



# OVERVIEW OF HORIZON EUROPE

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@EUScienceInnov | #EUResearchArea | #ResearchImpactEU | #HorizonEU





# The Vision

The EU's key funding programme for research and innovation:

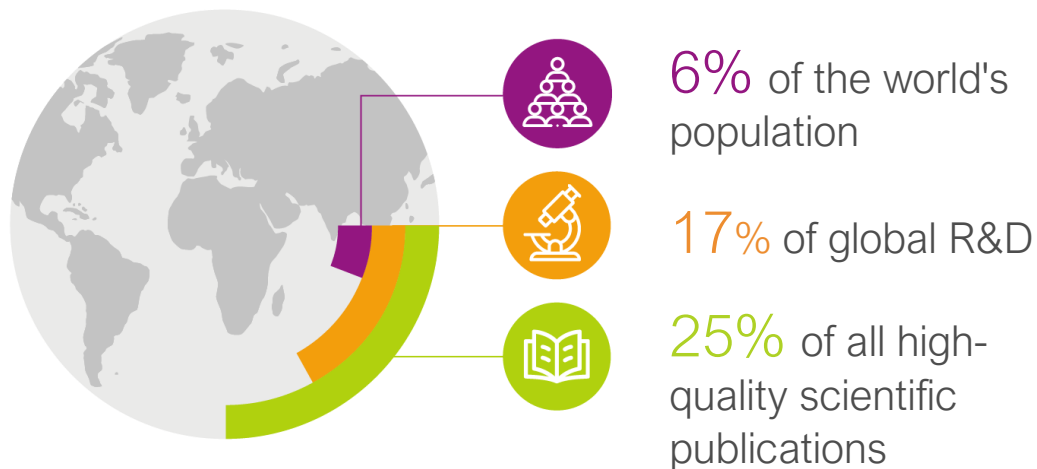
- Tackles climate change
- Helps to achieve the UN's Sustainable Development Goals
- Boosts the EU's competitiveness and growth
- Facilitates collaboration and strengthens the impact of research and innovation in developing, supporting and implementing EU policies while tackling global challenges
- Supports the creation and better diffusion of excellent knowledge and technologies
- Creates jobs, fully engages the EU's talent pool, boosts economic growth, promotes industrial competitiveness and optimises investment impact within a strengthened European Research Area.





# EU Framework Programme for R&I

While benefiting from world-class research and strong industries... Our knowledge and skills are our main resources



...Europe can do better at transforming this into leadership in innovation and entrepreneurship



# EU Framework Programme for R&I



Approximately €95.5 billion of funding available over 7 years (2021 - 2027)



# Horizon Europe Structure



## Pillar I

### EXCELLENT SCIENCE

- European Research Council
- Marie Skłodowska-Curie
- Research Infrastructures



## Pillar II

### GLOBAL CHALLENGES & EUROPEAN INDUSTRIAL COMPETITIVENESS

6 Clusters

- Health
- Culture, Creativity & Inclusive Society
- Civil Security for Society
- Digital, Industry & Space
- Climate, Energy & Mobility
- Food, Bioeconomy, Natural Resources, Agriculture & Environment
- Joint Research Centre



## Pillar III

### INNOVATIVE EUROPE

- European Innovation Council
- European Innovation Ecosystems
- European Institute of Innovation & Technology

## WIDENING PARTICIPATION AND STRENGTHENING THE EUROPEAN RESEARCH AREA

- Widening participation & spreading excellence
- Reforming & Enhancing the European R&I system

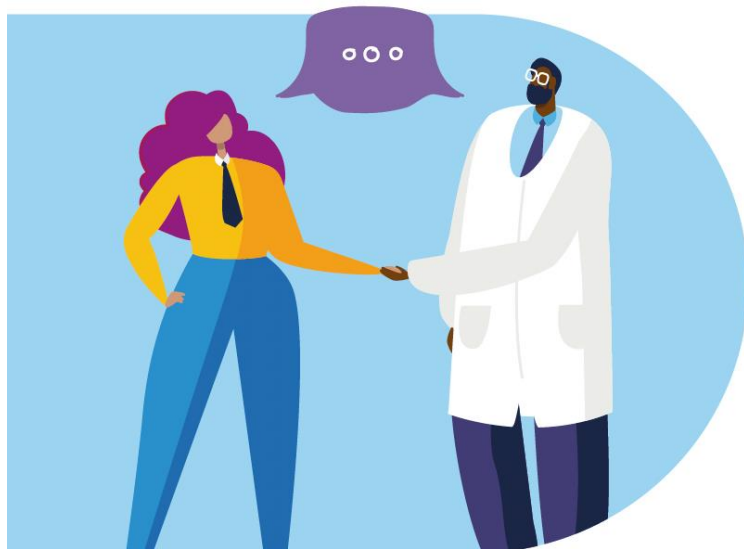


# Implementing Horizon Europe





# The Strategic Plan 2025 -2027



## KEY ELEMENTS

- three key strategic orientations for Horizon Europe R&I activities in 2025-2027;
- 32 expected impacts distributed across clusters;
- 9 new co-programmed and co-funded European Partnerships;
- EU Missions; and gives an overview on the achievements of the first years;
- New European Bauhaus Facility



# The Strategic Plan 2025 -2027

## KEY STRATEGIC ORIENTATIONS



**Green transition**



**Digital transition**



**A more resilient,  
competitive, inclusive &  
democratic Europe**

- The key strategic orientations mirror the political priorities of the European Union and outline the way research and innovation can address them through Horizon Europe.
- Open strategic autonomy and securing Europe's leading role in developing and deploying critical technologies are overarching principles that apply across all three key strategic orientations.





# The Strategic Plan 2025 -2027

## KEY STRATEGIC ORIENTATIONS



### Green transition

- Horizon Europe R&I activities must support Europe to become the world's first climate-neutral continent by 2050 and to tackle biodiversity loss and pollution.
- At least 35% of Horizon Europe's resources are committed



# The Strategic Plan 2025 -2027

## KEY STRATEGIC ORIENTATIONS



### Digital transition

- Research to support the digital transition is key to Europe's competitiveness and open strategic autonomy, and to setting human-centred standards. It is also key to achieving the green transition.
- In 2021-2027, it is agreed to invest at least EUR 13 billion from Horizon Europe in core digital technologies.



# The Strategic Plan 2025 -2027

## KEY STRATEGIC ORIENTATIONS



**A more resilient,  
competitive, inclusive &  
democratic Europe**

- Europe's social rights and democratic values and principles need a strong foundation so they can be promoted globally. Horizon Europe research activities will help provide this foundation.
- This includes research on civil security, on a fair and environmentally friendly economic model, on health and wellbeing and on democratic participation.



# The Strategic Plan 2025 -2027

## INTERNATIONAL COOPERATION

The EU is committed to preserve openness in international cooperation, while safeguarding the Union's strategic interests based on reciprocity and respect of fundamental values and principles. International cooperation takes various approaches, including further association agreements with eligible third countries, international mobility and cooperation in frontier research and EU participation and leadership in multilateral alliances.



# The Strategic Plan 2025 -2027



## INTERNATIONAL COOPERATION

1. **Further association agreements with eligible third (i.e. non-EU) countries** to provide entities of these countries, as far as possible, full access to the calls and actions (within the scope of association)
2. **Collaborative research and innovation initiatives**, including targeted initiatives and projects with partners from key non-EU countries and regions in strategic areas of mutual benefit and strategic interest under all clusters, as well as the EU Missions and the European Partnerships.
3. **International mobility and cooperation in frontier research** and support to brain circulation and the internationalisation of EU innovative companies, through activities in Pillars I and III.
4. **EU participation and leadership in multilateral alliances**, to gain access to and share research and observation data on global challenges such as cybersecurity, climate change, sustainable food and nutrition security, biodiversity loss, environmental degradation, transition to a circular global economy, global health issues as well as ocean governance and polar research.

# The Strategic Plan 2025 -2027



## INTERNATIONAL COOPERATION

5. [Policy dialogues with non-EU countries and regions](#) to reinforce and facilitate international cooperation at a strategic level, by agreeing on fundamental values and principles for international cooperation in R&I including issues such as academic freedom, research ethics and integrity, gender equality and diversity, open science and research excellence.
6. [Policy dialogues with Associated Countries in the EU's neighbourhood](#) will help these countries to align with European Research Area objectives and actions, which, for accession countries is an important step towards their alignment with the EU acquis on science, research and innovation.
7. [Using science diplomacy action to tackle geopolitical challenges](#) in a fragmented multipolar world, making European diplomacy more strategic, effective and resilient, and extending the EU's global outreach and impact.



# Contact

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# Thank you!



Contact

# Additional Slides





## Green Transition

## Digital Transition

## A more Resilient, Competitive, Inclusive, & Democratic Europe

### CLUSTER 1

#### Health

1. Staying healthy in a rapidly changing society
2. Living and working in a health-promoting environment
3. Tackling diseases and reducing disease burden
4. Ensuring equal access to innovative, sustainable, and high-quality healthcare
5. Developing and using new tools, technologies and digital solutions for a healthy society
6. Maintaining an innovative, sustainable, and competitive EU health industry

### CLUSTER 2

#### Culture, Creativity & Inclusive Society

7. Reinvigorating democratic governance
8. Realising the full potential of cultural heritage, arts, and cultural and creative sectors
9. Strengthening social and economic resilience and sustainability
10. Boosting inclusive growth and reducing vulnerabilities effectively

### CLUSTER 3

#### Civil Security for Society

11. Reducing losses from natural, accidental and human-made disasters
12. Facilitating legitimate movement of passengers and goods into the EU, while preventing illicit acts
13. Tackling crime and terrorism more effectively and increasing the resilience of infrastructures
14. Increasing cybersecurity and making the online environment more secure

### CLUSTER 4

#### Digital, Industry & Space

15. Achieving global leadership in climate-neutral, circular and digitised industrial and digital value chains
16. Achieving technological leadership for Europe's open strategic autonomy in raw materials, chemicals and innovative materials
17. Developing an agile and secure single market and infrastructure for data-services and trustworthy artificial intelligence services
18. Achieving open strategic autonomy in digital and emerging enabling technologies
19. Achieving open strategic autonomy in global space-based infrastructures, services, applications, and data
20. Digital and industrial technologies driving human-centric innovation

### CLUSTER 5

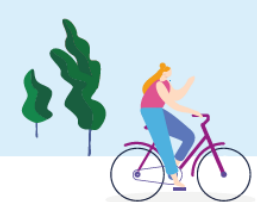
#### Climate, Energy & Mobility

21. Advancing science for a fair transition to a climate-neutral and resilient society
22. Facilitating the clean and sustainable transition of the energy and transport sectors towards climate neutrality through cross-cutting solutions
23. Ensuring more efficient, sustainable, secure, and competitive renewable and decarbonised energy supply
24. Using energy in buildings and industry in an efficient, affordable and sustainable way
25. Achieving sustainable, inclusive, and competitive transport modes
26. Developing multimodal systems and services for climate-neutral, smart, inclusive, and safe mobility

### CLUSTER 6

#### Food, Bioeconomy, Natural Resources, Agriculture & Environment

27. Fostering mitigation of and adaptation to climate change in areas and sectors covered by Cluster 6
28. Putting biodiversity on a path to recovery, and protecting and restoring ecosystems and their services
29. Achieving healthy soils and forests, as well as clean air, fresh and marine water, whilst ensuring water resilience and the transition to a clean, competitive and circular economy and sustainable bioeconomy
30. Ensuring healthy food and nutrition security by making agriculture, fisheries, aquaculture and food systems sustainable, resilient, inclusive and within planetary boundaries
31. Sustainably developing rural, urban and coastal areas
32. Developing innovative governance models and tools enabling sustainability and resilience



## 32 Expected Impacts Distributed across Clusters



# The Strategic Plan 2025 -2027

## LIST OF NEW PARTNERSHIPS

With the second strategic plan, the following partnerships are launched:

- Brain Health (co-funded)
- Forests and Forestry for a Sustainable Future (co-funded)
- Innovative Materials for EU (co-programmed)
- Raw Materials for the Green and Digital Transition (co-funded)
- Resilient Cultural Heritage (co-funded)
- Social Transformations and Resilience (co-funded)
- Solar Photovoltaics (co-programmed)
- Textiles of the Future (co-programmed)
- Virtual Worlds (co-programmed)



# The Strategic Plan 2025 -2027



## MISSIONS

- EU Missions are flagships of Horizon Europe. Their aim is to channel efforts across programmes to support well-defined, urgent and bold global challenges with engagement and support of policymakers, stakeholders and the wider public.
- In 2021, five EU Missions were launched: **Adaptation to Climate Change; Cancer; Restore our Ocean and Waters; Climate-Neutral and Smart Cities; and a Soil Deal for Europe.** In 2025-2027, more work will be done to ensure that missions successfully shift from their initial phase to deployment and impact.



# The Strategic Plan 2025 -2027

