UNIVERSIDADE DA CORUÑA

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Science & Innovation Link Office

Oportunidades de colaboración UDC – Empresa en H2020 e outros programas internacionais de I+D

SILO FUNDING

5 de novembro de 2018

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Bloque II – Oportunidades de colaboración Universidade – Empresa: Proxectos colaborativos dos Piares 2 e 3 do Programa H2020, Proxectos do tipo Fast Track to Innovation do Programa H2020, Outros programas de interese: ERANET, Eurostars.

SILO FUNDING

5 de novembro de 2018

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2. Oportunidades: Pilares II y III, FTI.
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1. Eurostars
2. Eranet

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Contexto Político – H2020

Programa de apoyo de la Unión Europea para actividades de Investigación e Innovación:

- Refuerzo de la **base científica y tecnológica** de Europa.

- Promoción de beneficios para la **sociedad**.

- Mejor **explotación** del potencial económico e industrial de las políticas de innovación, investigación y desarrollo tecnológico.

Contexto Político – H2020

- Hitos relevantes en el desarrollo de la Unión Europea.
- Desarrollo y evolución de los **Programas Marco** (FP) europeos de investigación y tecnología.
- Estrategia de Lisboa / Espacio Europeo de Investigación (**ERA**).
- Estrategia **Europa 2020** para el crecimiento - Iniciativas emblemáticas - Unión por la Innovación.
- **Horizonte 2020**.

Contexto Político – H2020

- H2020 debe contribuir a estas iniciativas políticas,
  - Europa 2020
  - Unión por la innovación
  - ERA
- Ayudar en la generación de **crecimiento** y puestos de trabajo
- Abordando las preocupaciones de los **ciudadanos** sobre seguridad, subsistencia, medio ambiente, etc.
- Fortaleciendo la **posición global de la UE** en investigación, innovación y tecnología.

Contexto Político – H2020

Mecanismo para implementar la Unión por la innovación (Europa 2020)

Consideraciones iniciales

¿Cómo es un Proyecto europeo tipo?

- **Valor añadido europeo**.
- Proyecto **colaborativo**: 3 entidades de tres países de la UE o Estados Asociados.
- Alineado con las líneas de I+D+i de la **convocatoria** y/o del programa de trabajo considerados (**topics**).
- Cumple con la **legislación** nacional y de la UE, incluyendo los aspectos éticos que sean de aplicación.

Consideraciones iniciales

¿Estoy preparado para participar?

- ¿Oportunidad en línea con mi **estrategia**?
- Colaboración con socios internacionales:
  - ¿Estoy dispuesto?
  - ¿Tengo socios o puedo encontrarlos?
- Características de las convocatorias:
  - Muy competitivas
  - Tiempo hasta la financiación

Consideraciones iniciales

Una aproximación metódica

- Definición de una breve idea de Proyecto.
- Búsqueda de oportunidades de financiación.
- Validación de la idea de Proyecto: decisión final.
- Preparación de la propuesta:
  - Consorcio
  - Solicitud
- Aprovechar el apoyo disponible: en la entidad, red de NCPs, Enterprise Europe Network, proyectos europeos, etc.

Consideraciones iniciales

Beneficios derivados de la participación

- Cooperación con entidades clave en determinada área
- Formación del personal
- Acceso a nuevas tecnologías
- Acceso a nuevos mercados
- Reputación internacional
- Financiación para I+D

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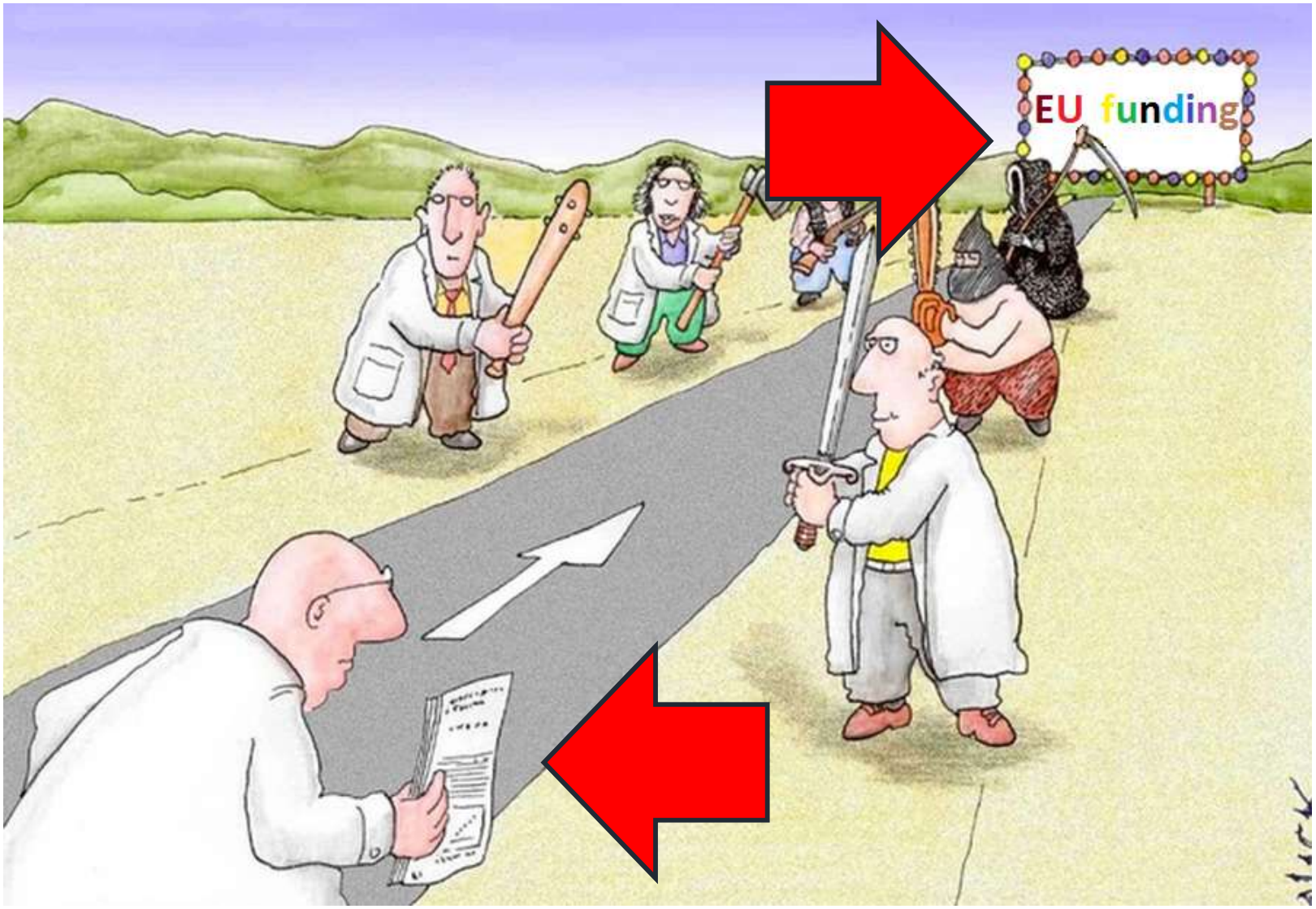
H2020: resumen



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H2020: resumen

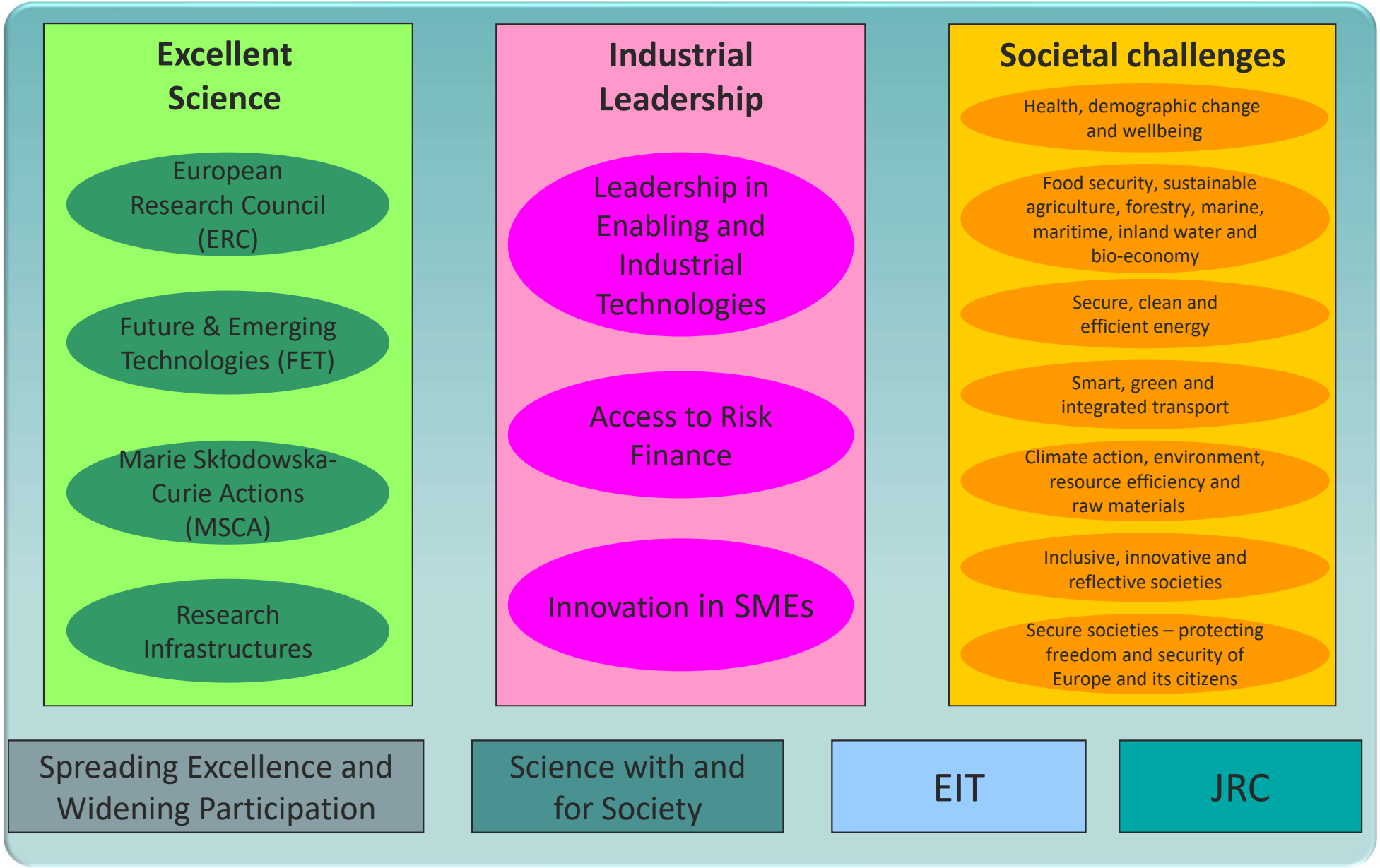
- Programa de financiación para investigación e innovación con **80 mil millones de euros** (2014 - 2020).
- Nuevo Programa Marco (FP), que agrupa tres programas/iniciativas (FP, EIT, CIP).
- Continuación del apoyo a la **investigación** básica.
- Más apoyo para actividades de **innovación** – creación de **oportunidades de negocio**.
- **Simplificación** de los procesos y reducción de los tiempos (5 meses para resolución + 3 meses para preparación acuerdo subvención)

H2020: resumen

- **Nuevo reglamento de participación** más homogéneo.
- **Un proyecto – un porcentaje de financiación**.

- Costes elegibles: directos + indirectos (25% de los costes directos).
- Financiación: 100% para proyectos de investigación;
- Financiación: 70 % para acciones de innovación (100 % para entidades sin ánimo de lucro).

- Interés en **cooperación internacional**.
- **Criterios de evaluación**: Excelencia, Impacto, Implementación. Máximo 5 puntos por criterio.


Excellent Science
European Research Council (ERC)
Future & Emerging Technologies (FET)
Marie Skłodowska-Curie Actions (MSCA)
Research Infrastructures
Industrial Leadership
Leadership in Enabling and Industrial Technologies
Access to Risk Finance
Innovation in SMEs
Societal challenges
Health, demographic change and wellbeing
Food security, sustainable agriculture, forestry, marine, maritime, inland water and bio-economy
Secure, clean and efficient energy
Smart, green and integrated transport
Climate action, environment, resource efficiency and raw materials
Inclusive, innovative and reflective societies
Secure societies – protecting freedom and security of Europe and its citizens
Spreading Excellence and Widening Participation
Science with and for Society
EIT
JRC

H2020: Pilar I

Horizon 2020: Excellent Science (€Bn)

European Research Council (ERC) *Supporting world leading scientist in blue sky research*	**13.09**
Future and Emerging Technologies (FET) *Collaborative research to open new fields of innovation*	**2.70**
Marie Skłodowska-Curie actions (MSCA) *Opportunities for training and career development*	**6.16**
Research infrastructures (including e-infrastructure) *Ensuring access to world-class facilities*	**2.49**

H2020: Pilar II

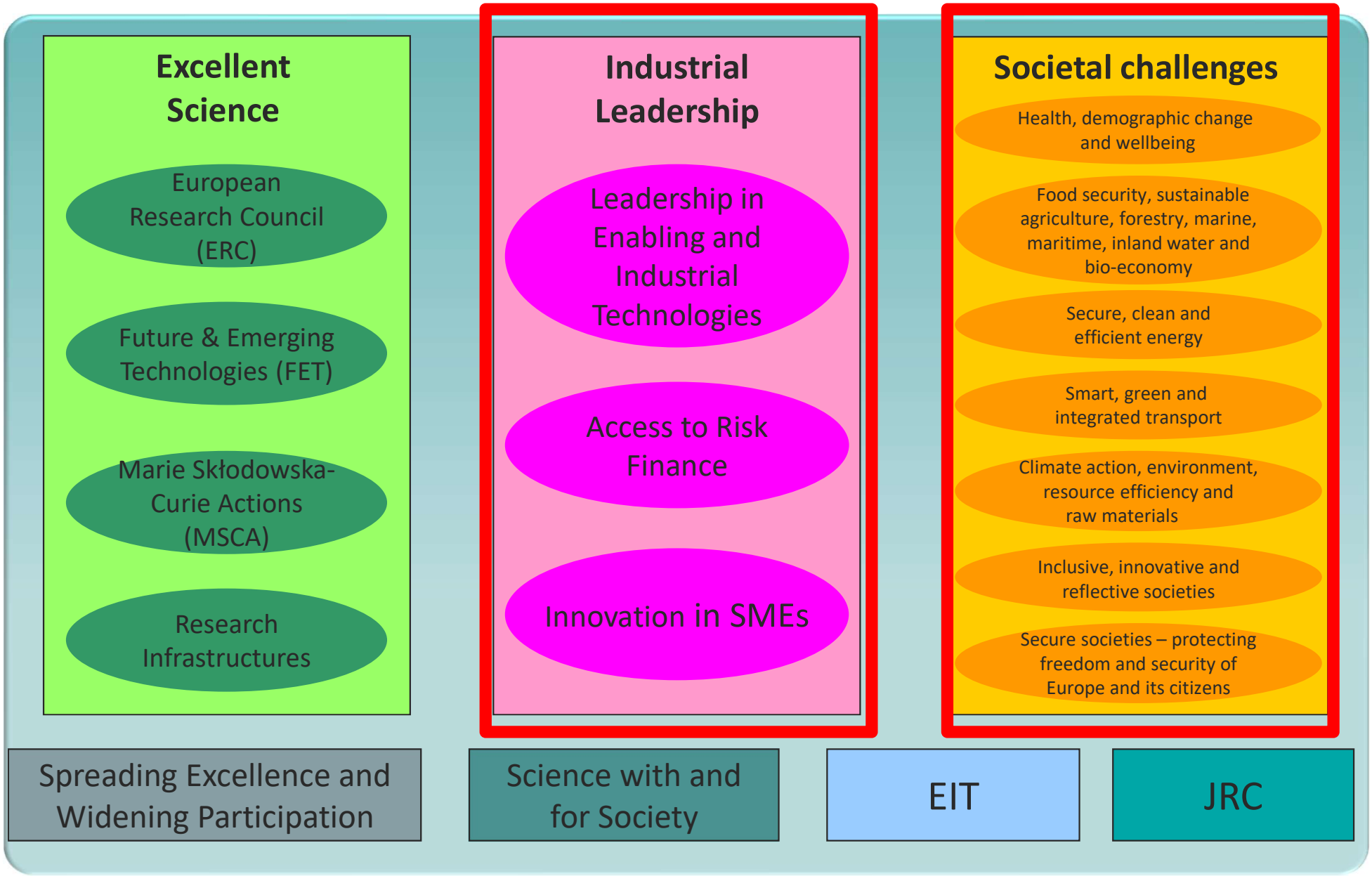
Horizon 2020: Industrial Leadership (€Bn)

Leadership in enabling and industrial technologies (LEIT) *ICT, nanotechnologies , advanced materials, biotechnology , advanced manufacturing and processing, space*	**13.56**
Access to risk finance *Leveraging private finance and venture capital for research and innovation*	**2.84**
Innovation in SMEs *Fostering all forms of innovation in all types of SMEs*	**0.6 complemented by c. 20% of societal challenges and industrial leadership**

H2020: Pilar III

Horizon 2020: Societal challenges (€Bn)

Health, demographic change and wellbeing	7.47
Food security, sustainable agriculture & the bioeconomy	3.85
Secure, clean and efficient energy	5.93
Smart, green and integrated transport	6.34
Climate action, resource efficiency and raw materials	3.08
Europe in a changing world - inclusive, innovative and reflective societies	1.31
Secure societies – protecting freedom and security of Europe and its citizen	1.69



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H2020: Pilares II y III

- Programas de trabajo para un período de 2 años.
- Restricciones temáticas (topics).
- Convocatorias periódicas (anuales).
- Proyectos colaborativos: mínimo 3 participantes.
- Distintos esquemas de financiación:
  - *Research and Innovation Actions (RIA).*
  - *Innovation Actions (IA).*
  - *Coordination and Support Actions (CSA).*
  - *Fast Track to Innovation (FTI).*
  - *SME Instrument.*

H2020: Pilares II y III

Research & Innovation Actions (RIA)

- Proyectos colaborativos transnacionales para generar nuevo conocimiento y/o explorar la viabilidad de nuevas tecnologías, productos, procesos, servicios, etc. Pueden incluir investigación básica y aplicada, desarrollo tecnológico e integración, testaje y validación mediante prototipos a pequeña escala o laboratorio.
- Financiación: 100 % de los costes elegibles.

Innovation Actions (IA)

- Proyectos colaborativos transnacionales que generalmente incluyen actividades de desarrollo de prototipos, ensayos, demostración, validación de producto a gran escala. NO investigación básica.
- Financiación : 70 % de los costes elegibles(100% entidades sin ánimo de lucro).

H2020: Pilares II y III

Coordination & Support Actions (CSA)

- Medidas de acompañamiento para financiar actividades como estandarización, difusión, sensibilización y comunicación, redes, estudios, etc.
- Financiación: 100 % de los costes elegibles.

Fast Track to Innovation (FTI)

- Son acciones de innovación (IA) particulares: 3 – 5 socios. Proyectos 2-3 anos, máximo 3 Mn € de presupuesto
- Mayoría del sector privado: 2 socios en consorcios de 3/4 entidades, o 3 socios en consorcios de 5 entidades, o 60% del presupuesto de la propuesta (total de costs elegibles).
- Financiación: 70 % de los costes elegibles (100% entidades sin ánimo de lucro).

H2020: Pilares II y III

RIA

TRL 1 – basic principles observed

TRL 2 – technology concept formulated

TRL 3 – experimental proof of concept

TRL 4 – technology validated in lab

IA
SMEs
FTI

TRL 5 – technology validated in relevant environment (industrially relevant environment in the case of key enabling technologies)

TRL 6 – technology demonstrated in relevant environment (industrially relevant environment in the case of key enabling technologies)

TRL 7 – system prototype demonstration in operational environment

TRL 8 – system complete and qualified

TRL 9 – actual system proven in operational environment (competitive manufacturing in the case of key enabling technologies; or in space).

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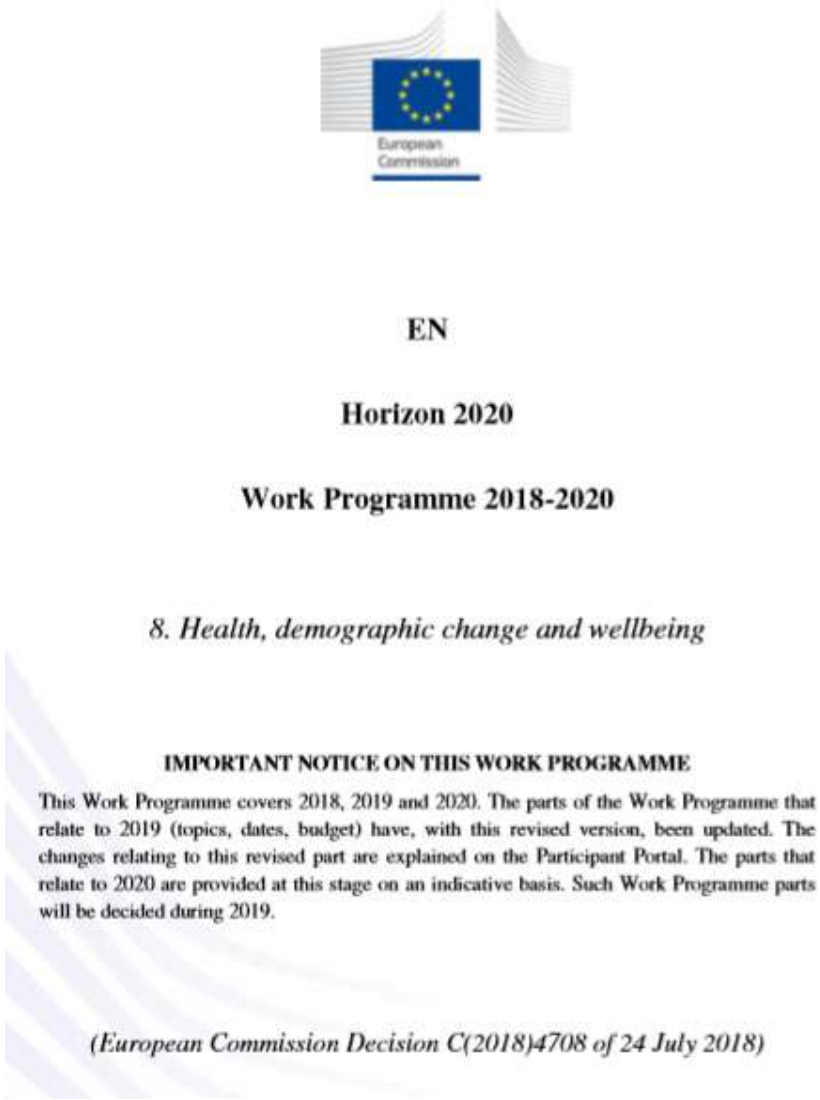
H2020: Programa de trabajo

- Listado organizado de prioridades (**topics**) para un período temporal.
- Calendario de apertura y cierre de cada convocaroria.
- Presupuesto por topic.
- **Tamaño, alcance e impacto de los proyectos esperados**.
- Puede contener condiciones particulares de **elegibilidad**.



European Commission

EN

Horizon 2020

Work Programme 2018-2020

8. Health, demographic change and wellbeing

IMPORTANT NOTICE ON THIS WORK PROGRAMME

This Work Programme covers 2018, 2019 and 2020. The parts of the Work Programme that relate to 2019 (topics, dates, budget) have, with this revised version, been updated. The changes relating to this revised part are explained on the Participant Portal. The parts that relate to 2020 are provided at this stage on an indicative basis. Such Work Programme parts will be decided during 2019.

(European Commission Decision C(2018)4708 of 24 July 2018)

H2020: Programa de trabajo

EN

Horizon 2020

Work Programme 2016 - 2017

5.ii. Nanotechnologies, Advanced Materials, Biotechnology and Advanced Manufacturing and Processing

Important notice on the second Horizon 2020 Work Programme

This Work Programme covers 2016 and 2017. The parts of the Work Programme that relate to 2017 (topics, dates, budget) have, with this revised version, been updated. The changes relating to this revised part are explained on the Participant Portal.

(European Commission Decision C(2016)4614 of 25 July 2016)

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H2020: Programa de trabajo

NMBP-06-2017: Improved material durability in buildings and infrastructures, including offshore

Specific Challenge: Durability is a key criterion for materials in many applications and environments. Longer performing materials can strongly reduce overall life time costs, such as lower usage costs through reduced maintenance and shorter service interruptions. Costs may also be reduced in the production phase (raw materials, energy, transport, formability), in the installation phase, and the materials may be more appropriate for end of life reuse/recycling. Typical applications requiring excellent long term durability and high reliability are buildings, marine applications and infrastructures including off shore.

In many applications, operational durability needs to be better understood, particularly for innovative products which have no demonstrated long term performance. Durability has to be evaluated both theoretically and in real installation conditions (including within challenging environments when relevant) as these may influence final product performance.

Scope: Research proposals should address all of the following activities: theoretical understanding (and development of models if appropriate) of the factors which affect durability of materials, including corrosion and ageing phenomena; experimental methods to measure and reliably test durability, non-destructive inspection procedures and monitoring tools; development of new and more durable materials (possibly multifunctional); and "fit for purpose" validation of new materials through life testing in the planned application and environment.

The proposed solutions should go well beyond the state of the art and it should be demonstrated that materials with improved durability also fulfil all other properties necessary for the application proposed.

The following factors should also be all considered: principles of sustainability (the sustainability of each developed solution should be evaluated via life cycle assessment studies carried out according to the International Reference Life Cycle Data System - ILCD Handbook); ease of installation; realistic solutions at a reasonable price and appropriateness for the operational environment; resistance to harsh environments if applicable. When relevant, design considerations (optimal combination of new materials) should also be considered. Recycling/reuse of materials should also be addressed. Standardisation aspects should be considered when relevant. Proof of concept in terms of one (or more) component(s) containing the new materials developed should be delivered within the project, excluding commercially usable prototypes (2006/C323/01), but convincingly demonstrating scalability towards industrial needs. Information guides for applications, installation and any appropriate training on the new solutions should be provided before the end of the project.

The implementation of this topic is intended to start at TRL 4 and target TRL 6.

This topic is particularly suitable for the participation of SMEs.

The Commission considers that proposals requesting a contribution from the EU between EUR 3 and 6 million would allow this specific challenge to be addressed appropriately. Nonetheless, this does not preclude submission and selection of proposals requesting other amounts.

Expected Impact:

- At least 30% improvement in durability on the most relevant properties for the application;
- At least equivalent level for all other properties;
- At least 30% lower cost;
- Positive LCA balance over the whole life cycle;
- Proposals will have a higher impact if they are relevant to several applications;
- Contribution to strengthening competitiveness of the European industry, including in the field of "green" and/or offshore technologies.

Proposals should include a business case and exploitation strategy, as outlined in the Introduction to the LEIT part of this Work Programme.

Type of Action: Research and Innovation action

The conditions related to this topic are provided at the end of this call and in the General Annexes.

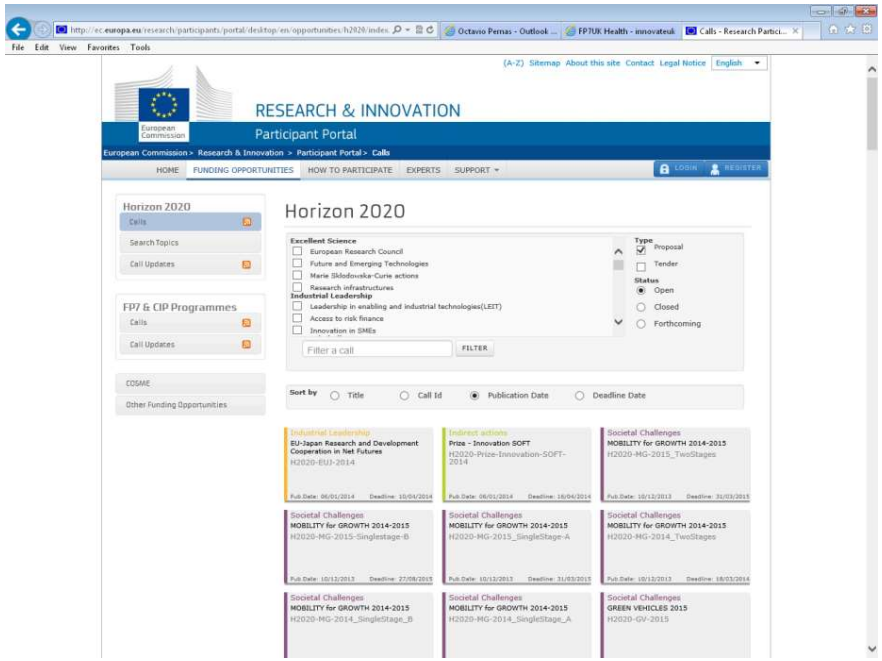
NMBP-07-2017: Systems of materials characterisation for model, product and process optimisation

Specific Challenge: As material systems and device structures become nanosized and nanostructured, significant challenges exist with respect to their design and the tailoring of their functions in a controlled way. The use of discrete materials models, as a bridge for linking and coupling nanostructure features to macroscopic device functionality is gaining increasing importance in the fast and reliable development of new materials, devices, and the control of the related production processes. Characterisation techniques and experimental data for process optimisation and model validation are key in such developments.

Europe has a large number of first-class laboratories for characterisation in the field of advanced materials and nanotechnologies. In some cases, regional hubs of laboratories addressing characterisation for specific industrial or application sectors have already been successfully established. Nevertheless, there is an ever increasing need for a strong transnational and trans-sectorial coordination and optimisation of existing characterisation technologies and their utilisation for the benefit of widespread process optimisation and model validation. This includes the need for widely agreed experiment protocols, multi-

H2020: Portal del participante

- Programas de trabajo
- Reglamentos participación
- Anexos
  - Formularios de solicitud
  - Criterios de elegibilidad
  - Esquemas de financiación
  - Área de expertos
- Electronic Submission Service (ESS)



http://ec.europa.eu/research/participants/portal/desktop/en/home.html

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Iniciativas relacionadas

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Iniciativas relacionadas

- Public Private Partnerships (PPPs)
- Joint Technology Initiatives (JTIs)
- Joint Programming Initiatives (JPIs)
- European Innovation Partnerships (EIPs)
- European Research Area Networks (ERANET)
- EUROSTARS

Iniciativas relacionadas: ERANET

ERANET:

Objetivo: es fomentar **cooperación y la coordinación de las actividades y políticas de investigación** desarrolladas en los Estados Miembros y Estados Asociados a través de sus respectivos programas de investigación, nacionales y regionales.

Convocatorias de ayudas para proyectos de investigación conjuntos: convocatorias transnacionales a las que se aplican **procedimientos de solicitud, evaluación y selección de propuestas comunes**, que han sido elaborados y consensuados por todas las agencias participantes.

Iniciativas relacionadas: ERANET

ERANET (ejemplos)

- INFECT-ERA (MINECO, Carlos III), http://www.infect-era.eu/
- ERA-IB-2 (MINECO), http://www.era-ib.net/
- BESTF2 (CDTI), http://eranetbestf.net/two/
- ERA-MBT (MINECO), http://www.marinebiotech.eu/marine-biotechnology-era-net/
- EURONANOMED3 (Carlos III), http://www.euronanomed.net/
- M-ERANET (Andalucía, Asturias, Euskadi, Madrid), https://www.m-era.net/
- INCOMERA (Andalucía, Galicia, C. Valenciana), http://www.incomera.eu/

http://cordis.europa.eu/projects/result_en?q=contenttype=%27project%27%20AND%20%27ERANET%27&num=10&srt=/project/contentUpdateDate:decreasing

Iniciativas relacionadas: ERANET

EuroNanoMed3

HOME ACTIVITIES FUNDING OPPORTUNITIES PROJECTS FUNDED MEDIA CONTACTS

JOINT TRANSNATIONAL CALL 2019 WILL BE LAUNCHED IN MID-NOVEMBER 2018

October 11, 2018

PRELIMINARY ANNOUNCEMENT

Joint Transnational Call for Proposals (2019) for "European Innovative Research & Technological Development Projects in Nanomedicine"

Iniciativas relacionadas: EUROSTARS

EUROSTARS:

Eurostars is a **funding programme supporting SMEs** by funding innovative projects that will be rapidly commercialised..

Eurostars focuses on SMEs, especially R&D performing SMEs.

A project consortium must have **at least 2 different partners** (independent legal entities) from 2 different Eurostars countries.

The overall project budget must reflect this **international collaboration** which means following the 75% rules:

- No organisation can be responsible for more than 75% of the total project budget.
- No participants from a given country may be responsible for more than 75% of the total project budget.

Iniciativas relacionadas: EUROSTARS

EUROSTARS:

Eurostars is about commercialisation

Eurostars applicants must submit a project that will develop new products, processes or services. **Any project should have the market and commercialisation in mind.**

The project must be completed in 36 months or fewer and the market introduction (or the start of clinical trials for life sciences projects) is planned to occur within 24 months of the project's completion.

National rules apply!! (Spain: CDTI). For example: funding rates, public bodies participation, etc.

GRAZAS!

GRACIAS!

THANK YOU!

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Información adicional

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