

H2020

LEIT ICT WP2014-15

podľa

Morten Møller, DG CONNECT

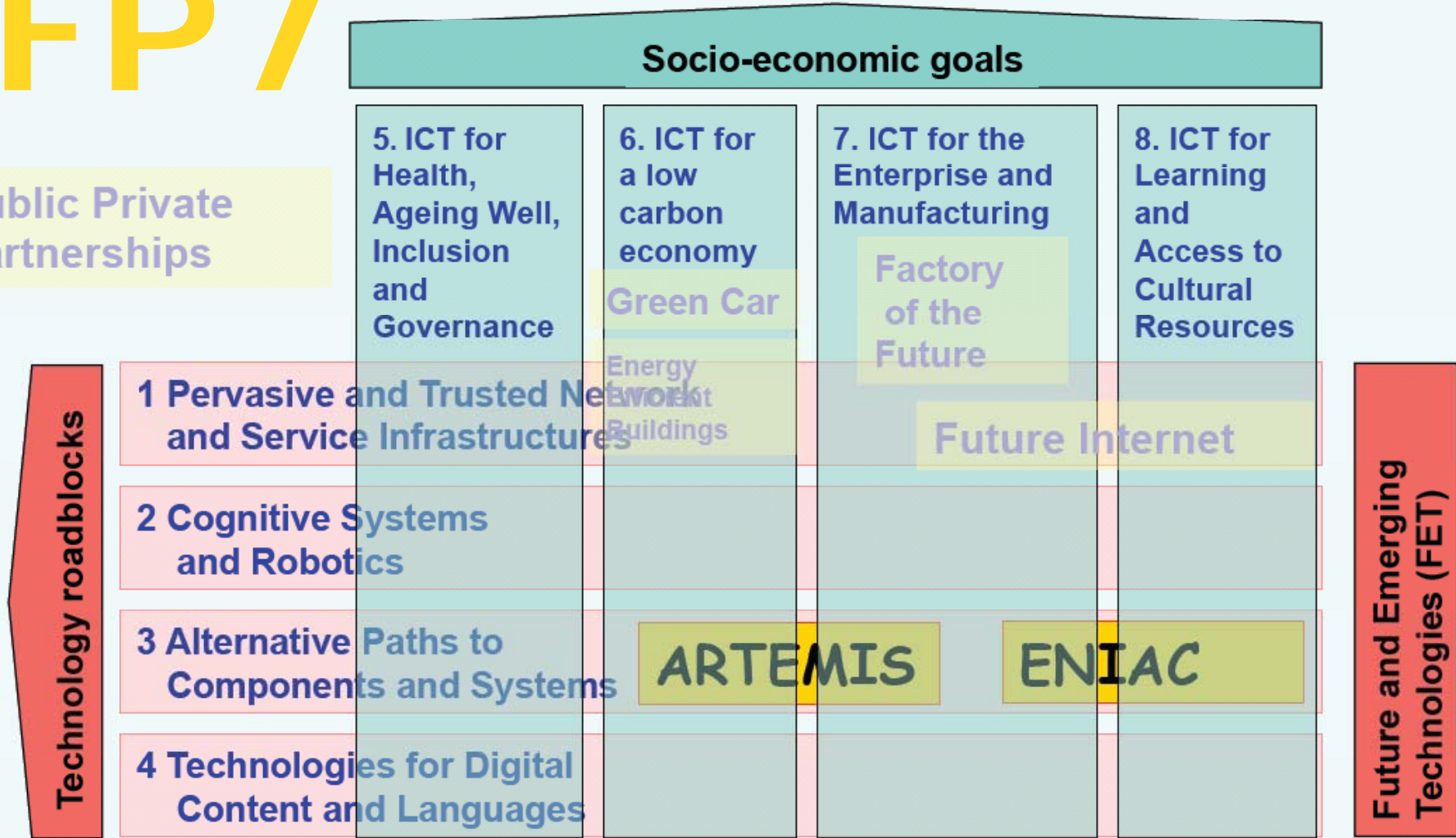


HORIZON 2020



FP7

Public Private Partnerships



H 2020

Excellent
Science

Industrial
leadership

Societal
challenges

Horizon 2020 programme sections

Excellent Science

- European Research Council
- Future and Emerging Technologies
- Marie Skłodowska-Curie actions
- European Research Infrastructures

Industrial Leadership

- Leadership in Enabling and Industrial Technologies
- Information and Communication Technologies
- Nanotechnologies, Advanced Materials, Advanced Manufacturing and Processing, and Biotechnology
- Space

Societal Challenges

- 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

ICT

Europe 2020 priorities

International cooperation

European Research Area

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

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

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EIT
JRC

Excellence in the Science Base

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

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Simplified access

Dissemination & knowledge transfer

Common rules, toolkit of funding schemes

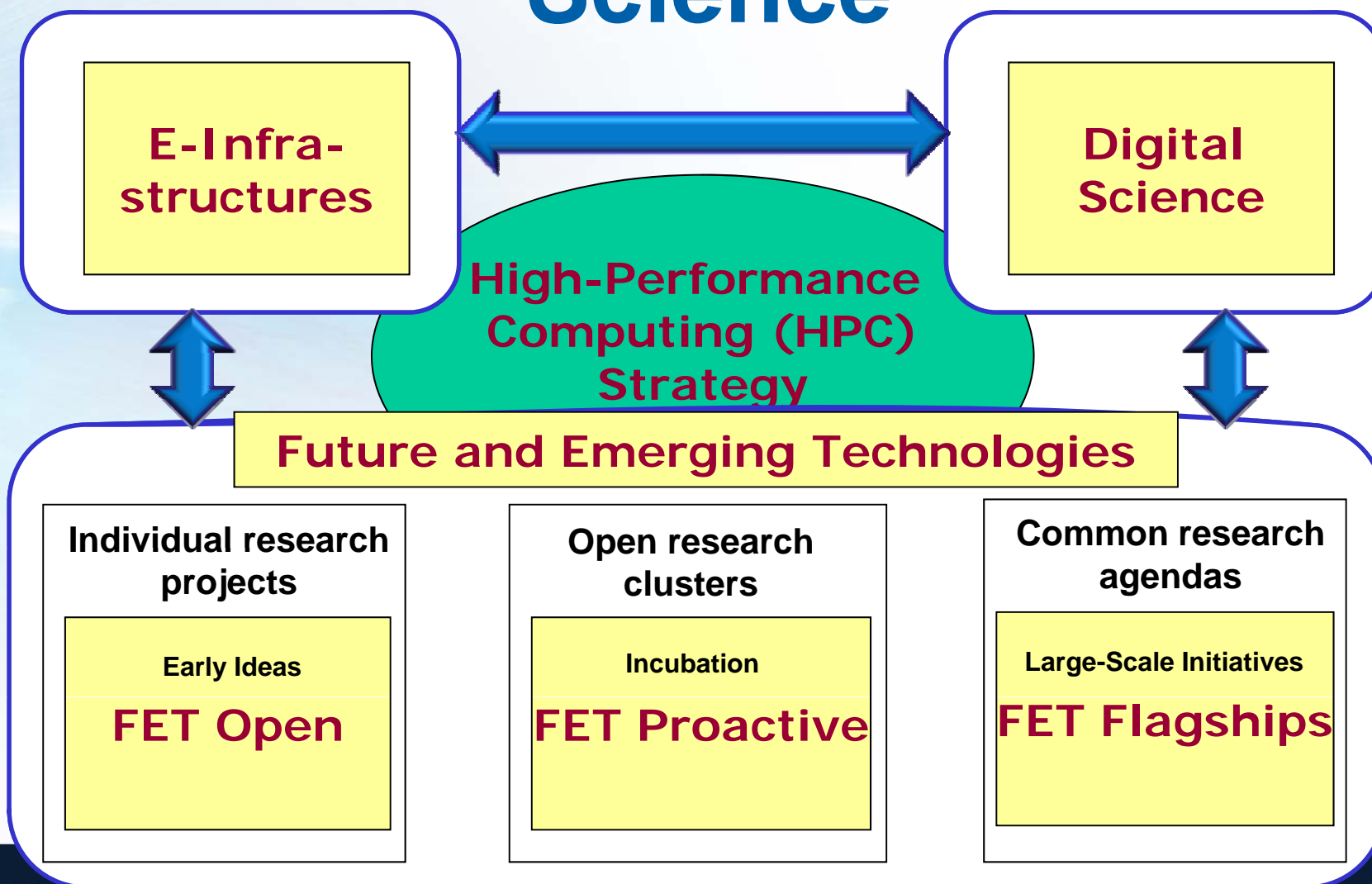


EUROPEAN
COMMISSION

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ICT in Excellent Science



Draft Workprogramme Objectives

Future and Emerging Technologies Calls

FET Open

FET OPEN 1 2014/2015: FET - Open Research projects	77	77
FET OPEN 2 2014: Cordination & Support Activities 2014	3	
FET OPEN 3 2015: Cordination & Support Activities 2015		3

FET Proactive

FETPROACT 1 2014: Global Systems Science (GSS)	10	
FETPROACT 2 2014: Knowing, doing, being: cognition beyond problem solving	15	
FETPROACT 3 2014: Quantum simulation	8	2

Call FET Proactive towards exascale high performance computing

2014: HPC Core Technologies, Programming FETHPC-1 Environments and Algorithms for Extreme Parallelism and Extreme Data Applications	93.4	
FETHPC-2 2014 HPC Ecosystem Development		4

Call FET -Flagships-tackling grand interdisciplinary science and technology challenges

FETFLAG 1 2014: Framework Partnership Agreement	no budget	no budget
FETFLAG 2 2015: Graphene FET Flagship Core Project		89
FETFLAG 3 2015: Human Brain Project FET Flagship Core Project		89
FETFLAG 4 2014/2015: Policy environment for FET Flagships	1.6	

FET Flagships Graphene & Human Brain Project selected



Call for Preparatory Actions
21 → 6
July 2010

Stimulating ideas & structuring the scientific community
2009 - 2010

Preparatory Phase Pilots
05/11 - 04/12

Flagship selection
6 → 2
end 2012

Operational ramp-up phase
mid 2013- end 2015

SCIENCE WORLD REPORT sciencewr.com

Home Space & The Future Nature & Environment Health & Medicine **Tech** Physics Human V

Brain Simulation and Graphene Research Receive Billion Euro Each

0 Comments  7  3  Share  E-mail  Print

Mark Hoffman First Posted: Jan 28, 2013 09:57 AM EST

The result of the highly anticipated decision of which two research projects will receive a one billion Euro research grant, the largest single research award ever, from the European Commission were announced by the European Commission's Vice-President Neelie Kroes today.

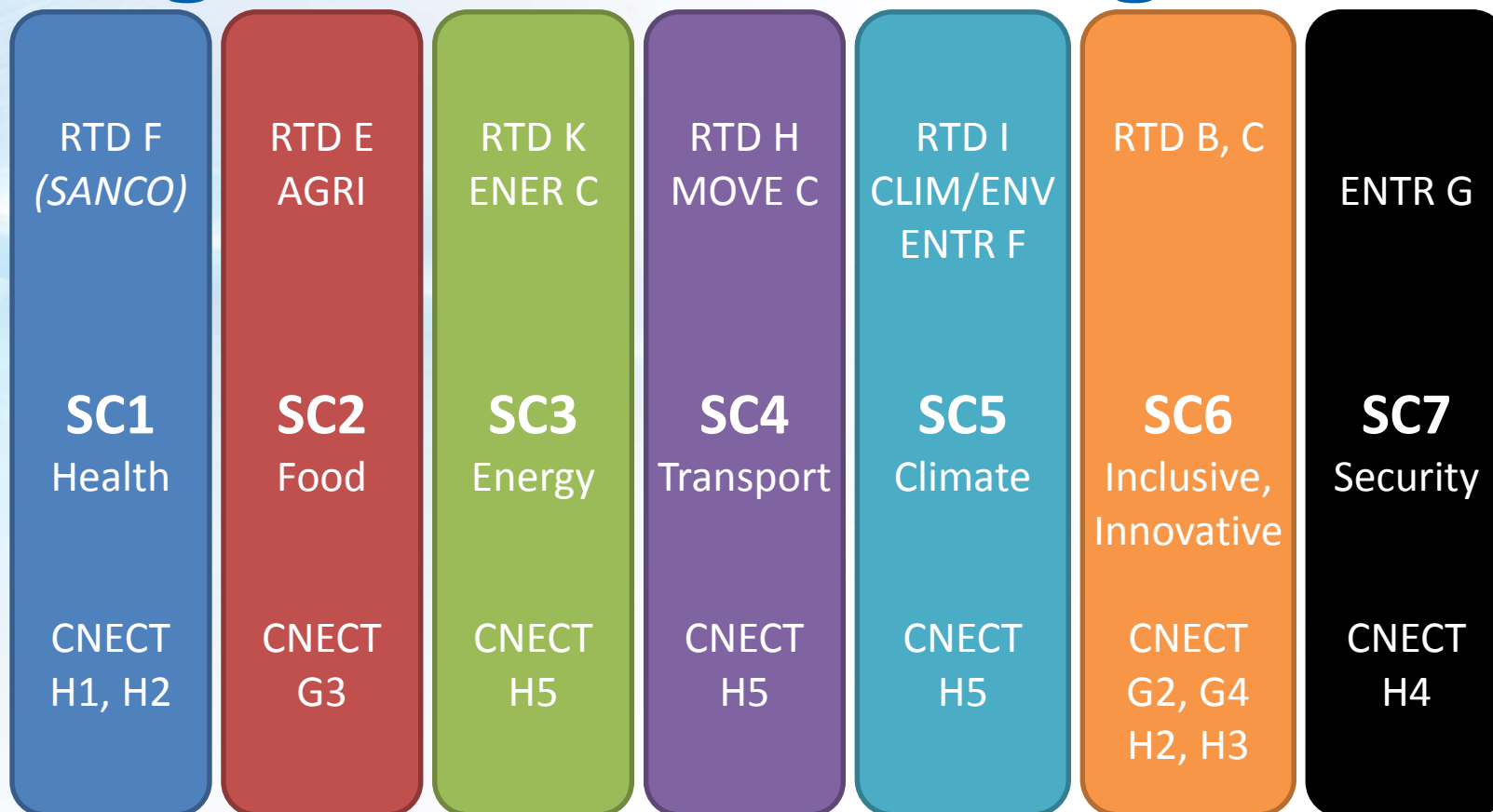


The first project is the [Human Brain Project](#), led by neuroscientist Henry Markram at the Swiss Federal Institute of Technology (EPFL) in Lausanne, which aims to simulate the human brain in a supercomputer, in order to aid medical advancement in brain disorders.

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The second, called [Graphene Project](#), is led by theoretical physicist Jari Kinaret at Chalmers University of Technology in Gothenburg, Sweden. It's goal is to develop the awesome

H2020 Societal Challenges Organisational Configuration



SC1 Health and wellbeing

- **Advancing active and healthy ageing**
 - 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)
 - Mobile Health
 - Public-procurement of innovative eHealth services
- **Improving health information and data exploitation**
 - Decisional support systems
 - eHealth interoperability

SC4 Smart, green and integrated transport

ICT offer the tools to address sustainability of transport systems, congestion and road fatalities effectively.

- **ICT pilots** addressing smart, energy-efficient and safe mobility
 - **Connected mobility** - linking vehicles and people on the move
 - **(Semi-)Automated driving** for increased efficiency and safety
 - **Cooperative Intelligent Transportation Systems (C-ITS)**
-
- ✓ 20% higher energy efficiency
 - ✓ 10% less traffic congestion
 - ✓ 10% fully electric vehicles in Europe
 - ✓ 30% less road fatalities
 - ✓ 30% less injured persons and an increase
 - ✓ 50% in reliability of transport schedules by 2020

SC7 Securing the Digital Society

- Protecting our society by providing sustained **trust in the usage of ICT** and in securing the ICT underlying our digital society.
- Demonstrating the viability and maturity of state-of-the-art security solutions in **large scale demonstrators**, involving end users
- **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** and the uses that are made thereof

Draft ICT LEIT Work-programme 2014-15



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ICT in Industrial Leadership

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

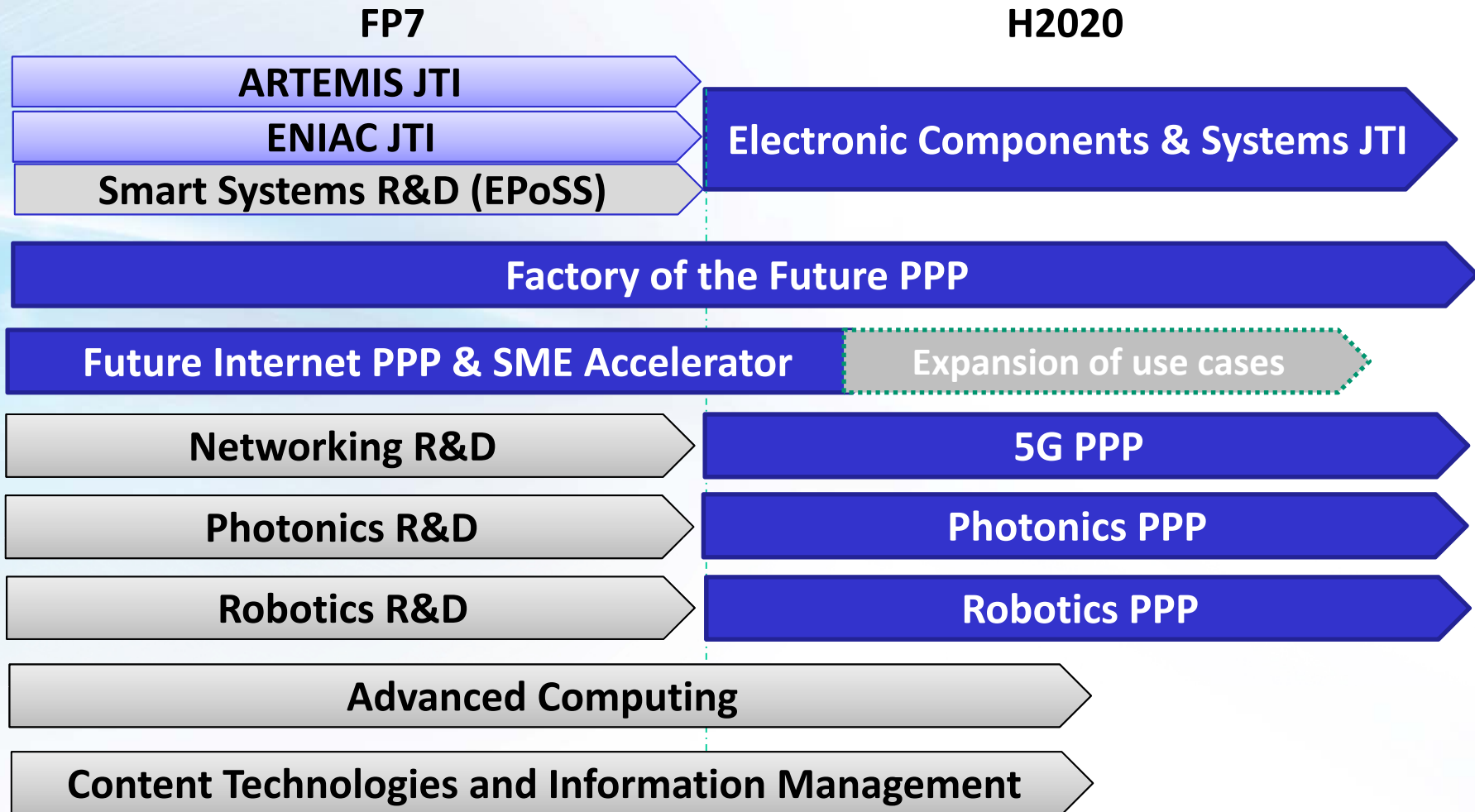
ICT Cross cutting activities:

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

ICT Innovation actions

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

ICT Roadmap-based research: Continuity and consolidation



H2020 ICT Calls 2014-15

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: Integrating experiments and facilities in FIRE+

ICT 13 – 2014: Web Entrepreneurship

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



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H2020 ICT Calls 2014-15

Content technologies and information Management

ICT 15 – 2014: Big data and Open 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

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



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H2020 ICT Calls 2014-15

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)

ICT 38 – 2015: International partnership building and support to dialogues with high income countries

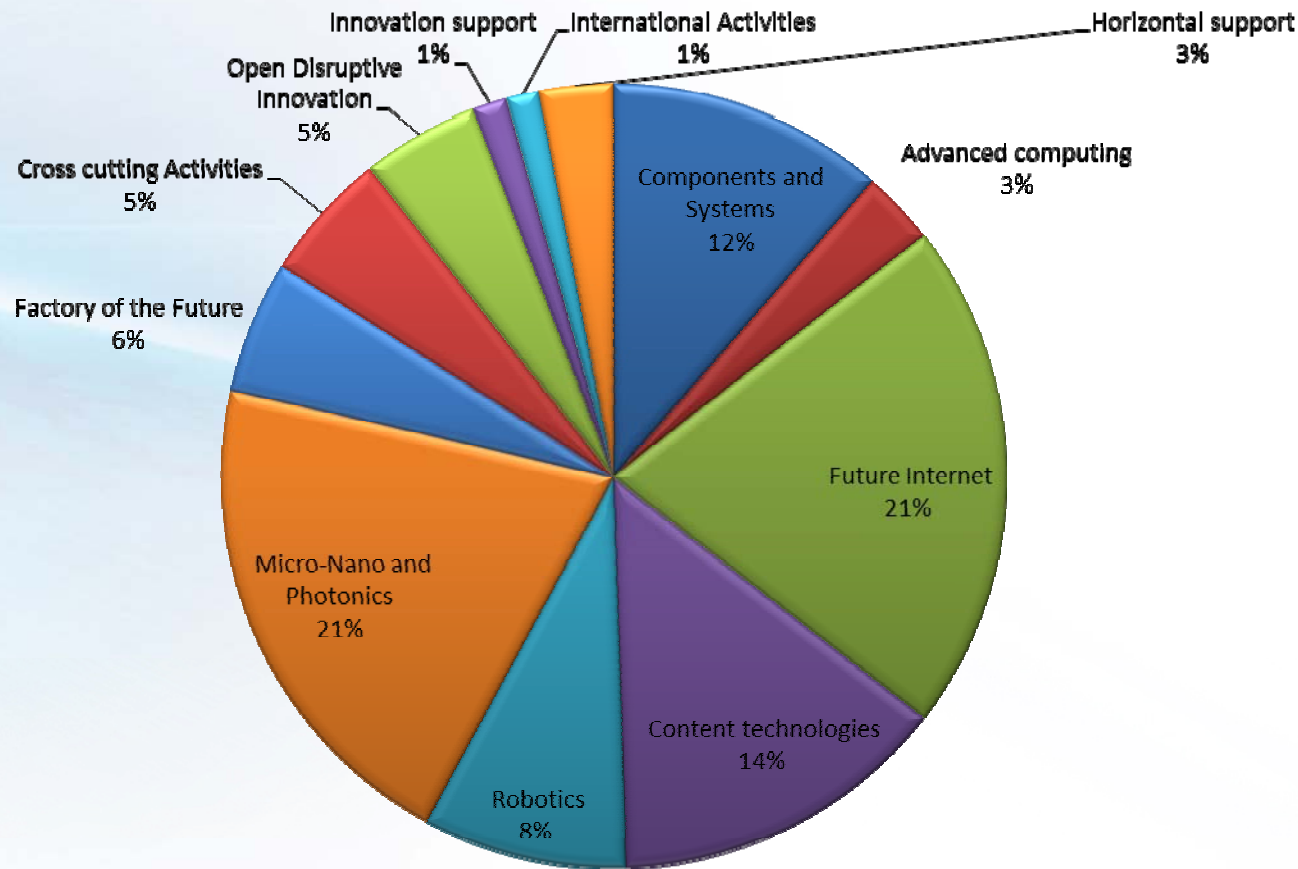
ICT 39 – 2015: International partnership building in low and middle income countries



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ICT LEIT Budget Overview



Simplified Funding Model

- **1 reimbursement rate by action:**
 - Up to 100% for research and innovation actions
 - Up to 70% for innovation and programme co-fund actions (non-profit entities up to 100%)
- **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
- **Certificate on financial statements:**
 - When cumulated amount $\geq 325,000$ EUR (actual costs + average personnel costs)
 - To be submitted with the request for payment of balance

Overview of calls for ICT LEIT WP2014-15

- 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: 23 September 2014
- H2020-FoF-2014/2015 (Factory of the Future):
Publication date: 11 December 2013
Deadlines: May 2014 and December 2014
- H2020-EUJ-2014 (EU-Japan Call):
Publication date: 11 December 2013
Deadline: May 2014
- H2020-ICT-2015 (ICT Call 2)
Publication date: July 2014
Deadline: **20 January 2015**
- H2020-EUB-2015 (EU-Brazil Call):
Publication date: December 2014
Deadline: April 2015



RESEARCH & INNOVATION

Participant Portal

European Commission > Research & Innovation > Participant Portal > Home

HOME

FUNDING OPPORTUNITIES

HOW TO PARTICIPATE

EXPERTS

SUPPORT

LOGIN

REGISTER



Horizon 2020 Funding

Starting from 1/1/2014

On this site you can find and secure **funding** for research & innovation projects under the following EU programmes:

- **2014-2020** Horizon 2020 - research and innovation framework programme
- **2007-2013** 7th research framework programme (FP7) and Competitiveness & Innovation Programme (CIP)

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

- search for funding
- read the funding guide & download the legal documents
- check if an organisation is already registered
- contact our support services or check our FAQs
- submit your proposal
- sign the grant
- manage your project throughout its lifecycle



WHAT'S NEW?



FUNDING OPPORTUNITIES



HOW TO PARTICIPATE



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INFORMATION AND SUPPORT

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