H2020: Energia e TIC



Eunice Ribeiro Ponto de Contacto Nacional do H2020









A aplicação das TICs é transversal.



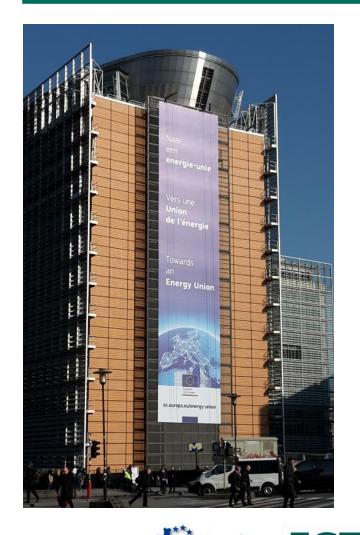








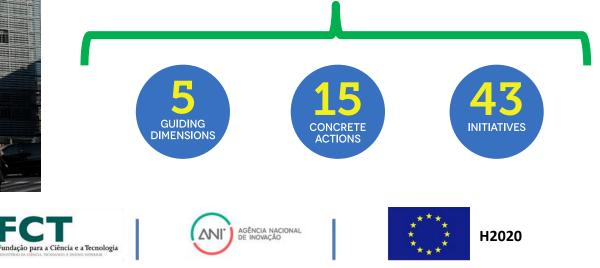
União da Energia



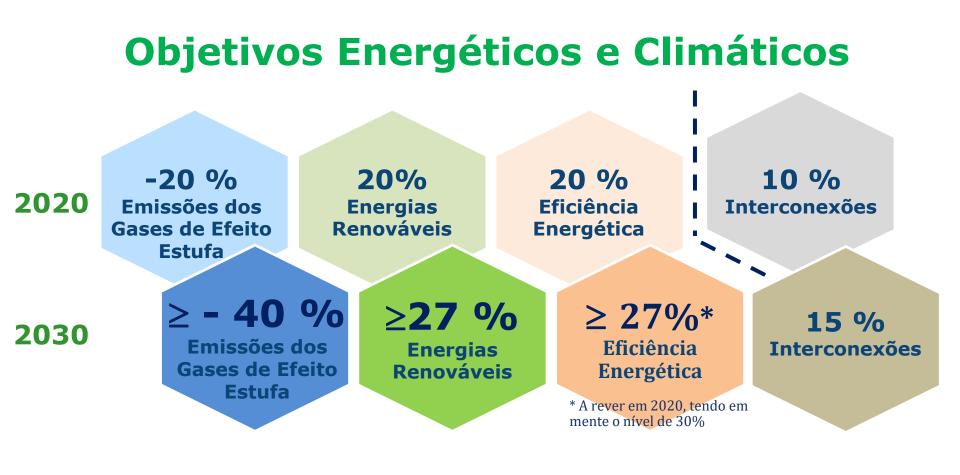
"I want to reform and reorganise Europe's energy policy in a new **European Energy Union**."

Jean Claude Juncker

http://ec.europa.eu/priorities/energy-unionand-climate_en



Metas a alcançar



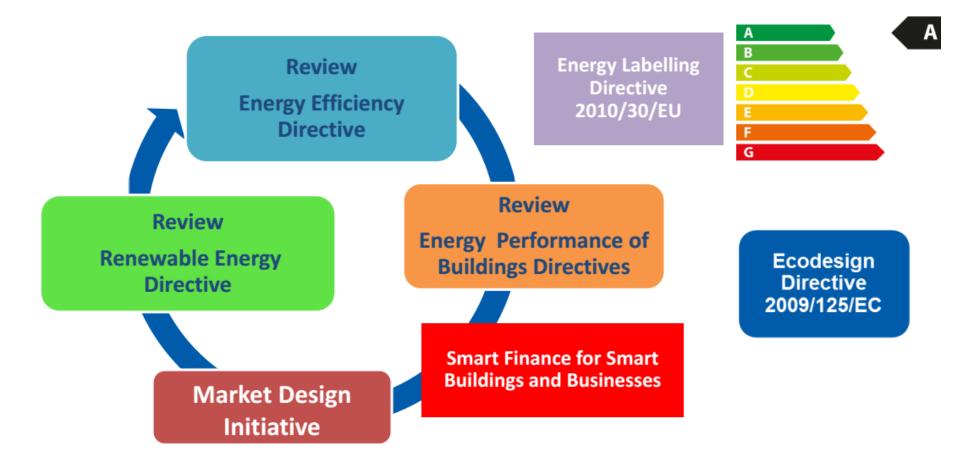




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Atualização da Legislação











SET Plan



Key Actions: priorities
1&2 – Renewables: Wind
1&2 – Renewables: PV
1&2 – Renewables: CSP/STE
1&2 – Renewables: Geothermal and Ocean
3.1 – Consumers at the centre
3.2 – Smart cities and communities
4 – Energy systems
5 – Energy Efficiency in buildings
6 – Energy efficiency in Industry
7 – Transport: e-mobility (batteries)
8 – Transport: renewable fuels
9 – CCS/CCU
10 – Nuclear

https://setis.ec.europa.eu/towards-an-integrated-SET-Plan

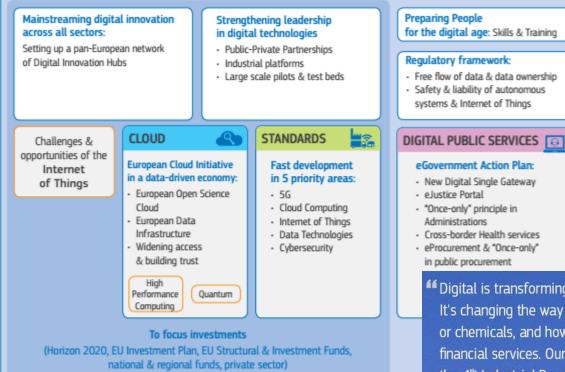








Digitising the European Industry



MOBILISING €50bn of public & private investments

- Free flow of data & data ownership

⁶⁶ Digital is transforming European industry.

European

It's changing the way we produce cars or chemicals, and how banks deliver financial services. Our challenge is to turn the 4th Industrial Revolution to our advantage, to reap the opportunities it brings."

Günther H. Oettinger

🥑 @GOettingerEU #4IR







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Programa de Trabalho ICT

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

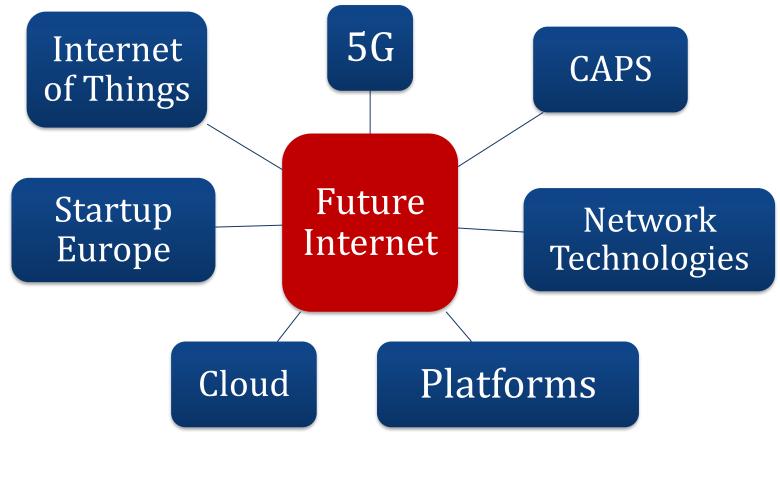








Programa de Trabalho ICT







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ICT – Future Internet

Future Internet	ΤΟΡΙϹ	Inst.	TRL	M€/proj	Total (M€)
ICT 7 2017	5G PPP Research and Validation of	RIA	-	5 – 8	100
ICT 7 - 2017	critical technologies and systems	CSA	-	3	3



Mais informação:



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

EUTC

http://utc.org/europe/









ICT – Content

Future Internet	ΤΟΡΙϹ	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









ICT – International Cooperation

Future Internet	ΤΟΡΙϹ	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









ICT – UE - Brasil



Internet of Things	ΤΟΡΙϹ	Inst.	TRL	M€/proj	Total (M€)
EUB-02-2017	Utilities: energy management at home and in buildings	IA	-	1,5	4,5









Programa de Trabalho Energia



ENERGY EFFICIENCY – 25 TÓPICOS

SMART CITIES AND COMMUNITIES – 1 TÓPICO



Programa de Trabalhos 2016-2017 - Energia Segura, Não Poluente e Eficiente

ALL LAND THE DESCRIPTION AND ADDRESS AND A

COMPETITIVE LOW CARBON ENERGY - 37 TÓPICOS













Energy Efficiency

		ΤΟΡΙϹ	Type of scheme	EC Contribution
	EE 6 – 2016/2017	Engaging private consumers towards sustainable energy	CSA	1-2M€
	Keywords: awarenes solutions, understad	as of the collective consumer action,actions to motivate changes, pro ling energy bills	osumers, vulner	able consumers, ict-
Ν	EE 7 – 2016/2017	Behavioural change toward energy efficiency through ICT	IA	1-2M€
	Keywords: ICT-base consumer choices ar	d solutions (smart meters, smart plugs, smart appliances), energy s nd behaviour	avings, factors	influencing
	EE 12 –2017	Integration of Demand Response in Energy Management Systems while ensuring interoperability through PPP (EeB PPP)	CSA	3-4M€
	•	to optimize the interaction between buildings and Intelligent Energy ng level, energy consumption, renewable energies production and loc	•	Systems towards
	EE 20 –2017	Bringing to market more energy efficient and integrated data centres	IA	2-3M€









Low Carbon Energy



Towards an Integrated Energy System	ΤΟΡΙϹ	Type of scheme	TRL	EC Contribution
LCE 1	Next generation innovative technologies enabling smart grids, storage and energy system integration with increasing share of renewables: distribution network	RIA	3-6	2-4 M€

Keywords: solutions beyond the state of the art; Areas for 2016: storage (EV) or synergies between energy networks

with increasing share of renewables

Keywords: Power transmission technologies and management of large scale generation to increase share of renewables; large scale storage relevant to the transmission network; flexibility and integration of storage in transmission grid; wholesale market facilitating the participation of variable renewables.

LCE 5	Tools and technologies for coordination and integration of the European energy system	RIA	3-6	2-4 M€

Keywords: Planning tools, TSO/DSO collaboration tools, neutral data access points, synergies between electricity, gas and heat networks, socio-economic and environmental aspects





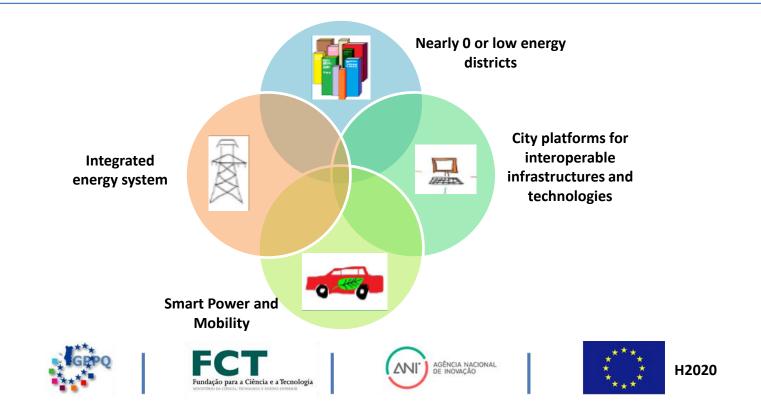




Smart Cities and Communities

Smart Cities and Communities	ΤΟΡΙϹ	Type of scheme	EC Contribution
SCC 1 – 2016/2017	Smart Cities and Communities lighthouse projects	IA (> TRL 7)	12-18 M€

Keywords: smart homes, smart energy, ICT systems and electric vehicles, integration, replication of solutions



Contactos

Dúvidas?

Contacte-nos! Estamos ao vosso dispor através dos nossos contactos.



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H2020