

H2020: Tecnologias da Informação e Comunicação



Oportunidades de Financiamento para 2017

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Pontos de Contacto Nacional do H2020



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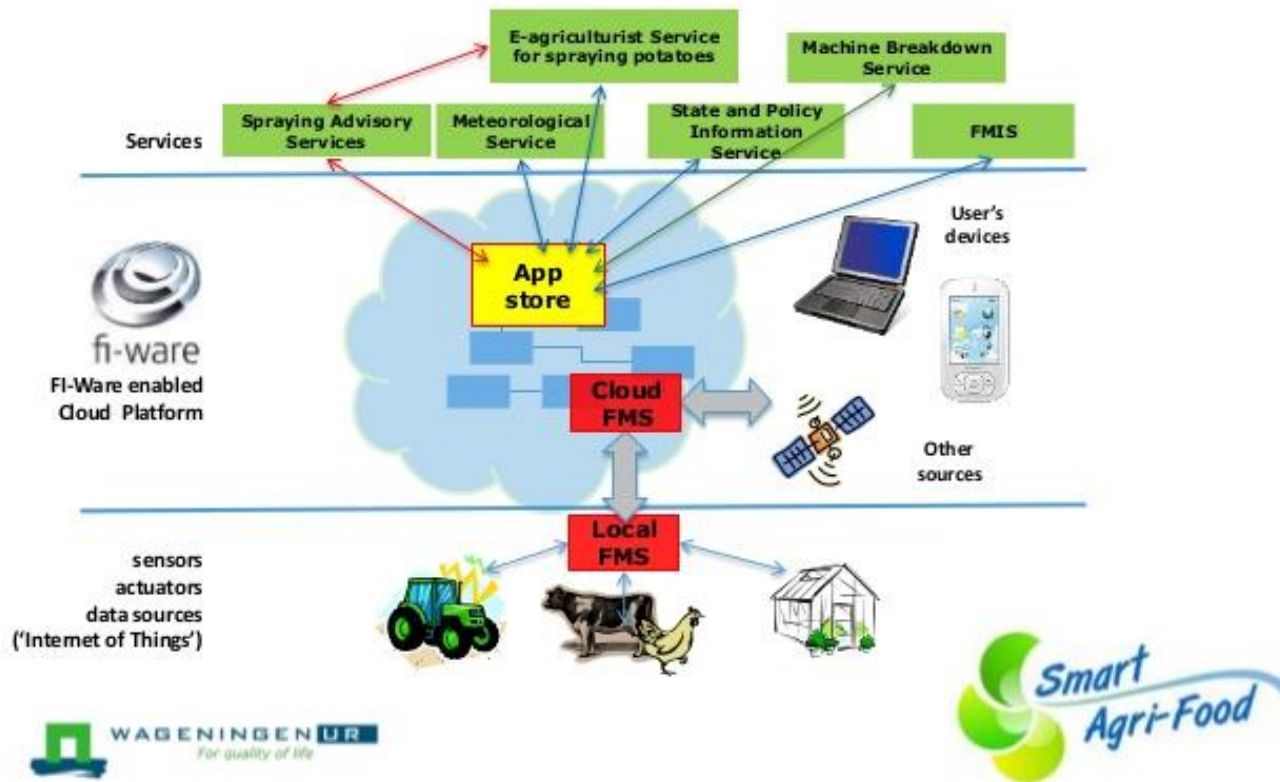
Information and Communication Technologies



H2020

ICT e DS2

Smart Farming in the Cloud



H2020

Principais Linhas Temáticas ICT no H2020

Componentes e Sistemas

Computação avançada e em nuvem

Internet do Futuro

**Conteúdos: Big Data, Indústrias Criativas e
Tecnologias de Aprendizagem**

Fotónica

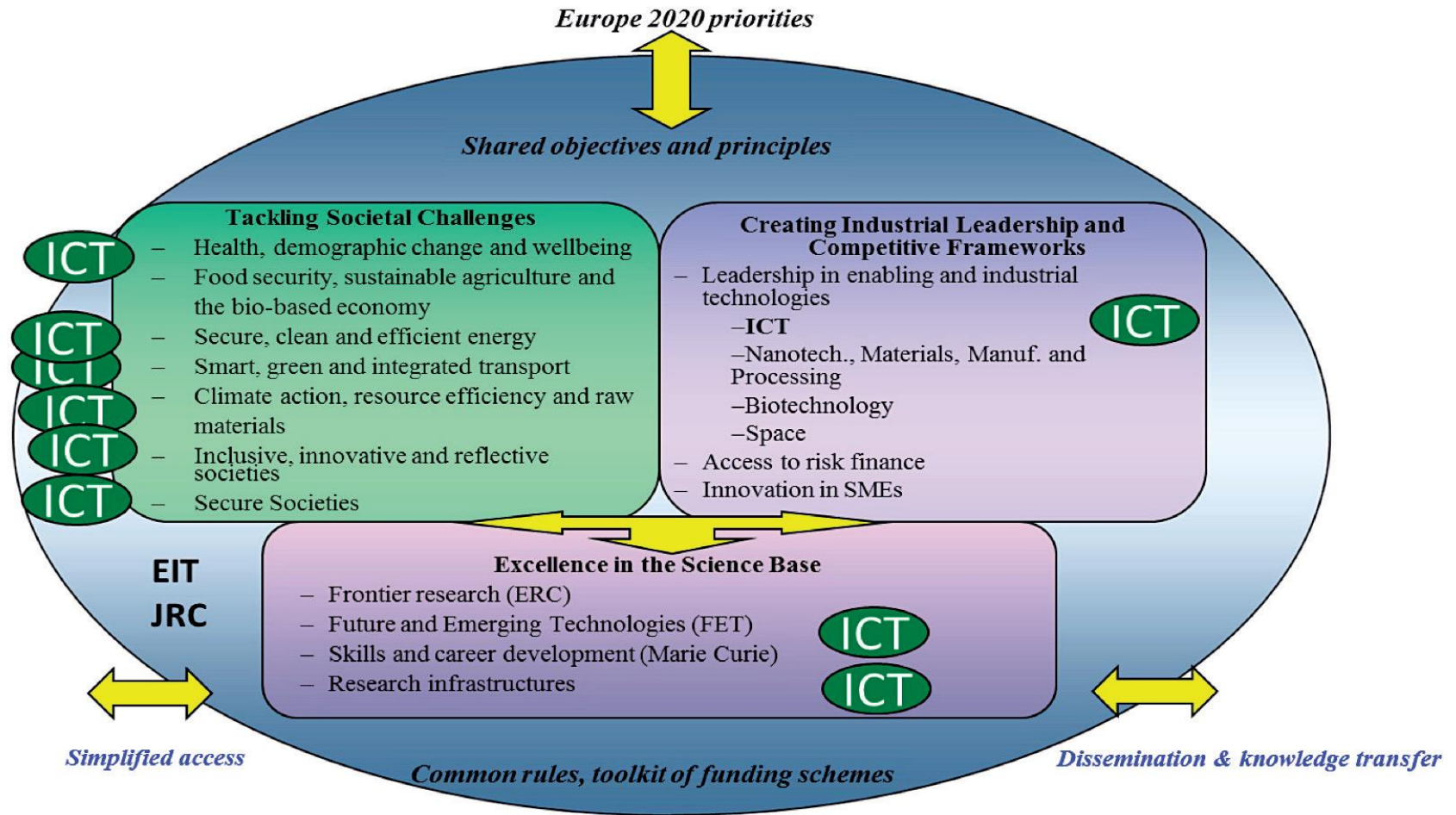
Micro e Nanoeletrónica

Robótica



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ICT no H2020



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Programa de Trabalho ICT: concursos

Concurso H2020-ICT-2016-2017

- **Components and Systems**
- **Advanced Computing and Cloud Computing**
- **Future Internet**
- **Content**
- **Robotics**
- **KETs: Micro-nano-electronics and Photonics**
- **Innovation & Entrepreneurship**
- **Responsibility & Creativity**
- **International Cooperation**
- **Open Disruptive Innovation**



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Programa de Trabalho ICT: concursos

Concurso H2020-EUB-2017

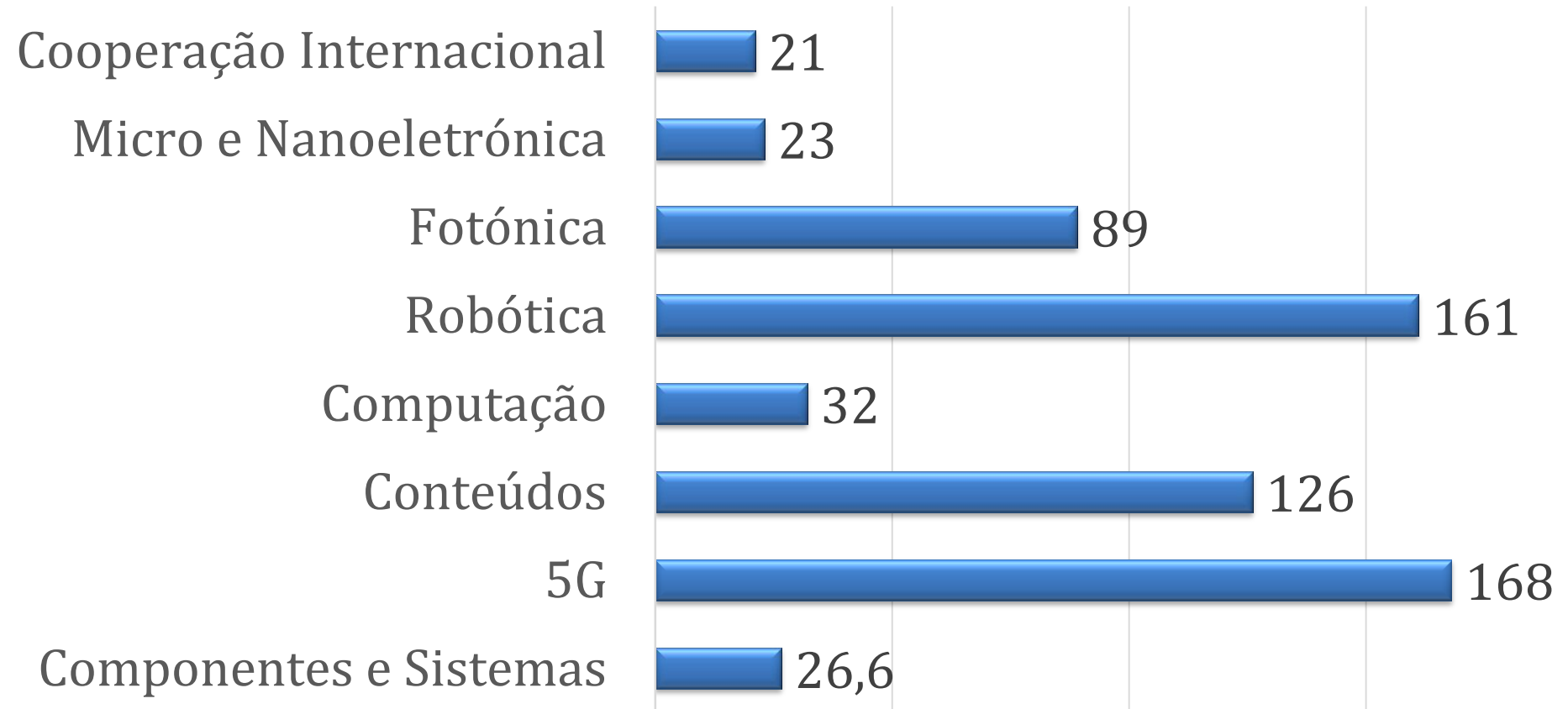
- Cloud Computing
- Internet of Things
- 5G networks



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Programa de Trabalho ICT 2017

Distribuição do financiamento



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Programa de Trabalho ICT 2017

Componentes e Sistemas ICT-04 (RIA, CSA)

Internet do Futuro

5G ICT-07 (RIA, CSA), ICT-08 (IA, RIA), ICT-09 (RIA)

CAPS ICT-11 (IA, CSA)

Conteúdos

Media ICT-19 (IA, CSA)

Deadline: 8/11/2016



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Programa de Trabalho ICT 2017

Computação avançada e em nuvem ICT-05 (2 RIAs, CSA)

Conteúdos

Big Data ICT-14 (IA), ICT-15 (IA), ICT-16 (RIA),
ICT-17 (CSA, RIA)

Indústrias Criativas ICT-20 (RIA)

Tecnologias de Aprendizagem ICT-23 (RIA, IA)

Deadline: 25/04/2017



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Programa de Trabalho ICT 2017

Robótica ICT-25 (RIA, IA), ICT-27 (2 RIAs, IA, PCP), ICT-28 (CSA)

Fotónica ICT-30 (RIA, IA, CSA)

Micro e Nanoeletrónica ICT-31 (RIA, IA, CSA)

Deadline: 25/04/2017



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Programa de Trabalho ICT 2017

Inovação & Empreendedorismo:

ICT-32: Startup for Europe Growth & Innovation Radar

ICT-33: Innovation Procurement Networks

Standardização ICT-40 (CSA) 

Next Generation Internet ICT-41 (3 CSAs) 

Deadline: 25/04/2017



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Programa de Trabalho ICT 2017

Cooperação Internacional:

ICT-39: International partnership building
Sub-Saharan Africa and ASEAN countries (IA)

Deadline: 25/04/2017

Concurso transnacional com o Brasil

H2020-EUB-2017

EUB-01: Cloud Computing

EUB-02: IoT Pilots

EUB-03: 5G networks



Deadline: 14/03/2017



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Cross Cutting Activities – Focus Areas

Factories of the Future FoF-12 (IA, CSA)

Deadline: 19/01/2017

Internet of Things IoT - 03 (RIA)

Deadline: 25/04/2017

Smart Cities and Communities SCC-01 (IA)



Deadline: 14/02/2017



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ICT – Content

Content	TOPIC	Inst.	TRL	M€/proj	Total (M€)
ICT 15 - 2017	Big Data PPP: Large Scale Pilot	IA	-	10 – 15	25

Scope: *demonstrate how industrial sectors will be transformed by putting data harvesting and analytics at their core*

Impact: *Increase productivity, increase market share, doubling the use of big data tech of the sector, demonstrators*



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ICT – Content



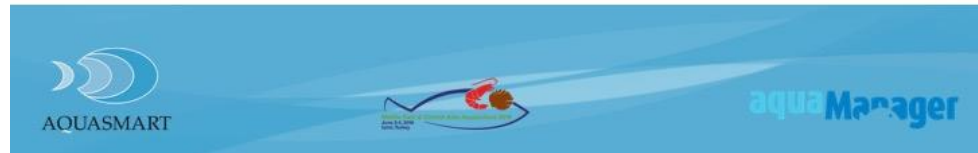
Aquaculture Smart Data Driven and Open Analytics

What is the need?

2. **Globalization:** aquaculture SMEs need to operate in a dynamically changing and globalized environment.

- They are located and/or operate in worldwide
- Amounts of data are gathered in distributed Data Warehouses
- Their IT systems, like **aquaManager**, assist them to **daily internal operations**, however there exist a rapid need to **expand into a global system**

	TSSG www.tssg.org		QVALIDIDUS www.q-validus.com
	I2S www.aqua-manager.com		UNINOVA www.cts.uninova.pt
	GRAMMOS www.grammos-sa.gr		IJS www.ijs.si
	ANDROMEDA www.andromedagroup.eu		ARDAG www.ardag.co.il



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Robotics

ICT 25-2017: Advanced robot capabilities research and take-up

RIA	15M€	a) Open, generic research
		b) Technical capabilities: Systems development, HRI, mechatronics, perception, navigation and cognition
IA	19M€	c) End User driven application development
		d) Filling technology / regulatory gaps

ICT 27-2017: System abilities, SME & benchmarking actions, safety certification

RIA	28M€	a) System Abilities: Perception ability, decisional autonomy, increasing dependability levels, self-verifying behaviour
		b) SME-based research and benchmarks
IA	11M€	c) Shared facilities for safety certification
PcP	7M€	d) Pre-commercial procurement: smart cities

ICT 28-2017: Robotics competition, coordination and support

CSA	5M€	a) Non-technical barriers
		b) Standards & regulation
		c) Community support and outreach
		d) Competitions



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Robotics

Informação preliminar

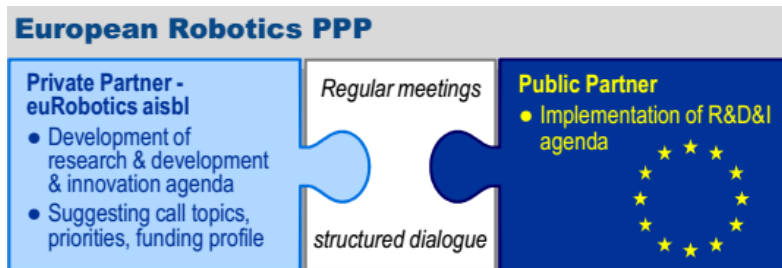
Brokerage event – Nov/Dec.(tbc)

Organised by euRobotics (private partner in Robotics PPP SPARC)

STAY TUNED

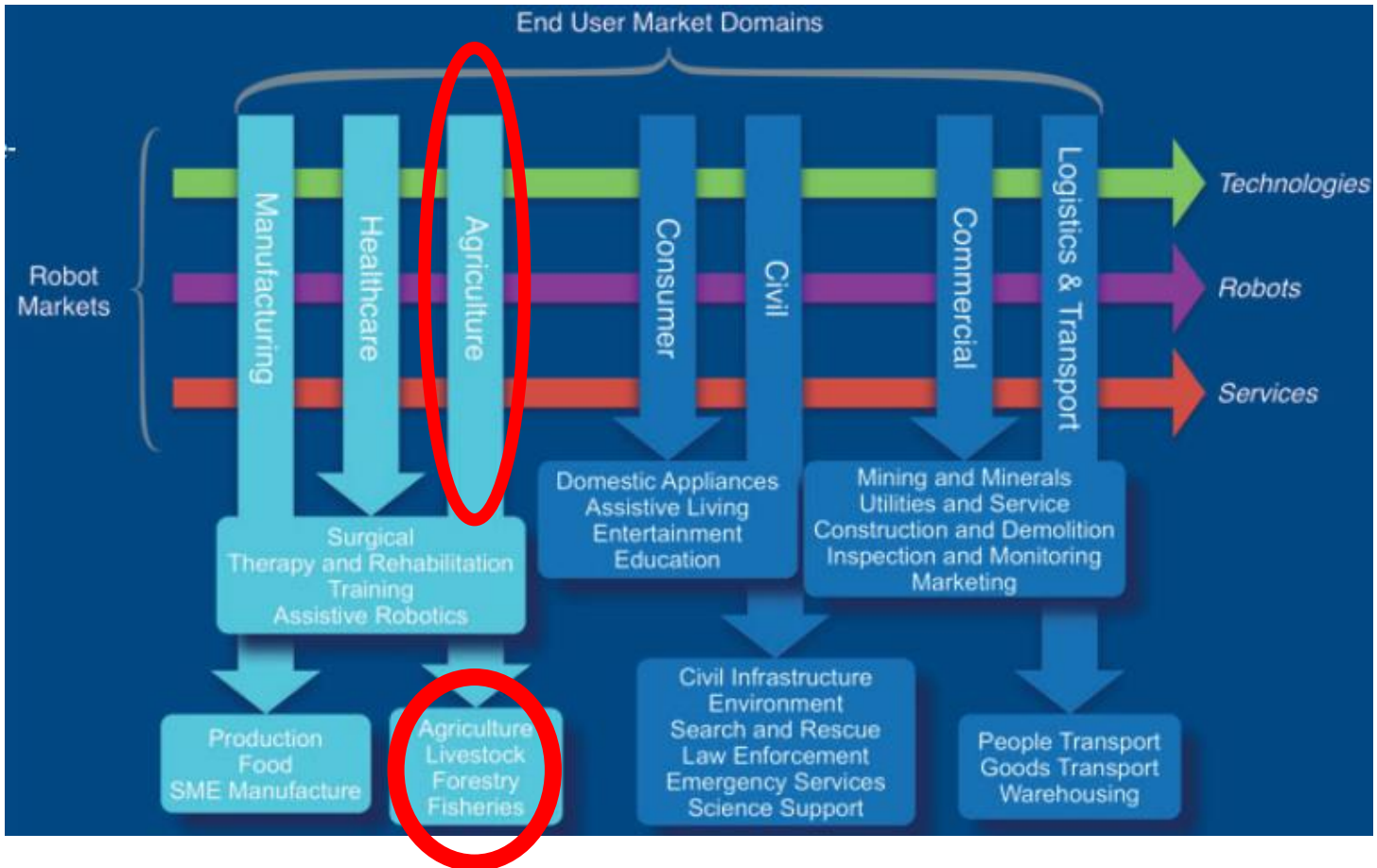
<https://eu-robotics.net/>

<https://ec.europa.eu/digital-single-market/en/robotics>



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Robotics



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ICT – International Cooperation

Future Internet	TOPIC	Inst.	TRL	M€/proj	Total (M€)
ICT 39 - 2017	International partnership building in low and middle income countries	IA	-	1 – 2	13

Targeted countries: Low and middle income countries in sub-Saharan Africa and ASEAN countries



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ICT – International Cooperation



Innovate Agro-Industry Processes. Increase efficiency of production and processing in small-scale agro industry SMEs, catalyze better yields and advance agribusiness;

Waziup use cases



Irrigation



Livestock farming



Fish farming



Storage and logistic



Mobile health



Fresh water

Participação PT:

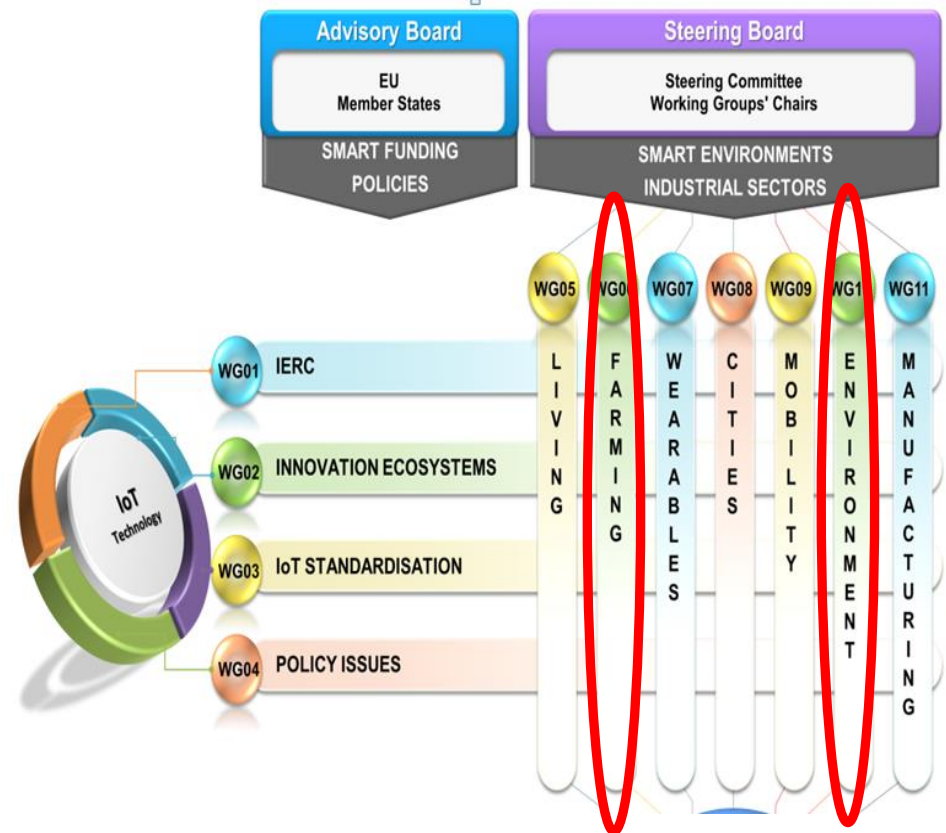


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Internet of Things

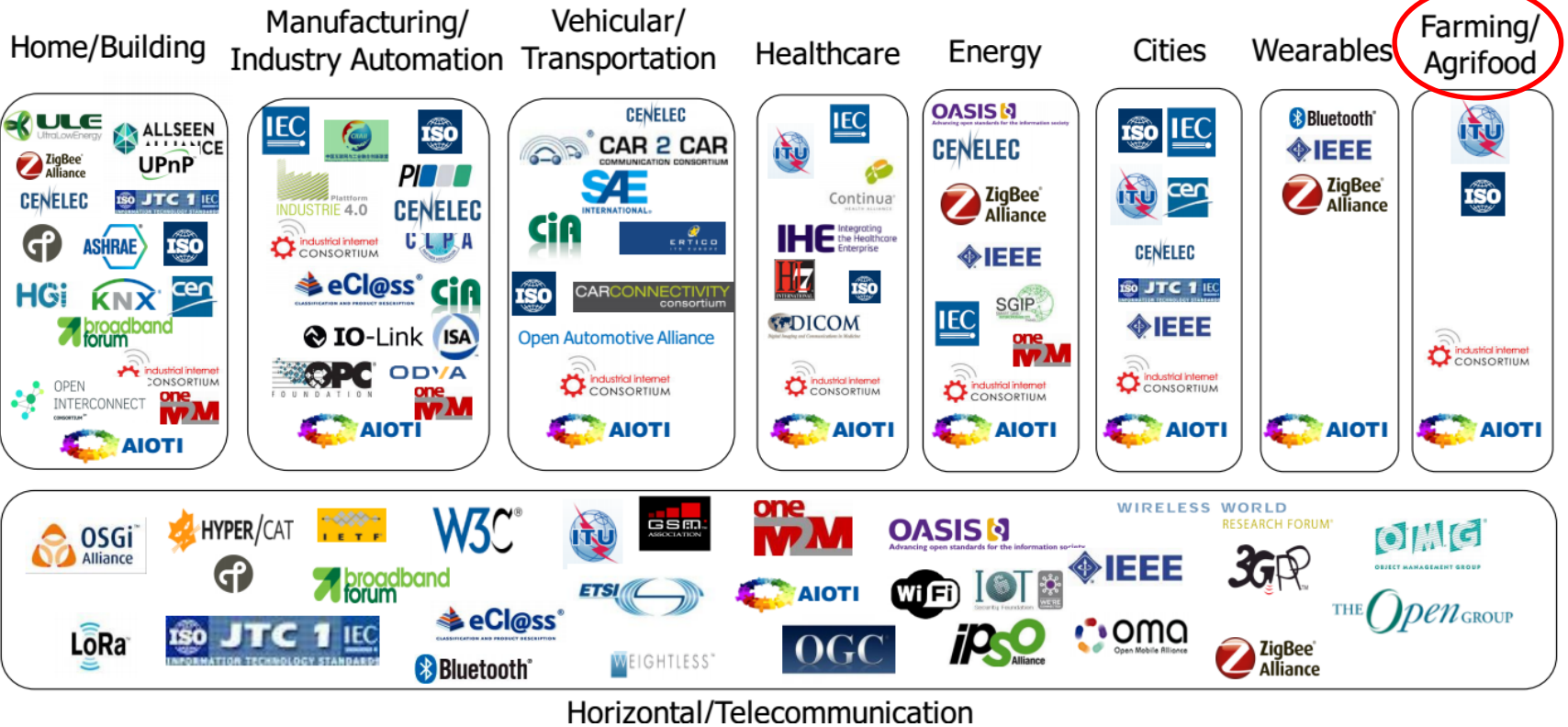
Policy cooperation: the IoT Large Scale Pilots link to AIOTI – Alliance Internet of Things Innovation

- Initiated by the EC in March 2015 the European Commission for working closely with all stakeholders and actors of the Internet of Things.
- Building an IoT innovation ecosystems across the value chain /across silos
- Put IoT on the map and link to PPPs, JTI, and national initiatives
- Advancing IoT convergence across verticals for standardisation/ interoperability
- Provide Recommendations for the implementation of LSPs
- Discuss with industry to provide guidance for IoT in the DSM
- Get conencted on www.AIOTI.eu



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Internet of Things



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Internet of Things



Useful links:

- Internet of Things in DAE:

<http://ec.europa.eu/digital-agenda/en/internet-things>

- The Alliance of Internet of Things Innovation AIOTI

<http://www.AIOTI.eu>

- IERC – Internet of Things European Research Cluster

<http://www.internet-of-things-research.eu/>



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Internet of Things

IoT	TOPIC	Inst.	TRL	M€/proj	Total (M€)
IoT 03 - 2017	R&I on IoT integration and platforms	RIA	-	3 – 5	37

Scope:

- Architectures, concepts, methods and tools for **open IoT platforms** integrating evolving sensing, actuating, energy harvesting, networking and interface technologies.
- Platforms should provide connectivity and intelligence, actuation and control features, linkage to modular and ad-hoc cloud services, data analytics and open APIs as well as semantic interoperability across use cases and conflict resolution.
- Platforms should be compatible with existing international developments addressing object identity management, discovery services, virtualisation of objects, devices and infrastructures and trusted IoT approaches.
- **IoT Security and Privacy**
advanced concepts for end-to-end security in highly distributed, heterogeneous and dynamic IoT environments. Approaches include identification and authentication, data protection and prevention against cyber-attacks at the device and system levels.
- Other proposal characteristics: To include **two or more usage scenarios**, verification and testing, and identify the added value of the proposed approach specific to IoT in comparison to generic solutions.



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ICT Proposers' Day



- [Networking sessions](#)
- [Information sessions](#)
- [Booths](#)
- [Face2Face Brokerage event](#) (run by [Ideal-Ist](#)), where you can sign up for short (20 minute) pre-arranged face-to-face meetings.

<https://ec.europa.eu/digital-single-market/en/ict-proposers-day-2016>



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Contactos



**KEEP
CALM
AND
CALL
THE NCP**



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