



UNIVERSIDADE DA CORUÑA

Resumo programa H2020 E oportunidades de financiación en proxectos colaborativos

Servizos de apoio da OTRI e oportunidades de participación para investigadores da Agrupación Estratégica Centro de Innovación Tecnolóxica en Edificación e Enxeñería Civil (A-CITEEC)



Martiño Rubal Maseda
13 de Maio 2019



OTRI

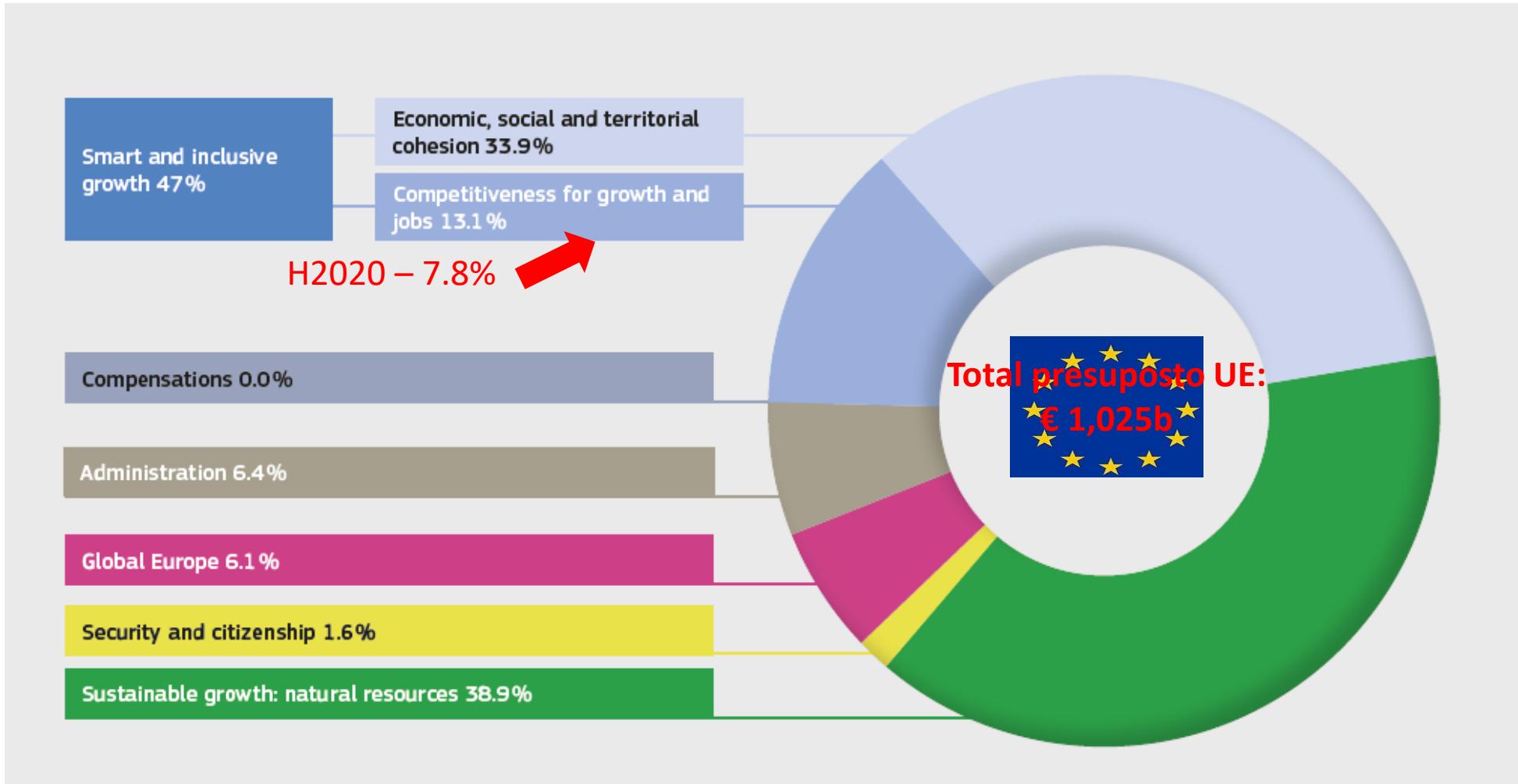
Oficina de Transferencia de Resultados de Investigación

Índice de contidos

- Horizonte 2020
- Recursos
- Convocatorias abertas

Horizonte 2020

CONTEXTO: PRESUPOSTO UE



H2020: resumo

- Programa de financiamento para investigación e innovación – case **80 billóns de euros** (2014 - 2020).
- Continuación do apoio á **investigación** de calidade.
- Máis apoio para actividades de **innovación** – creación de **oportunidades de negocio**.
- **Simplificación** dos procesos e redución dos tempos (5 meses para resolución + 3 meses para preparación acordo subvención)

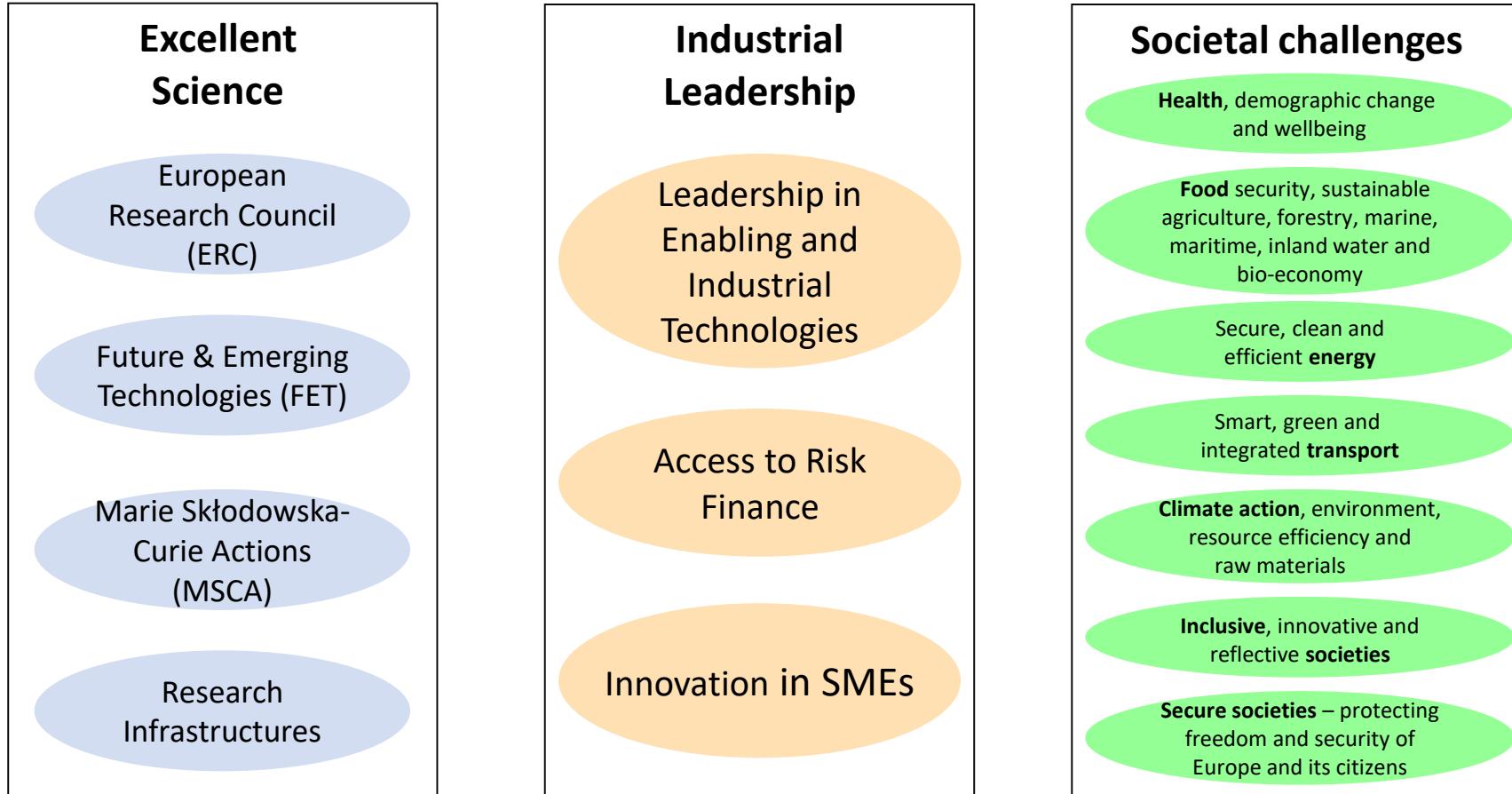
H2020: resumo

- **Regulamento de participación** más homoxéneo, coherente con outros programas da UE.
- **Un proxecto – unha porcentaxe** de financiamento.
 - Custos elixibles: directos + indirectos (25% dos custos directos).
 - Financiamento 100% para proxectos de investigación;
 - Financiamento 70 % para accións de innovación (100 % para entidades sen ánimo de lucro).
- Interese da **cooperación internacional**.
- **Criterios de avaliación**: Excelencia, Impacto, Implementación. Máximo 5 puntos por criterio.

Tipos de acciones

Type of Action ¹	Code	Minimum Conditions ²	Funding Rate	Typical Duration	Average EC Contribution	Aim
Research & Innovation Action	RIA	≥ 3 legal entities from 3 MS/AC	100%	36-48 months	€ 2.0 – 10.0M	collaborative projects for basic& applied research, technology development, integration, prototyping, testing, validation
Innovation Action	IA	≥ 3 legal entities from 3 MS/AC	70% ³	30-36 months	€ 2.0 – 5.0M	produce plans & arrangements or designs for new, altered or improved products, processes or services
Coordination & Support Action	CSA	1 legal entity	100%	12-48 months	€ 0.5 – 2.0M	accompanying measures (standardisation, dissemination, policy dialogues etc.) no research

H2020 – 3 piñares



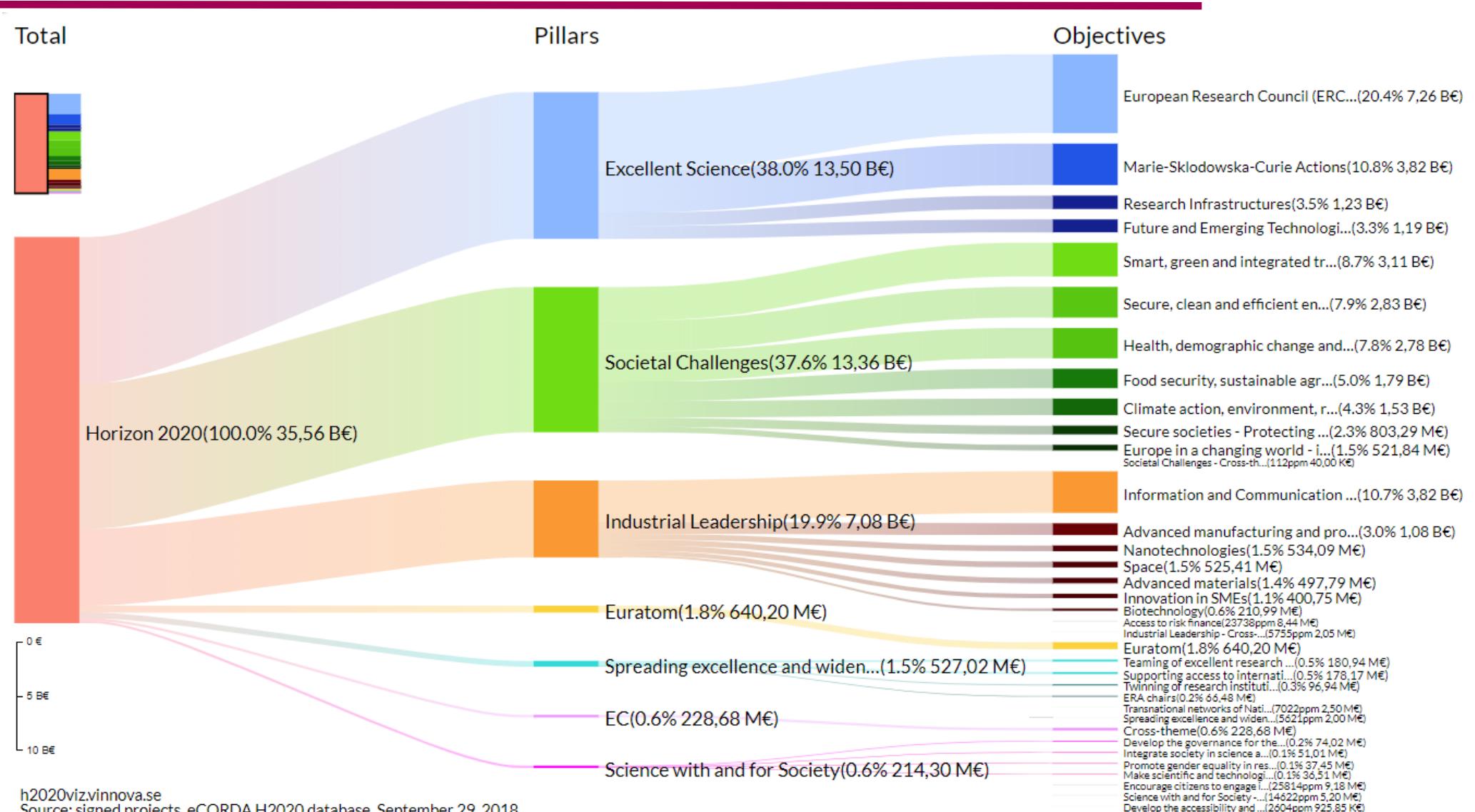
Spreading Excellence and
Widening Participation

Science with and
for Society

EIT

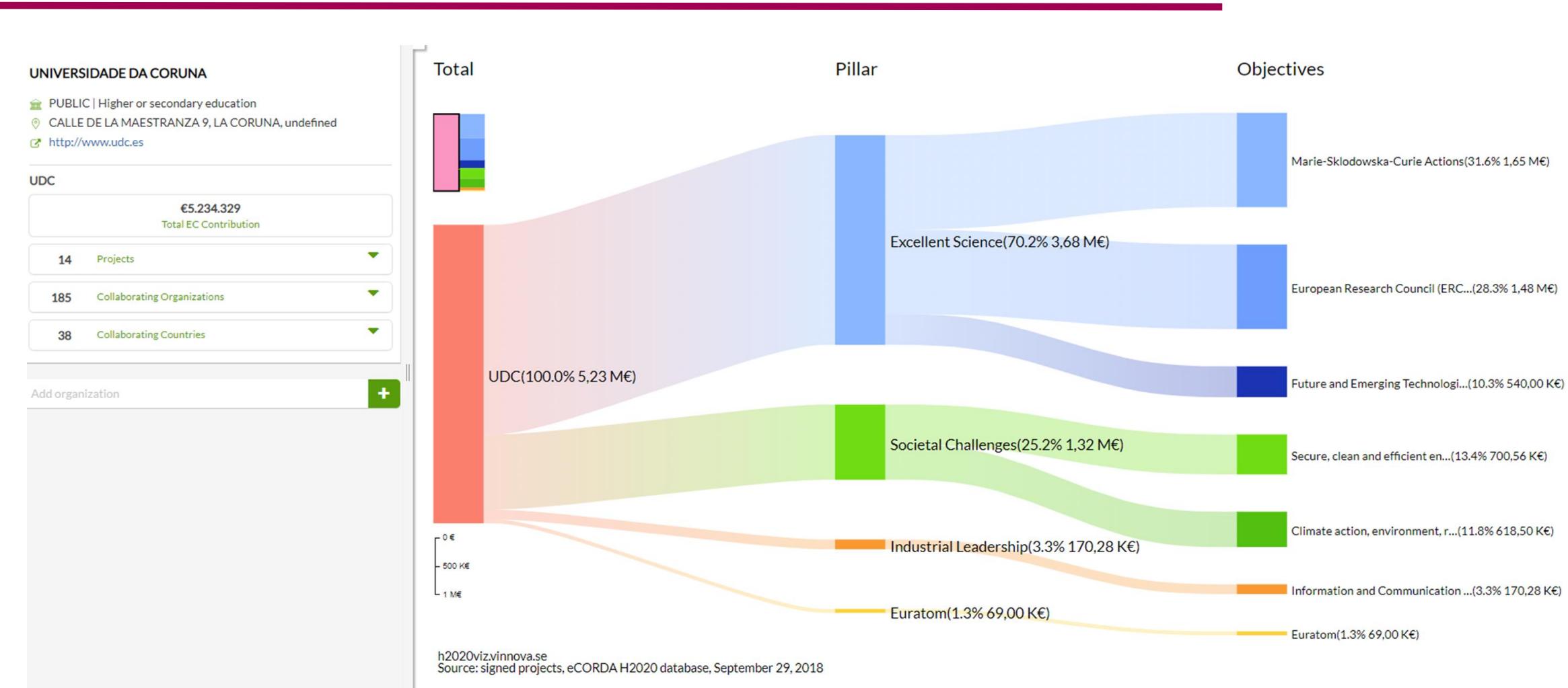
JRC

Dados da implementación de H2020 (09/2018)





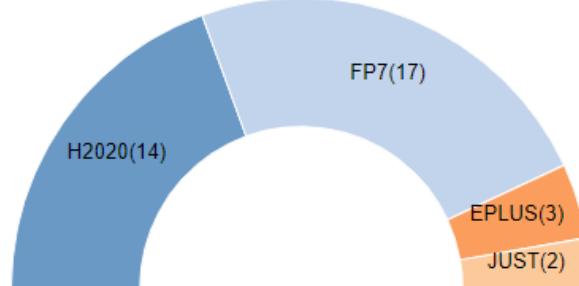
Dados da UDC 2014-2018



PROXECTOS FINANCIADOS NA UDC

Programmes

● H2020(14) ● FP7(17) ● EPLUS(3) ● JUST(2)



Roles

● BENEFICIARY(26) ● THIRD PARTY(1) ● COORDINATOR(9)

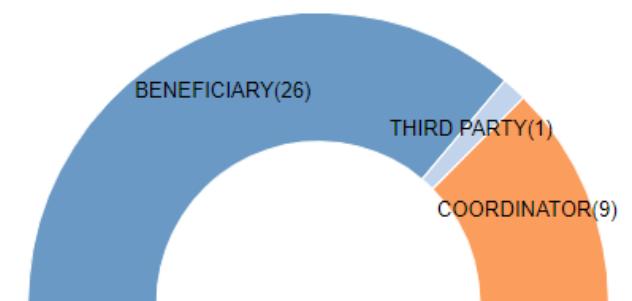
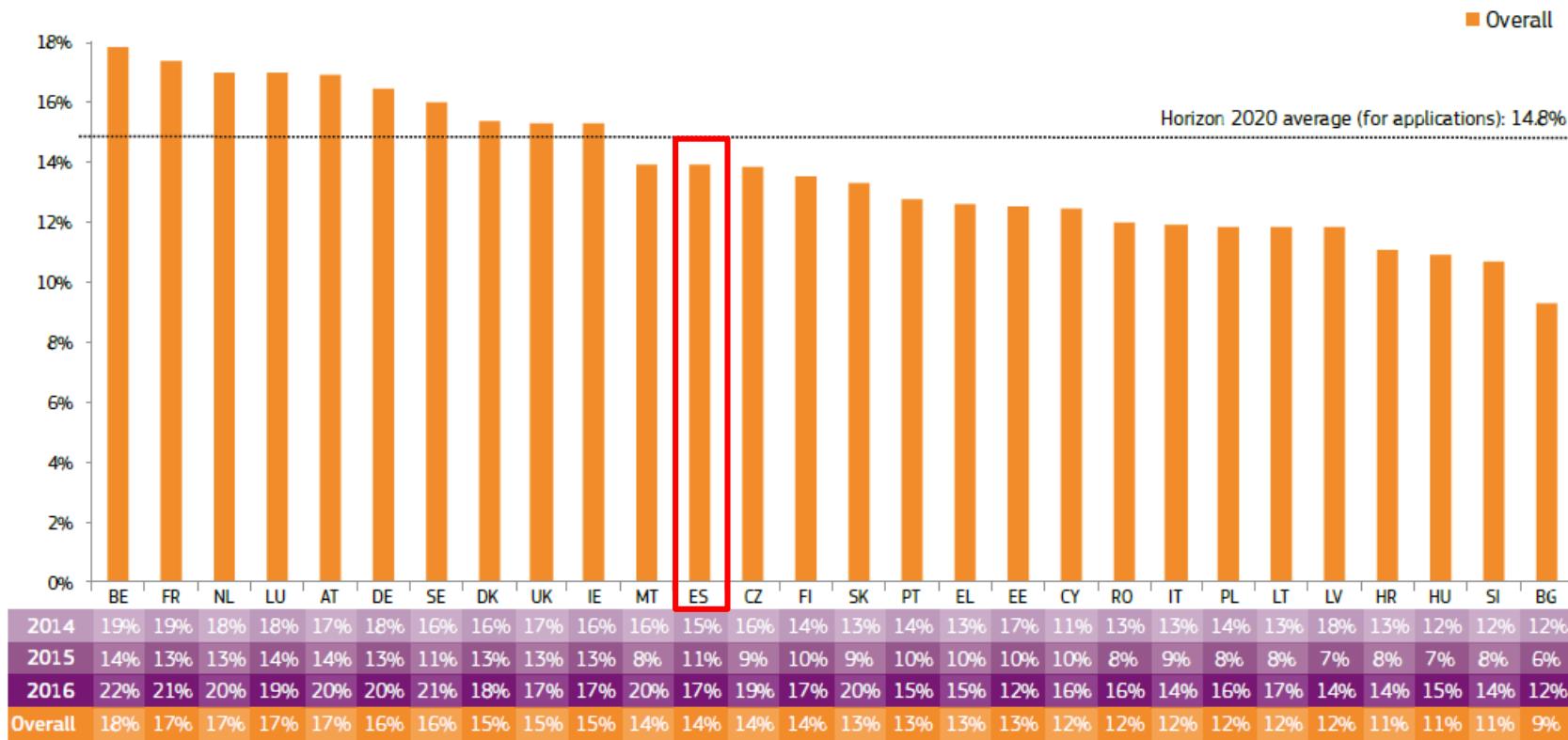


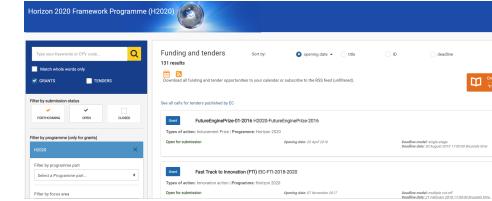


FIGURE 10: Success rates of Horizon 2020 applications per Member State, 2014-2016



RECURSOS

- Portal do Participante
(PT, reglas, socios...)



- Data Hubs
(mapas, info)
- Cordis
(proxectos, organizacíons...)



A screenshot of the EU Open Data Portal. The top navigation bar includes links for 'EUropa', 'Portal de datos abiertos de la UE', 'Acceso a los datos abiertos de la Unión Europea', 'Editor', 'Oficina de Publicaciones', and 'CORDIS - EU research projects under Horizon 2020 (2014-2020)'. The main content area features a search bar with placeholder text 'Buscar conjunto de datos' and a button 'Proponga un conjunto de datos'. Below the search bar, there are sections for 'Resultados' and 'CORDIS - EU research projects under Horizon 2020 (2014-2020)'.



PORTAL DO PARTICIPANTE

Horizon 2020 Framework Programme (H2020)



clear filter 

Type your Keywords or CPV code... 

Match whole words only

GRANTS TENDERS

Filter by submission status

FORTHCOMING OPEN CLOSED

Filter by programme (only for grants)

H2020 

Filter by programme part

Select a Programme part... 

Filter by focus area

Funding and tenders

Sort by: opening date ▲ title ID deadline

131 results

  Download all funding and tender opportunities to your calendar or subscribe to the RSS feed (unfiltered).

[See all calls for tenders published by EC](#)

Grant FutureEnginePrize-01-2016 H2020-FutureEnginePrize-2016

Types of action: Inducement Prize | Programme: Horizon 2020

Open for submission  Opening date: 20 April 2016

*Deadline model: single-stage
Deadline date: 20 August 2019 17:00:00 Brussels time*

Grant Fast Track to Innovation (FTI) EIC-FTI-2018-2020

Types of action: Innovation action | Programme: Horizon 2020

Open for submission  Opening date: 07 November 2017

*Deadline model: multiple cut-off
Deadline date: 21 February 2018 17:00:00 Brussels time*

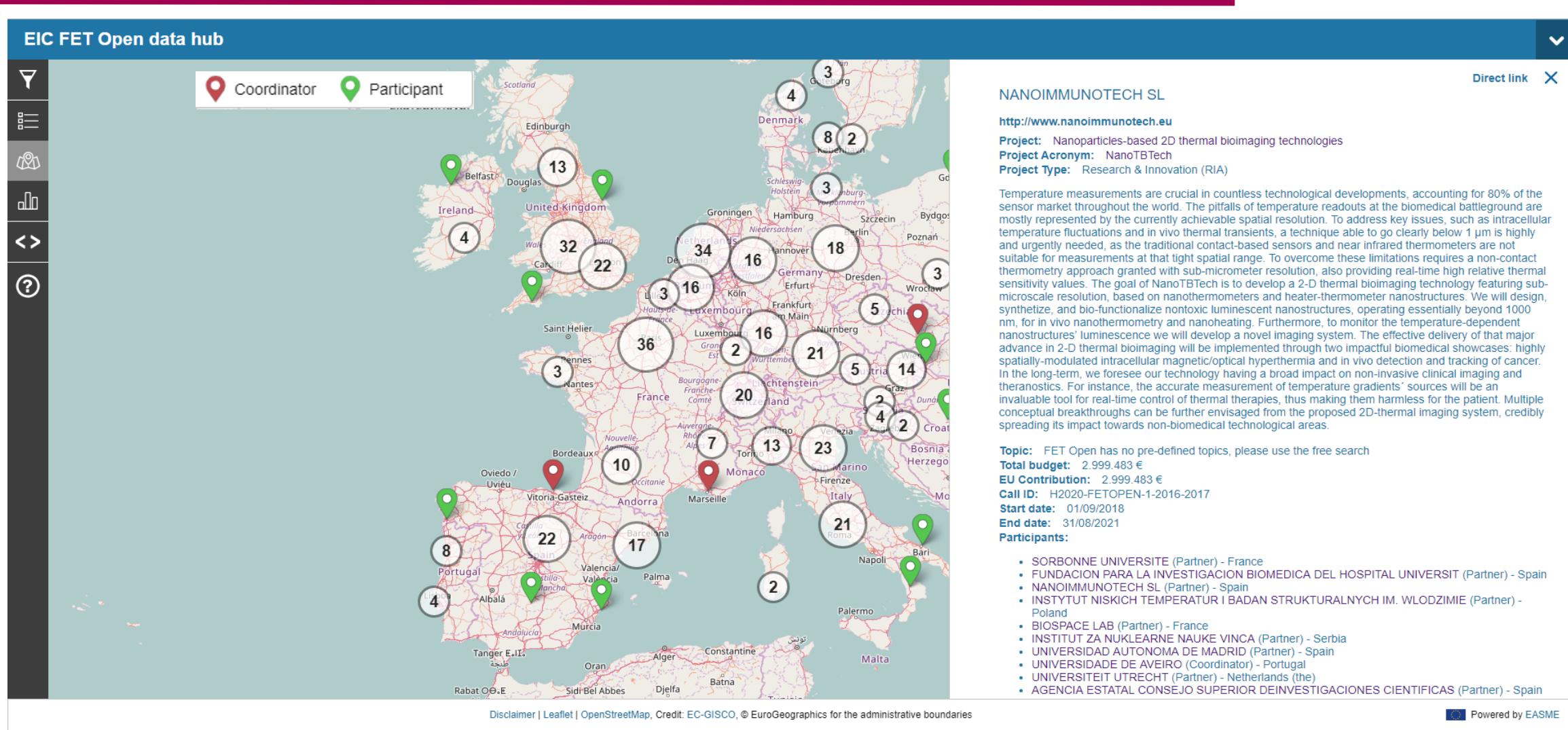
 Online manual

 "Find a grant"

[link](#)



Data Hub: FET OPEN





CORDIS



Portal de datos abiertos de la UE

Acceso a los datos abiertos de la Unión Europea

[Mapa del sitio](#) | [Aviso jurídico](#) | [Contacto](#) | [Español \(es\)](#)

[EUROPA](#) > [Portal de datos abiertos de la UE](#) > [Datos](#) > [Editor](#) > [Oficina de Publicaciones](#) > CORDIS – EU research projects un...

[Compartir](#)

[Inicio](#) [Datos](#) [Aplicaciones](#) [Datos vinculados](#) [Visualizaciones – β](#) [Desarrolladores](#) [Acerca de](#)

Buscar conjunto de datos

Buscar resultados con:

todas las palabras alguna de las palabras la frase exacta [\(?\)](#)

Proponga un conjunto de datos

¿Hay algún tipo de datos que desearía encontrar en este portal?



Díganos cuáles

CORDIS - EU research projects under Horizon 2020 (2014-2020)

Editor

[Oficina de Publicaciones](#) »

Descripción

This dataset contains projects and related organisations funded by the European Union under the Horizon 2020 framework programme for research and innovation from 2014 to 2020.

The file 'H2020 Projects' contains the public grant information for each project, including the following information: Record Control Number (RCN), project ID (grant agreement number), project acronym, project status, funding programme, topic, project title, project start date, project end date, project objective, project total cost, EC max contribution (commitment), call ID, funding scheme (type of action), coordinator, coordinator country, participants (ordered in a semi-colon separated list), participant countries (ordered in a semi-colon separated list).

The participating organisations are listed in the file 'H2020 Organisations' which includes: project Record Control Number (RCN), project ID, project acronym, organisation role, organisation ID, organisation name, organisation short name, organisation type, participation ended (true/false), EC contribution, organisation country.

The periodic or final report summaries (or publishable summaries) from the projects have been included since September 2018.

Palabras clave

H2020

research results

research and innovation

Horizon 2020

Conceptos de EuroVoc

política de investigación de la UE
proyecto de investigación
programa marco de IDT

Registro en el catálogo

Añadido a [data.europa.eu/euodp](#)

2015-07-29

Modificado en [data.europa.eu/euodp](#)

2019-04-03

Presentación: 50711

Descargas: 105079

Recursos

[DESCARGAR](#)

[H2020 Organisations](#) [EXCEL XLS](#)

[DESCARGAR](#)

[H2020 Organisations](#) [CSV](#)

[DESCARGAR](#)

[H2020 Projects](#) [CSV](#)

[DESCARGAR](#)

[H2020 Projects](#) [EXCEL XLS](#)

[DESCARGAR](#)

[H2020 Projects \(individual XML files\)](#) [ZIP](#)

[DESCARGAR](#)

[H2020 Report summaries](#) [CSV](#)

[DESCARGAR](#)

[H2020 Report summaries](#) [EXCEL XLS](#)

[DESCARGAR](#)

[H2020 Report summaries \(individual XML files\)](#) [ZIP](#)

[DESCARGAR](#)

[Principal Investigators in Horizon 2020 ERC projects](#) [EXCEL XLS](#)

[DESCARGAR](#)

[Researchers in H2020 MSCA projects](#) [EXCEL XLS](#)

[link](#)

Convocatorias abertas

Excellent Science(38.0% 13,50 B€)

Call: FET OPEN: Novel ideas for radically new technologies

Deadline - 18/09/2019

Topic identifier	Topic title	Type of action
FETOPEN-01-2018-2019-2020 (3rd cut off date)	FET-Open Challenging Current Thinking	RIA

Deadline - 13/05/2020

Topic identifier	Topic title	Type of action
FETOPEN-01-2018-2019-2020 (4th cut off date)	FET-Open Challenging Current Thinking	RIA

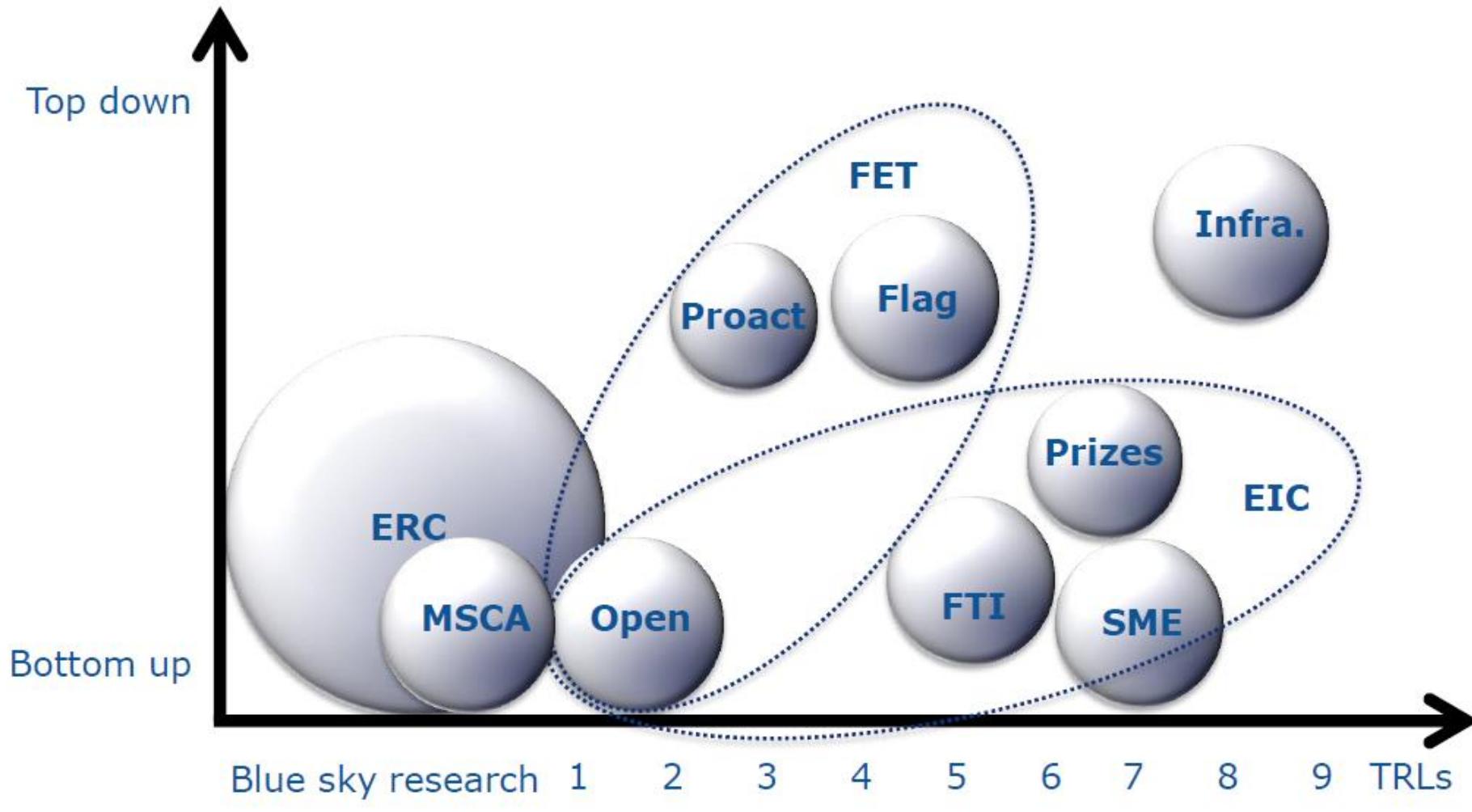
Call: FET PROACTIVE – Boosting Emerging Technologies

Deadline – 03/09/2019

Topic identifier	Topic title	Type of action
FETPROACT-EIC-05-2019	FET Proactive: emerging paradigms and communities	RIA



FET – Future and Emerging Technologies SEPT 2019



TRL – Technology Readiness Level

FET OPEN

Cut-off	Budget	Proposals submitted	Proposals funded	Success rate
<u>30. Sept. 2014</u>	~ 80 M€	639	24	3,8%
<u>31. March 2015</u>	~ 41 M€	665	11	1,7%
<u>30. Sept. 2015</u>	~ 38 M€	800	11	1,4%
<u>11. May 2016</u>	~ 88 M€	544	22	4,1%
<u>17. Jan. 2017</u>	~ 84 M€	365	26	7,1%
<u>27. Sept. 2017</u>	~ 84 M€	395	27	6,8 %
<u>16. May 2018*</u>	~ 124 M€	375	38	10%

Industrial Leadership(19.9% 7,08 B€)



Nanotechnologies, Advanced Materials and Production (NMBP)

- Nanotechnologies
- Advanced materials
- Advanced manufacturing and processing
- Biotechnology



Sustainable Nano-Fabrication (CSA) –

EXEMPLO

Sustainable Nano-Fabrication (CSA)

ID: DT-NMBP-12-2019

Focus area: Digitising and transforming European industry and services (DT)

Type of action:

- CSA Coordination and support action

Deadline Model : single-stage

Opening: 16 October 2018

Deadline: 03 September 2019 17:00:00 Brussels time

Scope:

- Establish a network of EU stakeholders that will manage information and communication among its members in the technical domains such as nano-synthesis, nanofabrication, nanostructuring, additive nanomanufacturing, nanostructure assembly, roll-to-roll nanofabrication, etc.;
- Cover research and new standards for functional nanoparticles, nanomaterials, components, devices and processes. Establish common approaches for nomenclature, metrology, measurements and characterisation applied for nanomaterials by design, three-dimensional nanostructures, multi-layer nanodevices, multi-material and multi-functional nanosystems, dynamic nanosystems, etc.;
- Provide access across Europe to services and infrastructure for SMEs;
- Cover sustainability in terms of human health, ethics, environment, life-cycle analysis;
- Cover development of the necessary skills for this new industry.



Nanotechnologies, Advanced Materials and Production (NMBP) - detalle

Deadline - 03/09/2019

Topic identifier	Topic title	Call sub-area	Type of action
DT-NMBP-12-2019	Sustainable Nano-Fabrication	Materials Characterisation and Computational Modelling	CSA
NMBP-34-2019	In support of documentary standards	Materials Characterisation and Computational Modelling	CSA



Societal Challenges(37.6% 13,36 B€)

Secure, Clean and Efficient Energy

- Energy efficiency
- Smart and clean energy for consumers
- Smart citizen-centred energy system
- Smart Cities and Communities
- Enabling near-zero CO₂ emissions from fossil fuel power plants and carbon intensive industries
- Cross-cutting issues

Secure, Clean and Efficient Energy

EXEMPLOS

- LC-SC3-EE-1-2018-2019-2020 Decarbonisation of the EU building stock: innovative approaches and affordable solutions changing the market for buildings renovation
- LC-SC3-EE-13-2018-2019-2020 Enabling next-generation of smart energy services valorising energy efficiency and flexibility at demand-side as energy resource
- LC-SC3-EE-4-2019-2020 Upgrading smartness of existing buildings through innovations for legacy equipment
- LC-SC3-EE-6-2018-2019-2020 Business case for industrial waste heat/cold recovery
- LC-SC3-NZE-4-2019 Integrated solutions for flexible operation of fossil fuel power plants through power-to-X-to-power and/or energy storage
- LC-SC3-RES-16-2019 Development of solutions based on renewable sources that provide flexibility to the energy system

Secure, Clean and Efficient Energy – detalle

Deadline - 27/08/2019

Topic identifier	Topic title	Call sub-area	Type of action
LC-SC3-CC-1-2018-2019-2020	Social Sciences and Humanities (SSH) aspects of the Clean-Energy Transition	Cross-cutting issues	RIA
LC-SC3-CC-3-2019	Support for the opening of low-carbon energy research databases in Europe	Cross-cutting issues	CSA
LC-SC3-NZE-4-2019	Integrated solutions for flexible operation of fossil fuel power plants through power-to-X-to-power and/or energy storage	Enabling near-zero CO2 emissions from fossil fuel power plants and carbon intensive industries	IA
LC-SC3-NZE-5-2019-2020	Low carbon industrial production using CCUS	Enabling near-zero CO2 emissions from fossil fuel power plants and carbon intensive industries	IA
LC-SC3-RES-16-2019	Development of solutions based on renewable sources that provide flexibility to the energy system	Global leadership in renewables	RIA
LC-SC3-RES-23-2019	Development of next generation biofuel and alternative renewable fuel technologies for aviation and shipping	Global leadership in renewables	RIA
LC-SC3-RES-7-2019	Solar Energy in Industrial Processes	Global leadership in renewables	RIA
LC-SC3-RES-29-2019	Converting Sunlight to storable chemical energy	Global leadership in renewables	RIA



Secure, Clean and Efficient Energy – detalle

Deadline - 03/09/2019

Topic identifier	Topic title	Call sub-area	Type of action
LC-SC3-EC-1-2018-2019-2020	The role of consumers in changing the market through informed decision and collective actions	Smart and clean energy for consumers	CSA
LC-SC3-EC-2-2018-2019-2020	Mitigating household energy poverty	Smart and clean energy for consumers	CSA
LC-SC3-EE-1-2018-2019-2020	Decarbonisation of the EU building stock: innovative approaches and affordable solutions changing the market for buildings renovation	Energy efficiency	IA
LC-SC3-EE-10-2018-2019-2020	Mainstreaming energy efficiency finance	Energy efficiency	CSA
LC-SC3-EE-11-2018-2019-2020	Aggregation - Project Development Assistance	Energy efficiency	CSA
LC-SC3-EE-13-2018-2019-2020	Enabling next-generation of smart energy services valorising energy efficiency and flexibility at demand-side as energy resource	Energy efficiency	IA
LC-SC3-EE-14-2018-2019-2020	Socio-economic research conceptualising and modelling energy efficiency and energy demand	Energy efficiency	RIA
LC-SC3-EE-16-2018-2019-2020	Supporting public authorities to implement the Energy Union	Energy efficiency	CSA
LC-SC3-EE-2-2018-2019	Integrated home renovation services	Energy efficiency	RIA
LC-SC3-EE-3-2019-2020	Stimulating demand for sustainable energy skills in the construction sector	Energy efficiency	CSA
LC-SC3-EE-4-2019-2020	Upgrading smartness of existing buildings through innovations for legacy equipment	Energy efficiency	IA
LC-SC3-EE-5-2018-2019-2020	Next-generation of Energy Performance Assessment and Certification	Energy efficiency	IA
LC-SC3-EE-6-2018-2019-2020	Business case for industrial waste heat/cold recovery	Energy efficiency	CSA
LC-SC3-EE-8-2018-2019	Capacity building programmes to support implementation of energy audits	Energy efficiency	CSA
LC-SC3-EE-9-2018-2019	Innovative financing for energy efficiency investments	Energy efficiency	CSA
LC-SC3-EE-18-2019	Bioclimatic approaches for improving energy performance in buildings in Africa and Europe	Energy efficiency	CSA

Societal Challenges(37.6% 13,36 B€)



Smart, green and integrated transport



Mobility for Growth
Automated Road Transport
Small Business and Fast Track Innovation for Transport



Smart, green and integrated transport

EXEMPLO

- LC-MG-1-12-2020 Cities as climate-resilient, connected **multimodal nodes for smart and clean mobility**: demonstrating and testing innovative solutions (IA)
- Mobility for Growth LC-MG-1-14-2020 **Decarbonising long distance shipping** (RIA)
- Mobility for Growth MG-2-10-2020: Towards full **automated infrastructure construction and maintenance** (RIA)
- Mobility for Growth MG-2-11-2020: Network and **traffic management** for future mobility (RIA) –
- Mobility for Growth MG-2-12-2020: Improving road safety by **monitoring effectively working patterns and overall fitness of drivers** (RIA)
- Mobility for Growth MG-2-13-2020: Coordination and support for an integrated **freight transport and logistics system** (CSA)
- Mobility for Growth MG-BG-03-2020: **Under water noise mitigation** and environmental impact (RIA)

Detalle topics - Smart, green and integrated transport (WP 2020)

- [LC-MG-1-12-2020 Cities as climate-resilient, connected multimodal nodes for smart and clean mobility: demonstrating and testing innovative solutions \(IA\)](#)
- [LC-MG-1-13-2020 Support action to fast-track and mainstream the replication of innovative, tested urban, peri-urban and rural mobility solutions \(CSA\)](#)
- [LC-MG-1-14-2020 Decarbonising long distance shipping \(RIA\)](#)
- [LC-MG-1-15-2020 Understanding and mitigating the effects on public health of emerging non-regulated nanoparticle emissions issues and noise \(RIA\)](#)
- [MG-2-10-2020: Towards full automated infrastructure construction and maintenance \(RIA\)](#)
- [MG-2-11-2020: Network and traffic management for future mobility \(RIA\) –](#)
- [MG-2-12-2020: Improving road safety by monitoring effectively working patterns and overall fitness of drivers \(RIA\)](#)
- [MG-2-13-2020: Coordination and support for an integrated freight transport and logistics system \(CSA\)](#)
- [MG-2-14-2020: Enhancing coordination between Member States' actions in the area of infrastructure research \(CSA\)](#)
- [MG-3-4-2020: Innovative electric network architectures and systems, optimising global energy, electrical power, data and communication requirements \(RIA\)](#)
- [MG-3-5-2020: Towards sustainable high-speed global air transportation \(RIA\)](#)
- [MG-3-6-2020: Next generation multifunctional and intelligent aero-structures, with emphasis on manufacturing, maintenance and recycling \(RIA\)](#)

- [MG-3-7-2020: Towards sustainable urban air mobility \(RIA\)](#)
- [MG-3-8-2020: Improved Production Processes in Ship building \(IA\)](#)
- [MG-3-9-2020: 'First of a Kind' solutions for sustainable transport and mobility: EU facility for accelerating EU-wide market access and scale up \(CSA\)](#)
- [MG-4-7-2020: Digitalisation of the transport system: data sharing, \(RIA\)](#)
- [MG-4-8-2020: Advanced research methods and tools in support of transport/mobility researchers, planners and policy makers \(RIA\)](#)
- [MG-4-9-2020: The European mobility culture of tomorrow: Reinventing the wheel? \(CSA\)](#)
- [MG-4-10-2020: Improving impact and broadening engagement in transport research \(CSA\)](#)
- [MG-BG-03-2020: Under water noise mitigation and environmental impact \(RIA\)](#)
- [DT-ART-05-2020: Efficient and safe connected and automated heavy commercial vehicles in real logistics operations \(IA\)](#)
- [DT-ART-06-2020 - Large-scale, cross-border demonstration of highly automated driving functions for passenger cars \(IA\)](#)
- [LC-GV-06-2020 - Advanced light materials and their production processes for automotive applications \(IA\)](#)
- [LC-GV-07-2020 - Reducing the environmental impact of hybrid light duty vehicles \(IA\)](#)
- [LC-GV-08-2020 - Next generation electrified vehicles for urban use \(IA\)](#)
- [LC-GV-09-2020 - Setting up a common European research and innovation strategy for the future of road transport \(CSA\)](#)
- [LC-BAT-8-2020: Next-generation batteries for stationary energy storage \(Energy part\)](#)
- [LC-BAT-9-2020: Hybridisation of battery systems for stationary energy storage \(Energy part\)](#)
- [LC-BAT-10-2020: Next generation and realisation of battery packs for BEV and HEV](#)
- [LC-BAT-11-2020: Reducing the cost of large batteries for waterborne transport \(RIA\)](#)
- [LC-BAT-12-2020 : Sensing functionalities for smart battery cell chemistries](#)

JOINT UNDERTAKINGS EN H2020 CONVOCATORIAS ABIERTAS/FUTURAS

Aeronautics
and Air
Transport
(Clean Sky 2)

Innovative
Medicines
Initiative 2

Fuel Cells
and
Hydrogen 2

Electronic
Components
and
Systems for
European
Leadership
(ECSEL)

Bio-Based
Industries

Single
European
Sky ATM
Research
(SESAR)

Shift2Rail

Convocatoria
abre Mayo 2019

Fecha límite:
tbc

Fecha límite:
Junio 2019

Non financian o 100% - necesidade de búsqueda de recursos alternativos

All Joint Undertakings functioning under Horizon 2020 will organise calls for proposals and tenders in accordance with their respective Work Plans. On many occasions a large percentage of the Programme's funding will be reserved up-front for leaders (core partners) in the JU that show the biggest commitment to the initiative's goals, while the majority of EU funding will be open to competition through calls and tenders.



OUTRAS CONVOCATORIAS



Cuarta convocatoria

Prevista para el primer semestre 2019.

Prioridades 1 y 5.

Investigación
e innovación



Competitividad
de las pymes



Economía baja
en carbono



Lucha contra el cambio
climático



Medio ambiente
y eficiencia de recursos



PRINCIPIOS RECTORES DAS ACTUACIONS

- Diversidade de tipoloxía de rexións involucradas** (partenariados e consorcios)
- Selectividade da inversión** (sectores de actividade concretos)
- Valor engadido a nivel regional, transnacional e europeo**



É o instrumento utilizado polo programa COST para permitir que investigadores, enxeñeiros, etc. dos países membros de COST e / ou estados colaboradores se xunten para desenvolver as súas propias ideas e novas iniciativas nun campo ou tema de interese común, formando redes.

- ❑ A network of researchers, engineers and scholars with nationally funded research
- ❑ Collaborating in S&T fields of common interest to at least **SEVEN** COST Countries
- ❑ Answering to the COST Open Call for proposals (twice a year)
- ❑ Evaluated and selected via a tailored procedure
- ❑ Based on a joint work programme for 4 years
- ❑ Expandable to new participants
- ❑ Implemented through networking activities: Meetings, Working Groups, Workshops, Short Term Scientific Missions, Training Schools and Dissemination Activities
- ❑ Average Annual COST Budget EUR 129 000
- ❑ Pursuing the fulfilment of the objectives and deliverables described in the approved proposal (Memorandum of Understanding)

Eventos

[8th European Aeronautics Days](#)

On 27 – 30 May 2019, the European Aeronautics Days 2019 will be held in Bucharest, Romania.



[WIE2019 \(Water Innovation Europe\)](#)

On 12 – 13 June 2019, WIE2019 will be take place in Brussels.

[EU Sustainable Energy Week - EUSEW 2019](#)

On 17-21 June 2019 the European Commission and energy stake holders organise the annual EU Sustainable Energy Week (EUSEW)

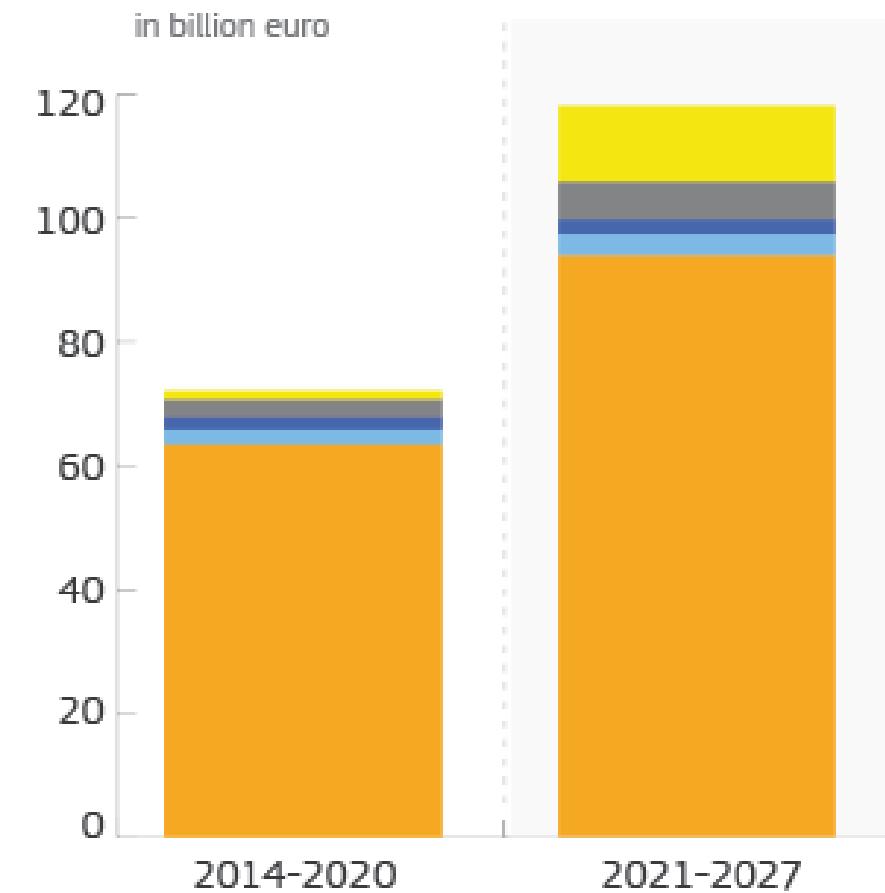
[Horizon 2020 Energy Info Days](#)

On 25-27 June 2019 Horizon 2020 Energy Info Days will take place in Brussels.

PERSPECTIVA PRESUPOSTARIA 2021 - 2027

Digital Europe Programme & Connecting Europe Facility - Digital █
International Thermonuclear Experimental Reactor (ITER) █
Euratom Research and Training Programme █
Innovation Window InvestEU Fund █
Horizon Europe █

Source: European Commission





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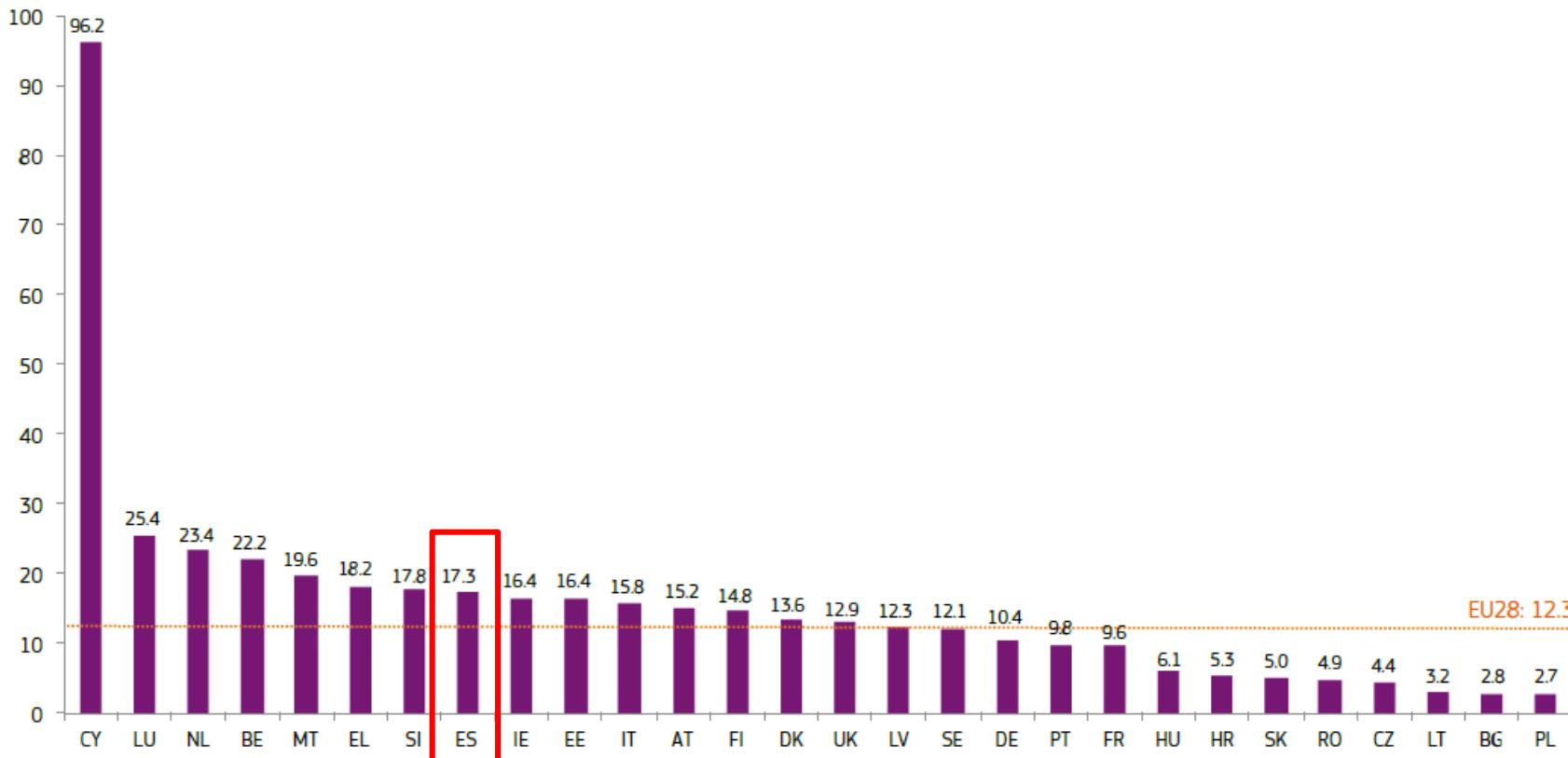


OTRI

Oficina de Transferencia de Resultados de Investigación



FIGURE 18: EU contribution per thousand R&D personnel and researchers (EUR million), per Member State, 2014-2016



Source: Corda, calls in 2014, 2015 and 2016, Signed Grants cut-off date by 1/09/2017 (including grants to named beneficiaries), Eurostat data, R&D personnel and researchers (FR: latest data: 2014, PL: latest data: 2015), November 2017