



*Ministero dell'Università e della Ricerca*

Nuove European Partnership in Horizon Europe

**Partecipazione dell'Italia alle nuove  
Partnership Europee co-finanziate previste per  
il biennio 2021-22**

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Ufficio VIII



## Elementi di base delle Partnership europee

- **Orientamento strategico:** le priorità sono definite come parte della pianificazione strategica dell'intero programma quadro europeo Horizon 2020;
- **Necessità di un approccio sistemico,** per raggiungere obiettivi impossibili da ottenere con i bandi tradizionali;
- **Direzionalità:** basate su obiettivi e impatti attesi concordati sulla base di una Strategic Research and Innovation Agenda;
- **Addizionalità:** tutti i partner devono impegnarsi a contribuire con proprie risorse e investimenti;
- **Integrazione:** favorire una più forte integrazione dei programmi di ricerca nazionali attraverso la realizzazione di attività di R&I transnazionali, basate su una strategia e un programma di lavoro comune;
- **Regole comuni,** stabili durante tutta la vita delle partnership e basate sul regolamento di Horizon Europe, pur nel rispetto delle peculiarità delle singole partnership;
- **Contributo dell'Unione,** chiaramente definito sin dall'inizio e per tutta la durata della partnership.



## Tre tipologie di partnership

### Co-programmed

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

### Co-funded

Based on a joint programme agreed by partners; commitment of partners for financial and in-kind contributions & financial contribution by Horizon Europe

### Institutionalised

Based on long-term dimension and need for high integration; partnerships based on Articles 185 / 187 of TFEU and the EIT-Regulation supported by Horizon Europe

- Co-finanziate dagli Stati membri
- Finanziate soltanto dalla Commissione europea

- Che saranno avviate all'inizio di Horizon Europe (2021-22)
- Che saranno avviate nel biennio successivo (2023-24)



# Partnership Portfolio

## **HEALTH**

EU-Africa Global Health  
Innovative Health Initiative  
Chemicals Risk Assessment  
ERA for Health research  
Health and care Systems  
Transformation  
Personalised Medicine  
Rare Diseases  
One Health AMR  
Pandemic Preparedness

## **DIGITAL, INDUSTRY AND SPACE**

High Performance Computing  
Key Digital Technologies  
Smart Networks and Services  
AI, data and robotics  
Photonics Europe  
Clean Steel - Low Carbon Steelmaking  
European Metrology  
Made in Europe  
Carbon Neutral and Circular Industry  
Global competitive space systems  
European Geological Service

## **PILLAR III AND CROSS-PILLAR**

EIT Climate KIC  
EIT Health  
EIT Manufacturing  
EIT Food  
EIT InnoEnergy  
EIT Manufacturing  
EIT Raw Materials  
EIT Digital  
EIT Urban Mobility  
EIT Cultural and  
Creative Industries  
Innovative SMEs  
European Open  
Science Cloud  
(EOSC)

## **CLIMATE, ENERGY AND MOBILITY**

Transforming Europe's rail system  
Integrated Air Traffic Management  
Clean Aviation  
Clean Hydrogen  
Built environment and construction  
Towards zero-emission road transport  
Mobility and Safety for Automated Road  
Transport  
Batteries  
Clean Energy Transition  
Driving the Urban Transformation  
Smart and zero-emission waterborne  
transport

## **FOOD, BIOECONOMY, NATURAL RESOURCES, AGRICULTURE AND ENVIRONMENT**

Accelerating farming systems transition  
Animal health: Fighting infectious diseases  
Environmental Observations for a  
sustainable EU agriculture  
Rescuing biodiversity to safeguard life on  
Earth  
A climate neutral, sustainable and  
productive Blue Economy  
Safe and Sustainable Food System for  
People, Planet & Climate  
Circular bio-based Europe  
Water4All: Water security for the planet

## **EURATOM**

Radiation protection







# Partnership Co-finanziate

**HEALTH**

- EU-Africa Global Health
- Chemicals Risk Assessment
- ERA for Health research
- Health and care Systems Transformation
- Personalised Medicine
- Rare Diseases
- One Health AMR
- Pandemic Preparedness**

**DIGITAL, INDUSTRY AND SPACE**

- AI, data and robotics**
- Photonics Europe**
- Clean Steel - Low Carbon Steelmaking**
- Made in Europe**
- Carbon Neutral and Circular Industry**
- Global competitive space systems**
- European Geological Service

**PILLAR III AND CROSS-PILLAR**

- Innovative SMEs
- European Open Science Cloud (EOSC)

**CLIMATE, ENERGY AND MOBILITY**

- Clean Energy Transition
- Driving the Urban Transformation

**FOOD, BIOECONOMY, NATURAL RESOURCES, AGRICULTURE AND ENVIRONMENT**

- Accelerating farming systems transition
- Animal health: Fighting infectious diseases**
- Environmental Observations for a sustainable EU agriculture**
- Rescuing biodiversity to safeguard life on Earth
- A climate neutral, sustainable and productive Blue Economy
- Safe and Sustainable Food System for People, Planet & Climate
- Water4All: Water security for the planet

**EURATOM**

Radiation protection

In giallo: ancora da definire



# Partnership Co-finanziate e Istituzionalizzate (ma con partecipazione degli SM) nel 2021-22

## **HEALTH**

EU-Africa Global Health

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Chemicals Risk Assessment

ERA for Health research

Health and care Systems Transformation

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## **DIGITAL, INDUSTRY AND SPACE**

High Performance Computing

Key Digital Technologies

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European Metrology

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## **CLIMATE, ENERGY AND MOBILITY**

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Clean Energy Transition

Driving the Urban Transformation

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## **FOOD, BIOECONOMY, NATURAL RESOURCES, AGRICULTURE AND ENVIRONMENT**

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Rescuing biodiversity to safeguard life on Earth

A climate neutral, sustainable and productive Blue Economy

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Water4All: Water security for the planet

## **PILLAR III AND CROSS-PILLAR**

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Innovative SMEs

European Open Science Cloud (EOSC)

## **EURATOM**

Radiation protection



# Partnership Co-finanziate nel 2021-22

## Partecipazione italiana (M€ per 7 anni)

Partnership	cash	in kind	totale
EU-Africa Global Health Partnership	10,5	6,5	17
European partnership for Chemical risk assessment	0	25	25
ERA for Health (Pre-clinical/clinical health research)	40	24	64
Transforming Health and Care Systems	40	33	73
High Performance Computing	0	175	175
Key Digital Technologies	73	0	73
European Metrology	49	11	60
Clean Energy Transition	50	30	80
Driving Urban Transitions to a sustainable future	17	25	42
Rescuing biodiversity to safeguard life on Earth	17	25	42
Blue Oceans	17	20	37
Water Security for the Planet	17	25	42
Innovative SMEs	35	0	35
European Science Cloud (EOSC)	7	50	57
<b>Totale</b>	<b>372,5</b>	<b>449,5</b>	<b>822</b>



# Financial vs In kind contributions

## ➤ **Financial contributions:**

- Finanziamento dei progetti vincitori dei bandi transnazionali pubblicati dalle partnership

## ➤ **In kind contribution:**

- Qualsiasi altra spesa utile per la realizzazione delle attività della partnership, ad esempio le spese di coordinamento e gestione delle partnership, oppure l'utilizzo di infrastrutture di ricerca
- Il finanziamento istituzionale di soggetti che fanno ricerca, limitatamente alle attività di ricerca inquadrabili nel settore di interesse delle partnership.



## Attività preparatorie a livello nazionale

- Le attuali fasi preliminari delle partnership europee sono seguite da apposite task force istituite dal MUR e che opereranno in sinergia con le task force che seguono la preparazione di Horizon Europe;
- Il Ministero della Salute guiderà la preparazione e l'implementazione delle partnership che saranno istituite nell'ambito del Cluster Health;
- Il Ministero dell'Università e della Ricerca seguirà le altre;
- La partecipazione di altri Ministeri e delle Regioni è benvenuta ed auspicata;
- Per le partnership non cofinanziate si potrà valutare l'opportunità/necessità di prevedere esperti dedicati.



# Task force nazionali

Partnership	Task force members
EU-Africa Global Health Partnership	Pietro Alano (ISS), Zeno Bisoffi (UniVE), Valeria Cardia (MUR)
Chemical risk assessment	Anna Ceccarelli (ISS), Maria Lucia Pittalis (MUR)
ERA for Health	Gaetano Guglielmi (MinSal), Stefano Vella (UniCatt), Maria Bianco (MUR)
Transforming Health and Care Systems	Gaetano Guglielmi (MinSal), Stefania Boccia (UniCatt), Sabrina Montante (ISS), Pietro Siciliano (CNR), Maria Chiara Noto (MUR)
High Performance Computing	Paola Inverardi (UniAQ), Marco Aldinucci (UniTO), Giorgio Carpino (MUR)
Key Digital Technologies	Aldo Covello (MUR), Enrico Macii (PoliTO), Maria Chiara Noto (MUR)
European Metrology	Filippo Levi (INRIM), Alessandro Boero (MUR)
Clean Energy Transition	Francesco Luca Basile (UniBO), Chiara Gliozzi (MUR)
Driving Urban Transitions to a sustainable future	Paola Clerici Maestosi (ENEA), Eleonora Riva Sanseverino (UniPA), Chiara Gliozzi (MUR)
Rescuing biodiversity to safeguard life on Earth	Laura Airoidi (UniPD), Antonello Provenzale (CNR), Alberto Basset (UniSalento), Yasmine Iollo (MUR)
Blue Oceans	Fabio Fava (UniBO), Laura Airoidi (UniPD), Yasmine Iollo (MUR)
Water Security for the Planet	Giuseppina Monacelli, Antonio Lo Porto (CNR) Valeria Cardia (MUR), Maria Chiara Sole (ISPRA)
Innovative SMEs	Giuseppe Conti (IUSS Pavia), Giorgio Carpino (MUR)
European Science Cloud (EOSC)	Giorgio Rossi (UniMI), Aldo Covello (MUR)



# Partnership Co-finanziate nel 2021-22

## HEALTH

- **EU-Africa Global Health (art. 187)** : Increase health security in sub-Saharan Africa and Europe, by accelerating the clinical development of effective, safe, accessible, suitable and affordable health technologies as well as health systems interventions for infectious diseases in partnership with Africa and international funders.
- **Chemical risk assessment (cofunded)** : a programme to support EU and national chemical risk assessment and risk management bodies with new data, knowledge, methods, networks and skills to address current, emerging and novel chemical safety challenges.
- **ERA for Health (cofunded)** (Pre-clinical/clinical health research): doubling the European collaborative research funding by creating the seed of a joint funding body, defined as public funders of health research in the European Research Area that jointly identify and implement a common funding strategy in priority areas to advance health research and develop innovation.
- **Health and Care Systems Transformation (cofunded)** : Large-scale innovation and transformation of health systems in a digital and ageing society, in order to face increasing challenges, as highlighted by the COVID-19 pandemic. Improvements are urgently needed to reach high quality, efficient, accessible, health promoting, people-centred, resilient, health and care systems for all EU citizens.



# Partnership Co-finanziate nel 2021-22

## DIGITAL, INDUSTRY and SPACE

- **High Performance Computing (art. 187)** : The EuroHPC Joint Undertaking has as its mission to establish an integrated world-class supercomputing & data infrastructure and support a highly competitive and innovative HPC and Big Data ecosystem.
- **Key Digital Technologies (art. 187)** : Maintain the European Electronics Components and Systems industry at the technological forefront and contribute to boosting the EU's competitiveness, including that of its industries by providing essential components and software as well as the related manufacturing infrastructure in Europe and national strategies.
- **European Metrology (art. 185)** : Accelerating the global lead in metrology research that Europe currently holds, and creating sustainable metrology networks for highly competitive and emerging metrology areas, while incorporating a wide range of stakeholders.



# Partnership Co-finanziate nel 2021-22

## CIMATE, ENERGY and MOBILITY

- **Clean Energy Transition (cofunded)** : Empower the energy transition and realise the EU's aim of being a frontrunner, becoming the first climate-neutral continent. Based on the Strategic Energy Technology Plan (SET-Plan) Actions and its implementation plans (IPs) the CETP complements other initiatives of Horizon Europe.
- **Driving the Urban Transformation (cofunded)** : The DUT partnership addresses complex urban challenges with an integrated approach to offer decision makers in municipalities, companies and society the means to act and enable the necessary urban transformations. The partnership will create a portfolio of measures and critical mass beyond joint calls to enhance its impact, build capacities in all stakeholder groups and contribute to the European mission on climate-neutral and smart cities.



# Partnership Co-finanziate nel 2021-22

## FOOD, BIOECONOMY, NATURAL RESOURCES, AGRICULTURE and ENVIRONMENT

- **Rescuing biodiversity to safeguard life on Earth (cofunded)** : Halting biodiversity loss, maintaining and restoring natural capital is essential for the transition towards sustainability, climate neutrality and for respecting the planetary boundaries. The partnership aims to deploy solutions to stop the ongoing mass extinction of species caused by human activity by upscaling, aligning and integrating European R&I efforts and investment, guiding actions to protect, restore and sustainably manage ecosystems and natural capital.
- **Blue Oceans A climate neutral, sustainable and productive Blue Economy (cofunded)** : The objective is to sustainably unlock, demonstrate and harvest the full potential of Europe's Oceans and Seas through a well-structured, sustained and simplified joint effort in this borderless domain with the aim to support the transition to a strong, climate neutral and sustainable blue economy by 2050.
- **Water4All (cofunded)** : Water security for the planet The partnership aims at securing all water demands in terms of quality and quantity, and that both economic and natural systems, as well as people are protected from water-related hazards. This is essential to support the transition to a healthy planet and to ensure a resilient Energy Union, EU climate neutral policy and respect of planetary boundaries.



# Partnership Co-finanziate nel 2021-22

## PILLAR III and CROSS PILLAR

- **Innovative SMEs (cofunded)** : The initiative aims to provide financial support to transnational market-oriented research projects initiated and driven by innovative SMEs. Innovative SMEs shall take the lead and should be able to exploit commercially the project results, thus improving their competitive position. Research organisations, universities, other SMEs, large companies and others actors of the innovation chain can also participate in Eurostars projects.
- **European Open Science Cloud (EOSC) (cofunded)** : The EOSC 2.0 partnership is aimed at facilitating the EOSC implementation activities in its second phase. After 2020 the EOSC will become more stakeholder-driven, with a permanent governance structure in place, and would benefit from a co-programmed financing mechanism.



# Partnership Co-finanziate nel 2021-22

## EURATOM

- **European Partnership for research in radiation protection and detection of ionising radiation (cofunded)** : Radiation protection research funded under this Partnership should provide solutions and recommendations for protecting people and the environment from the potentially harmful effects of ionising radiation. A reinforced multidisciplinary approach to research, innovation and citizen involvement is needed to further develop the knowledge base and enable implementation of innovation regarding risks from different exposures to radiation, enabling the implementation of that knowledge into direct gains in Radiation Protection culture and practice.



**Grazie per l'attenzione**

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