



# HORIZON EUROPE

THE EU  
RESEARCH &  
INNOVATION  
PROGRAMME 2021 – 27

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This presentation is based on the political agreement of 11 December 2020 on the Horizon Europe. Information on some parts is pending revision.



# Horizon Europe supports the implementation of the global approach to research & innovation

## **HORIZON EUROPE // 2021 - 2027 // €95.5 billion**

- ✓ A unique international R&I programme of such scale and scope
- ✓ Conceived in co-design process with an open on-line consultation
- ✓ Helps to achieve the UN's Sustainable Development Goals
- ✓ Creation and better diffusion of excellent knowledge & technologies

## **EU R&I Days 2021**

*the annual R&I flagship event, bringing together policymakers, researchers, entrepreneurs and the public to debate and shape the future of R&I in Europe and beyond*

# Horizon Europe structure



## Pillar I

EXCELLENT SCIENCE

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



## Pillar II

GLOBAL CHALLENGES & EUROPEAN INDUSTRIAL COMPETITIVENESS

6 Clusters

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



## Pillar III

INNOVATIVE EUROPE

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

### WIDENING PARTICIPATION AND STRENGTHENING THE EUROPEAN RESEARCH AREA

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



# EU Missions

## R&I Missions

Relating EU's **research and innovation better to society and citizens'** needs; with strong visibility and impact

A mission is a portfolio of actions across disciplines intended to achieve a **an inspirational and measurable goal** within a set timeframe, with **impact** for society and policy making.



Adaptation to  
climate  
change



Cancer



Healthy  
oceans &  
seas



Climate-  
neutral &  
smart cities



Soil health  
& food



# New approach to European Partnerships

New generation of objective-driven and more ambitious partnerships

## Key Features

- **Strategic orientation**
- **Systemic approach**
- **Simple architecture and toolbox**
- **Common set of criteria for the life-cycle**

### CO-PROGRAMMED

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

### CO-FUNDED

Based on a joint programme agreed and implemented by partners; commitment of partners for financial and in-kind contributions

### INSTITUTIONALISED

Based on long-term dimension and need for high integration; partnerships based on Art 185/187 of TFEU and the EIT legal acts for 2021-2027

# How to participate

Any legal entity, regardless of its place of establishment, is eligible to participate.

## Access the Funding and Tenders Portal



Coronavirus Global R&I Collaboration Portal

EURAXESS Brazil & LAC

ENRICH-LAC Europe - Latin American & Caribbean RTI Networking Platform

Three evaluation criteria: Excellence, Impact and Quality of Implementation

Partner search

10

Organisations are looking for collaborating partners for this topic

View / Edit



NCPs, Platforms, European researchers you have already worked with.

# COLLABORATIVE PROJECTS

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**Third countries\* (not low to middle-income countries) are not automatically eligible for funding. Exceptional funding, if:**

- **the country is explicitly identified in the call for eligibility for funding**
- **their participation as a beneficiary is essential for the project.**

**Legal entities forming a consortium should include:**

- **at least one independent legal entity established in a Member State; and**
- **at least two other independent legal entities, each established in different Member States or Associated Countries.**



**\* (neither EU Member States nor associated)**



# International Cooperation

## International Cooperation

Tackling together global societal challenges; access to the world's best talents, expertise and resources; enhanced supply and demand of innovative solutions

→ **Openness to international participation**

→ **Intensified targeted actions**

→ **Strengthened support to multilateral cooperation**





# International cooperation in Horizon Europe Work Programme 2021-2022

## Key figures

**200+**

actions specifically relevant to international cooperation (ca. 1 in 5 total)

**75**

actions targeting cooperation with specific countries or regions

**30**

actions contributing to key multilateral initiatives

**€3B+**

total EU contribution to international cooperation actions



# International cooperation in Horizon Europe Work Programme 2021-2022

## Cluster 1 - Health

### Key figures

**7**

topics encourage  
international cooperation

**€320 million**

total EU contribution to these topics

### Examples of thematic areas

- Infectious diseases
- Mental health
- Health impacts of climate change
- AI for treatment and care
- Repurposing medicines
- Antimicrobial resistance



# International cooperation in Horizon Europe Work Programme 2021-2022

## Cluster 2 – Culture, Creativity & Inclusive Society

### Key figures

**9**

topics encourage  
international cooperation

**€89 million**

total EU contribution to these topics

### Examples of thematic areas

- Politics and governance
- Cultural heritage
- Indicators for sustainable development
- Gender
- Migration



# International cooperation in Horizon Europe Work Programme 2021-2022

## Cluster 3 – Civil Security for Society

### Key figures

**16**

topics encourage  
international cooperation

**€91 million**

total EU contribution to these topics

### Examples of thematic areas

- Disaster resilience
- Border management
- Infrastructure resilience
- Fighting crime and terrorism



# International cooperation in Horizon Europe Work Programme 2021-2022

## Cluster 4 – Digital, Industry and Space

### Key figures

**30+**

topics encourage  
international cooperation

**€600+ million**

total EU contribution to these topics

### Examples of thematic areas

- Manufacturing, construction, processing
- Raw & advanced materials
- Next generation internet
- Nanomaterials health and environmental risks
- Quantum



# International cooperation in Horizon Europe Work Programme 2021-2022

## Cluster 5 – Climate, Energy & Mobility

### Key figures

**30+**

topics encourage or require international cooperation

**€540+ million**

total EU contribution to these topics

### Examples of thematic areas

- Water-energy-food nexus; energy system modelling
- Connected & Automated Mobility
- Climate sciences
- Renewable energy
- Road safety
- Clean transport
- Biofuels (Mission Innovation)



# International cooperation in Horizon Europe Work Programme 2021-2022

## Cluster 6 – Food, Bioecon., Nat Res, Agri & Environ.

### Key figures

**55+**

topics encourage or require international cooperation

**€700+ million**

total EU contribution to these topics

### Examples of thematic areas

- Food, Nutrition Security & Sustainable Agriculture
- Food, Agriculture and Biotechnology Flagship
- Biodiversity & ecosystems (Africa, Brazil, Canada, LAC, Med, ...)
- Circular economy and bioeconomy
- Water, oceans, soil
- Communities
- Pollution



# International cooperation in Horizon Europe Work Programme 2021-2022

## Widening participation & strengthening the ERA

### Key figures

**12**

topics encourage or support international cooperation

**€64 million**

total EU contribution to these topics

### Examples of thematic areas

- FAIR data policy, citizen science
- Research ethics
- INNOWWIDE Bridging Facility
- Open access
- Responsible R&I
- Service Facility for international cooperation





# International cooperation in Horizon Europe Work Programme 2021-2022

## Pillar I: Research Infrastructures

### Key figures

9

topics encourage or require international cooperation

€170+ million

total EU contribution to these topics

### Examples of thematic areas

- Enhance climate observation capacity in Africa
- Research infrastructure services
  - *Areas: cancer, agriculture, environment, materials for circular economy, global value chains, frontier knowledge, COVID-19*
  - Possibility for exceptional funding: AU; **BR**; CA; CN; IN; JP; MX; NZ; KO; RU; SG; US



# International cooperation in Horizon Europe Work Programme 2021-2022 Contribution to key multilateral initiatives



& others ...

## Info Days 2021

28 JUNE	<b>INFRASTRUCTURES</b>	
29 & 30 JUNE	<b>DIGITAL, INDUSTRY &amp; SPACE</b>	CLUSTER 4
30 JUNE	<b>CIVIL SECURITY FOR SOCIETY</b>	CLUSTER 3
01 JULY	<b>CULTURE, CREATIVITY &amp; INCLUSIVE SOCIETIES</b>	CLUSTER 2
01 JULY	<b>MARIE SKŁODOWSKA-CURIE ACTIONS</b>	
02 JULY	<b>HEALTH</b>	CLUSTER 1
05 & 06 JULY	<b>CLIMATE, ENERGY &amp; MOBILITY</b>	CLUSTER 5
07 & 08 JULY	<b>FOOD, BIOECONOMY, NATURAL RESOURCES AGRICULTURE &amp; ENVIRONMENT</b>	CLUSTER 6
09 JULY	<b>ERA &amp; WIDENING</b>	

## THE EU RESEARCH & INNOVATION PROGRAMME

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# Thank you!

## #HorizonEU

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