

18 Ottobre 2023

HORIZON EUROPE

Panoramica, opportunità, regole ed esperienze

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15 anni di **esperienza** nei Programma Quadro Europei



Capo dipartimento per le Attività Istituzionali

Aree di **competenza tematiche** HE:



Cluster 6 Food, Bioeconomy, Natural Resources, Agricoltura and Environment



Cluster 4 Digital, Industry and Space



ERC – European Research Council

Aree di **competenza trasversali** HE:



European Partnership



EU Mission



Progettazione

Argomenti principali

Introduzione al Programma



Struttura HE



Regole di partecipazione



European Partnership



EU Mission



Elementi del II Pilastro





INTRODUZIONE AL PROGRAMMA



Mariya Gabriel, Former European Commissioner for Innovation, Research, Culture, Education and Youth

“The programme aims at giving Europe a new push to a global positioning. Horizon Europe is to be the biggest and most ambitious EU Research Innovation programme ever. It builds on the success of Horizon 2020 and improves it further by fostering a stronger support to breakthrough innovation through the European Innovation Council, by creating greater impact through R&I missions and by streamlining partnerships landscape.”



6 Commission priorities for 2019-24

A European Green Deal

Striving to be the first climate-neutral continent



A Europe fit for the digital age

Empowering people with a new generation of technologies

An economy that works for people

Working for social fairness and prosperity



A stronger Europe in the world

Europe to strive for more by strengthening our unique brand of responsible global leadership

Promoting our European way of life

Building a Union of equality in which we all have the same access to opportunities.



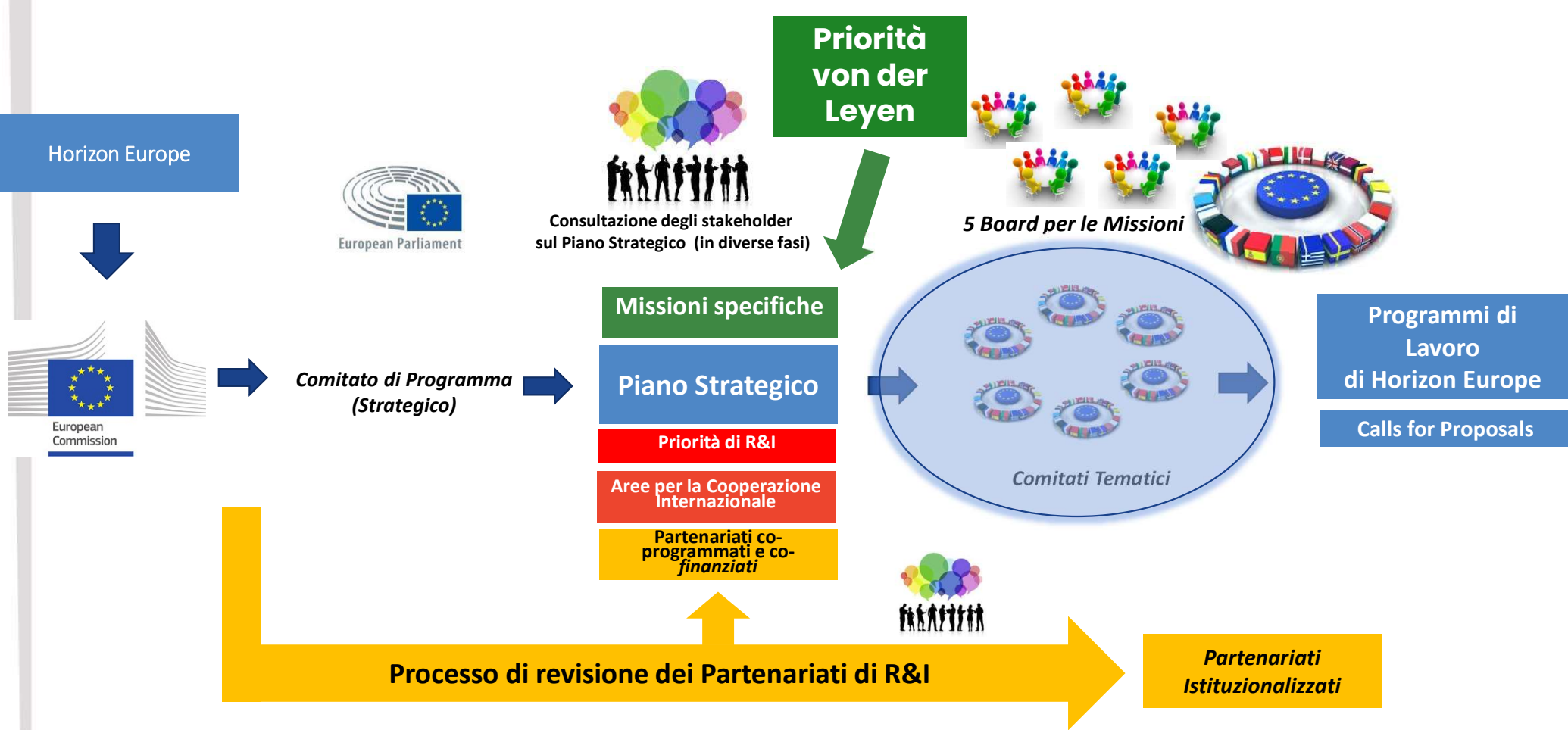
A new push for European democracy

Nurturing, protecting and strengthening our democracy



UN SUSTAINABLE DEVELOPMENT GOALS & THE EUROPEAN COMMISSION PRIORITIES





From policy priorities to concrete action





EUROPEAN UNION

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HORIZON EUROPE

#HorizonEU

THE EU RESEARCH &
INNOVATION PROGRAMME
2021 - 2027



HORIZON EUROPE

95,5 Mlr €

L'ambizioso programma quadro dell'UE per la ricerca e l'innovazione (2021-2027)



rafforzare le basi scientifiche e tecnologiche dell'UE e lo spazio europeo della ricerca (SER)



migliorare la capacità innovativa, la competitività e l'occupazione in Europa



conseguire gli obiettivi prioritari per i cittadini e sostenere il nostro modello socio-economico e i nostri valori

dimensione

SCIENTIFICA

ECONOMICA

SOCIALE

di Horizon Europe

Horizon Europe legislation defines three types of impact tracked through **Key Impact Pathways**

1. Creating high-quality new knowledge
2. Strengthening human capital in R&I
3. Fostering diffusion of knowledge and Open Science

**Scientific
Impact**



4. Addressing EU policy priorities & global challenges through R&I
5. Delivering benefits & impact via R&I missions
6. Strengthening the uptake of R&I in society

**Societal
Impact**



7. Generating innovation-based growth
8. Creating more and better jobs
9. Leveraging investments in R&I

**Economic
Impact**





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

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	
Connecting Europe Facility	ERDF	ERASMUS+	Single Market Programme
Just Transition Mechanism		Creative Europe	Recovery and Resilience Facility

Enhanced synergies

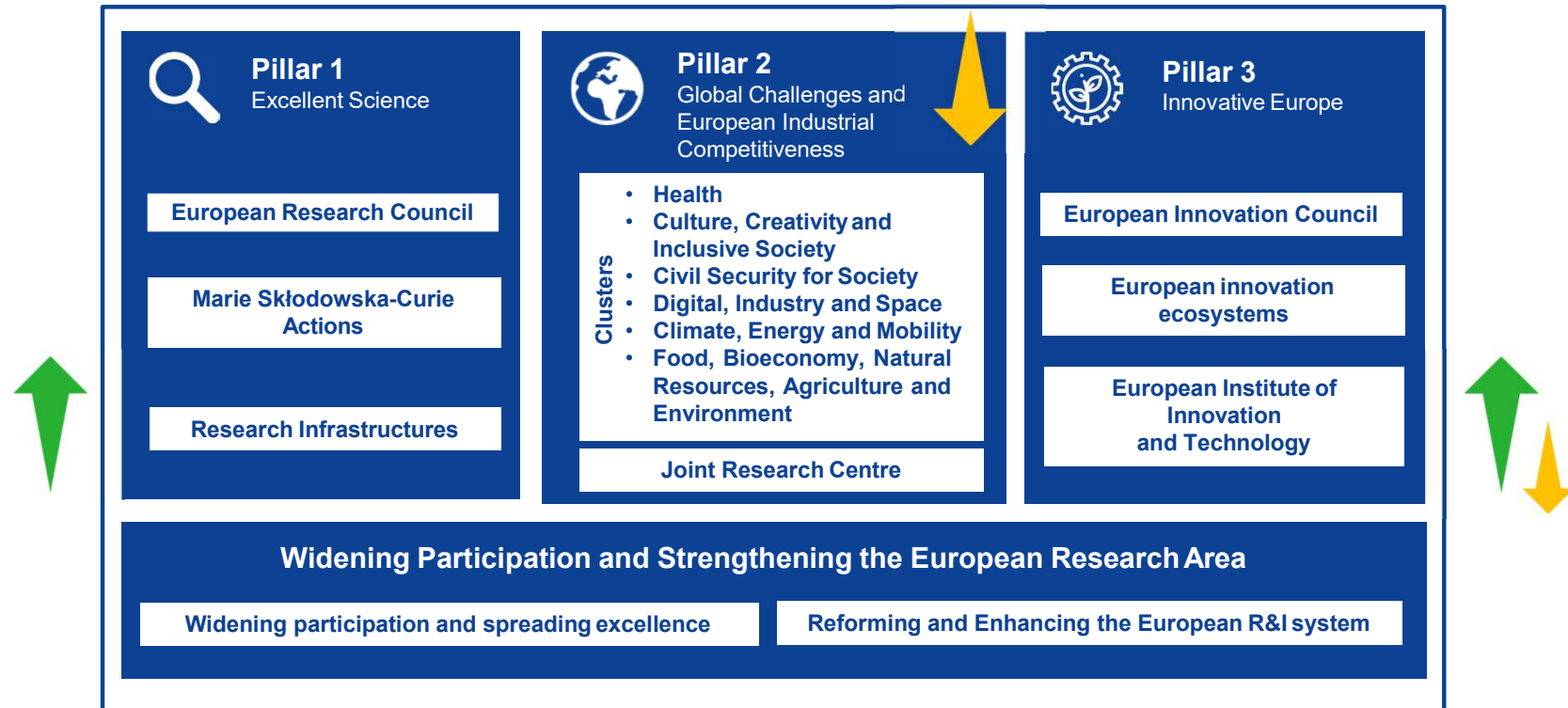
COMPATIBILITY

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

COHERENCE & COMPLEMENTARITY

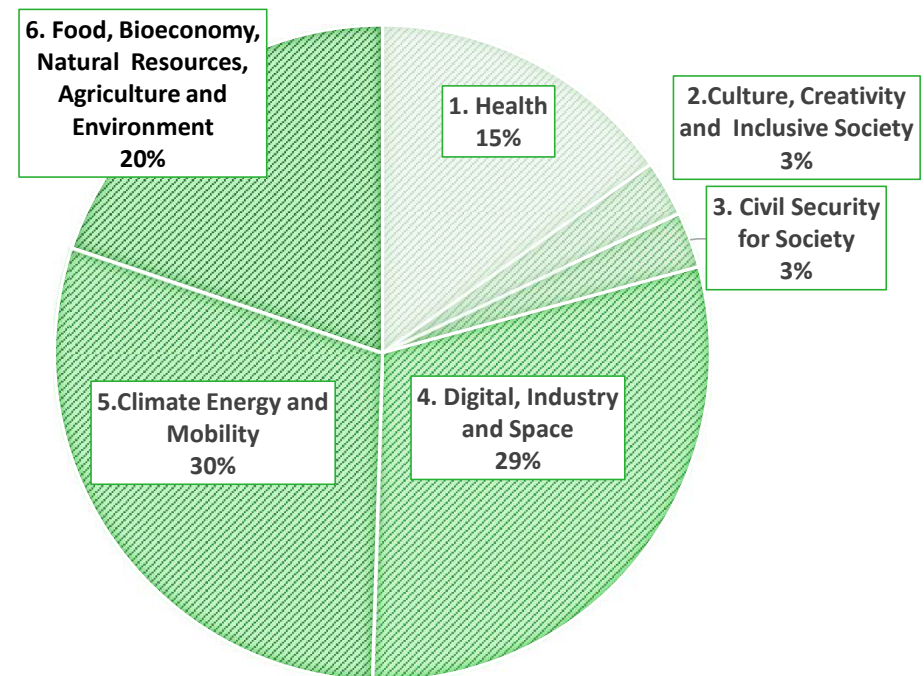
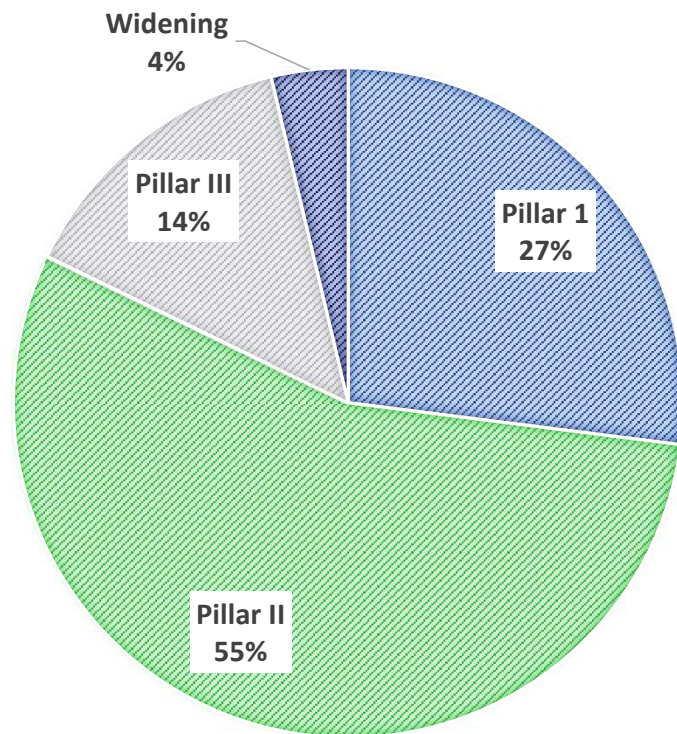
Alignment of strategic priorities in support of a common vision

Horizon Europe: struttura





Budget - Distribuzione





Tema	Miliardi €	% sul totale
Pillar I	25,013	26,19%
ERC	16,004	16,75%
MSCA	6,603	6,91%
Reasearch Infrastructures	2,406	2,52%
Pillar II	53,517	56,03%
Clusters	51,547	53,96%
1. Health	8,246	8,63%
2. Culture Creativity Inclusive Society	2,281	2,39%
3. Civil Security for Society	1,597	1,67%
4. Digital, Industry and Space	15,348	16,07%
5. Cimate, Energy and Mobility	15,123	15,83%
6. Food, Bioeconomy, Natural Resources, Agriculture, Environment	8,952	9,37%
JRC	1,970	2,06%
Pillar III	13,599	14,24%
EIC	10,105	10,58%
Innovation Ecosystems	0,528	0,55%
EIT	2,966	3,11%
Strengthening ERA	3,393	3,55%
Widening participation spreading exc.	2,955	3,09%
EU R&I System	0,438	0,46%
TOTALE	95,522	100,00%

ERC

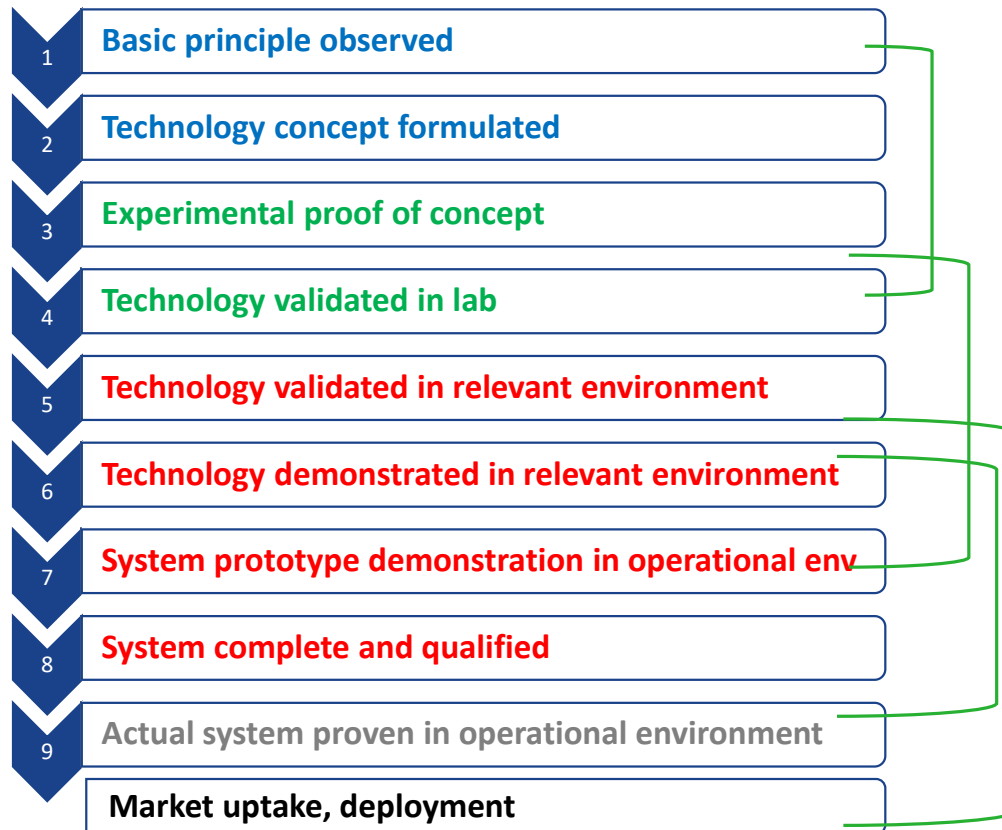
CL 4-5

EIC

THE EIGHT HORIZONTAL TOPICS



- Relevant to all programme components
- Identified in Strategic Plan
- Should be addressed appropriately



European Innovation Council



SPECIFIC OBJECTIVES



to develop, promote and advance scientific excellence, support the creation and diffusion of **high-quality new fundamental and applied knowledge, skills, technologies and solutions**, training and mobility of researchers, attract talent at all levels and contribute to full engagement of Union's talent pool in actions supported under this Programme; bottom up.



to generate knowledge, strengthen **the impact of research and innovation** in developing, supporting and implementing Union policies and support the access to and uptake of innovative solutions in European industry, notably in SMEs, and society to address global challenges, including climate change and the Sustainable Development Goals; top down.

SPECIFIC OBJECTIVES



to foster **all forms of innovation**, facilitate technological development, demonstration and knowledge and technology transfer, strengthen deployment and exploitation of innovative solutions; bottom up



to optimise the Programme's delivery for **strengthening and increasing the impact and attractiveness of the European Research Area**, to foster the excellence-based participations from all Member States, including low R&I performing Member States, in Horizon Europe and to facilitate collaborative links in European research and innovation. Top down

SPECIFIC OBJECTIVES – I PILASTRO



to develop, promote and advance scientific excellence, support the creation and diffusion of **high-quality new fundamental and applied knowledge, skills, technologies and solutions**, training and mobility of researchers, attract talent at all levels and contribute to full engagement of Union's talent pool in actions supported under this Programme; bottom up.

Consiglio europeo della ricerca	Azioni Marie Skłodowska- Curie	Infrastrutture di ricerca
Ricerca di frontiera effettuata dai migliori ricercatori e dai loro gruppi	Mobilità e formazione per fornire nuove conoscenze e competenze ai ricercatori	Infrastrutture di ricerca di livello mondiale integrate e interconnesse
16,8 miliardi di EUR (<i>p. correnti</i>)	6,9 miliardi di EUR (<i>p. correnti</i>)	2,5 miliardi di EUR (<i>p. correnti</i>)

MISSION

- The ERC's **mission** is to encourage the highest quality research in Europe through competitive funding and to support investigator-driven frontier research across all fields, on the basis of scientific excellence.
- The **aim** here is to recognise the best ideas, and confer status and visibility on the best brains in Europe, while also attracting talent from abroad.

OBJECTIVES

- to provide attractive, long-term funding to support excellent investigators and their research teams to pursue ***ground-breaking, ambitious research***.
- Scientific excellence is the sole criterion
- Applications can be made in any field of research



Focus on Principal Investigators

The ERC frontier research grants aim to empower individual researchers and provide the best settings to foster their creativity

▣ The ERC supports individual Principal Investigators. Support for consortia is provided by other calls under Horizon Europe

Starting
Grant

Consolidator
Grant

Advanced
Grant

Synergy
Grant



Grant	Objectives	Maximum size and duration of the award
Starting Grant	Support for excellent Principal Investigators at the career stage at which they are starting their own independent research team or programme. Principal Investigators must demonstrate the ground-breaking nature, ambition and feasibility of their scientific proposal.	Up to EUR 1 500 000 for a period of 5 years. Additional funding up to EUR 1 000 000.
Consolidator Grant	Support for excellent Principal Investigators at the career stage at which they may still be consolidating their own independent research team or programme. Principal Investigators must demonstrate the ground-breaking nature, ambition and feasibility of their scientific proposal.	Up to EUR 2 000 000 for a period of 5 years. Additional funding up to EUR 1 000 000.
Advanced Grant	Support for excellent Principal Investigators at the career stage at which they are already established research leaders with a recognised track record of research achievements. Principal Investigators must demonstrate the ground-breaking nature, ambition and feasibility of their scientific proposal.	Up to EUR 2 500 000 for a period of 5 years. Additional funding up to EUR 1 000 000.

WORK PROGRAMME ERC

https://ec.europa.eu/info/funding-tenders/opportunities/docs/2021-2027/horizon/wp-call/2024/wp_horizon-erc-2024_en.pdf (WP 2024)

https://ec.europa.eu/info/funding-tenders/opportunities/docs/2021-2027/horizon/guidance/information-for-applicants_he-erc-stg-cog_en.pdf (Information for applicants)

https://ec.europa.eu/info/funding-tenders/opportunities/docs/2021-2027/horizon/temp-form/af/af_he-erc-stg_en.pdf (Template 2024)

https://ec.europa.eu/info/funding-tenders/opportunities/docs/2021-2027/experts/guide-for-peer-reviewers_he-erc-stg-cog_en.pdf (Guide for Peer Reviewers)





NUOVO WP 2024 (importanti cambiamenti)

Indicative summary of calls from the 2024 budget¹⁹

	Starting Grant	Consolidator Grant	Advanced Grant	Synergy Grant
Call identifier	ERC-2024-StG	ERC-2024-CoG	ERC-2024-AdG	ERC-2024-SyG
Call opens	11 July 2023	12 September 2023	29 May 2024	12 July 2023
Call deadline	24 October 2023	12 December 2023	29 August 2024	8 November 2023

n Unità P

ERC Work Programme 2024

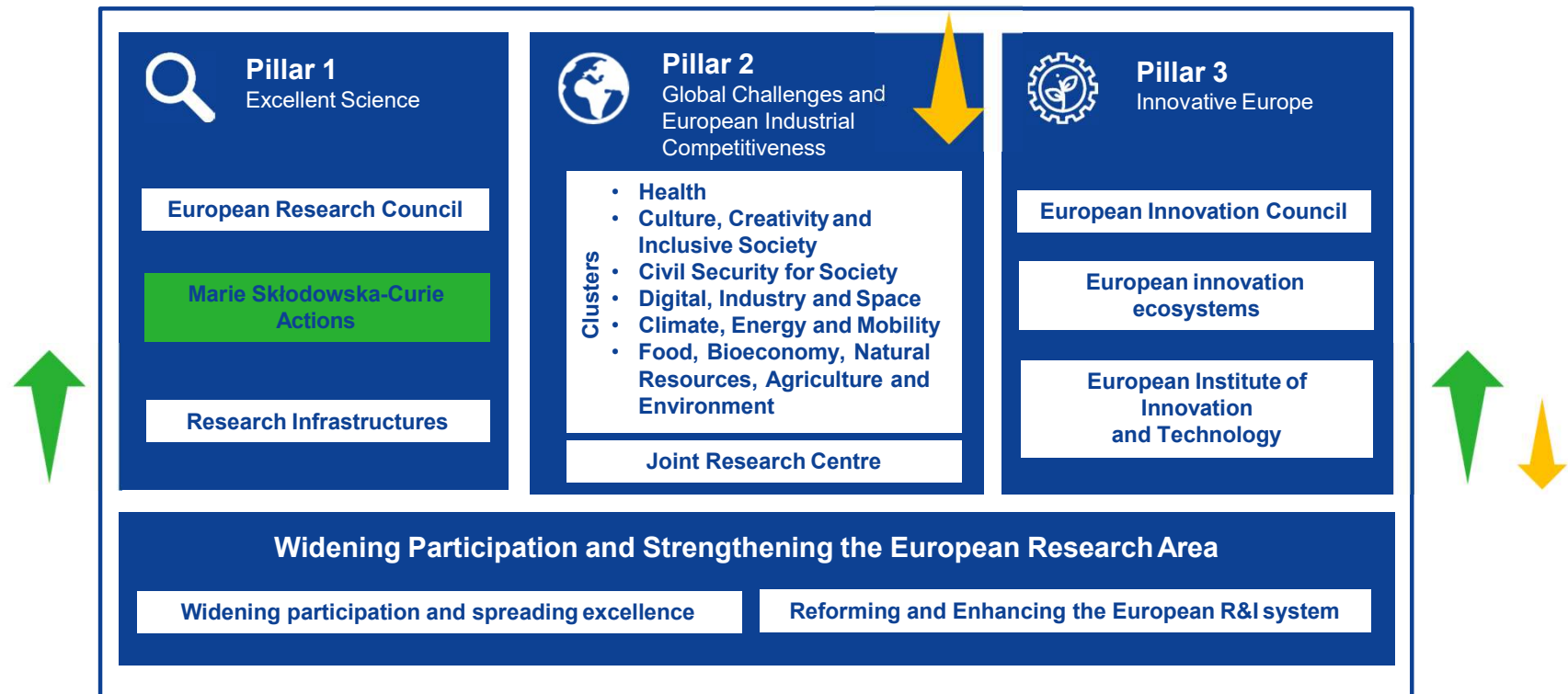


European Research Council

Established by the European Commission



Horizon Europe: struttura



Excellence



- ▣ individual fellows
- ▣ collaborations fostered
- ▣ knowledge transferred
- ▣ R&I methodologies applied
- ▣ the research conducted
- ▣ training, supervision and career guidance provided

Mobility



Physical mobility: researchers who receive funding have to move from one country to another to acquire new knowledge, skills and competences, and develop their research career.

MSCA intervention areas

1. Nurturing Excellence through Mobility of Researchers across Borders, Sectors and Disciplines

2. Fostering new Skills through Excellent Training of Researchers

3. Strengthening Human Capital and Skills Development across the European Research Area

4. Improving and Facilitating Synergies

5. Promoting Public Outreach



Actions

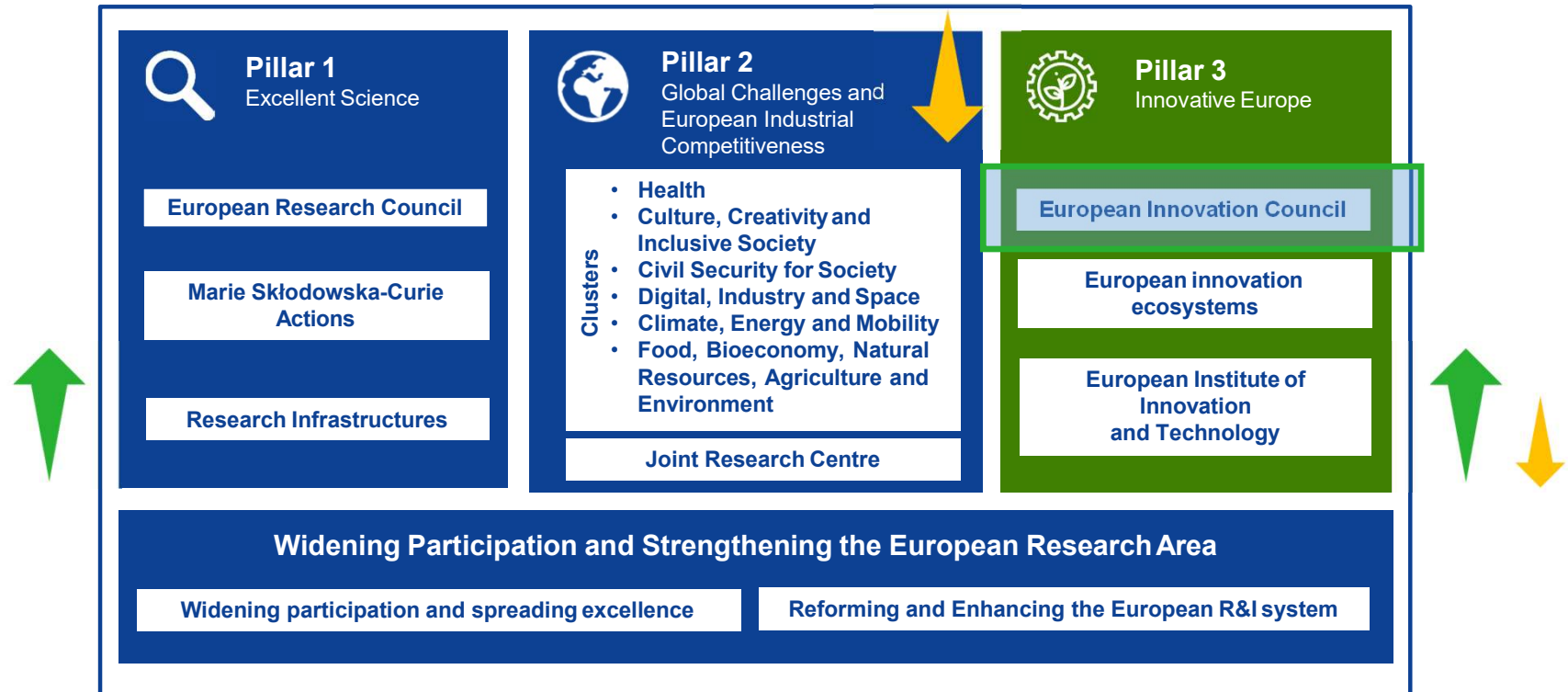
- 
- 1 MSCA Doctoral Networks
 - 2 MSCA Postdoctoral Fellowships
 - 3 MSCA Staff Exchanges
 - 4 MSCA COFUND
 - 5 MSCA and Citizens



MSCA 2023-24

Actions	Opening	Deadline
Doctoral Networks	30 May 2023 29 May 2024	28 November 2023 27 November 2024
Postdoctoral Fellowships	12 April 2023 10 April 2023	13 September 2023 11 September 2024
Staff Exchanges	5 October 2023 10 October 2024	28 February 2024 5 March 2025
Co-funding of regional, national and international programmes (COFUND)	10 October 2023 8 October 2024	8 February 2024 6 February 2025
MSCA and Citizens	20 June 2023	25 October 2023

Horizon Europe: struttura





Consiglio europeo per l'innovazione (EIC)

Sostegno alle innovazioni pionieristiche e dirompenti e al potenziale di espansione dei progetti che sono troppo rischiosi per gli investitori privati (*il 70 % del bilancio è destinato alle PMI*)

**Consiglio europeo
per l'innovazione –
uno sportello unico**

Aiutare gli innovatori a creare i mercati del futuro,
mobilitare fondi privati e sviluppare le loro imprese

Progetti incentrati sull'innovazione, snelli ed inclini
ad assumere rischi, gestione e seguito proattivi

Due strumenti complementari colmano il divario tra l'idea e il progetto investibile

Pathfinder: sovvenzioni
(dalla tecnologia in fase iniziale
alla fase pre-commerciale)

**Accelerator: solo sovvenzioni &
finanziamenti misti**
(dalla fase pre-commerciale
alla fase di mercato ed espansione)



EIC – FROM RESEARCH TO MARKET

EIC: Integrated, agile support across the full **innovation spectrum** from the early-stage research to start-up and scale-up



EIC main instruments and characteristics

Pathfinder (TRL1-4)

- **For consortia**
- Early stage research on breakthrough technologies
- **Grants up to €3/4 million**

Transition (TRL 4-6)

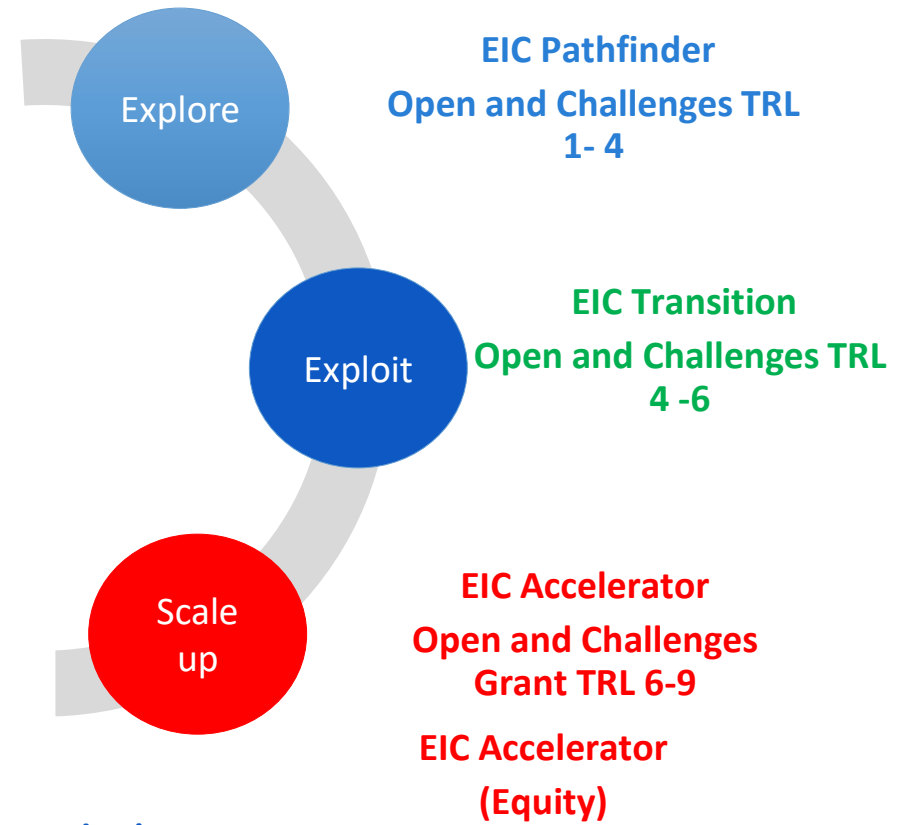
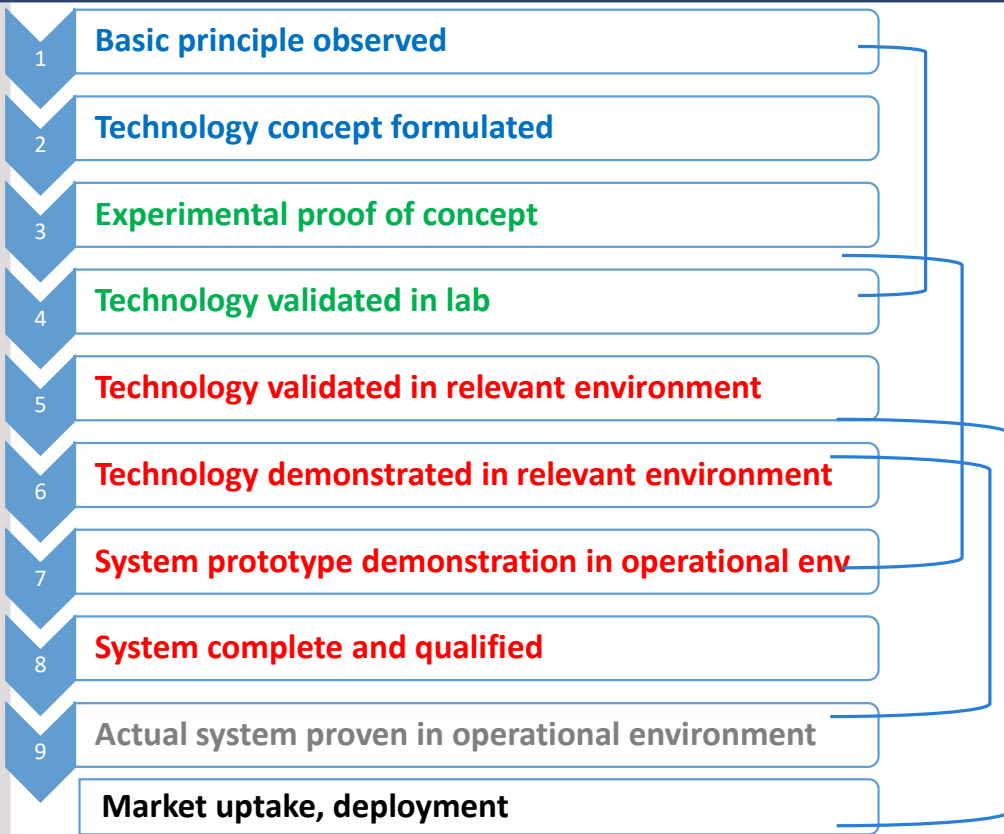
- **For consortia and single entities**
- Technology maturation from proof of concept to validation
- Business & market readiness
- **Grants up to €2.5 million**

Accelerator (TRL 6-9)

- **For individual SMEs**
- Development & scale up of deep-tech/ disruptive innovations by startups/ SMEs
- Blended finance (**grants up to €2.5 million; equity investment up to €15 million or above**)

- Focus on **breakthrough, market-creating, deep-tech**
- **Mainly bottom up** complemented by targeted funding on strategic technologies/ challenges
- Steered by **EIC Board** of leading innovators (entrepreneurs, investors, researchers, ecosystem)
- **Business Acceleration Services** (coaches/ mentors, corporates, investors, ecosystem)
- **Pro-active management** (roadmaps, reviews, re-orientations, etc) with EIC Programme Managers
- **Fast track access** to Accelerator for results from EIT, EIC Pathfinder,





The EIC Instruments and the TRL

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HORIZON EUROPE Introduzione al II pilastro

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HORIZON EUROPE Introduzione al II pilastro

WORKSHOP TEMATICI DI APPROFONDIMENTO

14:00 – 15:00 Cluster 1 Health

- Analisi del cluster e delle opportunità del bando 2024 | *Bruno Mourenza, Team tematico Cluster 1, APRE (da remoto)*
- Esperienze dell'Università degli Studi di Palermo

15:00 – 16:00 Cluster 5 Climate, Energy and Mobility

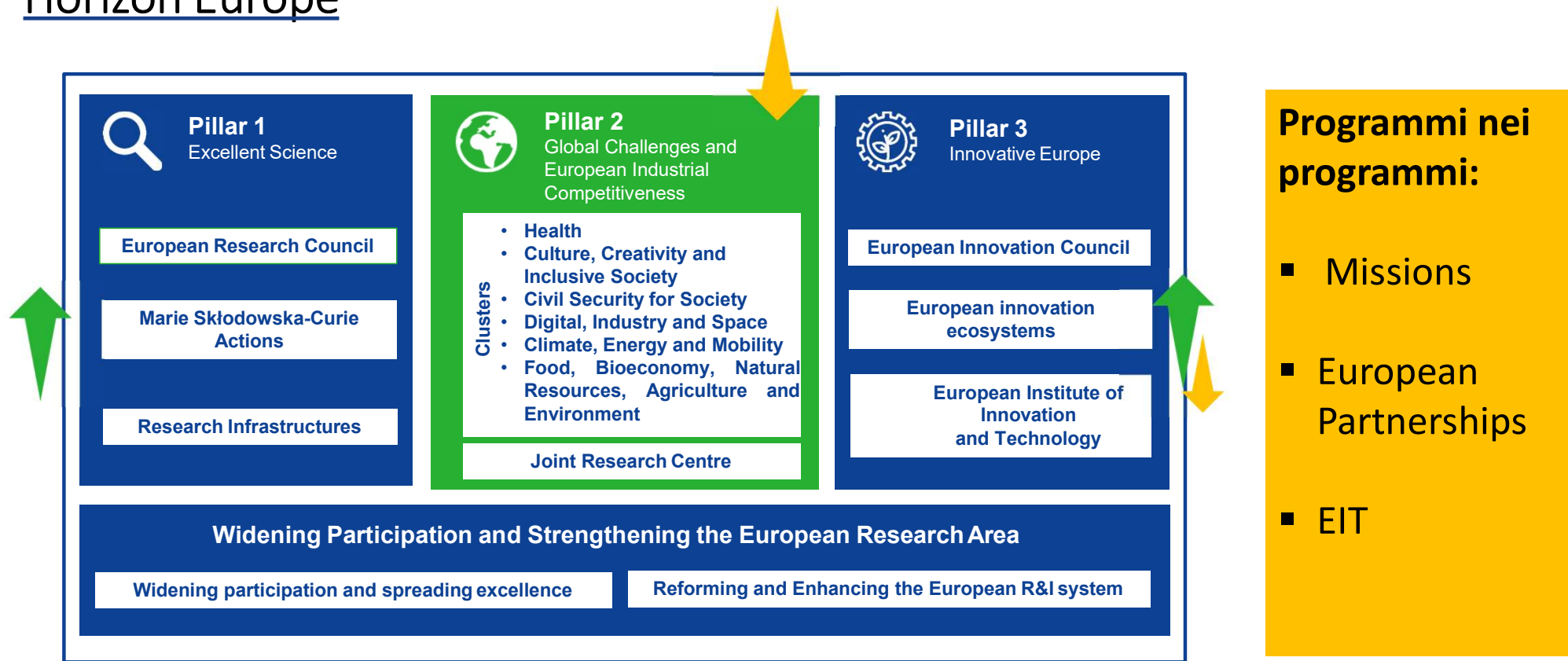
- Analisi del cluster e delle opportunità del bando 2024 | *Serena Borgna, Team tematico Cluster 5, APRE*
- Esperienze dell'Università degli Studi di Palermo

16:00 – 17:00 Cluster 6 Food, Bioeconomy, Natural Resources, Agriculture and Environment

- Analisi del cluster e delle opportunità del bando 2024 | *Serena Borgna, Team tematico Cluster 6, APRE*
- Esperienze dell'Università degli Studi di Palermo

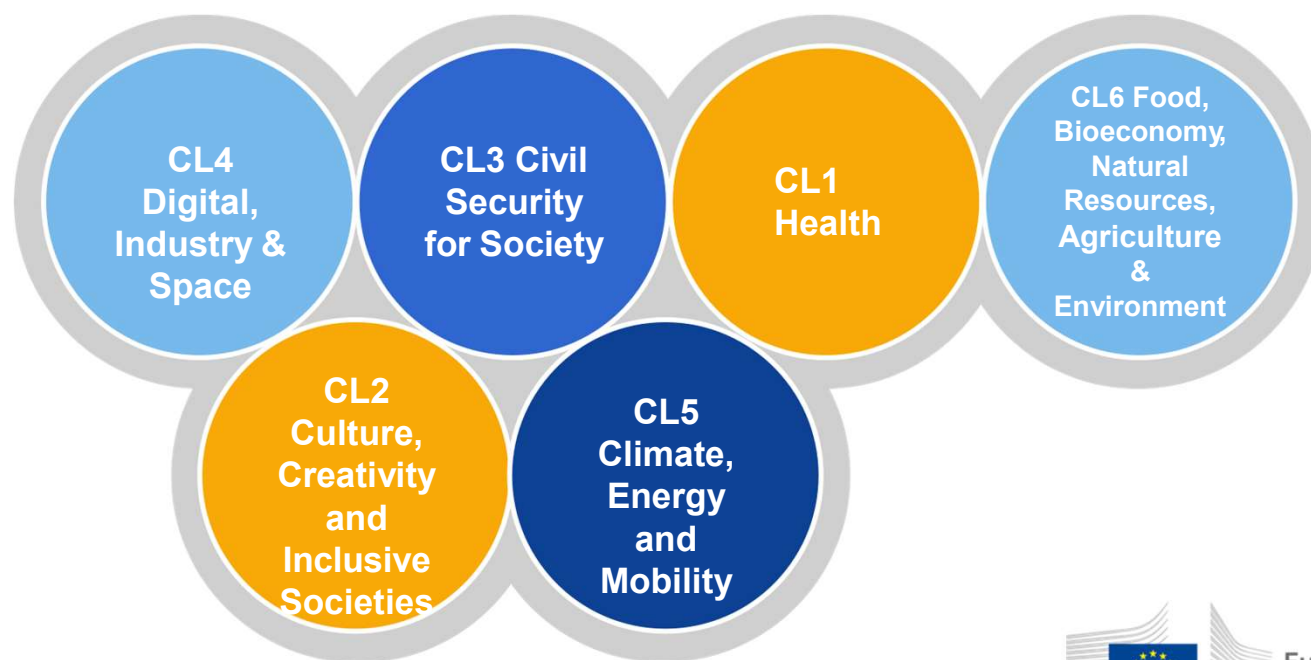
17:30 Chiusura dei lavori

Horizon Europe



**SFIDE GLOBALI E COMPETITIVITÀ
INDUSTRIALE EUROPEA:**

promuovere tecnologie fondamentali e soluzioni a supporto delle politiche dell'UE e degli obiettivi di sviluppo sostenibile
Proposta della Commissione per il bilancio: 52,7 miliardi di EUR



ELEMENTI CHIAVE

Pillar 2- Global Challenges and European Industrial Competitiveness

- ▣ incentrato sulle **sfide globali e la competitività industriale**,
- ▣ migliorare **le problematiche della società e le tecnologie industriali** con un approccio *top-down*
- ▣ integrazione in cluster, con una serie di settori di intervento ciascuno, per incentivare la **collaborazione interdisciplinare, intersettoriale, trasversale e internazionale**, ottenendo così un **impatto** più elevato e cogliendo meglio il potenziale di innovazione che spesso è maggiore i punti di intersezione di discipline e settori
- ▣ il ruolo essenziale dell'**industria** nel conseguimento di tutti gli obiettivi del programma, favorito anche dagli investimenti nelle tecnologie abilitanti fondamentali del futuro.

ELEMENTI CHIAVE

Pillar 2- Global Challenges and European Industrial Competitiveness

- ▣ includono le **Partnership** (nuova razionalizzazione su tre categorie) e le **Missions** (che perseguiranno obiettivi ambiziosi ma realizzabili e circoscritti nel tempo, incoraggiando la partecipazione dei cittadini)
- ▣ aumento della quota di partecipazione nella ricerca e nel finanziamento da parte di **entità provenienti da paesi con basso e medio reddito**
- ▣ il ruolo dello **JRC** come fonte di dati scientifici e assistenza tecnica a sostegno delle politiche dell'Union

Poli tematici del pilastro "Sfide globali e competitività industriale"



Cluster	Aree di intervento	
Sanità	<ul style="list-style-type: none"> • Salute lungo l'arco della vita • Malattie non trasmissibili e rare • Strumenti, tecnologie e soluzioni digitali per la salute e l'assistenza, compresa la medicina personalizzata 	<ul style="list-style-type: none"> • Determinanti ambientali e sociali della salute • Malattie infettive, comprese le malattie correlate alla povertà e trascurate • Sistemi sanitari
Cultura, creatività e società inclusiva	<ul style="list-style-type: none"> • Democrazia e governance • Trasformazioni sociali ed economiche 	<ul style="list-style-type: none"> • Cultura, patrimonio culturale e creatività
Sicurezza civile per la società	<ul style="list-style-type: none"> • Società in grado di far fronte alle calamità • Protezione e sicurezza 	<ul style="list-style-type: none"> • Cybersicurezza
Digitale, industria e spazio	<ul style="list-style-type: none"> • Tecnologie produttive • Materiali avanzati • Internet di prossima generazione • Industrie circolari • Spazio, compresa l'osservazione della terra • Tecnologie abilitanti emergenti 	<ul style="list-style-type: none"> • Tecnologie digitali fondamentali, comprese le tecnologie quantistiche • Intelligenza artificiale e robotica • Calcolo avanzato e Big Data • Industria a basse emissioni di CO₂ e pulita • Tecnologie abilitanti emergenti
Clima, energia e mobilità	<ul style="list-style-type: none"> • Scienza e soluzioni climatiche • Sistemi energetici e reti • Comunità e città • Competitività industriale nei trasporti • Mobilità intelligente 	<ul style="list-style-type: none"> • Approvvigionamento energetico • Edifici e strutture industriali in transizione energetica • Trasporti e mobilità puliti, sicuri e accessibili • Immagazzinamento energetico
Prodotti alimentari, bioeconomia, risorse naturali, agricoltura e ambiente	<ul style="list-style-type: none"> • Osservazione ambientale • Agricoltura, silvicoltura e zone rurali • Sistemi circolari • Sistemi alimentari 	<ul style="list-style-type: none"> • Biodiversità e risorse naturali • Mari, oceani e acque interne • Sistemi di innovazione biologici nell'UE Bioeconomia

From policy priorities to concrete action





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HE Key Strategic Orientations

Mirroring political priorities of the EU

A // Digital Transformation

Promoting an open strategic autonomy by leading the development of key digital, enabling and emerging technologies, sectors and value chains to accelerate and steer the digital and green transitions through human-centred technologies and innovations



C // Sustainable Development

Making Europe the first digitally enabled circular, climate-neutral and sustainable economy through the transformation of its mobility, energy, construction and production systems



B // Environmental Protection

Restoring Europe's ecosystems and biodiversity, and managing sustainably natural resources to ensure food security and a clean and healthy environment

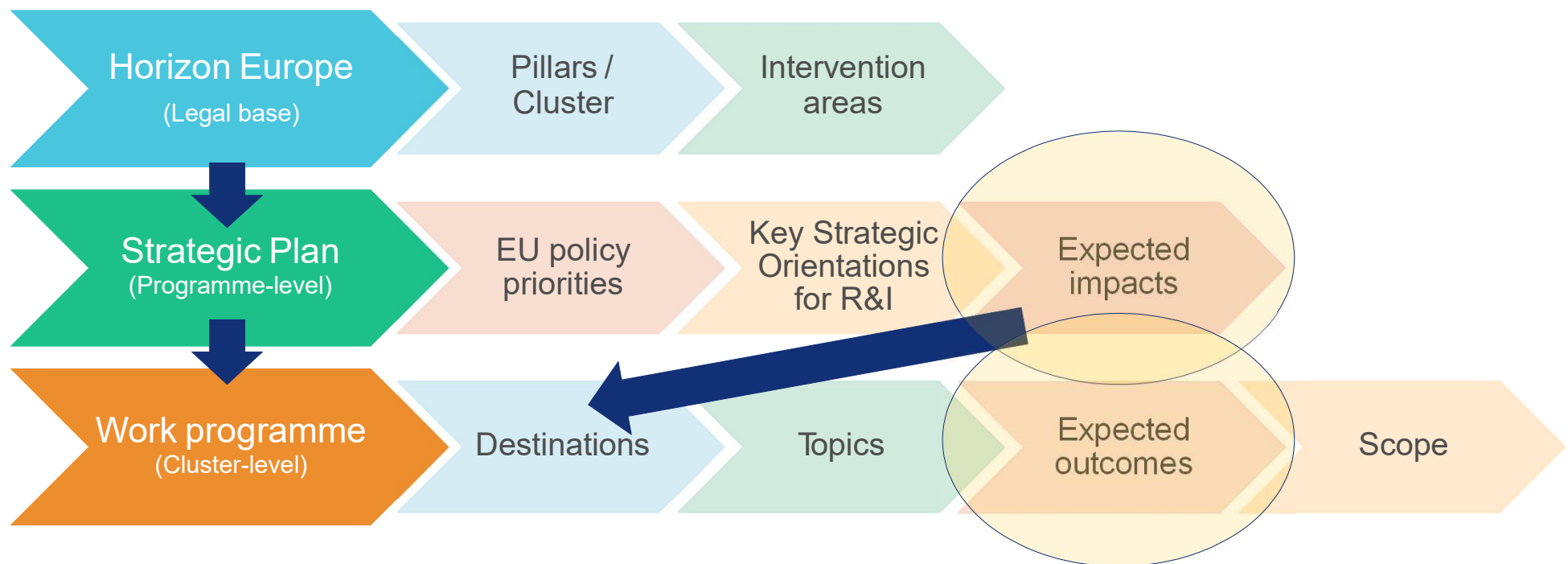


D // Resilience & Inclusiveness

Creating a more resilient, inclusive and democratic European society, prepared and responsive to threats and disasters, addressing inequalities and providing high-quality health care, and empowering all citizens to act in the green and digital transitions



Horizon Europe Intervention Logic





STRATEGIC PLAN

WORK PROGRAMME

PROJECT

EC POLICY PRIORITIES

Political Guidelines for the European Commission 2019-2024 (and other key strategic documents - e.g. Green Deal)

KEY STRATEGIC ORIENTATIONS FOR R&I

Set of strategic objectives within the EC policy priorities where R&I investments are expected to make a difference

IMPACT AREAS

Group of expected impacts highlighting the most important transformation to be fostered through R&I

EXPECTED IMPACTS ⇒ DESTINATIONS

= General objectives

Wider effects on society (incl. the environment), the economy and science enabled by the outcomes of R&I investments (long term)

EXAMPLE

Strategic Plan & Work Programme: R&I contribution to seamless, smart, inclusive and sustainable mobility services

Project : Increase maximum passenger capacity by 15% and passenger average throughput by 10%, leading to a 28% reduction in infrastructure expansion costs

EXPECTED OUTCOMES ⇒ TOPICS

= Specific objectives

Effects of Horizon Europe projects such as uptake, diffusion, use and deployment of the projects' results by direct target groups (medium term)

EXAMPLE

Work Programme : Innovative accessibility and logistics solutions applied by the European Transport sector

Project : At least 9 European airports adopt the advanced forecasting system that was demonstrated during the project

EXPECTED OUTPUTS ⇒ PROJECT RESULTS

= Operational objectives

What is produced during the project implementation, such as innovative solutions, algorithms, new business models, guidelines, policy recommendations, methodologies, publications, database, prototypes, trained researchers, new infrastructures, proof of feasibility, networks, etc. (short term)

EXAMPLE

Project (by the end of its implementation): Successful large-scale demonstration trial with 3 airports of an advanced forecasting system for proactive airport passenger flow management

CLUSTER IMPACT SUMMARY

Cluster 1 HEALTH



- Introduction
- HOW WILL CLUSTER 1 OF HORIZON EUROPE MAKE A DIFFERENCE?
 - 1. Expected impacts of cluster 1
 - 2. International cooperation
 - 3. Cross-cluster complementarities

Cluster 1 will support in particular the following two Horizon Europe key strategic orientations and impact areas associated to them²⁵

KEY STRATEGIC ORIENTATIONS FOR R&I IMPACT AREAS EXPECTED IMPACTS	KSO A: Promoting an open strategic autonomy by leading the development of key digital, enabling and emerging technologies, sectors and value chains	KSO D: Creating a more resilient, inclusive and democratic European society
	Competitive and secure data-economy High quality digital services for all	A resilient EU prepared for emerging threats Good health and high-quality accessible healthcare
	5. Unlocking the full potential of new tools, technologies and digital solutions for a healthy society 6. Maintaining an innovative, sustainable and globally competitive health-related industry	1. Staying healthy in a rapidly changing society 2. Living and working in a health-promoting environment 3. Tackling diseases and reducing their burden 4. Ensuring access to innovative, sustainable & high-quality health care

3. Cross-cluster complementarities

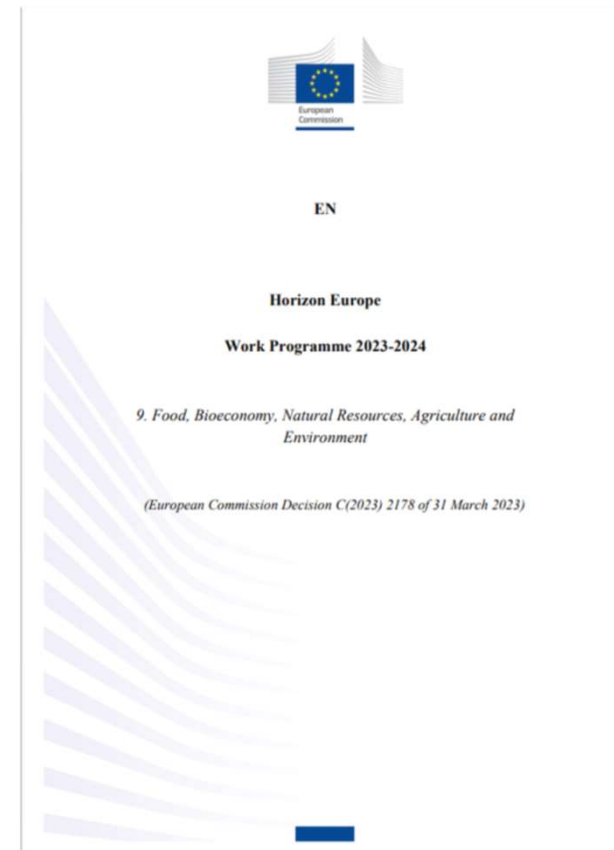
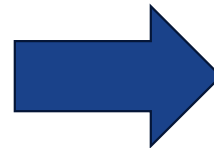
Table 2 Overview of Cross Cluster Complementarities

NUMBER AND NAME OF CLUSTER	RELEVANT EXPECTED IMPACT OF THE CLUSTER DESCRIBED LEFT	POSSIBLE COMPLEMENTARITIES
2. CULTURE, CREATIVITY AND INCLUSIVE SOCIETY	9. Social and economic resilience and sustainability are strengthened through a better understanding of the social, ethical, political and economic impacts of drivers of change (such as technology, globalisation, demographics, mobility and migration) and their interplay.	Expected impact 1 'Staying healthy in a rapidly changing society': Synergies on health inequalities, on other inequalities affecting health, or on citizens' behaviour and engagement.
	10. Inclusive growth is boosted and vulnerabilities are reduced effectively through evidence-based policies for protecting and enhancing employment, education, social fairness and tackling inequalities, including in response to the socio-economic challenges due to the COVID-19 pandemic.	Expected impact 4 'Ensuring access to innovative, sustainable and high-quality health care': Synergies on health economics and economic models, on cost-effectiveness, fiscal sustainability and accessibility of healthcare, or on adaptation of public health systems to societal challenges (climate change, environmental degradation, migration, demographic change, emerging epidemics and One Health AMR) thereby contributing to building resilience.

THE EIGHT HORIZONTAL TOPICS



- Relevant to all programme components
- Identified in Strategic Plan
- Should be addressed appropriately





Horizon Europe: destination structure

Title	<ul style="list-style-type: none">• short and meaningful, communicating the essence of the expected impact and policy direction
Introductory narrative	<ul style="list-style-type: none">• sets the scene, describes briefly the challenges, includes the overall rationale for the choice of the topics
Expected impacts	<ul style="list-style-type: none">• “Proposals for topics under this destination should set out a credible pathway to contributing to [title of the destination], and more specifically [to one or several of/all] the following impacts...”• list of expected impacts → primary impact of each destination corresponds to one of the expected impacts identified in the relevant Cluster-specific annex of the Strategic Plan
Link to impact areas	<ul style="list-style-type: none">• a final paragraph makes the link with impact areas set out in the draft Strategic Plan
Table	<ul style="list-style-type: none">• a table summarizing the calls in the Destination will be generated by the IT system



Table of contents

Introduction

Destination 1 – Biodiversity and Ecosystem Services

Call – Biodiversity and Ecosystem Services

Conditions for the Call	
Understanding biodiversity decline	
HORIZON-CL6-2021-BIODIV-01-01: European participation in global biodiversity endeavours aimed at identifying all biodiversity on Earth	
HORIZON-CL6-2021-BIODIV-01-02: Data and technologies for the inventory identification and monitoring of endangered wildlife and other species groups	
HORIZON-CL6-2021-BIODIV-01-03: Understanding and valuing coastal biodiversity and ecosystems services	
HORIZON-CL6-2021-BIODIV-01-04: Assess and predict integrated impacts of direct and indirect stressors on coastal and marine biodiversity, ecosystems services	
Valuing and restoring biodiversity and ecosystem services	
HORIZON-CL6-2021-BIODIV-01-05: The economics of nature-based solutions: benefit analysis, market development and funding	
HORIZON-CL6-2021-BIODIV-01-06: Nature-based solutions, prevention risks and the insurance sector	
HORIZON-CL6-2021-BIODIV-01-07: Ecosystems and their services for a resilient policy and decision-making	
HORIZON-CL6-2021-BIODIV-01-08: Supporting the development of a coherent resilient Trans-European Nature Network	
HORIZON-CL6-2021-BIODIV-01-09: Assessing and consolidating recent advances on freshwater ecosystem restoration	
HORIZON-CL6-2021-BIODIV-01-10: Demonstration of measures and marine coastal and marine ecosystems restoration and resilience in simplified socio systems	
HORIZON-CL6-2021-BIODIV-01-11: What else is out there? Exploring the	

Destination 1 – Biodiversity and Ecosystem Services

The EU Biodiversity Strategy for 2030 is a cornerstone of the European Union's commitment to biodiversity. It will also prepare the EU to take a leading role in the negotiations on a new global framework to halt biodiversity loss. With 'no harm' vision, all EU policies will become more biodiversity-friendly, sustainable use of ecosystems, supporting the recovery in a post-pandemic vision is fully supported in the Strategic Plan of Horizon Europe for a strategic orientation 'Protecting and restoring ecosystems and bio sustainably natural resources on land and at sea, and achieving adaptation'. Consequently, Destination 1 'Biodiversity and Ecosystem Services' achieve the following expected impact from Cluster 6 'Biodiversity recovery, and ecosystems and their services are preserved and land, inland water and at sea through improved knowledge and funded under this destination must therefore contribute to deliver this

Research and innovation is key to delivering important impacts in food-health-water-climate and to achieving the goal of healthy and 2030. It will also enable transformational change engaging Europe and their global impacts, making decisions more biodiversity-friendly policy targets, develop nature-based solutions and holistic approaches of biodiversity loss, particularly in connection to productive sectors to be integrated in ecosystem-based management. Invest to protect and restore the integrity of terrestrial, aquatic and marine ecosystems multiple pressures, and their capacity to deliver a wide range of ecosystem services. Horizon Europe, a long-term strategic research agenda for biodiversity.

The sixth mass extinction is taking place: one million species are at risk of degradation of ecosystems severely affects the fabric of life that humankind. None of the globally agreed targets of the Strategic Plan 2020 has been fully achieved¹⁹, with the biodiversity crisis even deepening biodiversity status, pressures, impacts and responses needs to be

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Food, Bioeconomy, Natural Resources, Agriculture and Environment

Horizon Europe - Work Programme 2021-2022
Food, Bioeconomy, Natural Resources, Agriculture and Environment

Biological Diversity. All topics will directly contribute to the EU Biodiversity Strategy for 2030 and to the Sustainable Development Goals (SDGs) 13, 14, 15, 17.

Several Missions will also help to achieving biodiversity-related impacts, notably in the areas of "Adaptation to climate change including societal transformation", "Climate-neutral and smart cities", "Ocean, seas and waters" and "Soil health and food".

Expected impact

Proposals for topics under this Destination should set out a credible pathway contributing to Biodiversity and Ecosystem Services, and more specifically to one or several of the following impacts:

- **Biodiversity decline, its main direct drivers and their interrelations are better understood and addressed** through the production, integration and use of open data, knowledge, education and training, innovative technologies, solutions and control measures, in collaboration with European and international initiatives.
- **Biodiversity and natural capital are integrated into public and business decision-making at all levels for the protection and restoration of ecosystems and their services**; science base is provided for planning and increasing protected areas, and sustainably managing ecosystems.
- **Europe builds competitive sustainability and tackles climate change and natural disasters through the deployment of nature-based solutions**, fully reaping their economic, social and environmental benefits for a green recovery across all European regions.
- **The interrelations between biodiversity, health, food, soil, water and climate are better known and communicated** to citizens and policy-makers; in particular, risks associated with microbiomes and biodiversity-friendly prevention/mitigation measures, and opportunities for biodiversity recovery are identified.
- **Practices in agriculture and forestry support biodiversity and the provision of other ecosystem services** based on a) a better understanding of functional biodiversity (above and below ground), b) effective knowledge and innovation systems and c) ready-to-use solutions for land managers, adapted to specific conditions.
- **Access to a wider range of crops and breeds with a broadened genetic base is improved in line with global biodiversity commitments** through increased insight into the characteristics of genetic resources and enhancing capacities for their preservation and use in breeding and in primary production (farming, forestry, fisheries, aquaculture). More (bio)diverse, resilient production systems will have positive knock-on effects on value chains, consumption, healthy diets and the wider, non-managed biodiversity.
- **Approaches for enabling transformative changes in society** for biodiversity and ecosystems recovery are identified, tested and implemented in policy, governance, law

Horizon Europe - Work Programme 2021-2022
Food, Bioeconomy, Natural Resources, Agriculture and Environment

society; all indirect drivers of biodiversity loss are addressed and 'do no harm' policies are mainstreamed across sectors.

Research is interconnected across Europe, supporting and enhancing the national, EU and international environmental policies and conventions.

Actions under this destination will have impacts in the following areas: systems and biodiversity on land and in waters"; "Climate change mitigation "Clean and healthy air, water and soil"; "Sustainable food systems and "; "A resilient EU prepared for emerging threats"

all(s) in this work programme contribute to this destination:

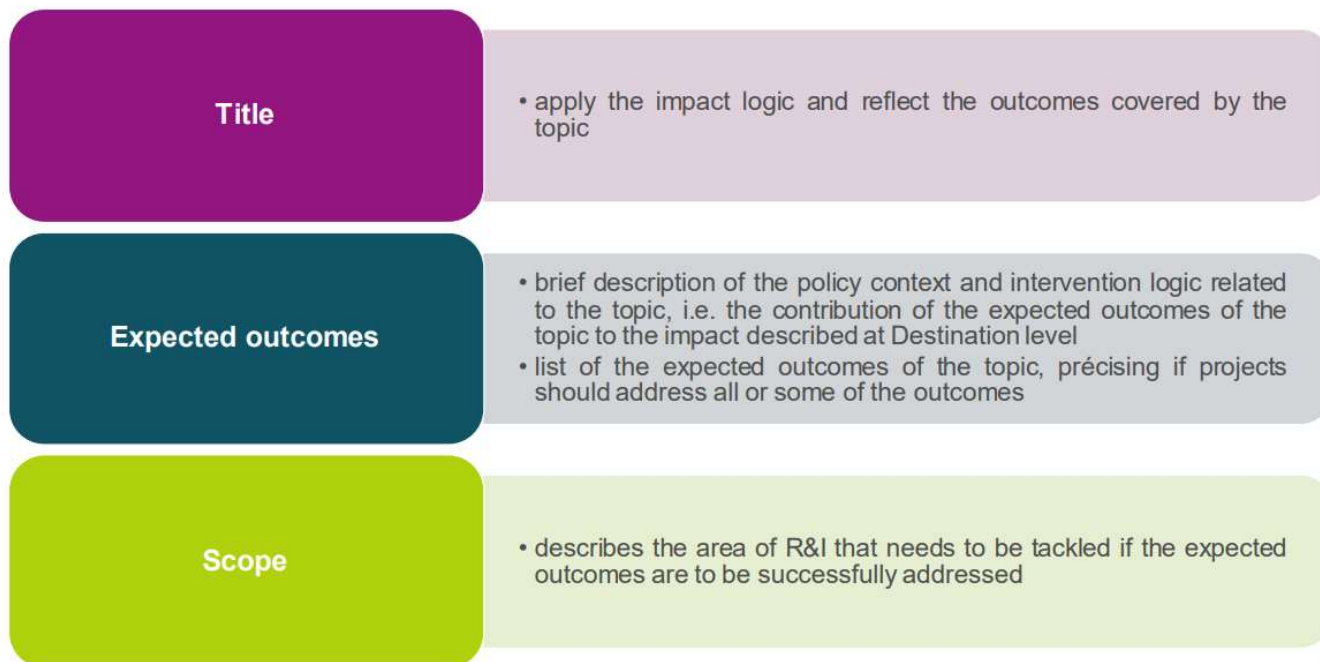
	Budgets (EUR million)		Deadline(s)
	2021	2022	
2021-	218.50	20.00	01 Sep 2021
2022-		90.00	15 Feb 2022
2022-stage		46.00	15 Feb 2022 (First Stage) 01 Sep 2022 (Second Stage)
total budget	218.50	156.00	

WP CLX (Structure)

- Introduction
- DestinationX
 - Intro, expected impact
 - Call 2023
 - Call 2023 – two stage (dove specificato)
 - Call 2024
 - Call 2024 – two stage (dove specificato)

APRE

Horizon Europe: topic structure





HORIZON-CL6-2023-FARM2FORK-01-14: Providing marketing solutions to prevent and reduce the food waste related to marketing standards

Specific conditions	
Expected EU contribution per project	The Commission estimates that an EU contribution of around EUR 5.00 million would allow these outcomes to be addressed appropriately. Nonetheless, this does not preclude submission and selection of a proposal requesting different amounts.
Indicative budget	The total indicative budget for the topic is EUR 10.00 million.
Type of Action	Research and Innovation Actions
Eligibility conditions	The conditions are described in General Annex B. The following exceptions apply: The following additional eligibility criteria apply: the proposals must apply the multi-actor approach. See definition of the multi-actor approach in the introduction to this work programme part.
Legal and financial set-up of the Grant Agreements	The rules are described in General Annex G. The following exceptions apply: Eligible costs will take the form of a lump sum as defined in the Decision of 7 July 2021 authorising the use of lump sum contributions under the Horizon Europe Programme – the Framework Programme for Research and Innovation (2021-2027) – and in actions under the Research and Training Programme of the European Atomic Energy Community (2021-2025). ¹⁶⁸

Expected Outcome: In line with the European Green Deal priorities, the farm to fork strategy for a fair, healthy and environmentally friendly food system, and the EU's climate ambition for 2030 and 2050, and the Commission communication "Safeguarding food security and reinforcing the resilience of food systems", the successful proposals will support R&I to prevent and reduce food losses and waste¹⁶⁹. They should therefore contribute to the transformation of food systems to deliver co-benefits for climate (mitigation and adaptation),

¹⁶⁸ This [decision](https://ec.europa.eu/info/funding-tenders/opportunities/docs/2021-2027/horizon/guidance/decision-he_en.pdf) is available on the Funding and Tenders Portal, in the reference documents section for Horizon Europe, under "Simplified costs decisions" or through this link: https://ec.europa.eu/info/funding-tenders/opportunities/docs/2021-2027/horizon/guidance/decision-he_en.pdf

¹⁶⁹ Definition of food waste included in the [Waste Framework Directive](#): Food waste means all food as defined in Article 2 of Regulation (EC) No 178/2002 of the European Parliament and of the Council

biodiversity, environmental sustainability and circularity, sustainable food consumption, food poverty reduction and empowerment of communities, and thriving businesses.

Projects results are expected to contribute to all the following outcomes:

- Better understanding of the impact of food marketing standards on the generation of food waste along the supply chain¹⁷⁰, including the food waste generated between stages of the supply chain, and for various commodities.
- Improved market access to foods that do not meet marketing standards but are still safe to eat.
- Better understanding of the purpose and nature of private marketing standards and the underlying reasons for establishing such standards.

Contribution to the Food 2030 priorities: nutrition for sustainable healthy diets, climate, biodiversity and environment, circularity and resource efficiency, innovation and empowering communities.

Scope: Food marketing standards are standards individuals and businesses comply with to be able to put food on the market or to sell to a particular buyer. These standards include or may include requirements about technical definitions, classification, presentation, marking and labelling, packaging, production method, conservation, storage, transport related administrative documents, certifications and time limits, restriction of use and disposal, ...

As these standards focus on quality, they are different from food safety standards (foods that do not comply with marketing standards can still be safe to eat).

The marketing standards applied to food marketed in the EU exist in different forms:

- International standards¹⁷¹.
- EU marketing standards, contained in the Common Market Organisation Regulation, the CMO secondary legislation and the "Breakfast Cereals Regulation".
- National marketing standards set up by governments of Member States.
- Private marketing standards.

Proposals should address all the following points:

¹⁷⁰ The Commission Delegated Decision (EU) 2019/1597 establishing a measure food waste outlines the following stages of the food supply chain: processing and manufacturing; retail and other distribution of food; rest

Topic

- Conditions related to the topic
- Expected outcomes
- Scope

Pubblicazioni / scadenze CLUSTER WP23-24

- ❏ Pubblicazione WP 2024: Autunno 2023 (ottobre)
- ❏ Scadenze call: diverse date, da febbraio 2024 eccetto Cluster 1
- ❏ Call 2024: single + two-stage

https://research-and-innovation.ec.europa.eu/funding/funding-opportunities/funding-programmes-and-open-calls/horizon-europe/horizon-europe-work-programmes_en

I WP 2023-24

**12 WP 23-24
(Pillar I, II, III + Widening)**

**1 WP 2023 (+ 2024),
5 Missioni**

**I Topics 2023-24 lanciati dalle
EP (Istituzionalizzate e co-
finanziate)**

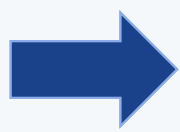




Funding & tender opportunities

Single Electronic Data Interchange Area (SEDIA)

English **EN**
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- + 2021-2022
- + 2023-2024
 - HE and Euratom Work Programme on Horizontal Expenditure 2023-2024 >
 - 1. General introduction >
 - 2. Marie Skłodowska-Curie Actions >
 - 3. Research Infrastructures >
 - 4. Health >
 - 5. Culture, creativity and inclusive society >
 - 6. Civil Security for Society >
 - 7. Digital, Industry and Space >
 - 8. Climate, Energy and Mobility >
 - 9. Food, Bioeconomy, Natural Resources, Agriculture and Environment >
 - 10. European Innovation Ecosystems (EIE) >
 - 11. Widening participation and strengthening the European Research Area >
 - 12. Missions >
 - 13. General Annexes >
- + EIC Work Programme 2023
- + ERC Work Programme 2023
- + Grant agreements and contracts
- + Simplified cost decisions
- + Guidance
- + Templates & forms



Funding & tender opportunities

Single Electronic Data Interchange Area (SEDIA)

English

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• Grant and Audit Management Services may not be accessible due to the issues experienced by the European Commission Authentication Service (EU Login).
• The Expert Registration, Legal Entity, Bank Account, Contracts and Payment functionalities in the Experts Area of the F&T Portal may be unavailable due to the issues experienced by the European Commission Authentication Service (EU Login).

Type your Keywords...



☒ Match whole words only

☒ GRANTS

☒ TENDERS

Submission status

Forthcoming (388)

Open for submission (412)

Closed (1124)

Programming period

2021 - 2027 (1924)

Horizon Europe (HORIZON)

Programme part

Mission

Funding and tenders (1924)

Need help?



Sort by:

Submission status

ERC PROOF OF CONCEPT GRANTS

ERC-2023-POC

[Call for proposal](#)

[Grant](#)

Programme Horizon Europe (HORIZON)
Type of action HORIZON ERC Proof of Concept Grants
Opening date 20 October 2022

Status Open for submission
Deadline model multiple cut-off
Next deadline 24 January 2023 17:00:00 Brussels time

ERC CONSOLIDATOR GRANTS

ERC-2023-COG

[Call for proposal](#)

[Grant](#)

Programme Horizon Europe (HORIZON)
Type of action HORIZON ERC Grants
Opening date 28 September 2022

Status Open for submission
Deadline model single-stage
Deadline date 02 February 2023 17:00:00 Brussels time

Support to the activities of technology areas of the SET Plan: Action dedicated to energy efficiency in industry

HORIZON-CLS-2022-D4-02-06

[Call for proposal](#)

[Grant](#)

Programme Horizon Europe (HORIZON)
Type of action HORIZON Coordination and Support Actions
Opening date 06 September 2022

Status Open for submission
Deadline model single-stage
Deadline date 24 January 2023 17:00:00 Brussels time

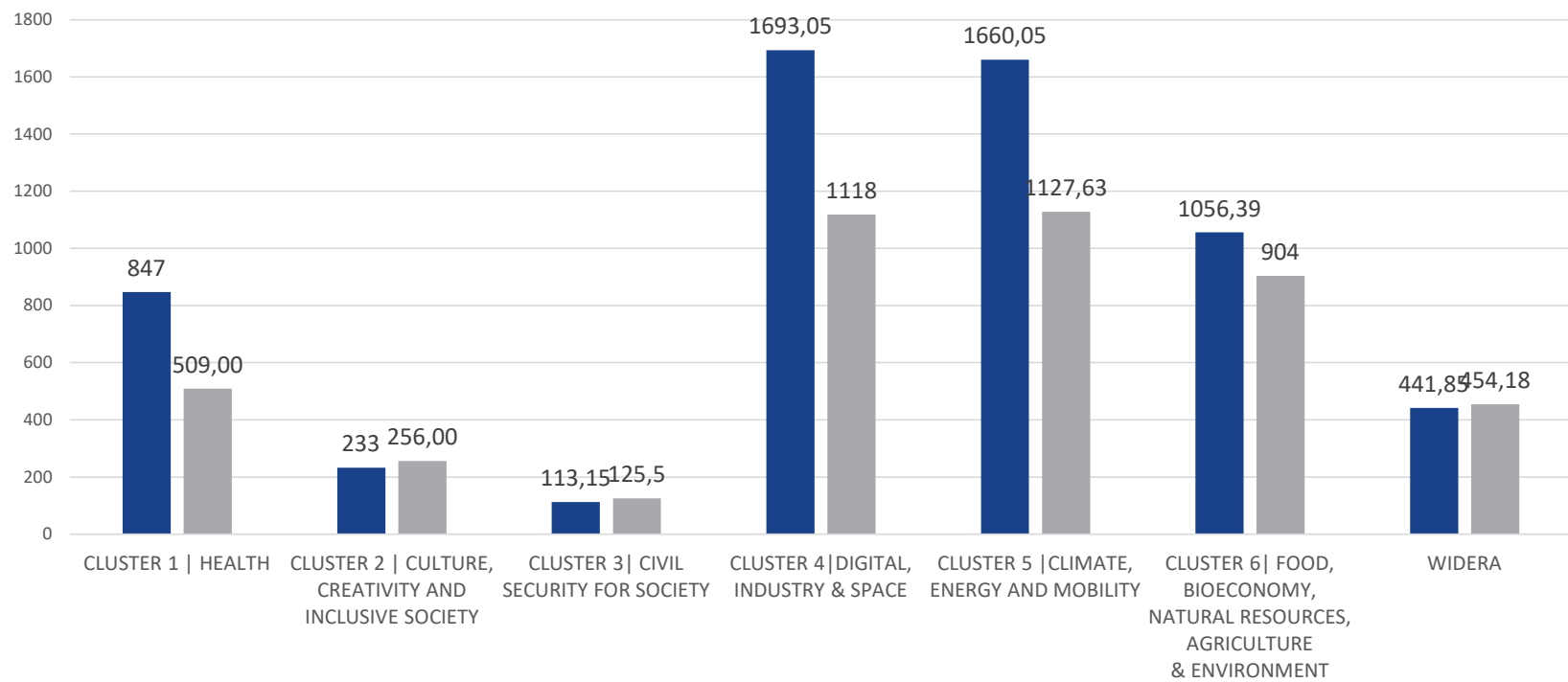
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20/09/2022





PILLAR II – BUDGET 2023-2024 (mln €)



20/09/2022



ELEMENTI DI NOVITÀ E CARATTERIZZANTI DEI WORK PROGRAMME 2023- 2024 (Focus Pillar II)

Molte degli elementi sono riportate nella tabella delle **specific conditions** di ogni topic, WP PDF, e nel F&T portal sulla pagina di dettaglio del topic specifico

HORIZON-CL6-2023-BIODIV-01-15: Integrative forest management for multiple ecosystem services and enhanced biodiversity

Specific conditions	
Expected EU contribution per project	The Commission estimates that an EU contribution of around EUR 7.00 million would allow these outcomes to be addressed appropriately. Nonetheless, this does not preclude submission and selection of a proposal requesting different amounts.
Indicative budget	The total indicative budget for the topic is EUR 7.00 million.
Type of Action	Coordination and Support Actions
Eligibility conditions	<p>The conditions are described in General Annex B. The following exceptions apply:</p> <p>Legal entities established in non-associated third countries may exceptionally participate in this Coordination and support action in a capacity other than as an associated partner.</p> <p>The following additional eligibility criteria apply: the proposals must apply the multi-actor approach. See definition of the multi-actor approach in the introduction to this work programme part.</p>
	The Joint Research Centre (JRC) may participate as member of the consortium selected for funding.
Legal and financial set-up of the Grant Agreements	<p>The rules are described in General Annex G. The following exceptions apply:</p> <p>Eligible costs will take the form of a lump sum as defined in the Decision of 7 July 2021 authorising the use of lump sum contributions under the Horizon Europe Programme – the Framework Programme for Research and Innovation (2021-2027) – and in actions under the Research and Training Programme of the European Atomic Energy Community (2021-2025).⁹⁰</p>

ELEMENTI PREVALENTI

**Il metodo Lump
sum**

**JRC – Joint
Research Center**

**Blind evaluation
(First stage)**

**IA Partnership co-
programme
(Cluster 4-5)**

**Financial support
to third parties
FSTP o cascading
grants**

**Topics collegati al
new Eu Bauhaus
(Pillar II)**

**Eligibility for third
country in CSA**

**Art 22.5 – Limiti alla
Partecipazione AC
e Third Countries**

**Eligibility for International
organisations with
headquarters in a
Member State or
associated country**

LUMP SUM

- 🔗 L'utilizzo del lump sum ha come obiettivo la **riduzione degli errori amministrativi e finanziari nella gestione dei progetti** attraverso una notevole semplificazione dei processi. Elimina infatti la necessità di rendicontare i costi reali e eventuali controlli finanziari ex post. L'importo globale è determinato ex ante, a copertura di tutti i costi sostenuti per implementare il progetto ed erogato al completamento delle attività.

- 🔗 Il **contributo sotto forma di lump sum** si caratterizza perché:
 - viene definito in anticipo attraverso un dettagliato budget iniziale;
 - viene fissato nel Grant Agreement;
 - viene erogato solo al completamento delle attività come definite nei work packages del progetto (alla fine dei periodi di reporting)
 - Guida della Commissione Europea [LINK](#)
 - Contatti APRE: lef@apre.it

SINGLE STAGE vs TWO-STAGE submission

- ❏ Evaluation procedure and ranking Calls may be subject to either a single-stage submission procedure or a two-stage submission procedure. The evaluation procedure could be organised in one (standard) or several steps.
- ❏ In the first stage of two-stage submission, applicants will be requested to submit only an outline application (which will be evaluated against only two award criteria: 'Excellence' and 'Impact').
- ❏ Successful applicants will be invited to submit a full application for the second stage (which will be evaluated against the full set of award criteria).

TWO STAGES – BLIND EVALUATION



Blind evaluation (in 1st stage)

Cosa significa: Nel caso della procedura di presentazione della proposta in due fasi, **le proposte possono essere valutate nella prima fase senza che i proponenti rivelino la propria identità** (es. nomi di organizzazioni, acronimi, loghi, nomi del personale) nella Parte B della proposta – è questa l'iniziativa di **blind evaluation** introdotta in Horizon Europe.

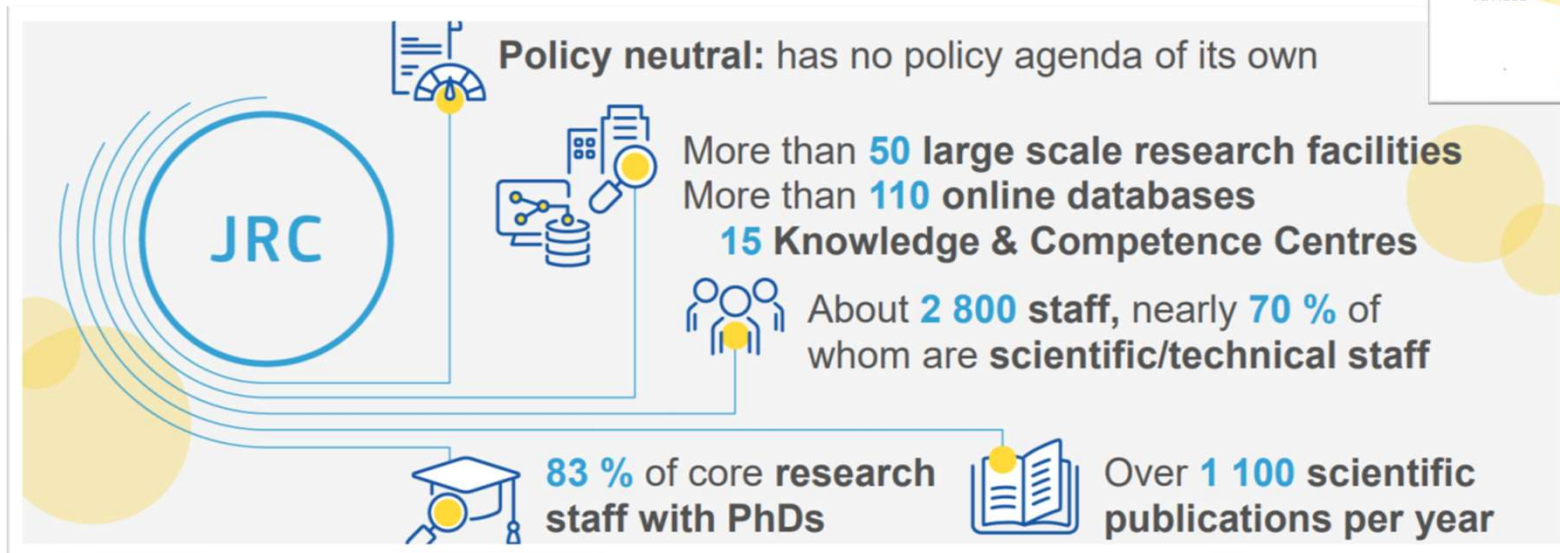
- There is no evidence that the current proposal evaluation system is systematically biased.
- There are understandable concerns that evaluation experts may be swayed – perhaps unconsciously – in favour of proposals from well-known organisations in countries with better performing R&I systems.
- ‘Blind’ evaluation is a way to remove any real or perceived effect of such reputational bias.
- Experts evaluate without knowing the identity of participants.
- The work programme will include an additional admissibility criterion: applicants can not be disclosed in the narrative part of the proposal.

FINANCIAL SUPPORT FOR THIRD PARTIES (FSTP)

- Il meccanismo prevede che, per alcuni progetti, il consorzio beneficiario sia incaricato di distribuire finanziamenti a soggetti terzi attraverso delle cosiddette **open calls**. In alcuni casi, le call sono indirizzate specificamente a PMI e start-up per finanziare attività specifiche come studi, sperimentazioni o azioni pilota, con un importo che può variare da 50.000 a 150.000 €, anche nella forma di *voucher* per attività di supporto o premi.
- <https://ec.europa.eu/info/funding-tenders/opportunities/portal/screen/opportunities/competitive-calls>

JRC – JOINT RESEARCH CENTER

🔗 *JRC Mission: As the science and knowledge service of the Commission our mission is to support EU policies with independent evidence throughout the whole policy cycle.*



JRC – Knowledge Centres



JRC IN HE – *GENERAL ANNEX*

- Where provided for in the specific call conditions, applicants may include in their proposals the possible contribution of the JRC but the JRC will not participate in the preparation and submission of the proposal.
- Applicants will indicate the contribution that the JRC could bring to the project based on the scope of the topic text
- After the evaluation process, the JRC and the consortium selected for funding may come to an agreement on the specific terms of the participation of the JRC.
- If an agreement is found, the JRC would accede to the grant agreement as beneficiary requesting zero funding and would accede to the consortium as a member

ART. 22, COMMA 5 – Regolamento Horizon Europe

«Per le azioni collegate alle risorse strategiche, agli interessi, all'autonomia o alla sicurezza dell'Unione, il programma di lavoro può prevedere che **LA PARTECIPAZIONE SIA LIMITATA AI SOGGETTI GIURIDICI STABILITI SOLO NEGLI STATI MEMBRI O AI SOGGETTI GIURIDICI STABILITI IN PAESI ASSOCIATI O ALTRI PAESI TERZI SPECIFICATI IN AGGIUNTA AGLI STATI MEMBRI.** Ogni limitazione della partecipazione dei soggetti giuridici stabiliti in paesi associati che sono membri del SEE deve essere conforme ai termini e alle condizioni dell'accordo sullo Spazio economico europeo.

Per motivi debitamente giustificati ed eccezionali, al fine di garantire la tutela degli interessi strategici dell'Unione e dei suoi Stati membri, **il programma di lavoro può anche escludere da singoli inviti a presentare proposte la partecipazione di soggetti giuridici stabiliti nell'Unione o in paesi associati direttamente o indirettamente controllati da paesi terzi non associati o da soggetti giuridici di paesi terzi non associati, o subordinare la loro partecipazione alle condizioni stabilite nel programma di lavoro.**



INNOVATION ACTION PARTNERSHIP

Co-programmated-CLUSER 4 E 5

The funding rate is 60% of the eligible costs, except for non-profit legal entities where the funding rate is up to 100% of the total eligible costs.

CLUSTER 1: Health	CLUSTER 4: Digital, Industry & Space	CLUSTER 5: Climate, Energy & Mobility	CLUSTER 6: Food, Bioeconomy, Agriculture,...
Innovative Health Initiative	Key Digital Technologies	Clean Hydrogen	Circular Bio-based Europe
Global Health Partnership	Smart Networks & Services	Clean Aviation	Rescuing Biodiversity to Safeguard Life on Earth
Transforming Health Care Systems	High Performance Computing	Single European Sky ATM	Climate Neutral, Sustainable and Productive Blue Economy
Risk Assessment of Chemicals	European Digital Factory (AI4Industry)	European Digital Grid	Water4all "Water security for the planet"
ERA for Health	Artificial Intelligence, Data and Robotics	Cooperative, Connected and Automated Mobility (CCAM)	Animal Health and Welfare*
Rare Diseases*	Photonics	Batteries "Towards a competitive European industrial battery value chain"	Agroecology "Accelerating Farming Systems Transition"
One Health / Antimicrobial Resistance*	Made in Europe	Zero-emission Waterborne Transport	Agriculture of Data*
Personalised Medicine*	Clean Steel - Low Carbon Steelmaking	Zero-emission Road Transport (2ZERO)	Safe and Sustainable Food Systems*
Pandemic Preparedness* Co-funded or co-programmed	Processes4Planet	People-centric Sustainable Built Environment (Built4People)	
	Globally Competitive Space Systems**	Clean Energy Transition	
		Driving Digital Transformations to a Sustainable Future	

Legend:
Institutionalised Partnerships (Art 185/7)
Co-Programmed
Co-Funded

* Calls with opening dates in 2023-24
** Calls with opening dates not before 2022



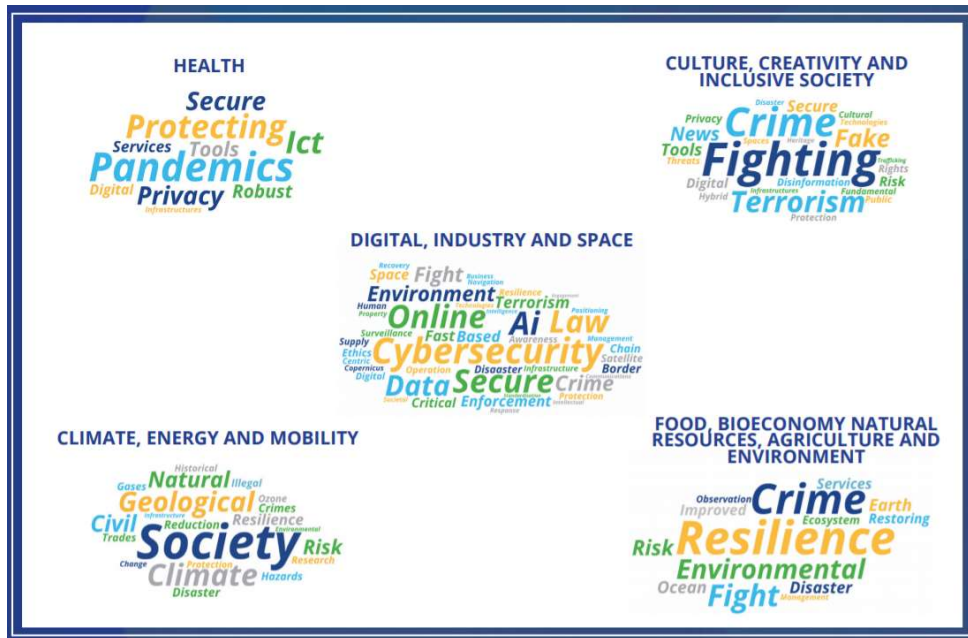
CLUSTER 2 - SOCIETY



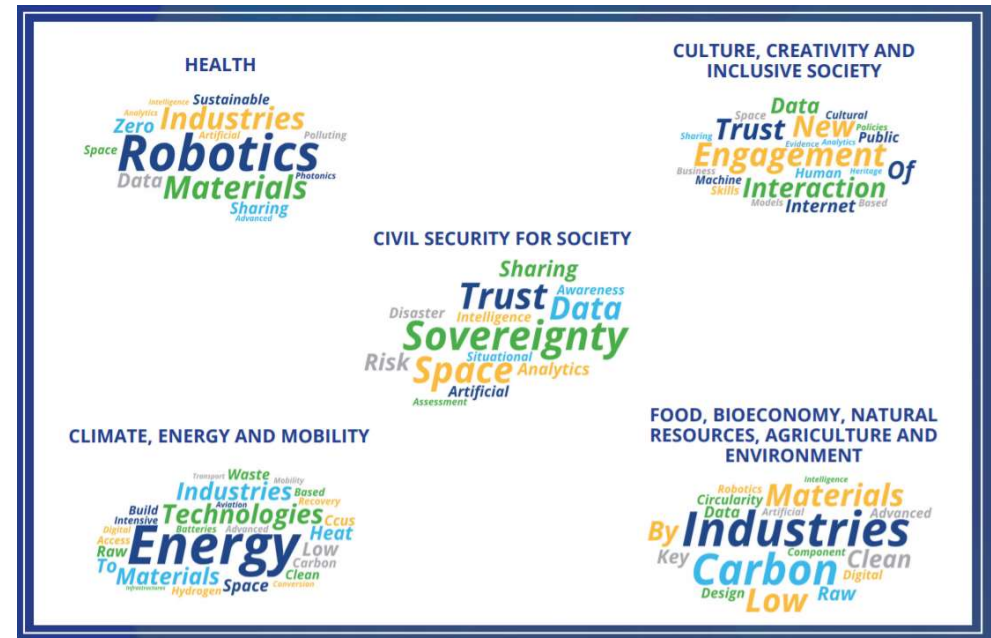


CROSS CLUSTER COMPLEMENTARITIES

CLUSTER 3 - SECURITY

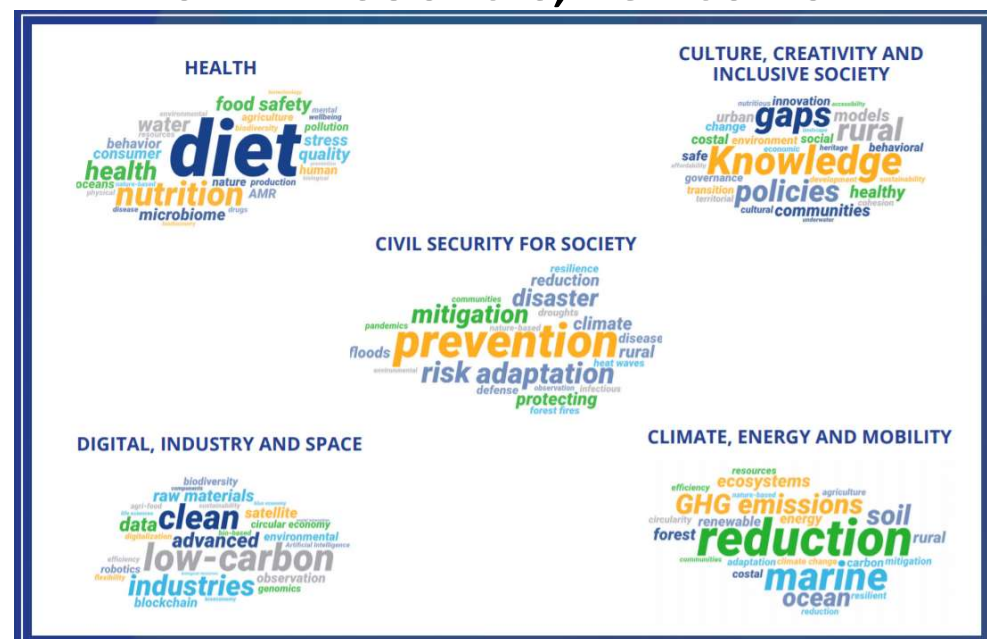


CLUSTER 4 – DIGITAL, INDUSTRY, SPACE





CLUSTER 6 – FOOD, BIOECONOMY, NATURAL RESOURCES, AGRICULTURE





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**GRAZIE PER
L'ATTENZIONE!**

Serena Borgna
borgna@apre.it

EUROPEAN PARTNERSHIPS



«La sfida della pandemia di coronavirus ha reso più urgenti i nostri sforzi di lunga data per utilizzare meglio la ricerca e l'innovazione al fine di affrontare le emergenze sanitarie, i cambiamenti climatici e la trasformazione digitale. I partenariati europei sono la nostra opportunità di cooperare per rispondere alle profonde trasformazioni economiche e sociali e plasmarle a vantaggio di tutti i cittadini dell'UE».

Mariya Gabriel, commissaria per l'Innovazione, la ricerca, la cultura, l'istruzione e i giovani



COSA SONO?

I partenariati europei sono iniziative in cui l'Unione europea, le autorità nazionali e/o il settore privato si impegnano congiuntamente a sostenere lo sviluppo e l'attuazione di un programma di attività di ricerca e innovazione. I partner possono rappresentare l'industria, le università, le organizzazioni di ricerca, gli organismi con una missione di servizio pubblico a livello locale, regionale, nazionale o internazionale o le organizzazioni della società civile, comprese le fondazioni e le ONG.

**UN PROGRAMMA
NEL PROGRAMMA HE**

INFOGRAFICA
FACTSHEET
SITO

** alcune figure sono prese dal rapporto:
Performance of European Partnerships. Biennial
Monitoring Report 2022 On Partnerships In Horizon
Europe <https://ec.europa.eu/assets/rtd/bmr/2022/>*

SONO UNA NOVITÀ?

- Le partnerships **non sono una novità** di Horizon Europe.
- Le prime sono state introdotte nel 2002 come parte della European Research Area per evitare la frammentazione degli sforzi di ricerca tra enti e paesi.
- La maggior parte dei partenariati si basa su iniziative di lunga data esistenti nell'ambito di Horizon 2020, Settimo programma quadro, e sul lavoro di una o più piattaforme tecnologiche europee.
- La novità in HE è la **razionalizzazione del panorama** del partenariato europeo per migliorarne **l'apertura e la trasparenza** e collegarli alle future priorità politiche dell'UE e alle missioni.
- Con questo nuovo approccio, si vuol porre l'attenzione nel garantire un più forte **impatto** delle stesse e coinvolgere una gamma più ampia di parti interessate in tutta l'UE.



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

Basati su protocolli d'intesa / accordi contrattuali; attuati in modo indipendente dai partner e dalla Commissione via Horizon Europe

CO-FUNDED

Basati su un programma congiunto concordato dai partner; impegno dei partner con contributi finanziari e in natura e contributo finanziario da Horizon Europe

INSTITUTIONALISED

Based on long-term dimension
Basati su una visione a lungo termine e sulla necessità di un'elevata integrazione; partenariati basati su Art.185 /187 del TFUE e sul regolamento EIT



49

European
Partnerships under
the 1st Strategic Plan

€31.4bn

estimated total
commitment from
partners other than
the Union

37.9%

of Horizon Europe
Pillar II budget

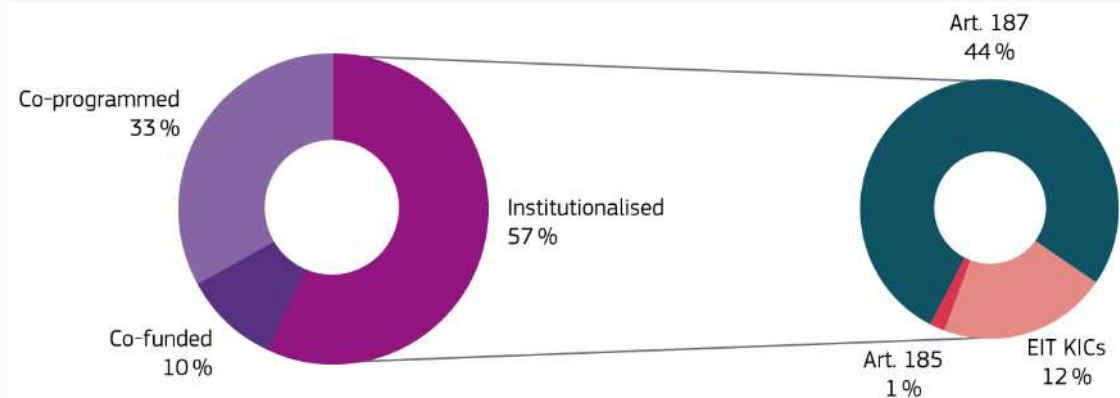
25 %

of total Horizon
Europe budget

€23.9bn

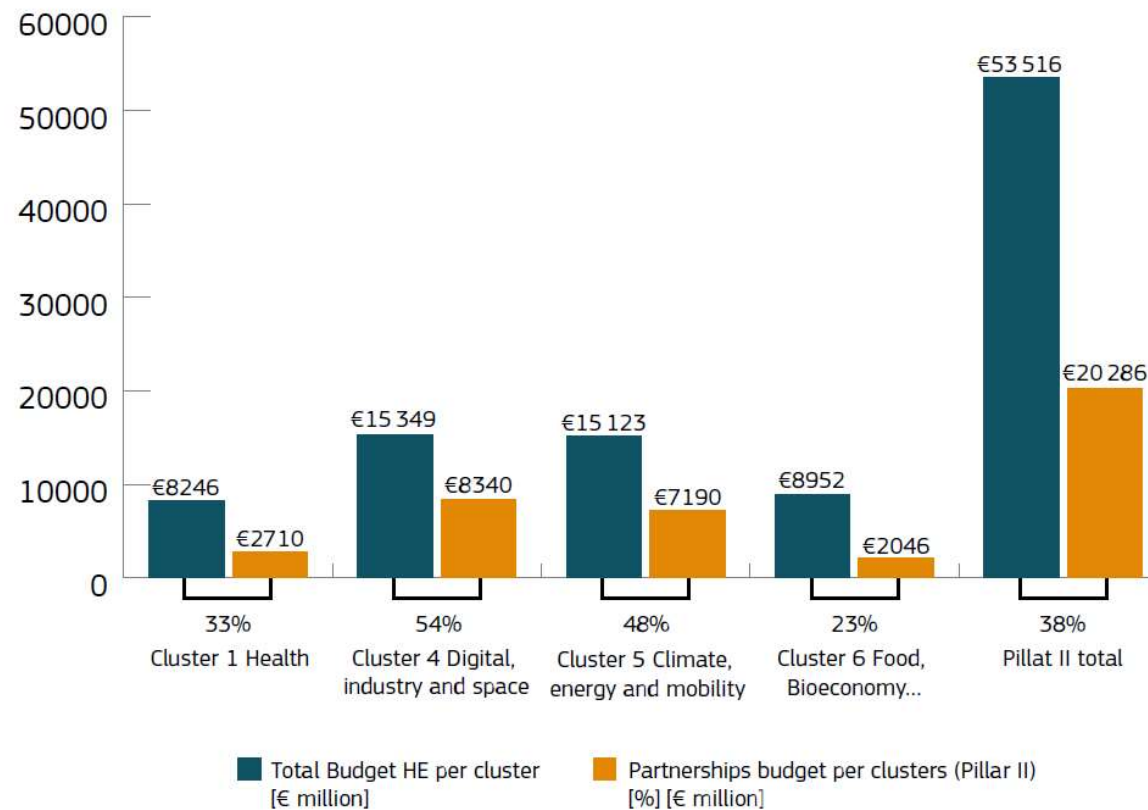
estimated
commitment from
Horizon Europe

Horizon Europe budget split per type of partnership



Source: European Commission

FIGURE 3. European Partnerships' budgets in Horizon Europe cluster budgets





Overview of 49 European Partnerships

HORIZON EUROPE PILLAR II - Global challenges & European industrial competitiveness

CLUSTER 1: Health	CLUSTER 4: Digital, Industry & Space	CLUSTER 5: Climate, Energy & Mobility	CLUSTER 6: Food, Bioeconomy, Agriculture, ...
Innovative Health Initiative	Key Digital Technologies	Clean Hydrogen	Circular Bio-based Europe
Global Health Partnership	Smart Networks & Services	Clean Aviation	Rescuing Biodiversity to Safeguard Life on Earth
Transformation of health systems	High Performance Computing	Single European Sky ATM Research 3	Climate Neutral, Sustainable & Productive Blue Economy
Chemicals risk assessment	European Metrology (Art. 185)	Europe's Rail	Water4All
ERA for Health	AI-Data-Robotics	Connected and Automated Mobility (CCAM)	Animal Health & Welfare*
Rare diseases*	Photonics	Batteries	Accelerating Farming Systems Transitions*
One-Health Anti Microbial Resistance*	Made in Europe	Zero-emission waterborne transport	Agriculture of Data*
Personalised Medicine*	Clean steel – low-carbon steelmaking	Zero-emission road transport	Safe & Sustainable Food System*
Pandemic Preparedness* <i>Co-funded or co-programmed</i>	Processes4Planet	Built4People	
	Global competitive space systems**	Clean Energy Transition	
		Driving Urban Transitions	

- 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



PILLAR III - Innovative Europe

EIT (KNOWLEDGE & INNOVATION COMMUNITIES)	SUPPORT TO INNOVATION ECOSYSTEMS
InnoEnergy	Innovative SMEs
Climate	
Digital	
Food	
Health	
Raw Materials	
Manufacturing	
Urban Mobility	
Cultural and Creative Industries	

CROSS-PILLARS II & III

European Open Science Cloud





**PARTNERSHIP
CO- PROGRAMMED**



Overview of 49 candidate European Partnerships

HORIZON EUROPE PILLAR II - Global challenges & European industrial competitiveness

CLUSTER 1: Health	CLUSTER 4: Digital, Industry & Space	CLUSTER 5: Climate, Energy & Mobility	CLUSTER 6: Food, Bioeconomy, Agriculture, ...
Innovative Health Initiative	Key Digital Technologies	Clean Hydrogen	Circular Bio-based Europe
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Rare diseases*	Photonics	Batteries	Accelerating Farming Systems Transitions*
One-Health Anti Microbial Resistance*	Made in Europe	Zero-emission waterborne transport	Agriculture of Data*
Personalised Medicine*	Clean steel – low-carbon steelmaking	Zero-emission road transport	Safe & Sustainable Food System*
Pandemic Preparedness* <i>Co-funded or co-programmed</i>	Processes4Planet	Built4People	
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PILLAR III - Innovative Europe

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InnoEnergy	Innovative SMEs
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Food	
Health	
Raw Materials	
Manufacturing	
Urban Mobility	
Cultural and Creative Industries	

CROSS-PILLARS II & III

European Open Science Cloud

-  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



Partenariati Europei CO-PROGRAMMATI

- **Azioni simili in H2020:** Partenariati Pubblico-Privato Contrattuali (cPPP)
- **Forma legale:** Accordo contrattuale / MoU (firmato tra i rappresentanti dei partner e la Commissione)
- **Implementazione:**
 - Il contributo dell'Unione è attuato attraverso il programma di lavoro di Horizon Europe
 - I partner attuano i loro impegni e contribuiscono in modo indipendente
- **Le attività e i contributi devono essere concordati nel piano di lavoro annuale** (per assicurarsi che rientrino nell'ambito del partenariato)
 - Commissione europea: call topics per implementare le varie azioni (R&I, Innovation actions, CSA, prizes)
 - Partners: le proprie attività e i propri investimenti
- **Le attività di back-office** realizzate dalle associazioni hanno un ruolo di supporto importante



Dati non ufficiali

Title and type of partnership	Private commitments (€ million)	Total MS/AC commitments (€ million)	Horizon Europe commitments (€ million)	Estimated total per partnership (€ million)
Co-programmed European Partnerships**				
European Open Science Cloud (EOSC)	N.A	3.650 €	490 €	4.140 €
Photonics Europe	- €	N.A	340 €	340 €
AI, data, robotics	- €	N.A	1.300 €	1.300 €
Clean Steel - Low Carbon Steelmaking	- €	N.A	350 €	350 €
Made in Europe	- €	N.A	900 €	900 €
Process 4 Planet	- €	N.A	1.530 €	1.530 €
Global Competitive Space Systems ² (2022)	- €	N.A	500 €	500 €
People-centric Sustainable Built Environment (Built4People)	- €	N.A	380 €	380 €
Zero-emission Waterborne Transport	- €	N.A	530 €	530 €
Towards zero-emission road transport (2ZERO)	- €	N.A	615 €	615 €
Mobility and Safety for Automated Road Transport	- €	N.A	500 €	500 €
Batteries: towards a competitive European industrial battery value chain	- €	N.A	925 €	925 €

Co-programmed MOU – 14.06.2021

CL4

- European Open Science Cloud (EOSC);
- Artificial Intelligence, Data and Robotics; Photonics;
- Clean Steel – Low Carbon Steelmaking;
- Made in Europe;
- Processes4Planet;
- People-centric Sustainable Built Environment (Built4People);
- Zero-emission Road Transport (2Zero);
- Connected, Cooperative and Automated Mobility;
- Batteries: Towards a competitive European industrial battery value chain;
- Zero Emission Waterborne Transport.

CL5



European Commission - Press release



Commission and industry invest €22 billion in new European Partnerships to deliver solutions to major societal challenges

Brussels, 14 June 2021

Today, the Commission launched 11 new European Partnerships together with industry, to boost investments in research and innovation and to overcome major climate and sustainability challenges, towards making Europe the first climate neutral economy and delivering on the [European Green Deal](#). In line with the goals of the 'twin' green and digital transition, the Partnerships will also deliver on the EU's digital ambitions for the next decade, [Europe's Digital Decade](#). They will receive over €8 billion from [Horizon Europe](#), the new EU research and innovation programme for 2021-2027. The total commitments, including those from private partners and from Member States, amount to around €22 billion.

This critical mass of funding allows the Partnerships to pursue innovative solutions on a large scale, for example to tackle emissions from energy-intensive industries and hard-to-decarbonise sectors, such as shipping and steel-making, as well as to develop and deploy high-performance batteries, sustainable fuels, artificial intelligence tools, data technologies, robotics, and more. Pooling in efforts, resources and investments jointly and on a large scale under the Partnerships will also generate long-term positive impacts, boost European competitiveness and technological sovereignty and create jobs and growth.

The eleven European Partnerships are:

1. **European Partnership for the European Open Science Cloud.** It aims to deploy and consolidate by 2030 an open, trusted virtual environment to enable the estimated 2 million European researchers to store, share and reuse research data across borders and disciplines.
2. **European Partnership for Artificial Intelligence, Data and Robotics.** To deliver the greatest benefit to Europe from Artificial Intelligence (AI), data and robotics, this Partnership will drive innovation, acceptance and uptake of these technologies, for the benefit of citizens and businesses.
3. **European Partnership for Photonics (light-based technologies).** It aims to speed up photonic innovations, securing Europe's technological sovereignty, raising the competitiveness of Europe's economy and promoting long-term job creation and prosperity.
4. **European Partnership for Clean Steel – Low Carbon Steelmaking.** It supports EU leadership in transforming the steel industry into a carbon-neutral one, serving as a catalyst for other strategic sectors.
5. **European Partnership Made in Europe.** It will be the driving force for European leadership in sustainable manufacturing in Europe, by applying the principles of the circular economy (zero-waste and others), digital transformation and climate neutral manufacturing.
6. **European Partnership Processes4Planet.** Its vision is that European process industries are globally leading on the 2050 climate neutrality goal with a strong focus on low-carbon technologies, circularities, such as circularity hubs and competitiveness.
7. **European Partnership for People-centric Sustainable Built Environment (Built4People).** Its vision is high-quality, low-carbon, energy and resource-efficient built environments, like buildings, infrastructure, and more, which drive the transition towards sustainability.
8. **European Partnership towards Zero-emission Road Transport (2Zero).** It aims to accelerate the development of zero-emission transport with a systems approach, supporting a climate neutral and clean road transport system.
9. **European Partnership for Connected, Cooperative and Automated Mobility.** Its goal is to accelerate the implementation of innovative, connected, cooperative and automated mobility technologies and services.



Co-programmed

CLUSTER 4

MADE IN EUROPE

Process4Planet

Clean Steel

Horizon Europe - Work Programme 2023-2024 Digital, Industry and Space

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Co- programmed

CLUSTER 5

People-centric
Sustainable Built
Environment
(Built4People);

Zero-emission
Road Transport

Climate, Energy and Mobility

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Zero Emission
Waterborne
Transport

PUNTI DI ATTENZIONE

- ❏ SRIA → visione strategica a 7 anni
- ❏ WP Cluster 4-5 → Opportunità di finanziamento
- ❏ Regole extra → co-finanziamento al 60% nelle IA per i soggetti profit (check condizione specifiche di eleggibilità nei bandi)

The rules are described in General Annex G. The following exceptions apply: The funding rate is 60% of the eligible costs, except for non-profit legal entities where the funding rate is up to 100% of the total eligible costs.

HORIZON-CL5-2024-D4-02-03: BIM-based processes and digital twins for facilitating and optimising circular energy renovation (Built4People Partnership)

Specific conditions	
<i>Expected EU contribution per project</i>	The Commission estimates that an EU contribution of around EUR 4.00 million would allow these outcomes to be addressed appropriately. Nonetheless, this does not preclude submission and selection of a proposal requesting different amounts.
<i>Indicative budget</i>	The total indicative budget for the topic is EUR 8.00 million.
<i>Type of Action</i>	Innovation Actions
<i>Eligibility conditions</i>	The conditions are described in General Annex B. The following exceptions apply: If projects use satellite-based earth observation, positioning, navigation and/or related timing data and services, beneficiaries must make use of Copernicus and/or Galileo/EGNOS (other data and services may additionally be used).
<i>Technology Readiness Level</i>	Activities are expected to achieve TRL 6-8 by the end of the project – see General Annex B.
<i>Legal and financial set-up of the Grant Agreements</i>	The rules are described in General Annex G. The following exceptions apply: The funding rate is 60% of the eligible costs, except for non-profit legal entities where the funding rate is up to 100% of the total eligible costs.
	Eligible costs will take the form of a lump sum as defined in the Decision of 7 July 2021 authorising the use of lump sum contributions under the Horizon Europe Programme – the Framework Programme for Research and Innovation (2021-2027) – and in actions under the Research and Training Programme of the European Atomic Energy Community (2021-2025). ²³³ .



**PARTNERSHIP
CO- FUNDED**

Partenariati Europei CO-FINANZIATI

- **Azioni simili in H2020:** : European Joint Programme and ERA-NET Cofund
- **Forma legale:** Grant Agreement (programme co-fund action) firmato tra il consorzio beneficiario e la Commissione (gestito da un'Agenzia Esecutiva)
- **Implementazione:** Gli SM/SA elaborano un programma comune da attuare sotto la loro responsabilità. Esso riunisce i finanziamenti/risorse nazionali con il cofinanziamento dell'Unione.
- Tasso di finanziamento al 30% (fino al 50% in casi specifici)
- Calls ed evaluazioni sono organizzate al livello centrale, mentre i beneficiari dei progetti selezionati vengono finanziati al livello nazionale (sulla base di regole selezionate dai partners)
- **E importante definire ex-ante:**
 - Tipo di partner necessario per formare il partenariato (consorzio)
 - Le parti interessate che definiscono le priorità → **ruolo dei ministeri!**
 - Stakeholder e gruppi mirati dalle attività del partenariato



Overview of 49 European Partnerships

HORIZON EUROPE PILLAR II - Global challenges & European industrial competitiveness

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Rare diseases*	Photonics	Batteries	Accelerating Farming Systems Transitions*
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Personalised Medicine*	Clean steel – low-carbon steelmaking	Zero-emission road transport	Safe & Sustainable Food System*
Pandemic Preparedness* <i>Co-funded or co-programmed</i>	Processes4Planet	Built4People	
	Global competitive space systems**	Clean Energy Transition	
		Driving Urban Transitions	

- 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



Partnership co-funded che hanno iniziato a lanciare bandi

Partnership co-funded in avvio nel biennio 2023 - 2024



European Commission

Modalità uso co-finanziamento europeo

- La Commissione finanzia ciascuna partnership con un importo pari al 30% del totale investito (SM + Commissione). Nelle partnership che svolgono attività di ricerca internamente, il co-finanziamento è pari al 50%.
- La partnership decide come distribuire quei fondi fra le tre seguenti attività:
 - Co-finanziamento di bandi transnazionali per progetti di ricerca e sviluppo
 - Co-finanziamento di attività aggiuntive previste dal programma di lavoro (facilitare il dialogo tra scienza, politica, affari e società, diffondere i risultati, istituire knowledge hubs, facilitare il capacity building, monitorare lo svolgimento dei progetti e il raggiungimento degli obiettivi previsti, progetti di ricerca interni, ...)
 - Co-finanziamento delle attività di management della partnership
- Tutte le attività sono sostenute dagli Stati partecipanti con risorse finanziarie o in kind, parzialmente rimborsate dalla Commissione europea

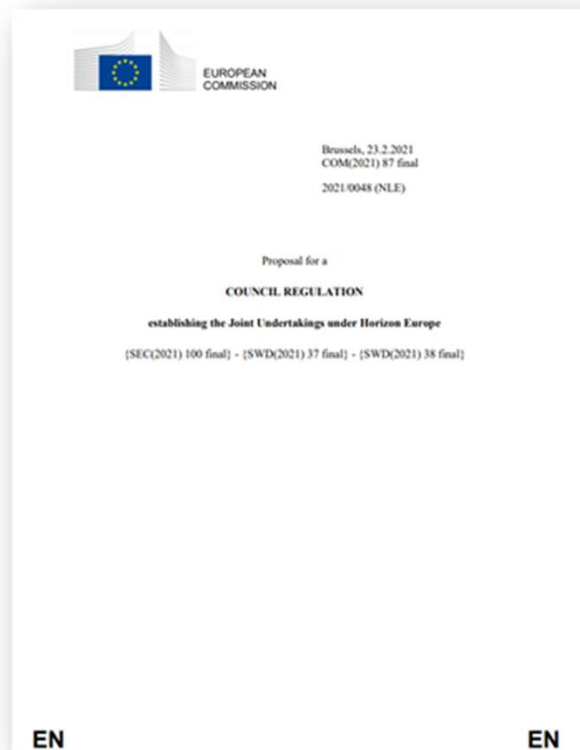


PARTNERSHIP INSTITUTIONALISED

Partenariati Europei ISTITUZIONALIZZATI

- **Base legale:** Articolo 185 e Articolo 187 del TFEU
 - Richiedono la preparazione e l'adozione di una proposta legale della Commissione (incl. ex-ante impact assessment)
 - Una Decisione del Parlamento Europeo e del Consiglio (Art 185) / Regolamento del Consiglio (Art 187, EIT)
- **L'implementazione di questi partenariati è assegnata ad organi dell'Unione creati ad hoc** (Joint Undertakings, EIT KIC)
- Applicano le regole per la partecipazione di Horizon Europe
- Horizon Europe stabilisce requisiti elevati per questo tipo di partenariato, ad es:
 - *Attuati soltanto nel caso in cui le altre forme di partenariato non conseguirebbero gli obiettivi o non genererebbero gli impatti necessari previsti e se giustificato da una prospettiva a lungo termine e da un grado elevato di integrazione*
 - Gestione centralizzata dei contributi finanziari (salvo in casi debitamente giustificati)
 - Art. 185: Partecipazione obbligatoria di almeno 40% dei Stati Membri e Associati
 - Impone un contributo finanziario dai partners dell'Unione

Istituzionalizzati: Com 2021/87



Detailed explanation of the specific provisions of the proposal The institutionalised European partnerships are designed to increase coherence and to maximise impact in an evolving research and innovation landscape.

The proposed Council Regulation consists of three parts:

- **Part One** contains **provisions common to all joint undertakings** with the aim to streamline and harmonise the legal boundary conditions and provide a modular approach on which individual joint undertakings can base their operational architecture.
- **Part Two** contains **provisions that are specific to individual joint undertakings** that allow for the necessary flexibility to take into account operational and policy needs.
- **Part Three** contains **final provisions applicable to all joint undertakings**.






Dati non ufficiali

Title and type of partnership	Private commitments (€ million)	Total MS/AC commitments (€ million)	Horizon Europe commitments (€ million)	Estimated total per partnership (€ million)
Institutionalised European Partnerships based on Articles 185 and 187 TFEU*				
Global Health EDCTP3	- €	455 €	800 €	1.255 €
Innovative Health Initiative (IHI)	1.500 €	N.A	1.200 €	2.700 €
Europe's Rail	880 €	N.A	600 €	1.480 €
Single European Sky ATM Research 3 (SESAR 3)	1.085 €	N.A	600 €	1.685 €
Clean Aviation	3.000 €	N.A	1.700 €	4.700 €
Clean Hydrogen	1.000 €	N.A	1.000 €	2.000 €
Circular bio-based Europe	1.000 €	N.A	1.000 €	2.000 €
Smart Networks and Services	1.000 €	N.A	900 €	1.900 €
Key Digital Technologies (KDT)	3.517 €	1.152 €	1.800 €	6.469 €
EuroHPC	- €	1.448 €	900 €	2.348 €
Metrology	N.A	364 €	300 €	664 €



Overview of 49 European Partnerships

HORIZON EUROPE PILLAR II - Global challenges & European industrial competitiveness

CLUSTER 1: Health	CLUSTER 4: Digital, Industry & Space	CLUSTER 5: Climate, Energy & Mobility	CLUSTER 6: Food, Bioeconomy, Agriculture, ...
 Innovative Health Initiative	 Key Digital Technologies	Clean Hydrogen	Circular Bio-based Europe
Global Health Partnership	Smart Networks & Services	Clean Aviation	Rescuing Biodiversity to Safeguard Life on Earth
Transformation of health systems	High Performance Computing	Single European Sky ATM Research 3	Climate Neutral, Sustainable & Productive Blue Economy
Chemicals risk assessment	European Metrology (Art. 185)	Europe's Rail	Water4All
ERA for Health	 AI-Data-Robotics	Connected and Automated Mobility (CCAM)	Animal Health & Welfare*
Rare diseases*	Photonics	Batteries	Accelerating Farming Systems Transitions*
One-Health Anti Microbial Resistance*	Made in Europe	Zero-emission waterborne transport	Agriculture of Data*
Personalised Medicine*	Clean steel – low-carbon steelmaking	Zero-emission road transport	Safe & Sustainable Food System*
Pandemic Preparedness* <i>Co-funded or co-programmed</i>	Processes4Planet	Built4People	
	Global competitive space systems**	Clean Energy Transition	
		Driving Urban Transitions	

-  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



Partnership istituzionalizzate che hanno iniziato a lanciare bandi



Partnership istituzionalizzate tripartite



European Commission

Modalità uso co-finanziamento europeo (tripartite)

- Viene creata una Impresa comune che gestisce la partnership e i bandi;
- Le spese di management sono coperte dalla Commissione e dai partecipanti privati;
- Il finanziamento dei progetti vincitori dei bandi può avvenire in due modi (a scelta da parte dell'Ente finanziatore nazionale)
 - Gestione centralizzata: lo Stato membro trasferisce i propri fondi all'Impresa comune che contrattualizza i progetti, ne segue l'implementazione e finanzia i beneficiari con i fondi propri e con quelli dell'Ente finanziatore nazionale.
 - Gestione separata: l'Impresa comune e l'Ente finanziatore nazionale contrattualizzano separatamente i beneficiari e gestiscono separatamente le erogazioni dei propri contributi

PUNTI DI ATTENZIONE

- ❏ SRIA → Visione a 7 anni
- ❏ Regole di finanziamento/specificità che differenziano questi programmi da HE, specialmente per la compagine industriale
 - Specificità per singola partnership
- ❏ Coinvolgimento dell'industria (e in alcuni casi dei Ministeri - Partnership tripartite)

Co - programmed

- Divisione del lavoro

Co- Funded

- Programma integrato con attuazione distribuita

Institutionalised

- Programma integrato con implementazione centralizzata

COME ESSERE PARTE ATTIVA DELLE EP?

La partecipazione ai partenariati è possibile:

- ✚ aderendo come partner → *controparte EC*
- ✚ candidandosi agli inviti aperti pubblicati nell'ambito dei partenariati
→ *membro del consorzio come partner o coordinatore*
- ✚ partecipando ad attività di consultazione e consulenza dei
partenariati → *membro dell'associazione/JU di interesse*

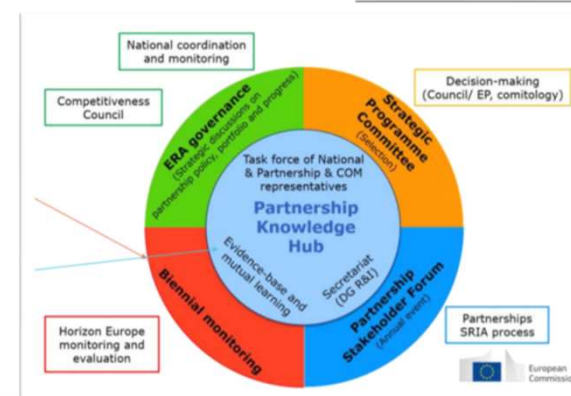
MONITORING REPORT AND EXPERT GROUP

Strategic coordination process

Un processo di coordinamento strategico, a cui Stati membri e Commissione partecipano in condizioni di parità, che funziona come punto di accesso per l'analisi di previsioni, lo studio e la consulenza sullo sviluppo del portafoglio, sull'eventuale configurazione, attuazione, sorveglianza e graduale eliminazione dei partenariati

Expert Group on support for the Strategic Coordinating Process for partnerships

Chair: Maria Chiara Carrozza, presidente CNR



Elementi aggiuntivi:

- Coherence and coordination among European Partnerships
- Synergies with Cohesion funds
- International cooperation
- https://ec.europa.eu/info/files/coherence-and-synergies-candidate-european-partnerships-under-horizon-europe_en

Link utili

- 🔗 [European Partnership in Horizon Europe](#) – Commissione europea
- 🔗 [FAQ](#) - Frequently asked questions su European Partnership
- 🔗 [Era learn](#) (focus co-funded partnership): Contiene una grande varietà di informazioni dettagliate sulla gestione finanziaria delle partnership europee, linee guida sullo sviluppo di SRIA, ecc.



VERSO LE PARTNERSHIP 2025-27

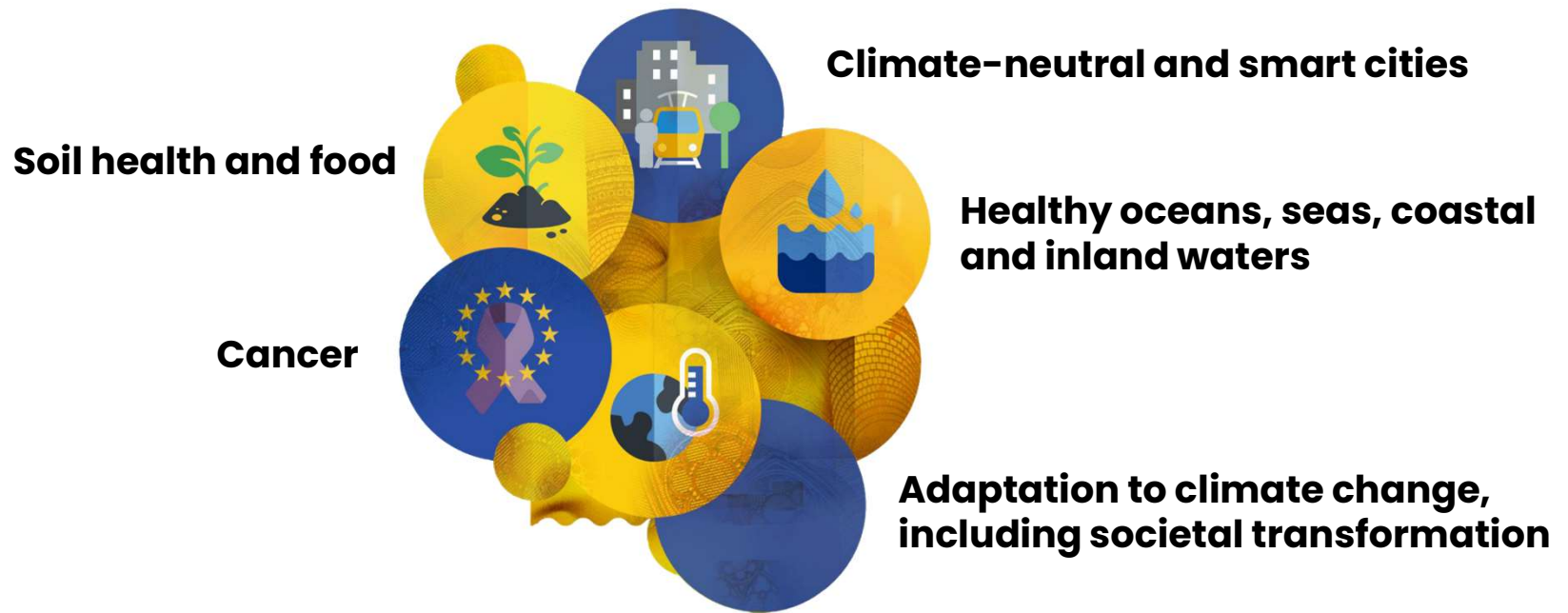
Le proposte della Commissione per i nuovi partenariati co-programmati e co-finanziati – Alla scorsa riunione del Comitato di programma la Commissione ha presentato anche la lista dei possibili nuovi partenariati co-programmati e co-finanziati da avviare nell'ultimo triennio di Horizon Europe. La lista presentata contiene al momento **11 proposte** (salute mentale, giovani ricercatori, foreste, materiali, spazio, metaverso, materie prime critiche, patrimonio culturale, trasformazioni sociali, solare e tessile) da cui dovrebbero venir fuori i **sei partenariati della "seconda ondata" dell'attuale programma da includere nel Piano strategico 2025-27**, in aggiunta alle 49 partnership già attivate dal Piano strategico corrente. La definizione dei futuri partenariati delineata nel Comitato di Programma verrà sottoposta al *Partnership Knowledge Hub* – la piattaforma di coordinamento tra la Commissione, i Paesi membri e i rappresentanti dei partenariati attualmente attivi – che dovrà formulare un'opinione rispetto alle proposte dalla Commissione. L'esecutivo Ue punta a presentare una proposta di portafoglio dei nuovi partenariati nel mese di luglio e poter così avviare una consultazione strutturata con gli Stati Membri, al termine della quale validare la lista dei partenariati (a fine anno) e includerla nel futuro Piano strategico.





EU MISSIONS

MISSIONI



- Le Mission includono un portafoglio di azioni - progetti di ricerca, misure di policy o iniziative legislative - dirette a raggiungere, entro un arco di tempo prestabilito, un obiettivo audace, misurabile e rilevante per la società



Le Missioni in Horizon Europe

Missioni di R&I

Impatto = maggiore efficacia degli investimenti in R&S nel medio-lungo termine
Visibilità = migliore correlazione tra la R&I europea, la società e le esigenze dei cittadini

Una missione è un portafoglio di azioni **interdisciplinari** volte a conseguire entro un **periodo prestabilito** un **obiettivo audace, stimolante** e misurabile, che abbiano un **impatto sulla società** e sull'elaborazione delle politiche e siano rilevanti per una parte significativa della **popolazione** europea e un ampio spettro di cittadini europei.

Horizon Europe definisce le caratteristiche della missione e gli elementi di *governance*.
Le missioni specifiche saranno **programmate nell'ambito del pilastro II** "Sfide globali e competitività industriale europea" (attingendo ai contributi di altri pilastri)



5 EU Missions

What a EU mission is NOT

Missions are an entirely new approach based on **portfolios of actions** working towards broadly defined goals, not be confused with existing methods and instruments.

Missions are not the same as:

- ❑ **R&I Programmes**
- ❑ **R&I Partnerships**
- ❑ **Focus Areas** from Horizon 2020
- ❑ Single projects or topics
- ❑ Horizon Europe **Clusters**

Implementing Missions

Missions may involve:

- Launch **specific calls** in Horizon Europe and other programmes
- Identify specific actions to change/ improve **policy context** critical for missions success
- Make use of the appropriate **partnerships**
- Mobilise **structural funds**
- Establish the appropriate **links with national programmes**
- Combine efforts with **third country**

There is no fixed budget for each mission. Article 7 of the draft HE Regulation stipulates that during the first three years of the programme, a **maximum of 10%** of the **annual budget of Pillar II** shall be programmed through specific calls for implementing the missions.

Adaptation to Climate Change: support at least 150 European regions and communities to become climate resilient by 2030.

The importance of climate adaptation

Climate adaptation is the process of adjustment to actual or expected climate and its effects. The mission will support this process by connecting citizens with science and public policy.

Why this mission area was chosen

A mission in this area will help maximise the impact of the EU's support to research and innovation and demonstrate its relevance for society and citizens.

Its focus will be on solutions and preparedness for the impact of climate change to protect lives and assets. It will include behavioural changes and social aspects by addressing new communities beyond usual stakeholders, which help lead to a societal transformation.



Restore our Ocean and Waters by 2030

Man-made, climate-driven changes are putting our ocean and waters and consequently our societies at a serious risk.

The mission's new, systemic approach will address the ocean and waters as one and play a key role in achieving climate neutrality and restoring nature.

The mission will help achieve the EU objectives of protecting **30% of the EU's sea area** as well as **restoring marine eco-systems** and 25.000 km of **free flowing rivers**, prevent and eliminate pollution by **reducing plastic litter at sea**, nutrient losses and use of chemical pesticides by 50% and make the blue economy climate-neutral and circular with net-zero maritime emissions.



100 Climate-Neutral and Smart Cities by 2030

Cities play a pivotal role in achieving **climate neutrality by 2050**, the goal of the European Green Deal. They take up only 4% of the EU's land area, but they are **home to 75% of EU citizens**. Furthermore, cities consume over 65% of the world's energy and account for more than 70% of global CO2 emissions.

European cities can substantially contribute to the Green Deal target of reducing emissions by 55% by 2030.

Aims of the mission

The Cities Mission will involve local authorities, citizens, businesses, investors as well as regional and national authorities to

- 1 Deliver 100 climate-neutral and smart cities by 2030**
- 2. Ensure that these cities act as experimentation and innovation hubs to enable all European cities to follow suit by 2050**



A Soil Deal for Europe: 100 living labs and lighthouses to lead the transition towards healthy soils by 2030

Soils are the basis of 95% of our food and other essential ecosystem services such as clean water, biodiversity and climate regulation. However, 60-70% of soils in the EU are considered to be “unhealthy”, making us more vulnerable to food insecurity and extreme weather events.

The mission will engage with people and create effective partnerships across sectors and territories to protect and restore soils in Europe and beyond.

The mission aims at **leading the transition towards healthy soils** by

- funding an ambitious research and innovation programme with a strong social science component
- putting in place an effective network of **100 living laboratories and lighthouses** to co-create knowledge, test solutions and demonstrate their value in real-life conditions



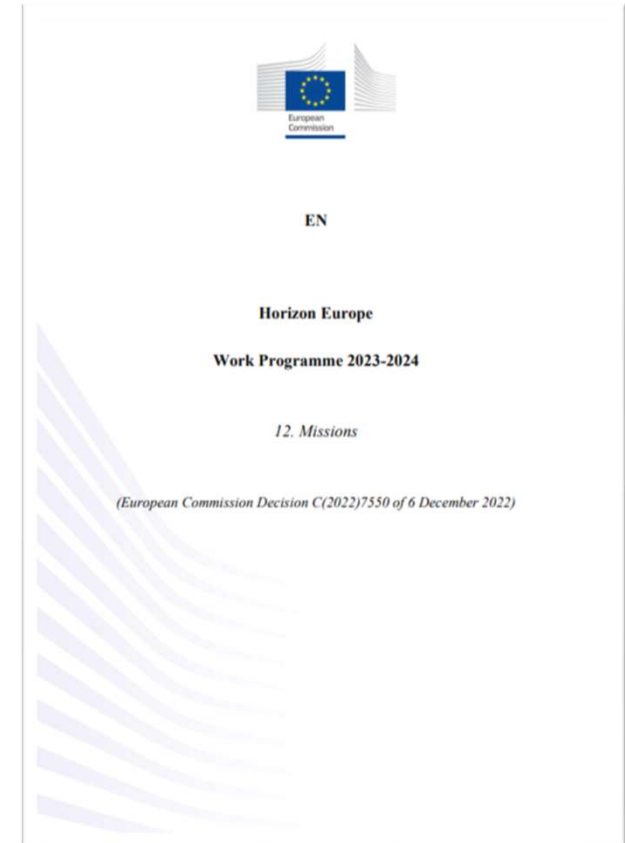
II WP 2023

Scadenze: Aprile – Settembre 2023

https://ec.europa.eu/info/funding-tenders/opportunities/docs/2021-2027/horizon/wp-call/2023-2024/wp-12-missions_horizon-2023-2024_en.pdf

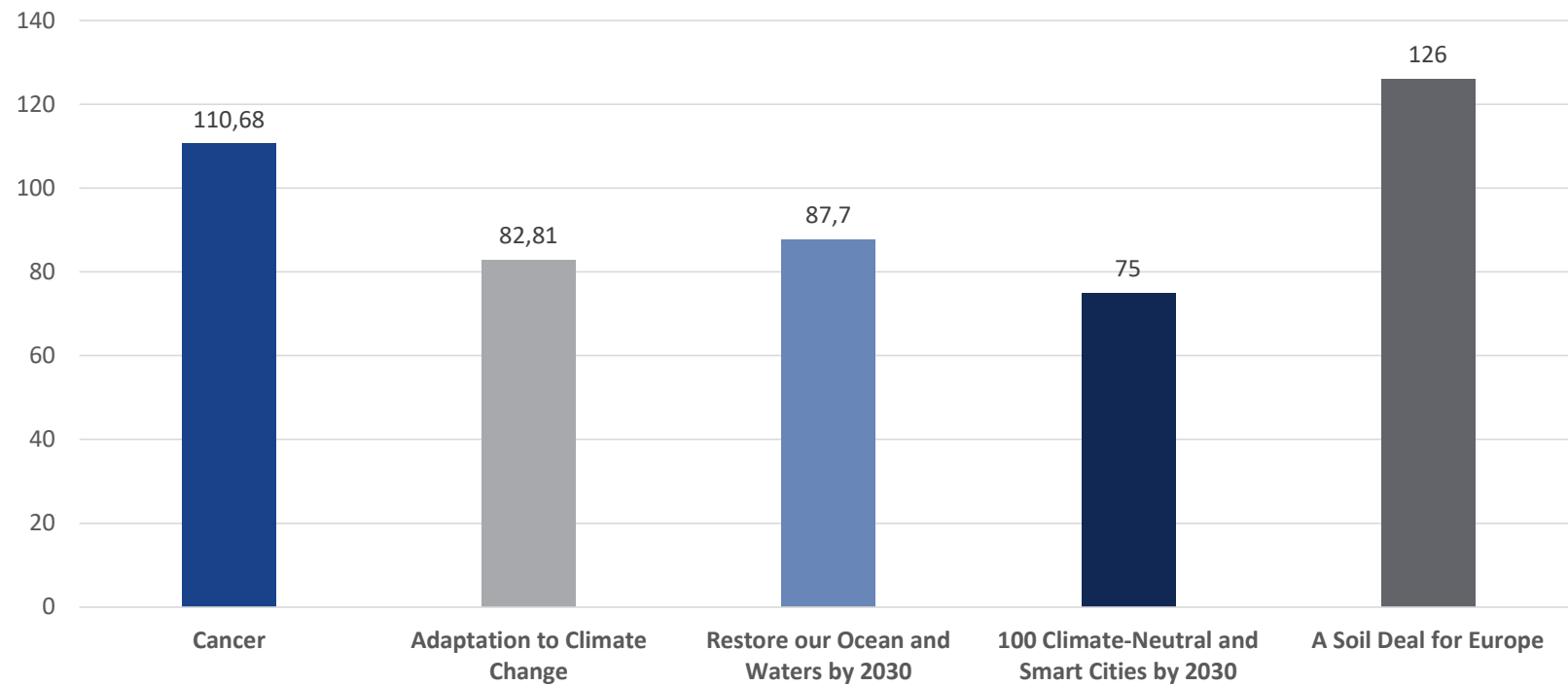
II WP 2024

- **In preparazione.** Pubblicazione inizio 2024 (provisional)
- Proposta nuova Mission su **New European Bauhaus**





5 MISSIONS – BUDGET 2023 (mln €)



20/09/2022

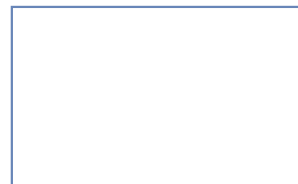
Mission assessment (settembre 2023)



https://research-and-innovation.ec.europa.eu/funding/funding-opportunities/funding-programmes-and-open-calls/horizon-europe/eu-missions-horizon-europe/eu-missions-assessment-reports-and-mission-areas-review-report_en

The assessment of EU Missions **confirms that they are timely and inspirational initiatives that provide new impetus to important EU policy priorities**, help aligning EU, national, regional and local policy efforts towards shared goals and encourage broad engagement and active participation of stakeholders.

However, EU Missions need to be **further supported in reaching their long-term goals**, including strengthening and better coordinating administrative governance, facilitating access to resources and funding, and continuing to support local and national efforts, boosting citizens' engagement, and raising public awareness of the EU Missions.



CRITERI DI PARTECIPAZIONE

Rules for participation

REGULATION (EU) 2021/695 OF THE
EUROPEAN PARLIAMENT AND OF THE
COUNCIL of 28 April 2021 establishing Horizon
Europe – the Framework Programme for
Research and Innovation, laying down its rules for
participation and dissemination (...)





THE EU RESEARCH & INNOVATION PROGRAMME **2021 - 2027**

Horizon Europe – REGOLE DI PARTECIPAZIONE

Rules for participation

Art. 22.1 – Horizon Europe Regulation

“Any legal entity, regardless of its place of establishment and including legal entities from non-associated third countries or international organisations, may participate in actions under the Programme, provided that the conditions laid down in this Regulation have been met together with any conditions laid down in the work programme or call for proposals.”



Legal status :
natural persons, legal persons,
entities without legal personality.

Rules for participation

Art. 22.2 – Horizon Europe Regulation

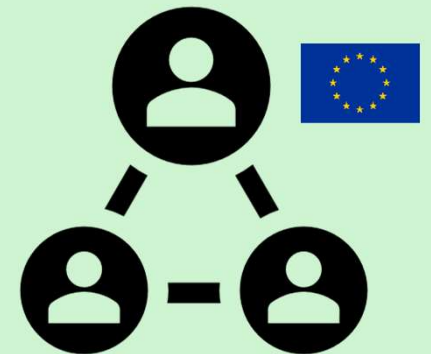
“Except in duly justified cases where the work programme otherwise provides, legal entities forming a consortium shall be eligible for participation in actions under the Programme provided that the consortium includes:

- ***(a) at least one independent legal entity established in a Member State; and***
- ***(b) at least two other independent legal entities each established in different Member States or associated countries****

** “unless: (a) the work programme provides otherwise, if duly justified...”*

Minimum conditions for
CONSORTIA:

- ***At least 3 independent entities***
- ***established in 3 different Member States or Associated Countries.***
- ***At least 1 entity established in a Member State***





THE EU RESEARCH & INNOVATION PROGRAMME **2021 - 2027**

Horizon Europe – REGOLE DI FINANZIAMENTO

Funding Rules

Legal entities eligible for funding – art. 23

- Established in a Member State or associated country -> **General rule**
- **Low to middle income non-associated third countries**
- **Other non-associated third countries**, shall be eligible for funding in an action if:
 - the third country is identified in the work programme adopted by the Commission;
 - the Commission or the relevant funding body considers that the participation of the legal entity concerned is essential for implementing the action.

FP Association as the highest level of S&T cooperation with EU

Art. 16 Third countries associated to the Programme

1. The Programme shall be open to association of the following third countries (associated countries):
 - a) **Members of the European Free Trade Association**, which are members of the EEA, in accordance with the conditions laid down in the Agreement on the European Economic Area;
 - b) **Acceding countries, candidate countries and potential candidates**, in accordance with the general principles and general terms and conditions for the participation of those countries in Union programmes established in the respective framework agreements and Association Council decisions or similar agreements and in accordance with specific conditions laid down in agreements between the Union and those countries;
 - c) **European Neighbourhood Policy countries (...)**
 - d) **Third countries and territories that fulfil all of the following criteria:**
 - i. a good capacity in science, technology and innovation;
 - ii. commitment to a rules-based open market economy, including fair and equitable dealing with intellectual property rights, of human rights, backed by democratic institutions;
 - iii. active promotion of policies to improve the economic and social well-being of citizens.





Funding Rules

Legal entities eligible for funding – art. 23

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- **Low to middle income non-associated third countries**
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 - the Commission or the relevant funding body considers that the participation of the legal entity concerned is essential for implementing the action.

Source: [List of Participating Countries in Horizon Europe](#)

ASSOCIATED COUNTRIES

1. Albania
2. Armenia
3. Bosnia and Herzegovina
4. Faroe Islands
5. Georgia
6. Iceland
7. Israel
8. Kosovo
9. Moldova
10. Montenegro
11. Morocco (Transitional arrangement)
12. New Zealand (associated to Pillar II)
13. North Macedonia
14. Norway
15. Serbia
16. Tunisia
17. Turkey
18. Ukraine
19. United Kingdom (from calls 2024)



https://research-and-innovation.ec.europa.eu/strategy/strategy-2020-2024/europe-world/international-cooperation/association-horizon-europe_en

Updates on the association of third countries to Horizon Europe

Please note that the information displayed on this page is subject to regular updates

As of 1 August 2022, [Albania](#) (EN), [Armenia](#) (EN), [Bosnia and Herzegovina](#) (EN), the [Faroe Islands](#) (EN), [Georgia](#) (EN), [Iceland](#) (EN), [Israel](#) (EN), [Kosovo](#) (EN)*, [Moldova](#) (EN), [Montenegro](#) (EN), [North Macedonia](#) (EN), [Norway](#) (EN), [Serbia](#) (EN), [Tunisia](#) (EN), [Türkiye](#) (EN) and [Ukraine](#) (EN) have applicable association agreements in place.

The United Kingdom will be associated by means of a Protocol to the Trade and Cooperation Agreement.

Association negotiations with [Morocco](#) (EN) continue. Discussions on association are progressing well with our like-minded global allies. Informal exploratory talks with [Canada](#) (EN) and [New Zealand](#) (EN) have been successfully closed. The European Commission is seeking at present negotiating directives. Once the directives are adopted by the Council, formal negotiations would commence, upon readiness of New Zealand and Canada.

Exploratory talks with [South Korea](#) (EN) and [Japan](#) (EN) are progressing.

20 December 2022

The Commission and the New Zealand Government have concluded the negotiations for the association of New Zealand to the Horizon Europe programme. The signing of the Association Agreement is expected to take place in 2023, pending the completion of all necessary validations on both sides.

30 November 2022

On 30 November 2022, formal negotiations for Canada's association to Horizon Europe have been launched.

9 June 2022

The Agreement associating Tunisia to Horizon Europe, the EU research and innovation programme (2021-2027), entered into force, following its ratification by Tunisia. The Agreement applies with a retroactive effect from 1 January 2021.

The Agreement associating Ukraine to Horizon Europe, the EU research and innovation programme (2021-2027) and to the Euratom Research and Training Programme (2021-2025) entered into force, following its ratification by Ukraine. The Agreement applies with a retroactive effect from 1 January 2021.

🚩 **Canada** | Association expected in the first quarter of 2023

🚩 **Morocco** | Negotiations ongoing

🚩 **South Korea** | Exploratory talks ongoing

🚩 **Japan** | Exploratory talks ongoing



Funding Rules

Legal entities eligible for funding – art. 23

- Established in a Member State or associated country -> **General rule**
- **Low to middle income non-associated third countries**
- **Other non-associated third countries, shall be eligible for funding in an action if:**
 - the third country is identified in the work programme adopted by the Commission;
 - the Commission or the relevant funding body considers that the participation of the legal entity concerned is essential for implementing the action.

Source: [List of Participating Countries in Horizon Europe](#)

Afghanistan, Algeria, Angola, Argentina, Azerbaijan; Bangladesh, Belarus, Belize, Benin, Bhutan, Bolivia, Botswana, Burkina Faso, Burundi; Cabo Verde, Cambodia, Cameroon, Central African Republic, Chad, Colombia, Comoros, Congo (Democratic Republic), Congo (Republic), Costa Rica, Côte d'Ivoire, Cuba ;Djibouti, Dominica, Dominican Republic ; Ecuador, Egypt (Arab Republic), El Salvador, Equatorial Guinea, Eritrea, Eswatini, Ethiopia; Fiji; Gabon, Gambia, Ghana, Grenada, Guatemala, Guinea, Guinea-Bissau, Guyana; Haiti, Honduras; Indonesia, Iran (Islamic Republic), Iraq; Jamaica, Jordan; Kazakhstan, Kenya, Kiribati, Korea (Democratic People's Republic), Kyrgyz Republic; Lao (People's Democratic Republic), Lebanon, Lesotho, Liberia, Libya; Madagascar, Malawi, Malaysia, Maldives, Mali, Marshall Islands, Mauritania, Mauritius, Micronesia (Federated States), Mongolia, Mozambique, Myanmar; Namibia, Nepal, Nicaragua, Niger, Nigeria; Pakistan, Palestine, Papua New Guinea, Panama, Paraguay, Peru, Philippines Rwanda; Samoa, São Tomé and Príncipe, Senegal, Sierra Leone, Solomon Islands, Somalia, South Africa, South Sudan, Sri Lanka, St. Lucia, St. Vincent and the Grenadines, Sudan, Suriname, Syrian Arab Republic; Tajikistan, Tanzania, Thailand, Timor-Leste, Togo, Tonga, Turkmenistan, Tuvalu; Uganda, Uzbekistan; Vanuatu, Venezuela (Bolivarian Republic), Vietnam; Yemen Republic; Zambia, Zimbabwe.

Funding Rules

Legal entities eligible for funding – art. 23

- Established in a Member State or associated country -> **General rule**
- **Low to middle income non-associated third countries**
- **Other non-associated third countries**, shall be eligible for funding in an action **if**:
 - the third country is identified in the work programme adopted by the Commission;
 - the Commission or the relevant funding body considers that the participation of the legal entity concerned is essential for implementing the action.

- outstanding **competence/expertise**
- access to particular **research infrastructures**
- access to particular **geographical environments**
- access to particular **data**

Science and technology agreements currently existing with Third Countries:

- | | |
|--------------|------------------------------|
| 1. Algeria | 11. Jordan |
| 2. Argentina | 12. Korea |
| 3. Australia | 13. Mexico |
| 4. Brazil | 14. Morocco |
| 5. Canada | 15. New Zealand |
| 6. Chile | 16. South Africa |
| 7. China | 17. Switzerland |
| 8. Egypt | 18. Tunisia |
| 9. India | 19. Ukraine |
| 10. Japan | 20. United States of America |

The EU has bilateral agreements with 20 individual countries around the world. These agreements are based on common interests and priorities, aiming to increase cooperation in research and innovation.



Complementary funding mechanisms in third countries and territories

1. Australia (AU)
2. Brazil (BR)
3. Canada (CA)
4. India (IN)
5. Japan (JP)
6. Mexico (MX)
7. The People's Republic of China
8. Principality of Monaco
9. Republic of Korea (KR)
10. Switzerland (CH)
11. Taiwan



https://ec.europa.eu/info/funding-tenders/opportunities/docs/2021-2027/horizon/guidance/complementary-funding-mechanisms-in-third-countries_he_en.pdf



Type of action

Type of Action		Funding Rate	Comment
RIA	Research & Innovation Actions	100%	Establish new knowledge and/or explore the feasibility of a new or improved technology
IA	Innovation Actions	70% (100% for public & non-profit organization)	Produce plans & arrangements or designs for new, altered or improved products, processes or services
CSA	Coordination and Support Actions	100%	Contribute to the objectives of the Horizon Europe Programme, excluding research and innovation activities

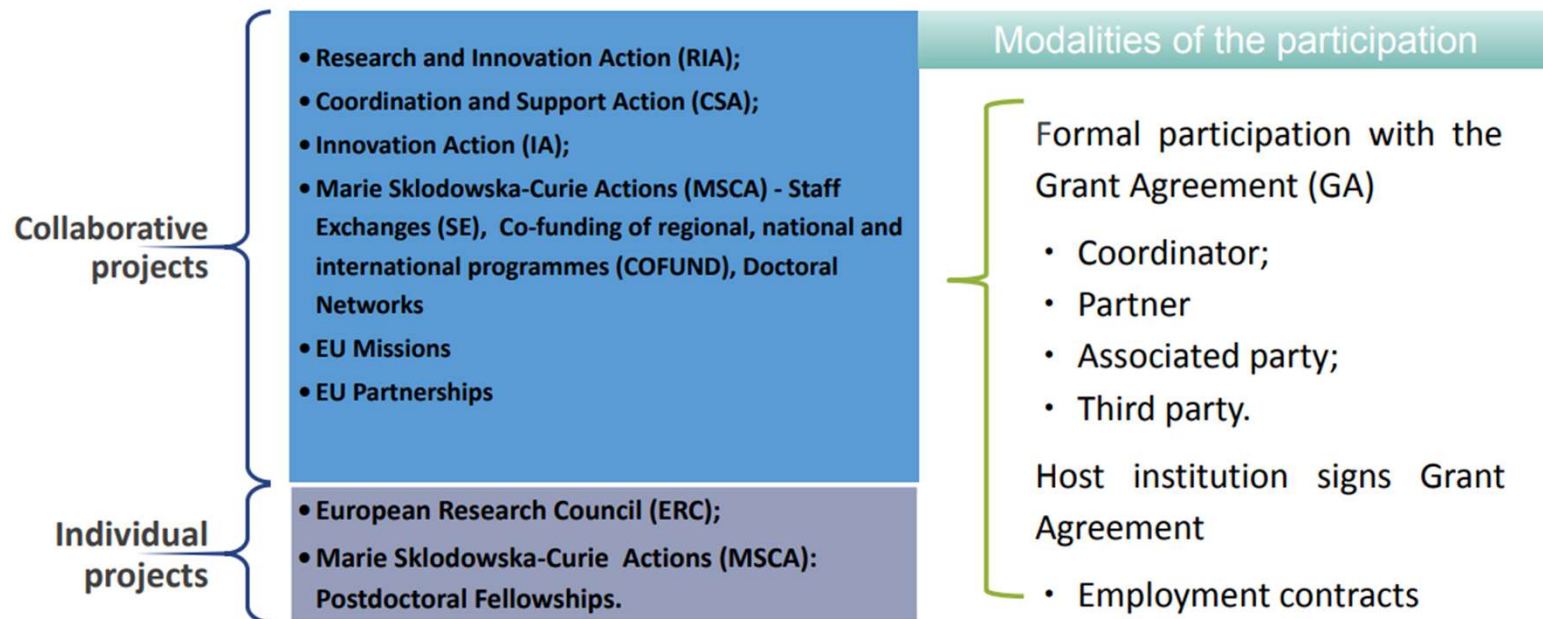


<p>Research and Innovation Actions (RIA)</p> <p>Business Plan (TRL up to 6)</p>	<p>=>What? Funding available for collaborative research projects tackling clearly defined challenges which can lead to the development of new knowledge or new technology.</p> <p>=>Who? Consortia of partners from different countries, industry and academia. Min. 3 legal entities established in 3 Member States or Associated Countries</p>
<p>Innovation Actions (IA)</p> <p>Business Plan (TRL higher than 6/ if stated in the application form)</p>	<p>=>What? Funding available for closer-to-the-market activities including prototyping, testing, demonstrating, piloting, scaling-up etc. for new or improved products, processes or services.</p> <p>=>Who? Consortia of partners from different countries, industry and academia. Min. 3 legal entities established in 3 Member States or Associated Countries</p>

**Coordination and
Support Action (CSA)**

=>What? Funding available for actions consisting primarily of accompanying measures, such as the coordination and networking of research and innovation projects, programmes and policies (e.g. training, dissemination, exploitation, standardization, policy dialogues, etc.). Funding for research and innovation per se not covered.

=>Who? Single entities or consortia of partners from different countries, industry and academia. Min. 1 legal entity established in 1 Member State or Associated Country

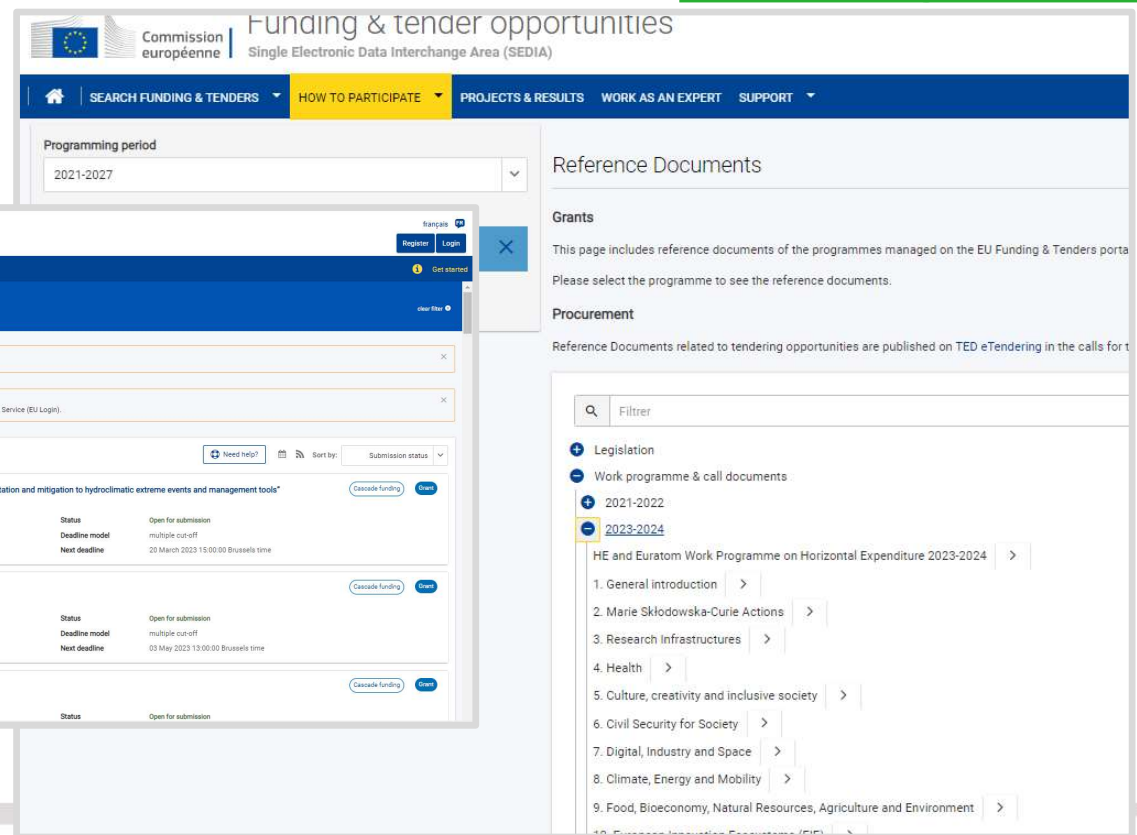




Where to find Call for Proposals

 Search Work Programmes

 Search Funding & Tenders



Commission européenne | Funding & tender opportunities
Single Electronic Data Interchange Area (SEDIA)

SEARCH FUNDING & TENDERS | HOW TO PARTICIPATE | PROJECTS & RESULTS | WORK AS AN EXPERT | SUPPORT

Programming period
2021-2027

Reference Documents

Grants
This page includes reference documents of the programmes managed on the EU Funding & Tenders portal. Please select the programme to see the reference documents.

Procurement
Reference Documents related to tendering opportunities are published on TED eTendering in the calls for tenders.

Funding and tenders (1982)

Programme	Topic	Status	Deadline model	Open for submission
Water4All 2022 Joint Transnational Call "Management of water resources: resilience, adaptation and mitigation to hydroclimatic extreme events and management tools"	HORIZON-CL4-2021-CLIMATE-01-02	Open for submission	multiple cut-off	20 March 2023 15:00:00 Brussels time
Driving Urban Transitions (DUT) Call 2022	HORIZON-CL4-2021-02-01-16	Open for submission	multiple cut-off	03 May 2023 13:00:00 Brussels time
CETPartnership Joint Call 2022	HORIZON-CL4-2021-02-01-16	Open for submission	multiple cut-off	03 May 2023 13:00:00 Brussels time

Work programme & call documents

- 2021-2022
- 2023-2024**

HE and Euratom Work Programme on Horizontal Expenditure 2023-2024

- General introduction
- Marie Skłodowska-Curie Actions
- Research Infrastructures
- Health
- Culture, creativity and inclusive society
- Civil Security for Society
- Digital, Industry and Space
- Climate, Energy and Mobility
- Food, Bioeconomy, Natural Resources, Agriculture and Environment
- European Innovation Partnerships (EIPs)

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HORIZON 2020

APRE

INTRANET



- HOME
- HE IN BREVE
- STRUTTURA E PROGRAMMI
- COME PARTECIPARE
- COME RICHIEDERE ASSISTENZA
- NCP
- BANDI APERTI
- FAQ



#HorizonEU

THE EU RESEARCH & INNOVATION
PROGRAMME
2021 - 2027

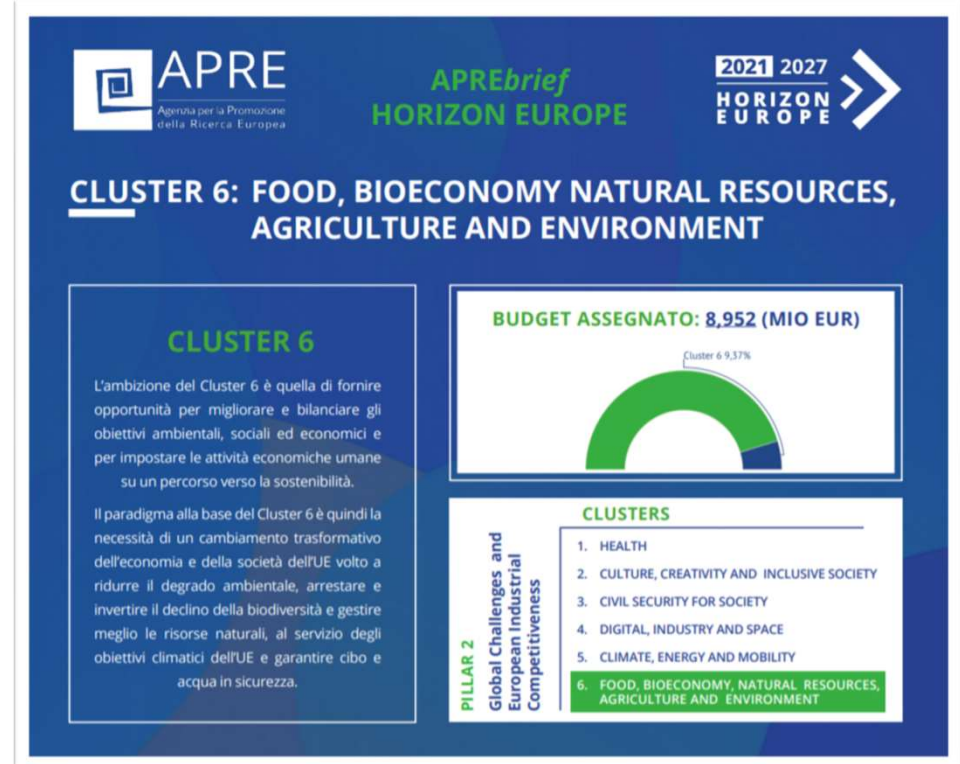


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<https://apre.it/la-settimana-horizon-europe-2024/>



<https://horizoneurope.apre.it/>



National Contact Points – NCPs

WHO WE ARE

The NCPs are support structures that have become an essential component in the implementation of the Framework Programmes.

**THE NCP KEY TASK IS TO SUPPORT APPLICANTS WHO
WISH TO PARTICIPATE IN HORIZON EUROPE**

The NCPs are nominated at national level and act in close cooperation with the EU Commission and with national partners and clients.

<https://horizoneurope.apre.it/team-tematici/>



National Contact Points – NCPs

WHAT WE OFFER

The NCPs provide information and advice to potential applicants and beneficiaries, through the project life cycle, in their own language, in a personalized manner that would be impossible for the Commission and its Agencies acting alone.

**Information
and awareness
raising**

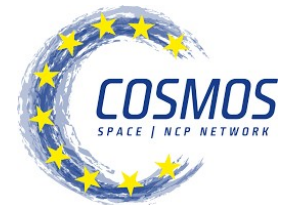
**Assisting,
advising,
training**

**Signposting
and
cooperation**



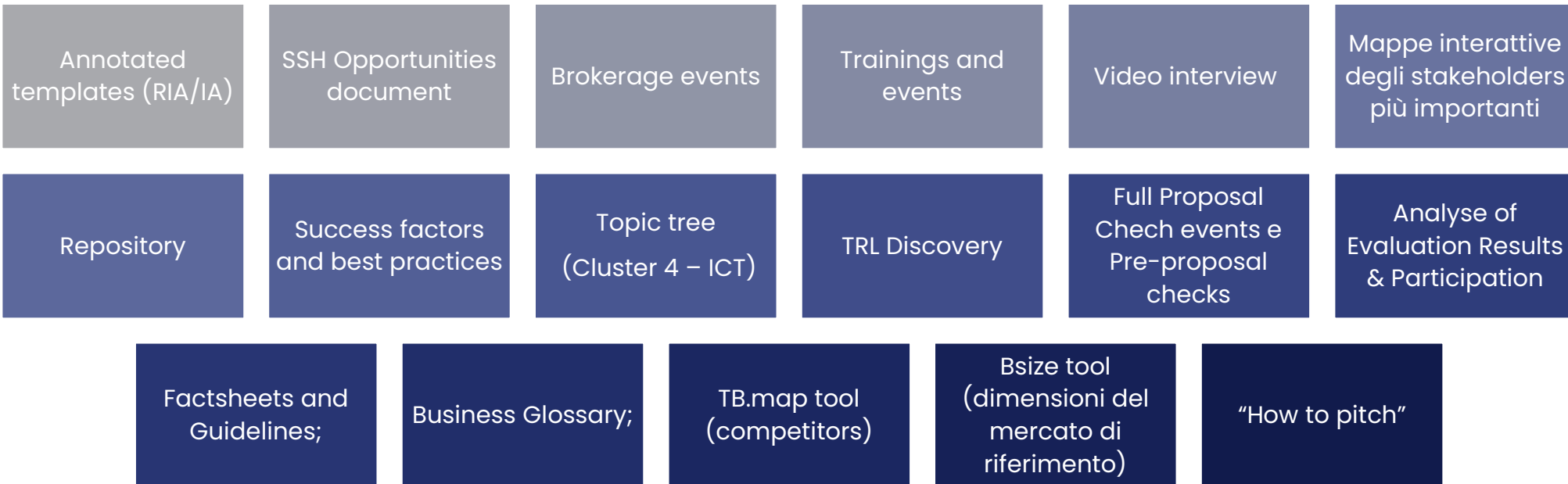
TEAM TEMATICI DI APRE A SUPPORTO DELLA COMUNITÀ ITALIANA R&I

GLI NCP e le loro RETI

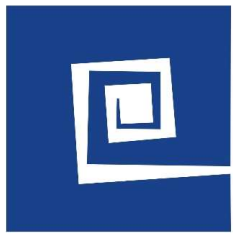




RETI NCP: servizi per i proponenti



<https://horizoneuropencpportal.eu/>



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**GRAZIE PER
L'ATTENZIONE!**

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