

H2020: Tecnologias da Informação e Comunicação



Oportunidades de Financiamento para 2017

Eunice Ribeiro | Elisabete Pires | João Mil-Homens

Pontos de Contacto Nacional do H2020



H2020

Contexto Político ICT

Prioridades Europeias

Boost for jobs, growth and investment

Digital Single Market

Energy Union and Climate

Internal Market

Economic and Monetary Union

Migration

Justice and Fundamental Rights

EU as a Global Actor

Democratic change

Iniciativas Europeias

PPPs – Parcerias Público-Privadas
Big Data, HPC, Robotics, Photonics, 5G PPP, Big Data, FoF, *Cybersecurity*

Parcerias Europeias da Inovação (EIP)
Smart Cities & Communities
Active and Healthy Aging

European Technology Platforms
ARTEMIS, ENIAC, EPoSS, ETP4HPC, euRobotics, NEM, NESSI, Network2020, Photonics21

ERA-NET
FLAG-ERA, CHIST-ERA, SCC, Smart Grids Plus, Photonics

Joint Technology Initiatives ECSEL

Artigo 185 AAL

Associações Europeias de I&DT
AIOTI, oe-a

Eventos e documentação de apoio
Infodays, Roadmapps, Planos de Ação

Consultas Públicas

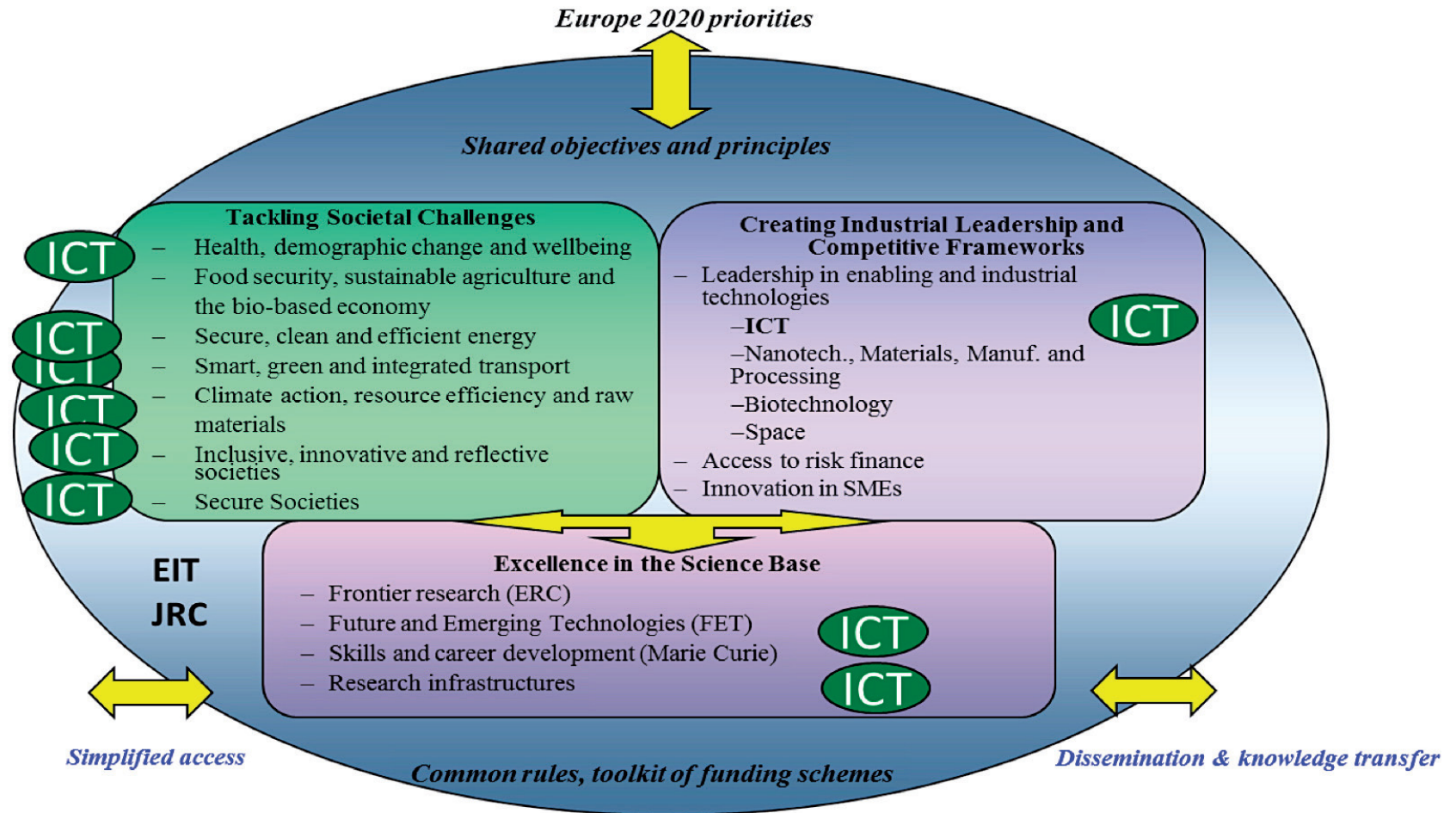
Cordis <http://cordis.europa.eu/>

Joint Programming Initiatives
Urban Europe



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ICT no H2020



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Tecnologias da Informação e Comunicação



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Programa de Trabalho ICT: concursos

Concurso H2020-ICT-2016-2017:

- Componentes e Sistemas
- Computação avançada e computação em nuvem
- Internet do futuro
- Conteúdos
- Robótica
- KETs: Micro e Nanoeletrónica
- Inovação e empreendedorismo
- Responsabilidade e Criatividade
- Cooperação Internacional
- Inovação aberta e disruptiva



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Programa de Trabalho ICT: concursos

Concurso H2020-EUB-2017:

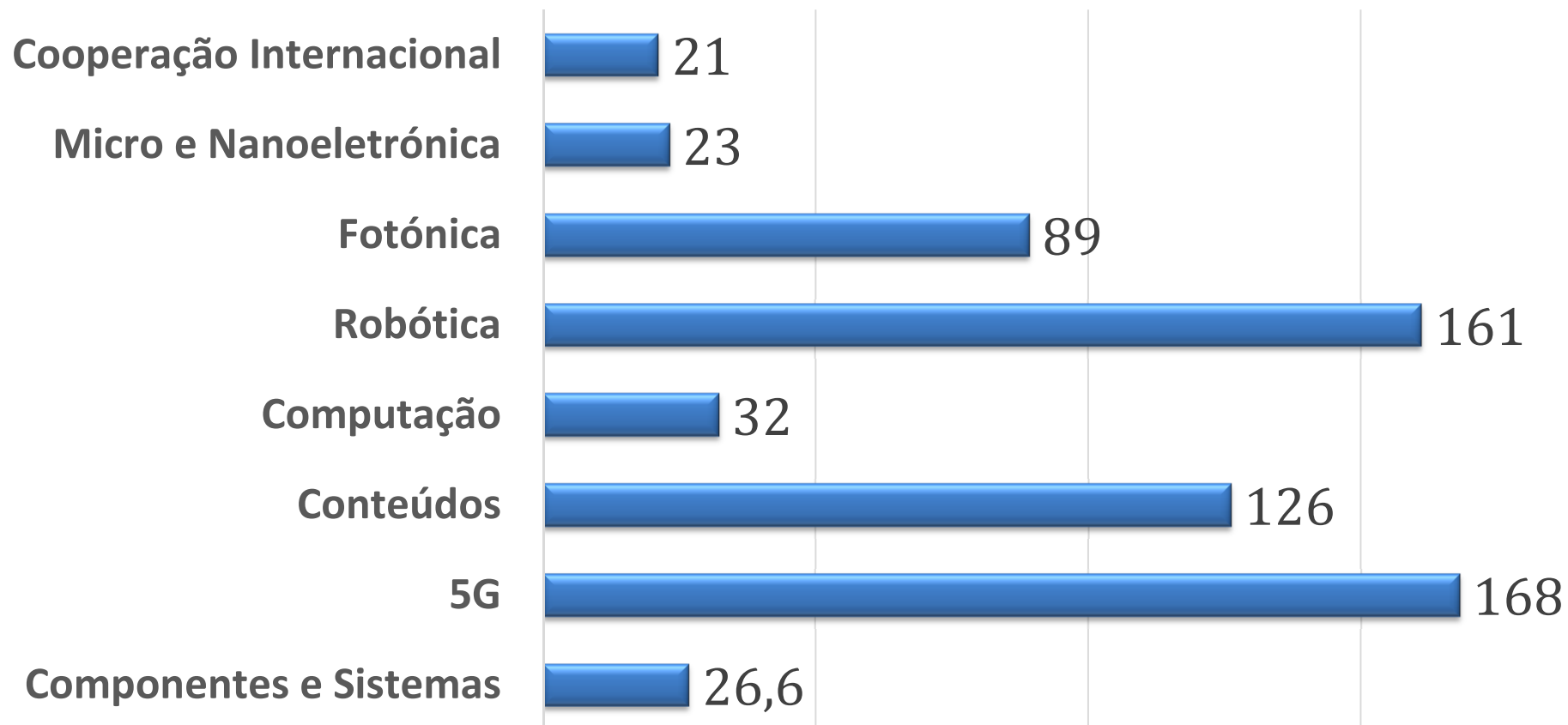
- Computação em nuvem
- Internet das coisas
- Redes 5G



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Programa de Trabalho ICT 2017

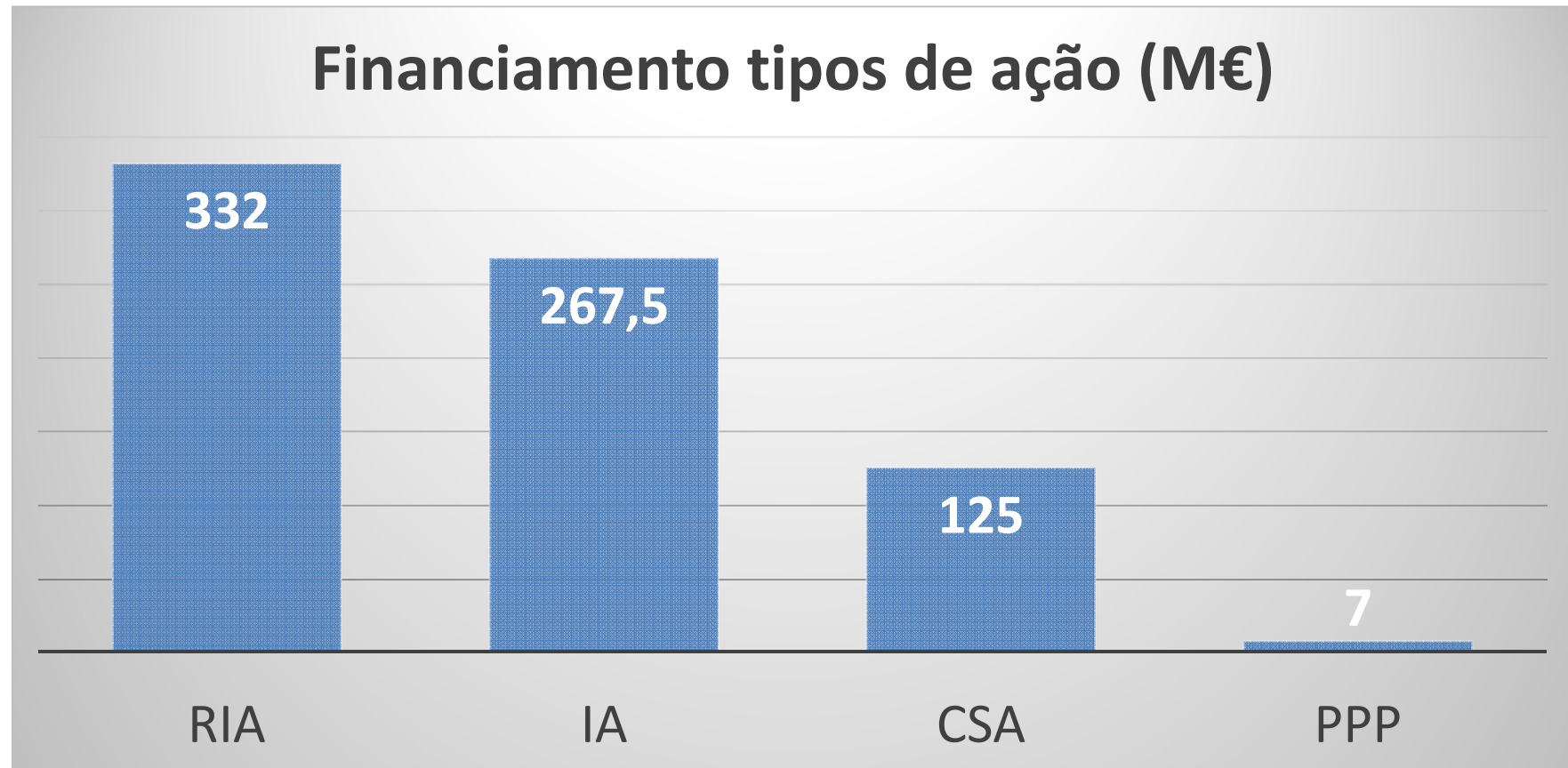
Distribuição do financiamento



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Programa de Trabalho ICT 2017

Financiamento tipos de ação (M€)



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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)



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Limite submissão : 8/11/2016

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)**

Limite submissão : 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)

Limite submissão: 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

→ Estandarização /normalização

ICT-40 (CSA)



→ Internet de Nova Geração

ICT-41 (3 CSAs)



Limite submissão: 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)***

Limite submissão: 25/04/2017

- **Concurso transnacional com o Brasil**

H2020-EUB-2017

EUB-01: Cloud Computing

EUB-02: IoT Pilots

EUB-03: 5G networks



Limite submissão: 14/03/2017



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Atividades Transversais – Áreas de enfoque

→ Fábricas do Futuro

FoF-12 (IA, CSA)

Limite submissão: 19/01/2017

→ Internet das coisas

IoT - 03 (RIA)

Limite submissão: 25/04/2017

→ Cidades e Comunidades Inteligentes

SCC-01 (IA)

Limite submissão: 14/02/2017



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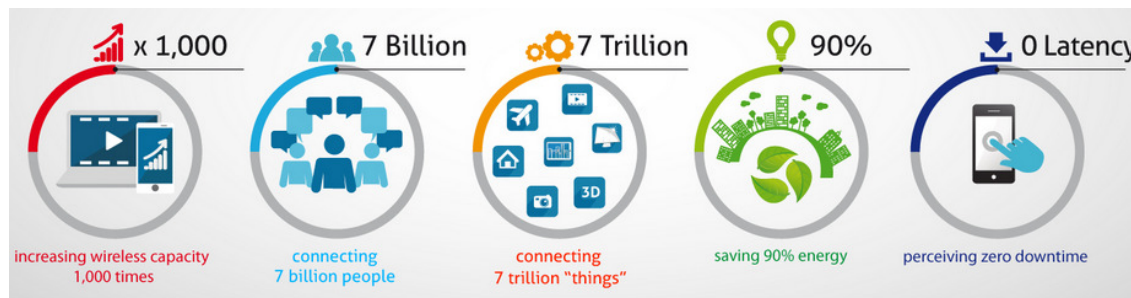
ICT – Internet do Futuro

Internet do Futuro	Tópico	Inst.	TRL	M€/proj	Total (M€)
ICT 7 - 2017	5G PPP Research and Validation of critical technologies and systems	RIA	-	5 – 8	100
		CSA	-	3	3
ICT-11-2017	Collective Awareness Platforms for Sustainability and Social Innovation	IA		1-2	9
		CSA		0,2-0,8	1

Mais informação:



<https://5g-ppp.eu/white-papers/>



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ICT – Internet do Futuro

FACTORIES OF THE FUTURE

- 1 Time-critical process control
- 2 Non time-critical factory automation
- 3 Remote control
- 4 Intra/Inter-entreprise communication
- 5 Connected goods

ENERGY

- 1 Grid access
- 2 Grid backhaul
- 3 Grid backbone

e-HEALTH

- 1 Assets and interventions management in Hospital
- 2 Robotics
- 3 Remote monitoring
- 4 Smarter medication

AUTOMOTIVE

- 1 Automated driving
- 2 Share My View

MEDIA & ENTERTAINMENT

- 1 Ultra High Fidelity Media
- 2 On-site Live Event Experience
- 3 User/Machine Generated Content
- 4 Immersive and Integrated Media
- 5 Cooperative Media Production
- 6 Collaborative Gaming

- 3 Bird's Eye View
- 4 Digitalization of Transport and Logistics
- 5 Information Society on the road

ICT – Internet do Futuro

ICT-11-2017: Collective Awareness Platforms for Sustainability and Social Innovation

a) Innovation Action

Desenvolvimento de Plataforma Colaborativa

Orçamento para 1 projeto: 1-2M€

Orçamento disponível: 9M€

b) Coordination and Support Action

Coordenar a iniciativa Collective Awareness Platforms a nível europeu, identificando sinergias

Orçamento para 1 projeto: 0.2-0.8M€

Orçamento disponível: 1M€

Abertura: 8/12/2016

Prazo para submissão de propostas: 25/12/2017



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ICT – Internet do Futuro

Conceito-chave: *Collective Awareness Platforms (CAPs)*

Novas formas de **inovação e colaboração**, explorando as tecnologias digitais, consciencializando para problemas e possíveis soluções que requerem **esforços coletivos e novas formas de inovação social**.



<http://ec.europa.eu/digital-agenda/en/collective-awareness-platforms-sustainability-and-social-innovation>



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ICT – Internet do Futuro

ICT-11-2017: Collective Awareness Platforms for Sustainability and Social Innovation (IA)

!! Preferência para propostas que envolvam a sociedade civil, nomeadamente **ONGs, comunidades locais, empresas sociais, estudantes.**

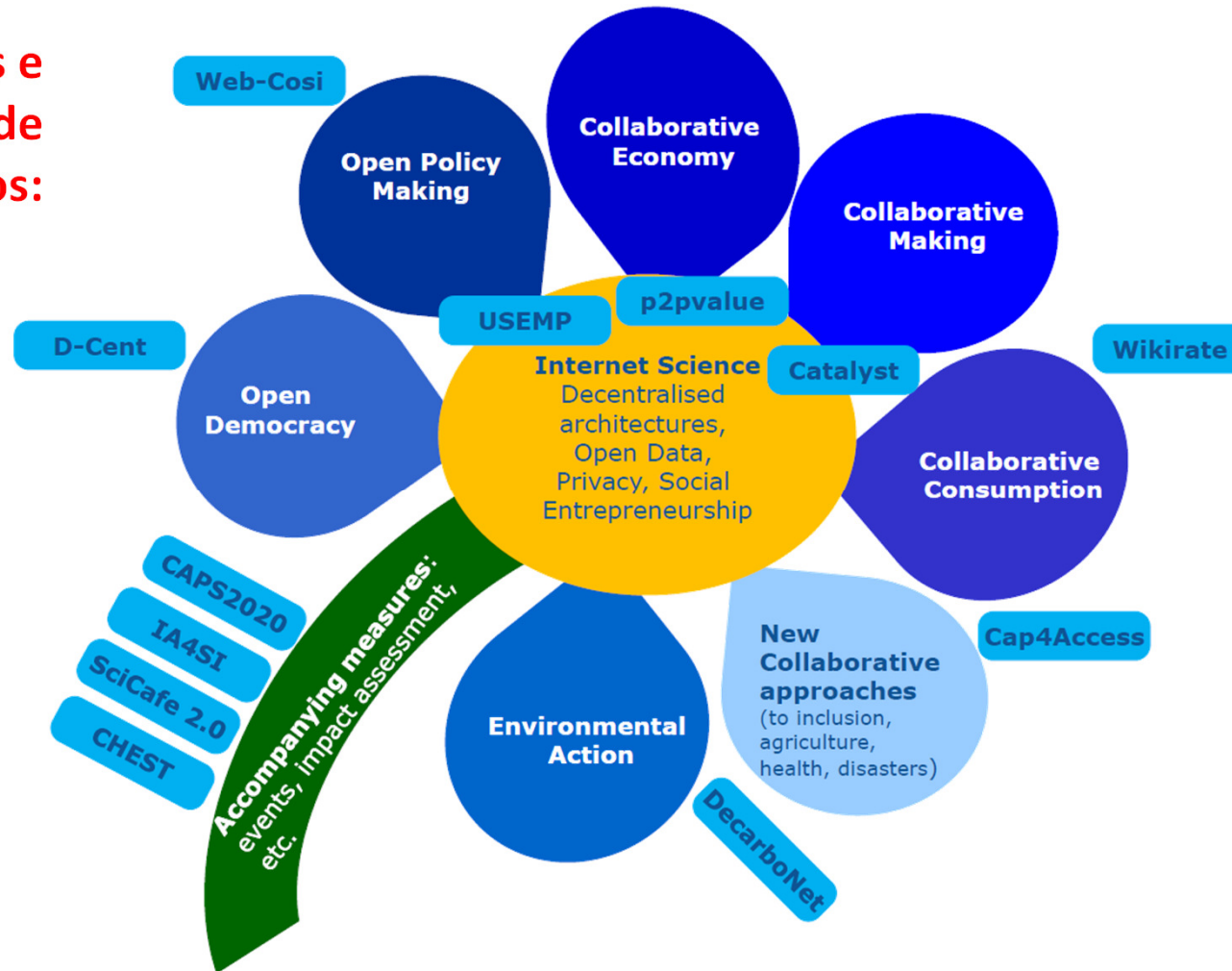
!! O consórcio deve incluir duas entidades cujo foco não sejam exclusivamente as TIC.



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ICT – Internet do Futuro

Possíveis temáticas e exemplos de projetos:



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ICT – Internet do Futuro

EC Study on Digital Social Innovation in Europe

Crowdmapping actors and networks



DIGITAL SOCIAL INNOVATION

About Blog Events Organisations Activities

<http://digitalsocial.eu/>

DIGITAL SOCIAL INNOVATION

We're setting up a network of organisations that use the Internet for social good.

- Be part of a growing community of Digital Social Innovation
- Inform better policy across the EU
- Showcase your work and network to potential funders and investors

It just takes a few minutes to get started. [Read More.](#)

[Put your organisation on the map](#) [Already signed up? Log in.](#)

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ICT – Conteúdos

New data-driven applications ...



lifecycle management



home automation



health



telecom



market research



information marketplaces



traffic management



water management



energy management

... to revolutionise decision making!

... having great economic potential!



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ICT – Conteúdos

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

Lançamento do concurso: 8/12/16

Data Limite de submissão: 25/04/17

Âmbito:

- *Demonstrate how industrial sectors will be transformed by putting data harvesting and analytics at their core.*

Impacto:

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



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ICT – Internet das Coisas

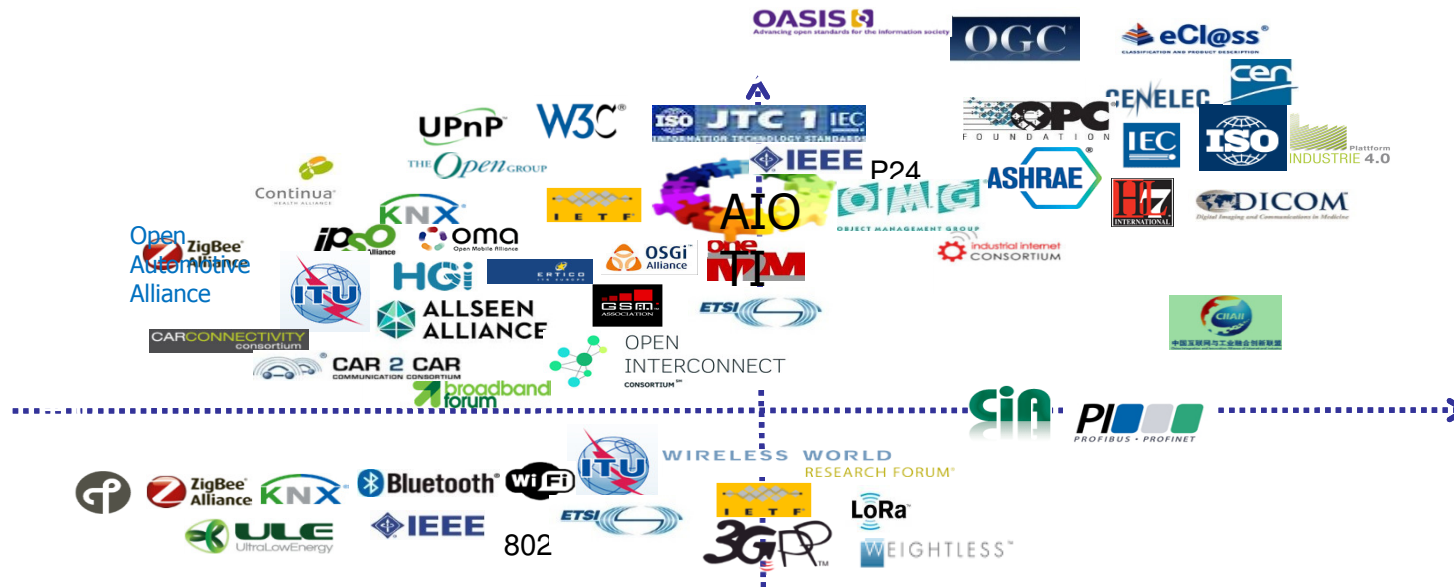
A **Internet das Coisas** representa inúmeras oportunidades para o **desenvolvimento económico** e para o **bem estar social**, sobretudo ao nível das **idades inteligentes (*smartcities*)**, com a **gestão de transportes, tráfego, saneamento, distribuição da água, eletricidade**, ou mesmo ao nível da **educação e da saúde**. Mas representa também alguns desafios desde a **privacidade à segurança dos dados e da informação**, até às questões jurídicas que são levantadas com esta nova realidade, passando pelo desenvolvimento de **novos modelos de negócio**, etc.



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ICT – Internet das coisas

Alianças existentes a nível mundial no âmbito da IoT:



Plataforma Espelho da Aliança Europeia para a Inovação na Internet das Coisas (AIOTI) Portuguesa

➔ Objetivo de agregar as entidades nacionais dentro dos temas verticais e horizontais da internet das coisas (mas também outros que sejam identificados como prioritários para o contexto Nacional) de forma a potenciar o colaboração e envolvimento das entidades nacionais com a plataforma AIOTI global.



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ICT – Internet das coisas

IoT	TOPIC	Inst.	TRL	M€/proj	Total (M€)
IoT-03-2017	R&I on IoT integration and platforms	RIA	-		35

Lançamento do concurso: 8/12/16

Data Limite de submissão: 25/04/17

Desafio:

- *Future design of IoT applications will depend crucially on sophisticated platform architectures for smart objects, embedded intelligence, and smart networks.*
- *IoT platforms should be open and easy-to-use to support third party innovation.*
- *Key points for future innovation specifically related to Actuation and Smart Behaviour.*



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ICT – Internet das Coisas

Âmbito:

- *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 – Internet das Coisas

Impacto esperado:

Two or more of the following criteria should be addressed, with success metrics where appropriate.

- *Evolution of platform technologies and contribution to scientific progress enabling novel, advanced semi-autonomous IoT applications*
- *Strengthen the industrial EU technological offer of innovative IoT solutions*
- *Support emergence of an open market of services and innovative businesses*
- *Increase of IoT usability and user acceptance, notably through strengthened security and user control*
- *Promote the adoption of EU platforms in European and international context*
- *Contribution to emerging or future standards and pre-normative activities*



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ICT – Internet das Coisas

Links úteis:

- Internet das coisas no contexto da Agenda Digital:
<http://ec.europa.eu/digital-agenda/en/internet-things>
- Aliança Europeia para a Inovação na Internet das coisas (AIOTI)
<http://www.AIOTI.eu>
- Cluster de Investigação na area da Internet das Coisas (IERC)
<http://www.internet-of-things-research.eu/>



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ICT – Internet das coisas – Call UE - Brasil

Call EU -Bazil	Tópico	Inst.	TRL	M€/proj	Total (M€)
EUB-01-2017	Cloud Computing	RIA	-		2.5
EUB-02-2017	IoT Pilots	RIA			4.5

Lançamento do concurso: 8/11/16

Data Limite de submissão: 14/03/17

Desafio:

In order to make use of the rich potential of the Internet of Things (IoT) in real-world scenarios, technologies and tools developed so far need to be demonstrated in controlled environments with the ultimate goal of validation. Given the specific nature of this Call, widely replicable pilots are targeted in view of solving specific societal challenges, in the context of EU-Brazil cooperation.



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ICT – Internet das coisas – Call UE - Brasil

Âmbito:

- *The joint call would support three pilots each addressing a distinct area among the following areas of interest for EU-Brazil collaboration:*
 - *Environmental monitoring*
 - *Utilities: smart water management*
 - *Utilities: energy management at home and in building*
 - *Smart assisted living and well-being*
 - *Smart manufacturing: customization*

Impacto Esperado:

- *Pilots should empower citizens, both in the public and private spheres, and businesses, as well as improve the associated public services where appropriate. Pilots are not only expected to validate technologies and architectures for a specific set of use cases requirements, but also the related business models to guarantee the sustainability of the approach. Security and privacy aspects relating to access to and processing of collected information need to be properly taken into consideration.*
- *Improved sharing of information, approaches and solutions, as well as expertise through:*
 - *pilots on both sides and across the Atlantic, involving end-users.*
 - *establishing common benchmarks;*
 - *contributing to standardisation and to open-source and open-data repositories*
 - *linking with ongoing work in the IoT Focus Area*



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ICT – Outras oportunidades

H2020-ICT-2016-2017 | 11 M€

25-04-2017

ICT-27(d): Robotics based solutions for smart city applications (PCP)

ICT-33(a): European wide networks of public procurers preparing future PCPs or PPIs in any area of public interest that requires ICT based solutions (CSA)

ICT-33(b): European wide networks of competence centers on innovation procurement (CSA)

→ € 4M for ICT-33 (a) and (b)



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Contactos

Dúvidas?

Contacte-nos!

Estamos ao vosso dispor através dos nossos contactos.



Eunice Ribeiro

✉ eunice.ribeiro@gppq.pt

☎ +351 93 929 09 23



Elisabete Pires

✉ elisabete.pires@gppq.pt

☎ +351 93 586 72 08



João Mil-Homens

✉ joao.mh@gppq.pt

☎ +351 91 872 16 36



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