

Specific Opportunities for ICT based projects Horizon 2020 and beyond

Anamaria Magri Pantea
Chief Officer, External Relations

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1. ICT enabler within verticals

2. Horizontal schemes

3. Other H2020 initiatives

4. Erasmus+ Programme



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ICT Research & Innovation

Information & Communications Technologies

Secure, Clean & Efficient Energy

Secure Societies

Inclusive, Innovative & Reflective Societies

Smart, Green & Integrated Transport

Health, Demographic Change & Wellbeing



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The background of the slide is a vibrant blue gradient. It is filled with numerous semi-transparent, glowing icons related to information and communications technologies. These icons include a camera, a mobile phone, a Wi-Fi signal, a laptop, a mail envelope, a social media bird (Twitter), a globe, a shopping cart, a clock, a gear, a magnifying glass, a paperclip, a star, a musical note, a document, a link, a plus sign, a house, a person icon, a computer monitor, and a Wi-Fi router. The icons are scattered across the frame, creating a sense of digital connectivity and innovation.

Information & Communications Technologies

ICT 10 – 2015: Collective Awareness Platforms for Sustainability & Social Innovation

- To harness the collaborative power of ICT networks (people, knowledge & sensors) to create awareness on sustainability threat (social, environmental, political level).

Scope	Type of Action	Co funding Rate
Collective awareness pilots for bottom-up participatory innovative paradigms	Research & Innovation	100%
Multidisciplinary research on collective awareness platforms		
Digital social platforms		
Coordinating pilots & research activities in CAPs	Coordination & Support	
Total Budget - €36m		
Application Deadline – 14 April 2015		

ICT 12 – 2015: Integrating Experiments and Facilities in FIRE+

- Validating research results in large-scale, real life experimental infrastructures.

Scope	Type of Action	Special Conditions	Co funding Rate
Integration of experimental facilities, test-beds and laboratories	Research & Innovation	Action to involve financial support to third parties (min. 50% of budget)	100%
Collaborative projects for experimentally-driven research on top of existing experimental infrastructures			
Technically mature experiments on top of FIRE+ facilities for close-to-market products, applications or services	Innovation	Must include 1 SME and support or participation of an EU/National Agency	70%
Total Budget - €17m			
Application Deadline – 14 April 2015			

ICT 16 – 2015: Big Data - Research

- Special focus on industry-validated, user-defined challenges (like predictions)

Scope	Type of Action	Co funding Rate
Develop novel data structures, algorithms, methodology, software architectures, language understanding, data mining and vizualisation, etc.	Research & Innovation	100%
Define relevant benchmarks in domains of industrial relevance, assemble the data resources and infrastructure		
Define challenges and prize schemes for verifiable performance in tasks requiring extremely large scale prediction and deep analysis. Organise prediction competitions	Coordination and Support Action	
Total Budget - €37m		
Application Deadline – 14 April 2015		

ICT 19 – 2015: Technologies for Creative Industries, Social Media & Convergence

- Focus on research, development and exploitation of new or emerging technologies for digital content creation and accessing

Scope	Type of Action	Co funding Rate
Research in new technologies and tools to support creative industries in the creative process from idea conception to production	Research & Innovation	100%
Demonstration of the viability of new technologies and validation of innovative solutions through large scale demonstrations, pilots or testing of use cases	Innovation	70%
Facilitate exchanges between research and policy. Support R&D programmes, dissemination of results and organisation of scientific and/or policy events.	Coordination & Support	100%
Total Budget - €40m		
Application Deadline – 14 April 2015		

ICT 20 – 2015: Technologies for Better Human Learning and Teaching

- Focus on innovative technologies, underlining interoperability standards and the integration of different components into smart learning.

Scope	Type of Action	Co funding Rate
Experimentation on smart learning environments.	Research & Innovation	100%
Establishing a technology platform to provide a framework and roadmap for stakeholders		
Large scale pilots that develop and integrate innovative digital educational tools, solutions and services, and support the engagement of teachers, learners and parents	Innovation	70%
Total Budget - €50m		
Application Deadline – 14 April 2015		

ICT 30 – 2015: IoTs & Platforms for Connected Smart Objects

- Delivering an IoT extended into a web of platforms for connected devices & objects

Scope	Type of Action	Special Conditions	Co funding Rate
Architectural concepts and semantic interoperability concepts for Platforms for Connected Smart Objects	Research & Innovation	Action may involve financial support to third parties (max. 30%)	100%
Measures for development of ecosystems driven by European players around the platforms	Coordination & Support		
Total Budget - €49m			
Application Deadline – 14 April 2015			



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Secure, Clean & Efficient Energy

EE 11 – 2014/2015: New ICT-Based Solutions for energy Efficiency

Scope	Type of Action	Co funding Rate
<p>Create innovative IT ecosystems that develop services and applications using information generated by energy consumers or captured from sensors and micro-generation.</p> <p>Build on the power of social networks, gaming and IoT.</p>	<p>Research & Innovation</p>	<p>100%</p>
<p>Total 2015 Budget - €8.5m</p>		
<p>Application Deadline – 4 June 2015</p>		

SCC 1 – 2014/2015: Smart Cities and Communities Solutions integrating Energy, Transport, ICT through Lighthouse Projects

Scope	Type of Action	Conditions	Co funding Rate
<p>Identify, develop and deploy replicable, balanced and integrated solutions in the energy, transport, and ICT actions through partnerships between municipalities , industries and academics.</p> <p>Large scale demonstration.</p>	<p>Innovation</p>	<p>Must address:</p> <ol style="list-style-type: none"> 1. Nearly zero or low energy districts 2. Integrated infrastructures 3. Sustainable urban mobility <p>Lighthouse & follower cities</p>	<p>70%</p>
<p style="text-align: center;">Total 2015 Budget - €106.18m</p>			
<p style="text-align: center;">Application Deadline – 5 May 2015</p>			



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A composite image featuring two white surveillance cameras mounted on a central pole, overlooking a city skyline at night. The city lights are visible in the background, and the foreground shows a close-up of the cameras and the pole. The text 'Secure Societies' is overlaid on a semi-transparent white box in the center.

Secure Societies

DS-3-2015: The Role of ICT in Critical Infrastructure Protection

Scope	Type of Action	Co funding Rate
Develop focused security solutions for the new types of networks such as smart grids (linking communication, energy & transport networks), by building on the experience of ICT operators (e.g. telecom operators) in securing communication & information networks	Innovation	70%
Total 2015 Budget - €17.5m		
Application Deadline – 27 August 2015		

DS-4-2015: Secure Information Sharing

Scope	Type of Action	Co funding Rate
Development and implementation of a network for secure sharing of sensitive information between operators, national authorities, law enforcement agencies, business sectors, SMEs and citizens. Build on and link existing networks and incident sharing platforms.	Innovation	70%
Total 2015 Budget - €15.3m		
Application Deadline – 27 August 2015		

DS-5-2015: Trust eServices

Scope	Type of Action	Co funding Rate
<p>Demonstration and validation of automated comparison and interoperability of electronic trust services.</p> <p>Key elements – differential assessment of technical and organisational standards for trust services, as well as the development of a framework for “global trust lists”</p>	<p>Innovation</p>	<p>70%</p>
<p>Total 2015 Budget - €17.5m</p>		
<p>Application Deadline – 27 August 2015</p>		



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The background of the slide features a light blue, semi-transparent image of a park. In the foreground, there are black silhouettes of various people walking along a path. The silhouettes include a person with a cane, a person pushing a stroller, a person on a bicycle, and several groups of people. In the background, there are large trees and several ornate street lamps with curved tops and hanging lanterns. A white picket fence runs across the middle ground.

Inclusive, Innovative and Reflective Societies

EURO-6-2015: Meeting New Societal Needs by Using Emerging Technologies in the Public Sector

- How can Web 3.0 , linked open data, IoT, wearable technologies etc. help to tackle challenges in the public sector?

Scope	Type of Action	Co funding Rate
To support the preparation of next phases and possible validation in near to operational environment for the implementation of emerging ICT technologies in the public sector	Research & Innovation	100%
Encouraging networking of relevant stakeholders and teams working in these areas and to support constituency building	Coordination & Support	
Total Budget - €12m		
Application Deadline – 28 May2015		



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Horizontal Schemes

The SME Instrument

Fast Track to Innovation Pilot



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USD/JPY	1.292
GBP/USD	79.85
USD/CHF	1.6079
GBP/JPY	0.9288
EUR/JPY	128.39
EUR/GBP	103.26
USD/GBP	0.65

The SME Instrument

30.76	3.00	11.1
25.22	7.03	7.2
13.77	18.04	7.2
2.48	23.02	10.14
75	41.87	30.76
4	38.47	26.08
	2.41	12.55
		26.08

SUCCESS



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SME Instrument

- Business-driven projects with potential for quick development & market uptake
- Relatively mature technologies, concepts, processes and business models – TRL6

Scope	Special conditions	Type of Action	Co funding Rate	Total 2015 Budget
ICT Open Disruptive Innovation Scheme	Only SMEs can apply on their own or in consortia	Phase 1 Proof-of-Concept	Lump-sum €50,000	€45m
Innovative Mobile e-Gov Applications		Phase 2 Development & Marketability Demonstration	70% €0.5 – 2.5 million	€4m
Business Model Innovation			€11m	

Application Deadlines 2015: 18 March / 17 June / 17 September / 18 December



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Fast Track to Innovation Pilot (2015-2016)

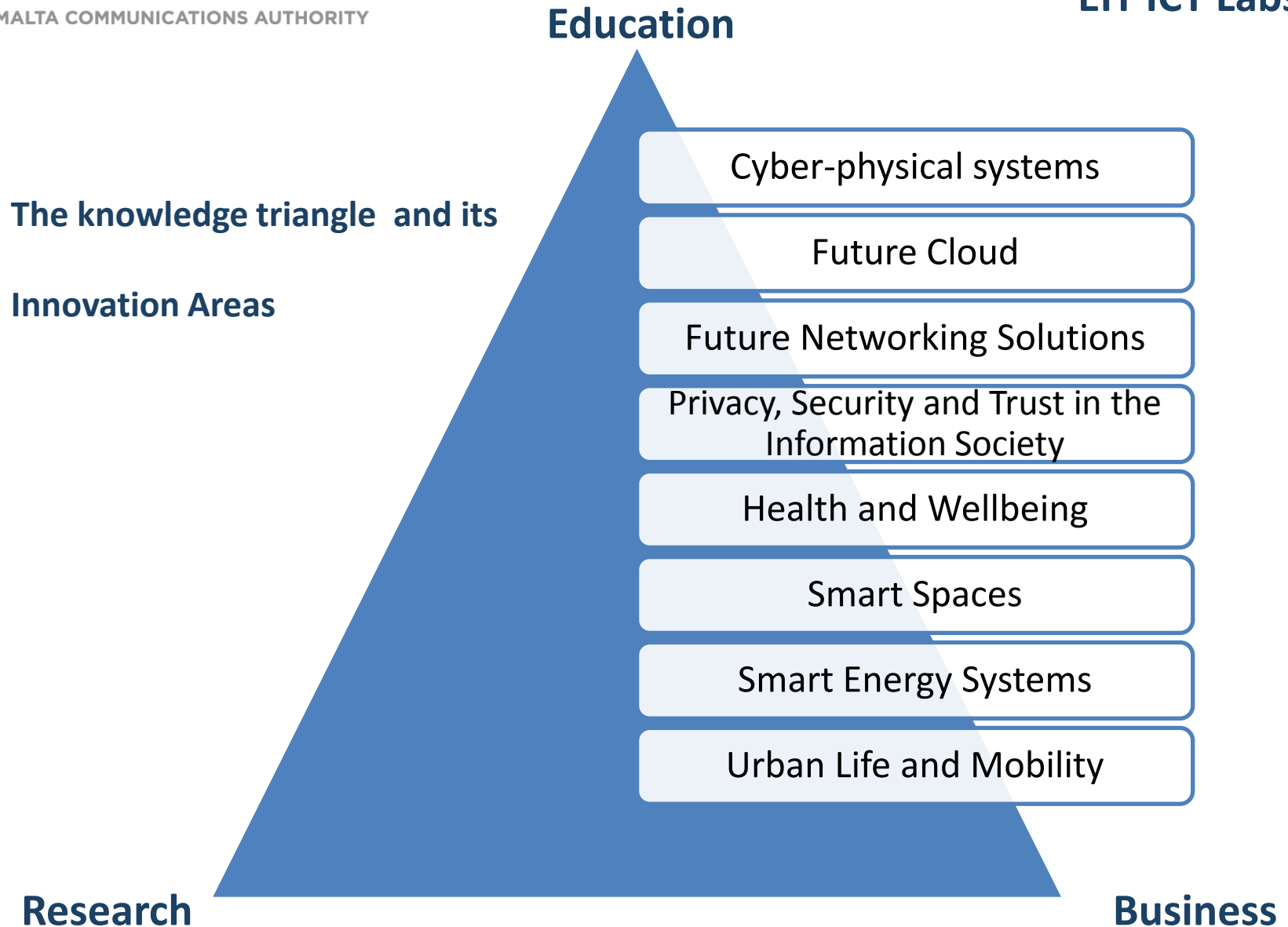
- Bottom-up scheme – no defined topics
- Relatively mature technologies, concepts, processes and business models – TRL6
- Focus on: inter-disciplinary and cross-sector approaches, sustainability and societal challenges

Scope	Special conditions	Type of Action	Co funding Rate
Development, demonstration and market readiness activities	Consortium of max. 5 entities Industry in majority	Innovation	70%
Total Budget - €100m			
Application Deadlines – 29 April, 1 September & 1 December 2015			



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Calls for proposals from SMEs

2014 Topics examples

Mobile Opportunistic Services for Experience Sharing

European Trusted Cloud Platform with Advanced Data and Service Management Ecosystem

Mediating Presence Systems

FIREWARE based demonstrators

Big Data Analytics Business Case Use Analysis

Localisation and Signal Processing for Networked Biosensors

CPS for Civil Infrastructure Monitoring and Control

Future Networking Solutions

Microgrid Operation and ICT solutions



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The 5G Infrastructure Public Private Partnership

Collaborative projects in the following strands:

- R&I
- Radio Network Architecture and Technology
 - Convergence Beyond the Last Mile
 - Network Management

Innovation - Network Virtualisation and Software Networks

other ...

H2020 ICT-2014: Advanced 5G network Infrastructure for the Future Internet

Research, Innovation and Coordination & Support Actions

Budget for 2014: € 125m

Budget till 2020: € 800m



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The Erasmus+ logo is centered on a solid blue rectangular background. The word 'Erasmus+' is written in a bold, sans-serif font. The 'E' is light blue, while the rest of the letters are dark blue. The text is surrounded by a white, irregular, brushstroke-like border that gives it a dynamic, energetic feel.

Erasmus+



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Erasmus+

Sector Skills Alliances - ICT

Scope	Special conditions	Financing Mechanism
<ul style="list-style-type: none">- Defining skills and training provision needs- Designing and delivering joint curricula- Innovative approaches to teaching and learning (digitally enabled, OER, work-based)- Mobility (not main focus)	<p>Min. 3 countries Min. 3 partners per country, covering</p> <ul style="list-style-type: none">▪ VET providers▪ Sector representatives▪ education and training regulator)	<p>Unit costs</p>
<p>Max. EU contribution: €700,000 for a 2Y project €1,000,000 for a 3Y project</p>		
<p>Application Deadline – 26 February 2015</p>		



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Thank you

Malta Communications Authority

Valletta Waterfront,
Pinto Wharf, Floriana,
FRN 1913, Malta

T + 356 2133 6840

F + 356 2133 6846

E info@mca.org.mt

W www.mca.org.mt