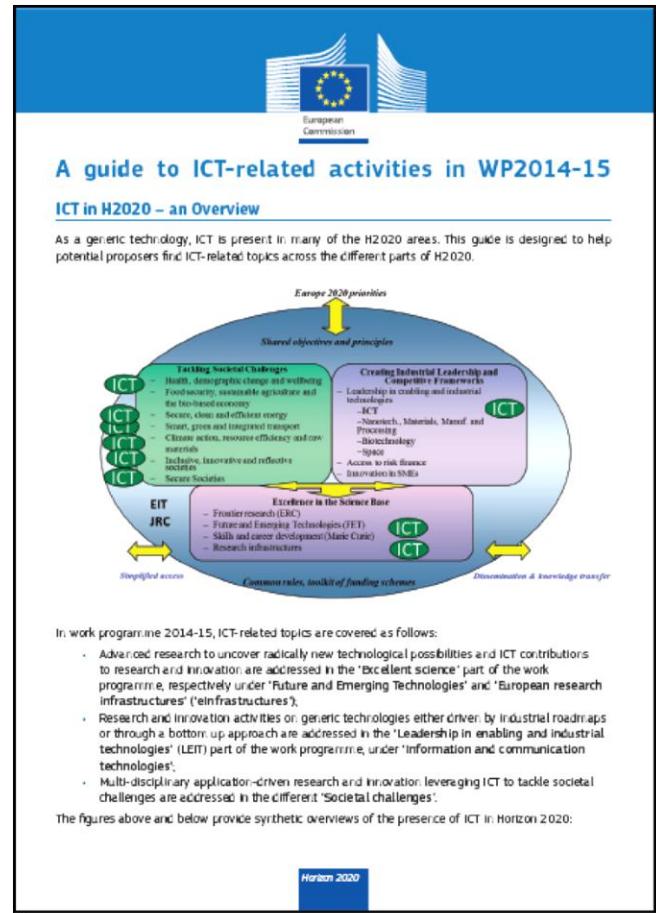
- Protecting our society by providing sustained **trust in the usage of ICT** and in securing the ICT underlying our digital society
- **Preventing cyber-attacks** on any component of the digital society
- **Ensuring freedom and privacy in the digital society**, protecting the fundamental values of our 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

Description of the topics

- 3 key features
 - **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

Guide to the presence of ICT in H2020

- **Comprehensive coverage of all three H2020 pillars**
- **Detailed list of calls and topics**
- **Detailed budget allocation and call deadlines not provided yet**



Call planning overview (indicative)

- LEIT
 - **H2020-ICT-2014 (ICT Call 1)**
 - Publication date: 11 December 2013
 - Deadline: **23 April 2014** (all topics except 5G Future Internet)
 - Deadline for 5G Future Internet: **25 November 2014**
 - **H2020-FoF-2014/2015 (Factory of the Future)**
 - Publication date: 11 December 2013
 - Deadlines: **20 March 2014** and **9 December 2014**
 - **H2020-EUJ-2014 (EU-Japan Call)**
 - Publication date: 7 January 2014
 - Deadline: **10 April 2014**
 - **H2020-ICT-2015 (ICT Call 2)**
 - Publication date: 15 October 2014
 - Deadline: **14 April 2015**
 - **H2020-EUB-2015 (EU-Brazil Call)**
 - Publication date: 15 October 2014
 - Deadline: **21 April 2015**

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
(recognition or inducement prizes)

- **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

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

Grant preparation and signature

• Time to Grant

- 5 months for informing applicants on outcome of scientific evaluation
- 3 months for signature of GA = grant finalisation process

Simplified Funding Model

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%)

Up to 70% for PCP co-fund, 33% for ERANET co-fund, 20% for PPI co-fund

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**

Simplification: summary



- **Single set of simpler and more coherent participation rules**
- New **balance between trust and control**
- Moving from several **funding rates** for different beneficiaries and activities to just two
- Replacing the four methods to calculate overhead or «indirect costs» with a **single flat rate**
- Major simplification under the **forthcoming financial regulation**
- **Successful applicants to get working more quickly:** time-to-grant of 8 months; exceptions for the ERC and in duly justified cases

Strong participation by SMEs

- **Integrated approach** - around 20% of the total budget for societal challenges and LEITs to go to SMEs
- **Simplification** of particular benefit to SMEs (e.g. single entry point)
- A **new SME instrument** will be used across all societal challenges as well as for the LEITs
- A dedicated activity for research-intensive SMEs in '**Innovation in SMEs**'
- '**Access to risk finance**' will have a strong SME focus (debt and equity facility)

SME Instrument

For single SMEs or SME consortia

- Phase 1: Feasibility study verifying the technological/practical as well as economic viability of an innovation idea
- Phase 2: Innovation projects that demonstrate high potential in terms of company competitiveness and growth underpinned by a strategic business plan.

Phase 2 proposals should be based on a strategic business plan either developed through phase 1 or another means



HORIZON 2020

Merci pour votre attention!

Pour savoir plus:
www.ec.europa/research/horizon2020



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- 2. La participation française et européenne au 7ème PCRDT**
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- 4. Le dispositif national d'accompagnement à H2020**
- 5. Table ronde**

Claire FERTE
(UBIFRANCE) Point de Contact National du programme TIC

Les transparents de Claire



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Présentation générale TIC dans H2020 - Date 12/2013 - 82N° 82



Les missions et outils

"Nos Missions" :

- Informer et sensibiliser sur les opportunités offertes par H2020 (AAP, règles de base).
- Accompagner dans le montage de projets (éligibilité, pertinence) – animation atelier: lecture d'ESR, relecture de l'abstract.
- Soutenir la recherche de partenaires européens (diffusion offres/demandes - réseau PCN - Ideal-ist).
- Intermédiaire auprès du Ministère de la recherche française.

"Outils" :

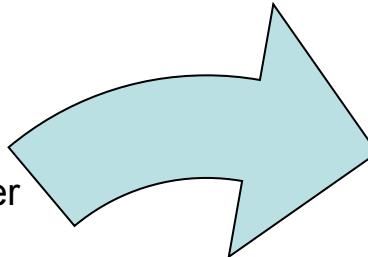
- ✓ journées d'information, sessions thématiques
- ✓ site horizon2020.fr, mailings
- ✓ rendez-vous personnalisés
- ✓ atelier « corporate »
- ✓ hotline
- ✓ faciliter la mise en relation :
- ✓ journée de mise en réseau
- ✓ réseaux transnationaux de PCN.
- ✓ remonter les informations recueillies auprès des participants potentiels.

Recherche de partenaire



Etape 1

S'enregistrer et insérer
une **recherche
de partenaires** (PS)

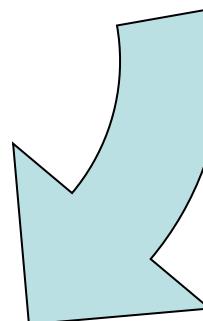
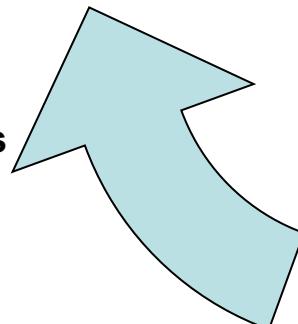


Etape 2

Validation de la
recherche par le **PCN**
et par l'**équipe Qualité**

Etape 4

Choix du ou des
partenaires selon les
Expressions d'intérêts



Etape 3

Publication et distribution
de la recherche par les
PCN à leur abonnés



LE SITE INTERNET FRANCAIS

<http://www.horizon2020.gouv.fr>



LE SITE DE LA COMMISSION

http://ec.europa.eu/research/horizon2020/index_en.cfm



Prochains rendez-vous

En France:

- **SESSION: Industries créatives et aux Jeux - le 16 décembre 2013 à Paris.**
 - ICT 18 – 2014: Support the growth of ICT innovative Creative Industries SMEs.
 - ICT 21 – 2014: Advanced digital gaming/gamification technologies.

Au Luxembourg et à Bruxelles

- Journées d'information et de réseautage « **ROBOTIQUE** » - 13 et 14 janvier 2014
 - Luxembourg
- Journée d'information et de réseautage « **PHOTONIQUE** » - 16 janvier 2014 - Bruxelles
- Journées d'information et de réseautage « **BIG DATA** » et « **LANGUAGES TECHNOLOGIES** » - 15 & 16 janvier 2014 - Luxembourg
- Journée d'information et de réseautage « **FET-Proactive** » - 20 janvier 2014 - Bruxelles



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Gilles CASANOVA – David CHER - Denis MAZEROLLE - Pierre SIMAY – Petra KOUDELKOVA – Patrick SCHOULLER
Le point de vue des acteurs



TABLE RONDE

Denis
MAZEROLLE



David
CHER



Gilles
CASANOVA



Petra
KOUDELKOVA



Patrick
SCHOULLER



direction générale de la compétitivité
de l'Industrie et des services

Pierre
SIMAY



MERCI DE VOTRE ATTENTION

