

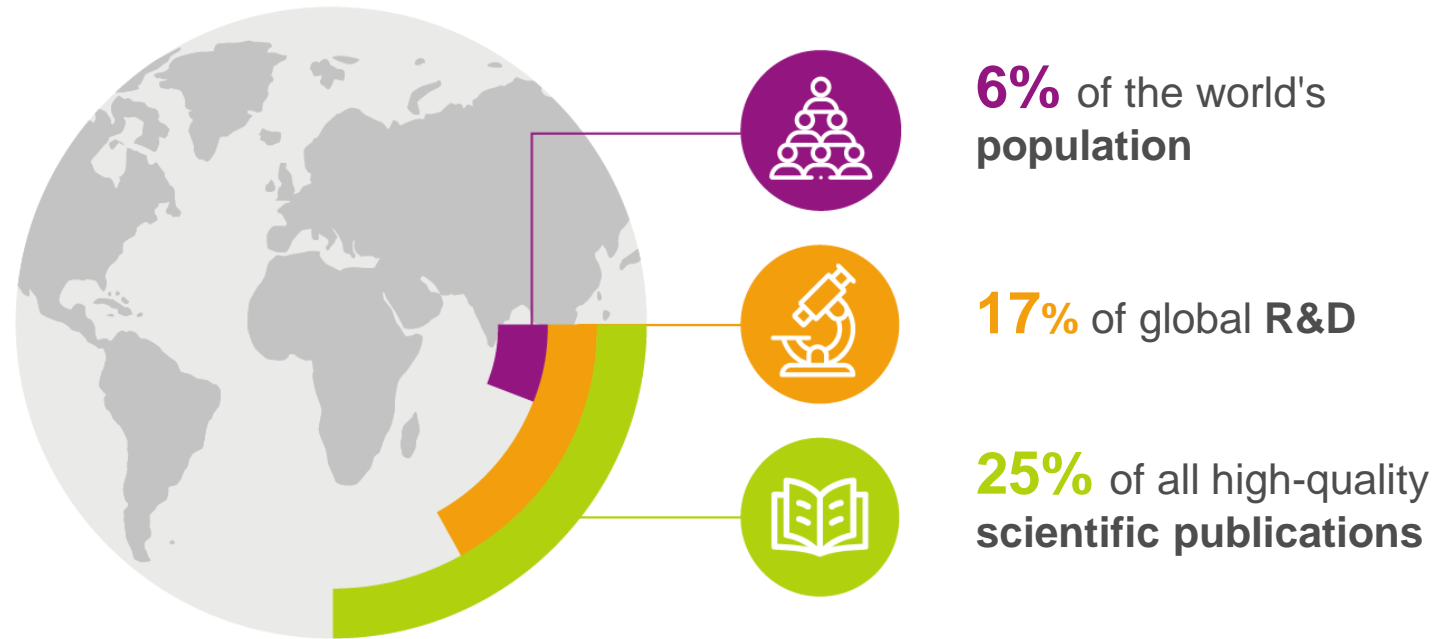


#HorizonEU

THE EU
**RESEARCH &
INNOVATION**
PROGRAMME 2021 – 27

Research and
Innovation

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**

HORIZON EUROPE

EURATOM

SPECIFIC PROGRAMME: EUROPEAN DEFENCE FUND

*Exclusive focus on
defence research
& development*

Research
actions

Development
actions

SPECIFIC PROGRAMME IMPLEMENTING HORIZON EUROPE & EIT*

Exclusive focus on civil applications



Pillar I EXCELLENT SCIENCE

European Research Council

Marie Skłodowska-Curie

Research Infrastructures



Pillar II GLOBAL CHALLENGES & EUROPEAN INDUSTRIAL COMPETITIVENESS

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

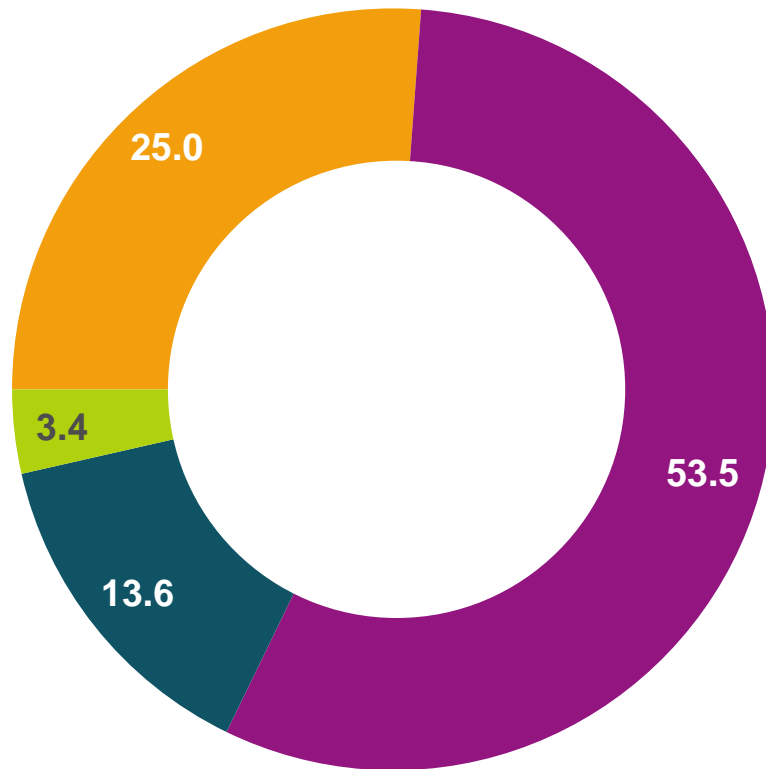
Fusion

Fission

Joint
Research
Center

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

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



Political agreement December 2020

€ billion in current prices

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

International cooperation in Horizon Europe

Why?

- Tackling together global societal challenges;
- Bring together the world's best talents, expertise and resources;
- Enhance supply and demand of innovative solutions



How?

- Third countries with good capacity in science, technology and innovation
- Countries such as Canada, New Zealand, and the United Kingdom are amongst 19 countries from outside the EU.
- South Korea, Switzerland and Egypt are already participating under transitional arrangements, and Japan is currently in negotiations to join.

What changes with Association ?



Receive funding directly from the programme



Consortium Coordinator



Access to (almost) all calls under Pillar II



Observer status in the Programme Committees as part of Horizon Europe Governance

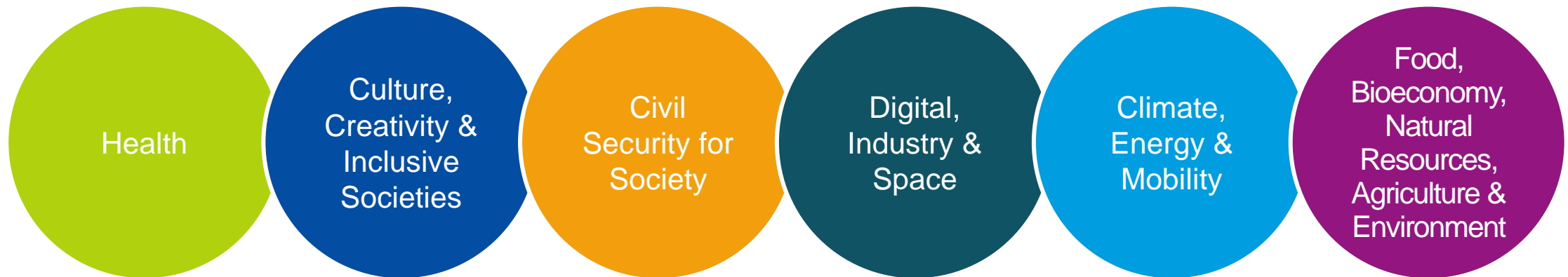
Pillar II



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

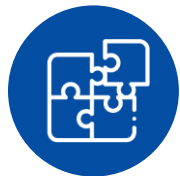
Pillar II

Budget for clusters & for JRC

in current prices

Cluster 1	Health	€8.246 billion (including €1.35 billion from NGEU)
Cluster 2	Culture, Creativity & Inclusive Societies	€2.280 billion
Cluster 3	Civil Security for Society	€1.596 billion
Cluster 4	Digital, Industry & Space	€15.349 billion (including €1.35 billion from NGEU)
Cluster 5	Climate, Energy & Mobility	€15.123 billion (including €1.35 billion from NGEU)
Cluster 6	Food, Bioeconomy, Natural Resources, Agriculture & Environment	€8.952 billion
	JRC (non-nuclear direct actions)	€1.970 billion

Clusters are including a budget for Partnerships and Missions
NGEU is Next Generation EU programme – Recovery Fund



Overview of European Partnerships

PILLAR II - Global challenges & European industrial competitiveness

PILLAR III - Innovative Europe

CLUSTER 1: Health	CLUSTER 2: Culture, Creativity, Inclusive Societies	CLUSTER 4: Digital, Industry & Space	CLUSTER 5: Climate, Energy & Mobility	CLUSTER 6: Food, Bio-economy, Agriculture, Env...	EUROPEAN INNOVATION ECOSYSTEMS
Innovative Health Initiative	Resilient Cultural Heritage*	Chips (formerly KDT)	Clean Hydrogen	Circular Bio-based Europe	Innovative SMEs
Global Health Partnership	Social Transformations and Resilience*	Smart Networks & Services	Clean Aviation	R&I in the Mediterranean Area (PRIMA, Art. 185)**	
Transformation of health systems		High Performance Computing	Single European Sky ATM Research 3	Biodiversa+	EIT
Chemicals risk assessment		European Metrology (Art. 185)	Europe's Rail	Climate Neutral, Sustainable & Productive Blue Economy	InnoEnergy
ERA for Health		AI-Data-Robotics	Connected and Automated Mobility (CCAM)	Water4All	Climate
Rare diseases		Photonics	Batt4EU	Animal Health & Welfare	Digital
One-Health Anti Microbial Resistance*		Made in Europe	Zero-emission waterborne transport	Accelerating Farming Systems Transitions	Food
Personalised Medicine		Clean steel – low-carbon steelmaking	Zero-emission road transport	Agriculture of Data*	Health
Pandemic Preparedness*		Processes4Planet	Built4People	Safe & Sustainable Food System	Raw Materials
Brain Health*		Global competitive space systems	Solar Photovoltaics	Forests and Forestry for a sustainable Future*	Manufacturing
		Innovative Materials for EU (I AM for EU)	Clean Energy Transition		Urban Mobility
		Virtual Worlds*	Driving Urban Transitions		Cultural and Creative Industries
		Textiles of the Future			Water, Marine and Maritime Sectors and Ecosystem*
		Raw Materials for the Green and Digital Transition*			

■ Institutionalised Partnerships (Art 185/7)

■ Institutionalised partnerships / EIT KICs

■ Co-Programmed

■ Co-Funded

□ Proposed under the Horizon Europe strategic plan 2025-2027

* Not yet launched

** Direct continuation of a H2020 partnership

CROSS-PILLARS I AND II

European Open Science Cloud

The EU Missions



**Adaptation to
climate change,
including societal
transformation**



Cancer



**Healthy oceans,
seas, coastal &
inland waters**



**Climate-neutral
& smart cities**



**Soil health &
food**

Thank you



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