

EP PerMed Information Day

Information about Horizon Europe and the European Partnerships



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European Commission RTD-D2

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Horizon Europe



Horizon Europe

The ambitious EU research and innovation framework programme (2021-2027)



fuel EU's **scientific and technological excellence** and the strengthen the European Research Area (ERA)

**Science
& technology**



tackle policy priorities, including **green and digital transitions** and Sustainable Development Goals

Society

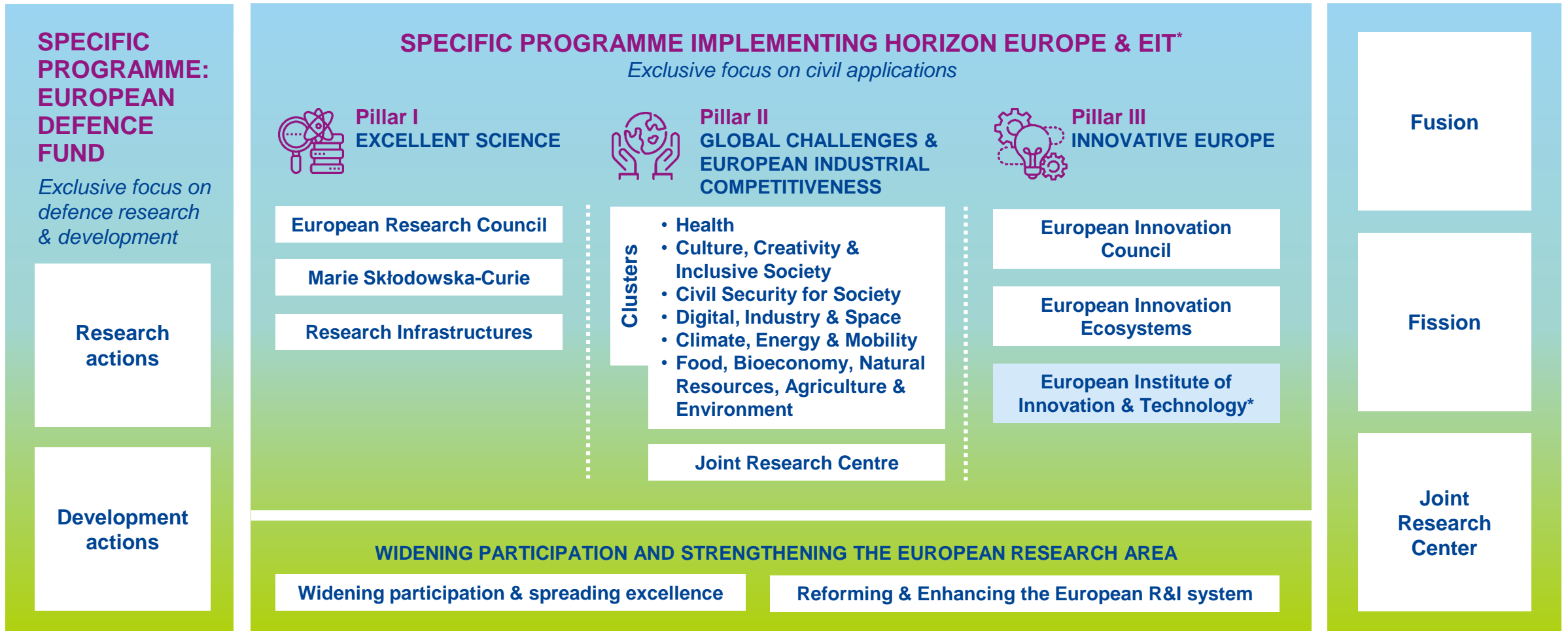


boost Europe's **innovation uptake, competitiveness** and **jobs**

Economy

HORIZON EUROPE

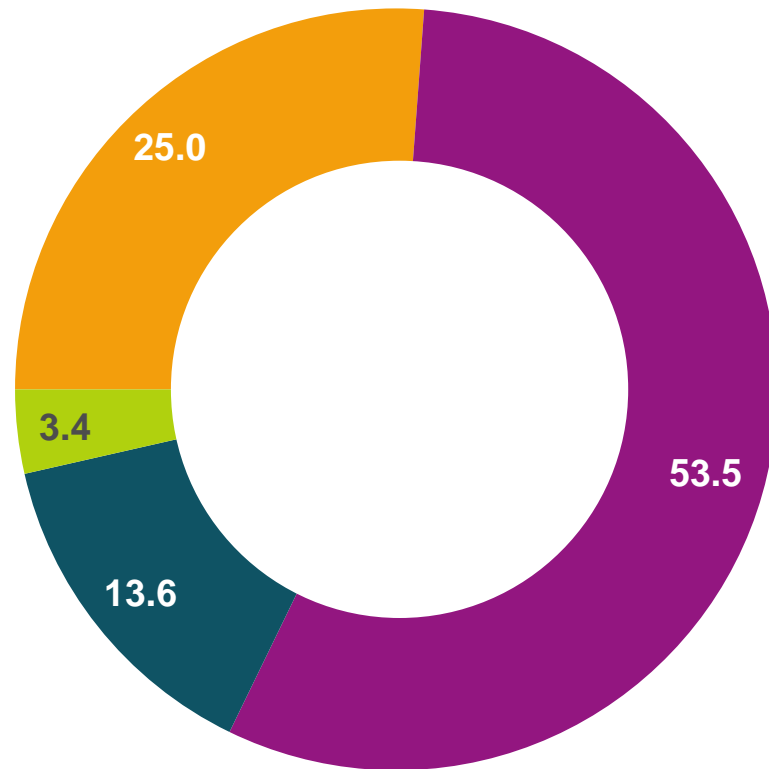
EURATOM



* The European Institute of Innovation & Technology (EIT) is not part of the Specific Programme

Horizon Europe Budget: €95.5 billion (2021-2027)

(including €5.4 billion from NGEU – Next Generation Europe – programme of EU for Recovery from COVID-19 crisis)



Political agreement December 2020

€ billion in current prices

- Excellent Science
- Global challenges and European ind. comp.
- Innovative Europe
- Widening Part and ERA

Pillar I

EXCELLENT 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 billion

Marie Skłodowska-Curie Actions

Equipping researchers with new knowledge and skills through mobility and training

€6.6 billion

Research Infrastructures

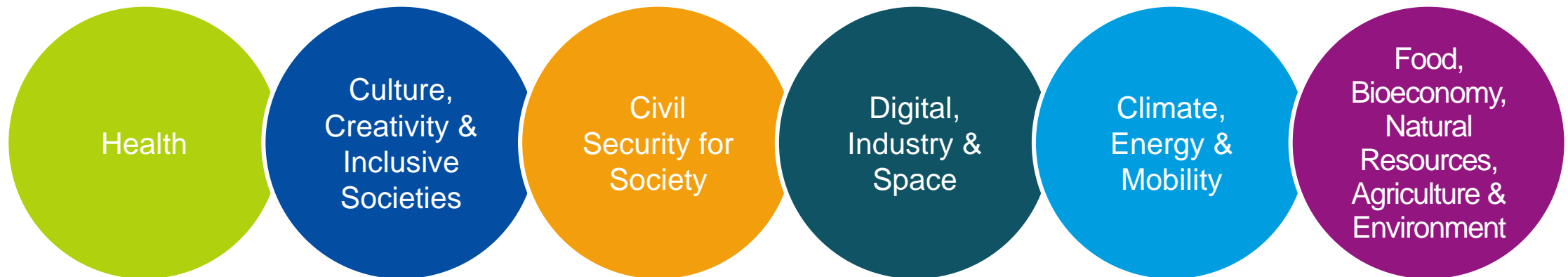
Integrated and inter-connected world-class research infrastructures

€2.4 billion

Pillar II - Clusters

GLOBAL CHALLENGES & EUROPEAN INDUSTRIAL COMPETITIVENESS:

boosting **key technologies** and solutions underpinning **EU policies & Sustainable Development Goals** (6 clusters and JRC – non-nuclear direct actions)



€53.5 billion

Pillar III

INNOVATIVE EUROPE:

stimulating **market-creating breakthroughs** and **ecosystems** conducive to innovation

European Innovation Council

Support to innovations with breakthrough and market creating potential

The budget: **€10.6 billion**, incl. up to **€527 million** for ecosystems (including NGEU – Recovery Fund parts dedicated to EIC).

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

circa **€3 billion**

Lessons Learned

from Horizon 2020 Interim Evaluation



Support breakthrough innovation



European Innovation Council



Create more impact through mission-orientation and citizens' involvement



EU Missions



Rationalise partnerships' landscape



New approach to partnerships



Reinforce openness



Open science policy



Strengthen international cooperation



Extended association possibilities



Encourage participation



Spreading Excellence



European Innovation Council

Support to innovations with breakthrough and disruptive nature and scale up potential that are too risky for private investors (**70% of the budget earmarked for SMEs**)

**European
Innovation Council –
a one-stop-shop**

- Helping researchers and innovators create markets of the future, leverage private finance, scale up their companies
- Innovation centric, risk taking & agile, pro-active management and follow up
- Mostly 'bottom up', but also targeting strategic challenges
- EIC Programme Managers to develop visions for breakthroughs and steer portfolios

Complementary instruments bridging the gap from idea to market

PATHFINDER

R&I grants
(from early technology
to proof of concept)

TRANSITION

R&I grants
(proof of concept to
pre-commercial)

ACCELERATOR

Grants & investment (via EIC Fund) for
single SMEs & start-ups
(from pre-commercial to market & scale-up)



EU Missions

R&I Missions

Relating EU's research and innovation better to society and citizens' needs; with strong visibility and impact

A mission is a portfolio of actions across disciplines intended to achieve a **bold and inspirational and measurable goal** within a set timeframe, with **impact** for society and policy making as well as relevance for a significant part of the European population and wide range of European citizens.

Horizon Europe defines mission characteristics and elements of governance, and **5 missions areas**. Specific missions will be programmed within the Global Challenges and European Industrial Competitiveness pillar, but may also benefit from actions carried out within other parts of the Programme as well as complementary actions carried out under other Union programmes.



New approach to European Partnerships

New generation of objective-driven and more ambitious partnerships in support of agreed EU policy objectives

Key Features

- **Strategic orientation**
- **Systemic approach**
- **Simple architecture and toolbox**
- **Common set of criteria for the life-cycle**

CO-PROGRAMMED

Based on Memoranda of Understanding/contractual arrangements; implemented independently by the partners and by Horizon Europe

CO-FUNDED

Based on a joint programme agreed and implemented by partners; commitment of partners for financial and in-kind contributions

INSTITUTIONALISED

Based on long-term dimension and need for high integration; partnerships based on Art 185/187 of TFEU and the EIT legal acts for 2021-2027



International Cooperation

International Cooperation

Tackling together global societal challenges; access to the world's best talents, expertise and resources; enhanced supply and demand of innovative solutions

Association to Horizon Europe

- Third countries with good capacity in science, technology and innovation
- Taking into account objective of driving economic growth in Europe through innovation
- Intensified targeted actions
- Strengthened support to multilateral cooperation
- Openness to international participation balanced with the promotion of EU strategic autonomy



Open Science across the programme

Open
Science

Mainstreaming of open science practices for improved quality and efficiency of R&I, and active engagement of society

Mandatory immediate Open Access to publications: beneficiaries must retain sufficient IPRs to comply with open access requirements;

Data sharing as ‘open as possible, as closed as necessary’: mandatory Data Management Plan for FAIR (Findable, Accessible, Interoperable, Reusable) research data

- Work Programmes may incentivize or oblige to adhere to **open science practices** such as involvement of citizens, or to use the **European Open Science Cloud**
- Assessment of open science practices through the **award criteria** for proposal evaluation
- Dedicated support to **open science policy actions**
- **Open Research Europe** publishing platform

Synergies with other Union programmes

HORIZON EUROPE			
Other Union Programmes, including			
Common Agricultural Policy	InvestEU	ESF+	Innovation Fund
External Instrument	LIFE	Digital Europe	Internal Security Fund and Instrument for Border Management
Maritime & Fisheries Fund	EU4Health	Space Programme	Single Market Programme
Connecting Europe Facility	ERDF	ERASMUS+	Recovery and Resilience Facility
Just Transition Mechanism		Creative Europe	



Enhanced synergies

COMPATIBILITY
Harmonisation of funding rules; flexible co-funding schemes; pooling resources at EU level

COHERENCE & COMPLEMENTARITY
Alignment of strategic priorities in support of a common vision

European Partnerships



Overview of 49 candidate European Partnerships

HORIZON EUROPE PILLAR II - Global challenges & European industrial competitiveness

CLUSTER 1: Health

Innovative Health Initiative

Global Health Partnership

Transformation of health systems

Chemicals risk assessment

ERA for Health

Rare diseases*

One-Health Anti Microbial Resistance*

Personalised Medicine*

Pandemic Preparedness*

Co-funded or co-programmed

-  Institutionalised Partnerships (Art 185/7)
-  Institutionalised Partnerships / EIT KICs
-  Co-Programmed
-  Co-Funded

* Calls with opening dates in 2023-24

** Calls with opening dates not before 2022

Innovative Health Initiative (IHI)

European public-private partnership in precompetitive R&I between the EU and health industries:

- Pharmaceutical companies (EFPIA)
- Medical imaging, radiotherapy, health ICT and electro-medical companies (COCIR)
- Medical technology companies (MedTechEurope)
- Biotechnology companies (EuropaBio)
- Vaccine companies (Vaccines Europe)

Expected start of the initiative: approx. Q4 2021

General objectives

- Contribute towards the creation of an EU-wide health R&I ecosystem that facilitates translation of scientific knowledge into innovations
- Foster the development of safe, effective, people-centred and cost-effective innovations that respond to strategic unmet public health needs
- Drive cross-sectoral health innovation for a globally competitive European health industry

More info: https://ec.europa.eu/info/files/european-partnership-innovative-health_en

Towards a European Partnership on Health and Care systems transformation

Destination 4: Ensuring access to innovative, sustainable and high-quality health care in the EU

European Partnerships:

“Innovation and Transformation of health and care systems: challenges of a changing and ageing society”.* This R&I partnership with health care systems owners/organisers and research funders aims at **boosting research in policy, uptake and scale-up of innovations to accelerate transformation of national/regional health care systems.**

The partnership will build on the strategic research agenda developed by the Horizon2020-funded support action **TO-REACH**, will draw on the expertise and experiences from the Member States and network of regions involved in the **European Innovation Partnership on Active and Healthy Ageing (EIP-AHA)**, the **Second ‘Active and Assisted Living’ programme (AAL2)** and work in synergy with the **EIT KIC-Health**. A strong synergistic link will be created with the European partnership on ‘Innovative Health Initiative’. It would be established as co-funded partnership, to be launched through call in 2022 and start in 2023.

* The title is subject to further discussions and agreement



Objectives and expected impact

- Personalised medicine represents a revolution in healthcare. It has a huge potential for patients, healthcare providers and the European health industry
- The partnership aligns priorities and funding for Member States, their regions, international stakeholders and the Commission:
 - ✓ *Integrating big data and digital health solutions*
 - ✓ *Translating basic research into clinical applications*
 - ✓ *Providing socio-economic evidence for the uptake in healthcare systems*
 - ✓ *Developing curricula for healthcare workers and creating new types of jobs*

Objectives and expected impact

- Expected impact includes:
 - ✓ Better health outcomes through innovation and a patient centered approach
 - ✓ Increased cost efficiency
 - ✓ New business developments
 - ✓ Underpinning the Digital Agenda
 - ✓ Securing the independence of European data based healthcare in view of competition with international companies such as Google, Facebook, Amazon etc.

European Partnership for Personalised Medicine

Coherence

- Links to Commission priorities 2019-2024
 - ✓ **An economy that works for people**
 - ✓ **A Europe fit for the digital age**
- Key contributor to health related R&I priorities of the new Commission
 - ✓ **Smart Health (European industrial strategy)**
 - ✓ **Beating cancer**
 - ✓ **European health data space**
- Links to other candidate Partnerships
 - ✓ **Innovative Health Initiative (IHI)**
 - ✓ **Healthcare Systems Transformation (HCST)**
- Links and collaboration opportunities with other Union programmes
 - ✓ **European Regional Development Fund**

European Partnership for Personalised Medicine

Preparation process

- The partnership builds on preparatory work done by the MS led initiative ICPeMed and the experience gathered in the ERA PeMed project.
- ICPeMed developed a vision for 2030, a SRIA and an Action Plan which form a basis for future work.
- ICPeMed and ERA PeMed published a jointly developed draft concept paper for the proposed European Partnership for Personalised Medicine

Timeline on next slide

European Partnership for Personalised Medicine

Preparation process

- *Timeline for the preparation and start of the partnership:*
 - **March 2020:** set up and first meeting of a drafting group between ICPeMed, ERAPerMed and the Commission
 - **4th quarter 2021: Formal meeting with the MS,** invited by the Commission, discussing a draft concept document setting out the details of the partnership
 - **2021-22:** Further elaboration of the documents and examination of buy-in from funders
 - **2022: Finalisation** of a topic to be issued in the **2023 Work Programme**
 - **2023:** Drafting and submission of a proposal addressing the open topic
 - **2nd half 2023: Possible start of the partnership**
 - **4th quarter 2023:** Issuing of first collaborative calls organised by the partnership

European Partnerships: more information

[European partnerships webpage](#) on europa.eu:

- Draft partnership proposals
- Report on coherence and synergies
- Infographics

Horizon Europe Strategic Plan – identification of co-programmed and co-funded European partnerships

Commission proposals for Art 185/7 initiatives



Thank you!

HorizonEU

<http://ec.europa.eu/horizon-europe>



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