



HORIZON EUROPE

THE EU RESEARCH & INNOVATION PROGRAMME

2021 – 2027

Cluster 1 Health



PEOPLE DIRECTORATE
DG RESEARCH & INNOVATION
EUROPEAN COMMISSION

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

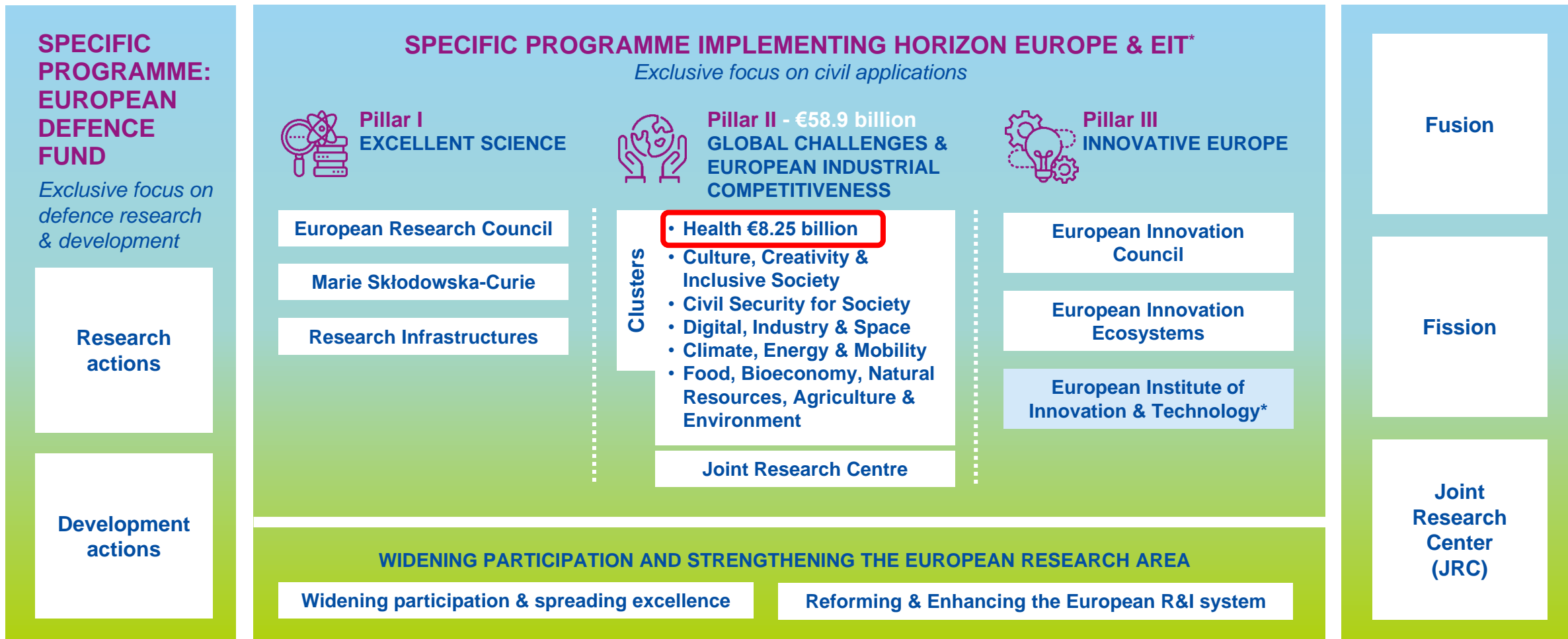


boost Europe's **innovation uptake, competitiveness** and **jobs**

Economy

HORIZON EUROPE (2021-2027)

EURATOM



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

New working approaches are needed

→ **Co-Creation** across Health-related Policies

Co-Chairs: **RTD: Research and Innovation** – European Research Area (ERA) policy & Horizon Europe programme
SANTE: Health and Food Safety – Health Union policy/regulation & EU4Health programme
CNECT: Communication Networks, Content & Technology – Digital Single Market & Digital Europe Programme
HERA: Health Emergency Preparedness and Response Authority

- But also:
- **JRC: Joint Research Centre** – scientific information and advice, technical support
 - **AGRI: Agriculture and Rural Development** – Common Agricultural Policy (CAP)
 - **CLIMA: Climate Action** – Climate Action Policy
 - **INTPA: International partnerships**– international development policy and programmes (e.g. EDF)
 - **EAC: Education, Youth, Sport & Culture** – education policy & programmes (Erasmus)
 - **ECFIN: Economic and Financial Affairs** – stable public finances, innovative financing (with EIB)
 - **ECHO: European Civil Protection and Humanitarian Aid Operations**
 - **EMPL: Employment, Social Affairs and Inclusion** – labour market, poverty, ESF+
 - **ENV: Environment** – Environmental policy, regulation, programmes (LIFE)
 - **GROW: Internal Market, Industry, Entrepreneurship and SMEs** – incl. industry policy
 - **HOME: Migration and Home Affairs** - incl. Security Union
 - **NEAR: European Neighbourhood Policy and Enlargement Negotiations**
 - **REGIO: Regional and Urban Policy** – incl. structural and cohesion fund (e.g. ERDF)
 - **REFORM: Structural Reform** – support MS, e.g. health systems reforms

Pathway to Impact



Resources

e.g. Human, Financial, Expertise, Know-how, Infrastructures

Results of R&I

e.g. Knowledge, Advice, Processes, Technologies, Data, Methodologies

Immediate use or uptake of R&I results

e.g. result of **'Productive Interactions'** between 'producers' and 'users' of R&I
➤ short- to medium-term

Wider benefits for "society"

e.g. social, economic and environmental impact
➤ 5 Ps of SDGs: people, planet, prosperity, peace, partnerships
➤ medium- to long-term

Topics calling for R&I actions (RIA, CSA, partnership)

Expected Outcomes leading to impact per Destination (set by WP21-22)

Expected Impacts per Cluster (set by SP21-24)

Strategic plan gives direction to the work programme



Main Features

Early involvement and extensive exchanges with Member States

Extensive exchanges with the European Parliament

Consultations with stakeholders and public at large



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EU MISSIONS



Concrete solutions for our greatest challenges

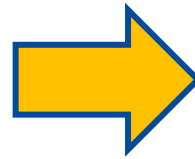
Mission: Cancer

#MissionCancer #EUmissions #HorizonEU



EU Missions

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.



Missions will support important EC strategic priorities, such as:

- European Green Deal
- New European Bauhaus
- Europe fit for the Digital Age
- **Europe's Beating Cancer Plan**
- EU's Long-term Vision for Rural Areas

Each mission will operate as a **portfolio of actions (R&I projects, legislative initiatives)** & will deliver on the EC strategic objectives of Europe's transformation into a **greener, healthier, more inclusive and resilient continent.**



Five Missions

Adaptation to
Climate Change



Cancer



Climate-neutral
and Smart Cities



Restore our
Ocean and Waters



Soil Deal
for Europe



Official launch on 29 September 2021 - Commission Communication and Implementation Plans



Mission on Cancer

Challenges

- **2.7 million people** in the EU a **diagnosed** each year
- **1.3 million people die** from cancer each year (this no. will increase)
- **Total cost of cancer** in Europe in 2018: €199 billion

Four Mission objectives

1. Understanding of cancer
2. Prevention & early detection
3. Diagnosis and treatment
4. Quality of life

Concrete actions

- Horizon Europe to provide €378.2 million (2021-23)
- A strategic R&I agenda
- UNCAN.eu platform (2023)
- Cancer Patient Digital Centre (2023)
- Network of Comprehensive Cancer Infrastructures (2025)

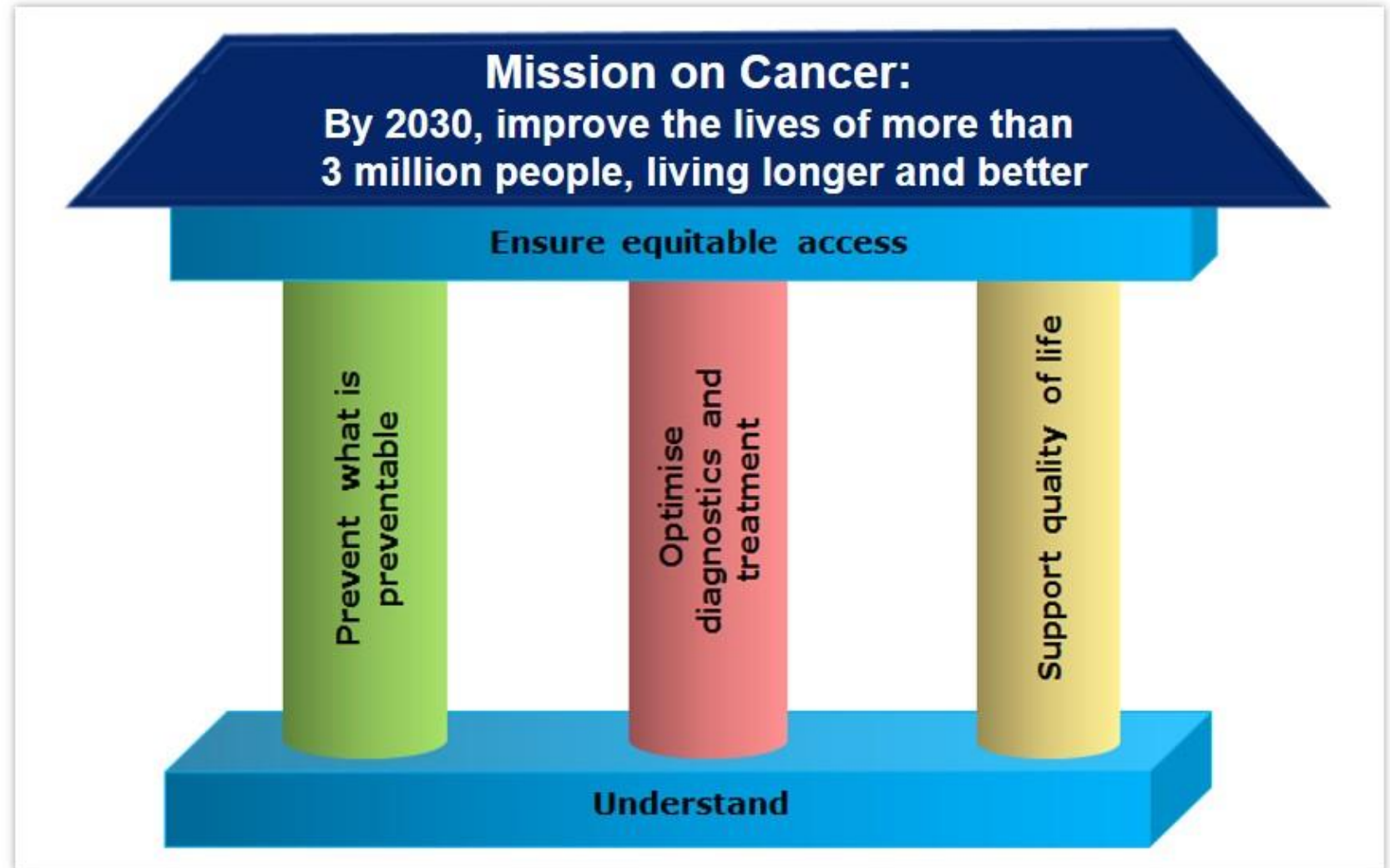
GOAL

Improve the lives of more than 3 million people by 2030, through prevention, cure and for those affected by cancer including their families, to live longer and better, jointly with the **Europe's Beating Cancer Plan**



Overall approach

- Apply mission guiding principles
- Underpinning and synergising with Cancer Plan actions
- Joined up governance mission/cancer plan
- total budget 2021: ~125 M€





Mission on Cancer: **New** topics in 2021

3 Research and Innovation Actions + Procurement Actions



- HORIZON-MISS-2021-CANCER-02-01: **Develop new methods and technologies for screening and early detection**



- HORIZON-MISS-2021-CANCER-02-02: **Develop and validate a set of quality of life measures for cancer patients and survivors**



- HORIZON-MISS-2021-CANCER-02-03: **Better understand healthy versus cancer cells at individual and population level**



- HORIZON-MISS-2021-PP-02: **Procurement actions to support the mission on cancer**



Next steps

- Communication & outreach activities
- Dialogue with Member States (SGPP subgroup on cancer)
- Adoption of Work Programme 2021 amendment
- Preparation of Work Programme 2022 amendment
- Selection of a new Mission board

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European Partnerships





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

Horizon Europe – 49 European Partnerships

Partnerships

- Strategic Plan identifies 49 co-programmed and co-funded partnerships:
 - public-public;
 - public-private;
 - global initiatives.
- EC proposals for 10 institutionalised partnerships based on Art 185/187 (23 Feb 2021)
- **Newcomer: Pandemic Preparedness**



- Institutionalised Partnerships (Art 185/7)
- Co-Funded
- Co-Programmed
- Under discussion in the context of HERA

* Calls with opening dates in 2021-22

** Calls with opening dates in 2023-24

Partnership on pandemic preparedness

Background

- Responds to request for better coordination, as expressed in the context of the **ERAvsCorona Action plan**
- Recommended in the scientific opinion on **Improving pandemic preparedness and management** by the Scientific Advice Mechanism (SAM)
- Partners (Member States and European Commission) should develop and agree on an **aligned multi-annual agenda with common objectives for R&I actions** in pandemic preparedness

Pandemic preparedness partnership

3 objectives



Improve EU's preparedness to prevent, predict and respond to epidemics / pandemics



Develop Strategic Research and Innovation Agenda (SRIA) on preparedness



Build a European Research Area (ERA) in pandemic preparedness

Synergy with **HERA** and sustainability

Pandemic preparedness partnership Process



Partnership development – tentative timeline



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Thank you!

