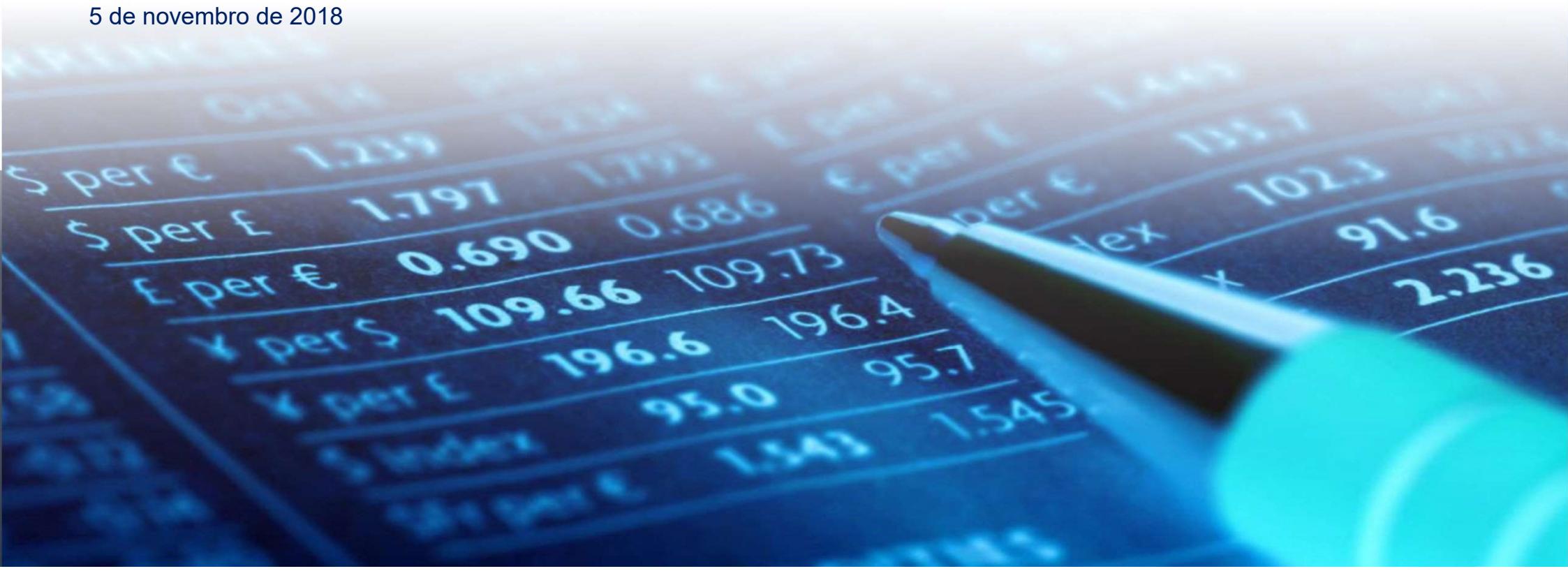


Oportunidades de colaboración UDC – Empresa en H2020 e outros programas internacionais de I+D

SILO FUNDING

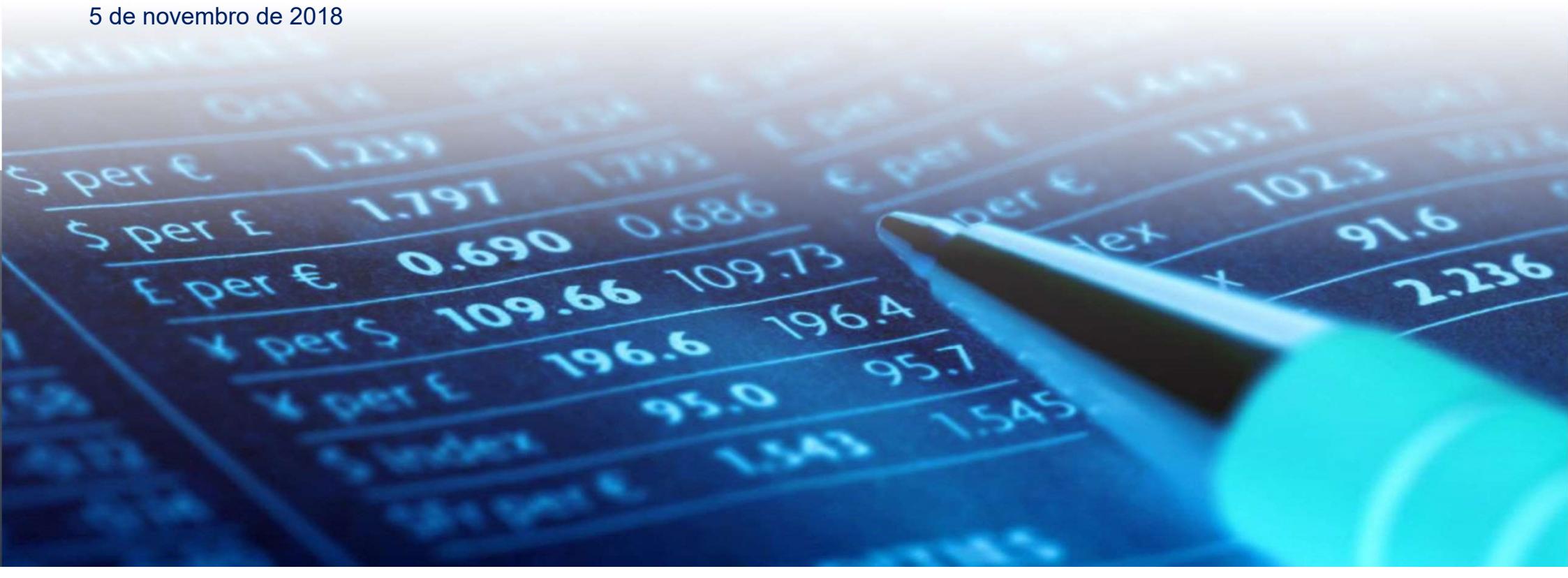
5 de novembro de 2018



Perspectivas e actores para os novos programas de financiamento europeos

SILO FUNDING

5 de novembro de 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)

HORIZON 2020 - Work Programmes 2016 - 2017
Nanotechnologies, Advanced Materials, Biotechnology and Advanced Manufacturing and Processing

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EEB-04-2016: New technologies and strategies for the development of pre-fabricated elements through the reuse and recycling of construction materials and structures	14
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H2020: Programa de trabajo - ¿Quién?

Entidades con competencias en I+D+i en Europa:

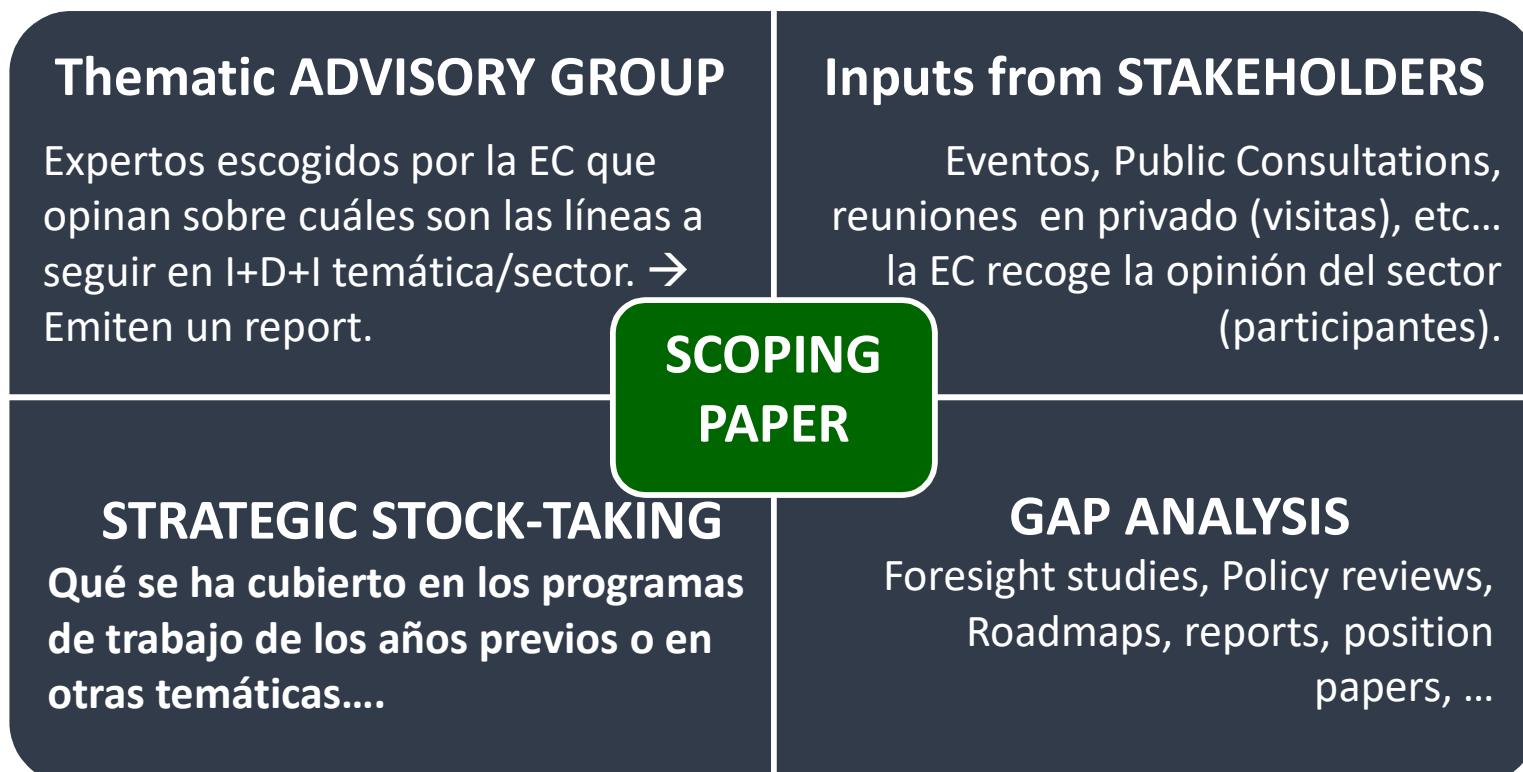
- Comisión Europea (CE)
 - Lidera DG-RTD (recibe el apoyo de otras DGs temáticas) → **Propone** nuevos programas e iniciativas (o cambios a los ya existentes).
 - **Implementa** y negocia el **detailed implementation in the program committees with the Member States**
- Parlamento Europeo
- Consejo Europeo (apoyo de la REPER)

H2020: Programa de trabajo - ¿Quién?

- **Comités de Programa** de cada temática:
 - Reuniones periódicas en las que se abordan aspectos de la implementación y resultados del programa, problemáticas, orientaciones del sector, políticas futuras del sector, y aspectos técnico-científicos, ...
 - Quién: CE y representantes de MS.
- La **CE propone** a los MS un documento de trabajo provisional (***draft work-programme***) sobre el cual se discute y se proponen modificaciones.
- Los miembros del comité de programa votan la **aprobación del documento final** de programa de trabajo de la temática X para los años XX-XY.

H2020: Programa de trabajo - ¿Quién?

Previamente a un borrador de Programa de Trabajo bi-anual, la EC genera un documento de visión del sector y de las necesidades de I+D+i a futuro: ***Scoping Paper***



H2020: Programa de trabajo - ¿Quién?

- **Comisión Europea:** DG-RTD, las otras DGs sectoriales, Agencias externas temáticas, y el feedback de las Agencias Ejecutivas de la EC para H2020...
- Las **delegaciones nacionales** de los Comités de Programa
- **Advisory Boards** de cada programa (RS & LEIT) & Expert Groups of the EC
- **Stakeholders industriales:** ETPs, EU associations & federations (p.e., EUCAR, ACARE, EFFRA,...), big players (p.e., Microsoft),....
- **Stakeholders regionales:** ERRIN, EURADA, NEREUS,...
- **Otros stakeholders** (públicos & privados), no necesariamente industriales, con competencias en temas de I+D+i.: IGLO, EARTO,...
- **Grandes iniciativas** que se desarrollan de forma paralela o sinérgica con H2020: EIPs, todo tipo de Partenariados Público-Privados (PPPs), las KICs (Knowledge Innovation Communities) del EIT (EU Institute of Technology), ...

Hacia el 9º Programa Marco



I am convinced that the core values of Horizon 2020 and its successor have to be:

EXCELLENCE

OPENNESS

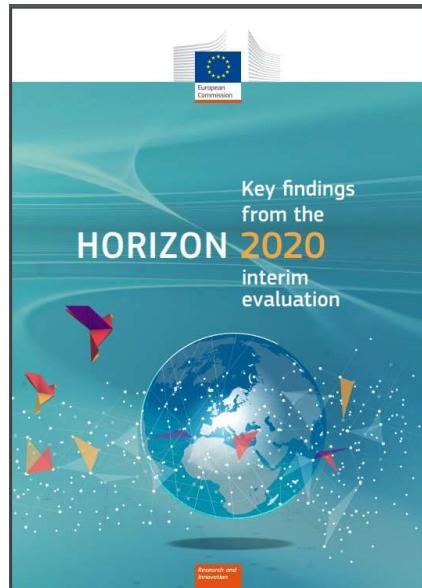
IMPACT

Hacia el 9º Programa Marco

Findings from the H2020 INTERIM EVALUATION

High Level Group Report 'LAB – FAB – APP: Investing in the European future we want'

BOHEMIA: a Strategic foresight study



H2020: Interim evaluation

- **KEY STRENGTHS of H2020**

- An attractive, simplified and **well-performing programme**, highly relevant for stakeholders and societal needs.
- On track to deliver **value for money** and to meet its knowledge-creating objectives.
- Strong **EU Added Value** through unique opportunities, competition & access to new knowledge

- **KEY AREAS for IMPROVEMENT**

- **Oversubscription:** H2020 has lower success rates than FP7
- Support for breakthrough **market creating innovation**: potential that should be strengthened substantially
- **Outreach and engagement with civil society:** Should better explain the impacts of R&I, and involve even more the users & citizens in agenda-setting & implementation

High level group report

- **'LAB – FAB – APP: Investing in the European future we want'**
- Published on 3 July 2017 during 'Research and Innovation – Shaping our Future' conference in Brussels
- 11 recommendations and accompanying actions

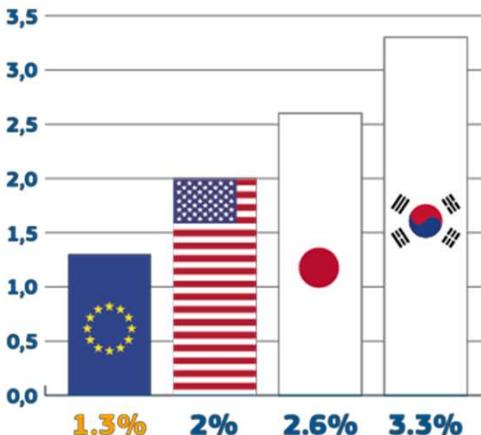


Horizon Europe: Contexto

While benefiting from world-class research and strong industries...

Our knowledge and skills are our main resources.

- **7%** of the world's population
- **20%** of global R&D
- **1/3** of all high-quality scientific publications



1.3%
EU business
R&D
investment



...Europe fails to transform leadership in science into leadership in innovation and entrepreneurship

Horizon Europe: Contexto

A new level ambition and a renewed R&I agenda to be in pole position

- Ensuring essential investment and **stimulating private investment**
- Making **regulatory frameworks fit for innovation**
- Becoming a front runner in **market-creating innovation**
- Reconnecting R&I with citizens through **EU-wide R&I missions**
- Supporting the **dissemination** of innovation throughout the Union
- Investing in **skills** and empower universities to become more **entrepreneurial and interdisciplinary**

Horizon Europe: Marco financiero

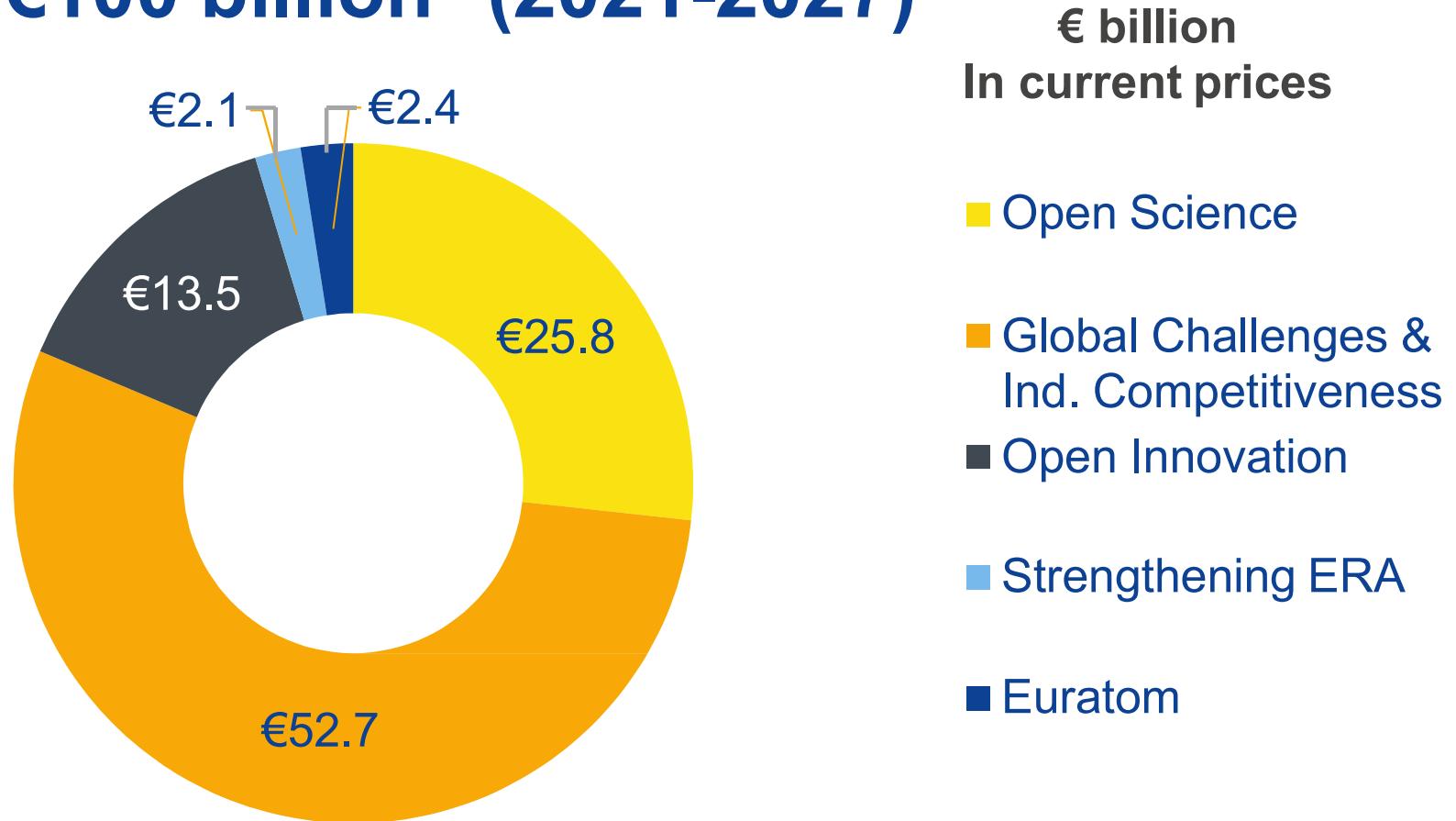
THE NEW MULTIANNUAL FINANCIAL FRAMEWORK 2021 - 2027 A BUDGET FOR A UNION THAT PROTECTS, EMPOWERS AND DEFENDS

In billion euro, current prices



Horizon Europe: Marco financiero

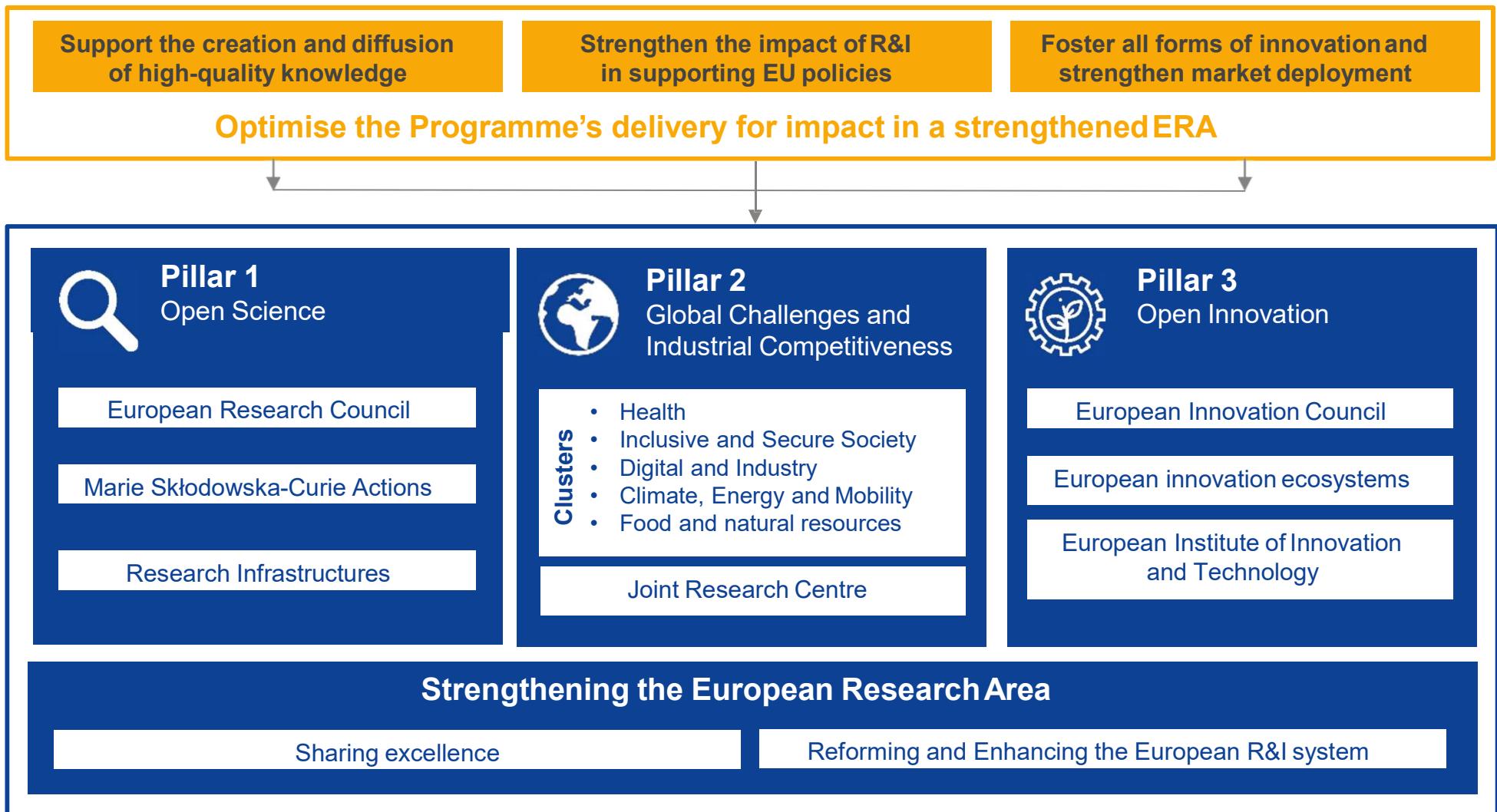
Budget: €100 billion* (2021-2027)



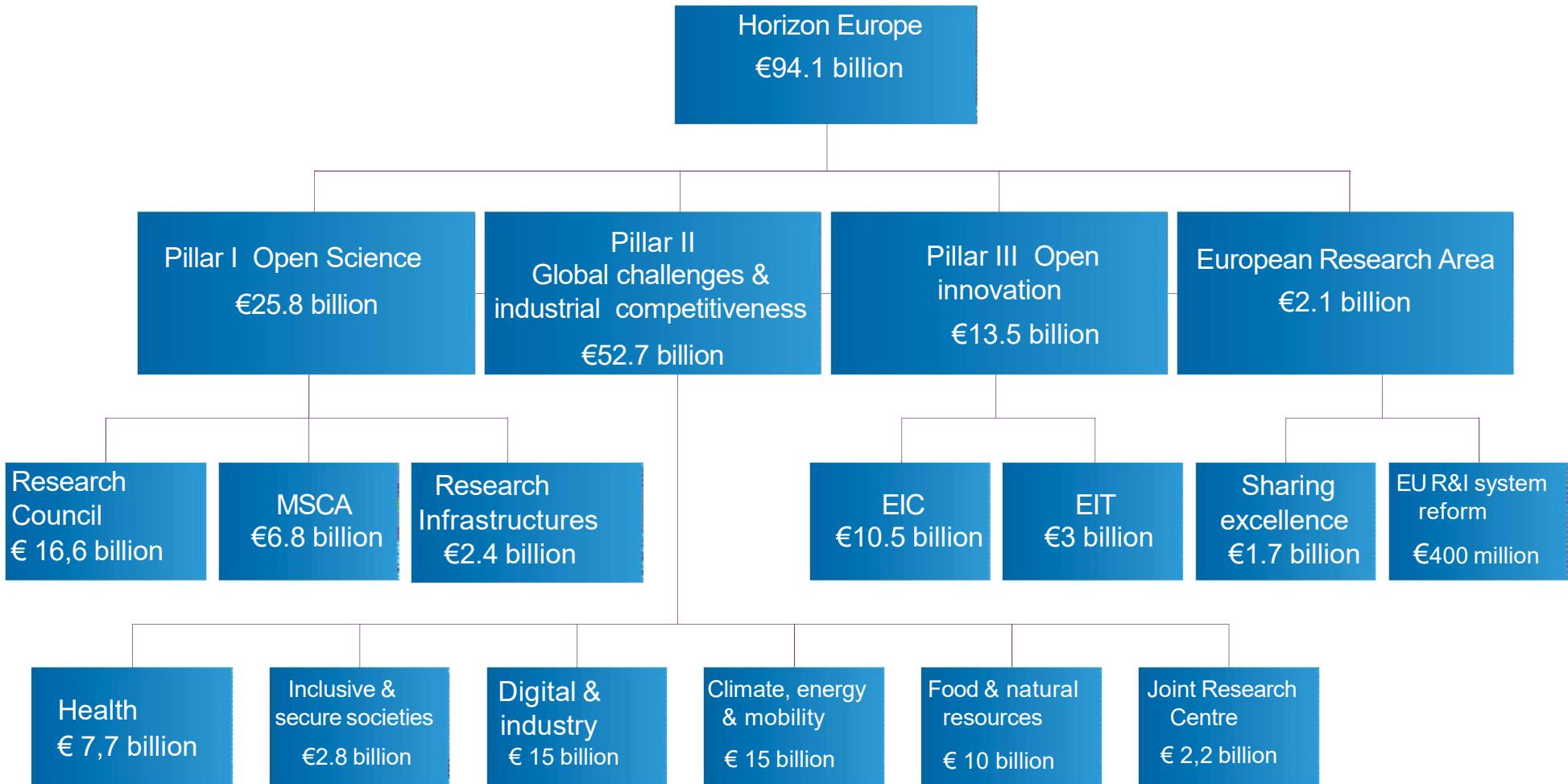
* This envelope includes EUR 3.5 billion allocated under the InvestEU Fund.

Horizon Europe: Estructura

Specific objectives of the Programme



Horizon Europe: Indicative budget



Pilar 1: Open Science

reinforcing and extending the excellence of the Union's science base

European Research Council

- Frontier research by the best researchers and their teams

€ 16.6 billion

Marie Skłodowska-Curie Actions

- Equipping researchers with new knowledge and skills through mobility and training

€ 6.8 billion

Research Infrastructures

- Integrated and inter-connected world-class research infrastructures

€ 2.4 billion

Pilar 2: Global Challenges & Industrial Competitiveness

boosting key technologies and solutions underpinning
EU policies & Sustainable Development Goals

Clusters implemented through usual calls, missions & partnerships	Budget (€ billion)
Health	€ 7.7
Inclusive and Secure Society	€ 2.8
Digital and Industry	€ 15
Climate, Energy and Mobility	€ 15
Food and Natural Resources	€ 10
Joint Research Centre supports European policies with independent scientific evidence & technical support throughout the policy cycle	€ 2.2

Pilar 2: Clusters

Clusters	Areas of intervention	
Health	* Health throughout the life course * Non-communicable and rare diseases * Tools, technologies and digital systems solutions for health and care	* Environmental and social health determinants * Infectious diseases * Health care
Inclusive and Secure Societies	* Democracy * Social and economic transformations * Protection and Security	* Cultural heritage * Disaster-resilient societies * Cybersecurity
Digital and Industry	* Manufacturing technologies * Advanced materials * Next generation internet * Circular industries * Space	* Key digital technologies * Artificial intelligence and robotics * Advanced computing and Big Data * Low carbon and clean industry
Climate, Energy and Mobility	* Climate science and solutions * Energy systems and grids * Communities and cities * Industrial competitiveness in transport * Smart mobility	* Energy supply * Buildings and industrial facilities in transition * Clean transport and mobility * Energy storage
Food and Natural Resources	* Environmental observation * Agriculture, forestry and rural areas * Food systems * Circular systems	* Biodiversity and natural capital * Sea and oceans * Bio-based innovation systems

Pilar 3: Open Innovation

stimulating market-creating breakthroughs and ecosystems conducive to innovation

European Innovation Council

- Support to innovations with breakthrough and market creating potential

€ 10.5 billion, incl. up to € 500 million for ecosystems

European innovation ecosystems

- Connecting with regional and national innovation actors

European Institute of Innovation and Technology (EIT)

- Bringing key actors (research, education and business) together around a common goal for nurturing innovation

€ 3 billion

Pilar 3: European Innovation Council

- **ElC será el pilar innovación de FP9.**
- Su **objetivo principal** será mejorar la integración y “magnificar” las actuaciones a nivel nacional/regional.
- Se traslada el **enfoque** desde instrumentos CE hacia **necesidades de los innovadores / emprendedores / empresas**
- Prioritarias las **innovaciones disruptivas** pero seguirá apoyando también las **innovaciones incrementales**
- Apoyará el **ciclo completo** desde fases tempranas hasta escalado.
- **Ventanilla única para la innovación**

Horizon Europe: Aspectos prácticos

- Further alignment to the Financial Regulation
- Increased use of **simplified forms of grants** where appropriate (building on the H2020 lump sum pilot experience)
- Broader acceptance of **usual cost accounting practices**
- Enhanced **cross-reliance on audits** benefiting beneficiaries
 - **while ensuring continuity and consistency for beneficiaries by maintaining**
 - Attractive H2020 funding model, including up to 100% funding rate
 - Single set of rules principle

Horizon Europe: Aspectos prácticos

- Transparency and stakeholder involvement
- Prioritisation and flexibility to align to political priorities
- Internal programme coherence & synergies with other programmes

Multiannual Strategic R&I Plan

- * Multiannual orientations and priorities in one document
- * Areas for partnerships and missions

Strategic discussions with Member States and European Parliament

Consultation with stakeholders

Work Programmes

Horizon Europe: Siguientes pasos



GRAZAS!

GRACIAS!

THANK YOU!



Science & Innovation Link Office

Información adicional

Octavio Pernas
Gerente
Telf: +34 689 420 458
Octavio.pernas@silocompany.com