

INTERNATIONAL COOPERATION IN HORIZON EUROPE



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European
Commission



Global approach to research & innovation

*Europe's strategy for international cooperation in a changing world**

WHAT IS THE AIM OF THE GLOBAL APPROACH TO RESEARCH AND INNOVATION (R&I)?

To preserve openness in research and innovation international cooperation while promoting a level playing field and reciprocity underpinned by fundamental values.

To strengthen multilateral partnerships to deliver new solutions to green, digital, health and innovation challenges.



HOW WILL THIS BE ACHIEVED?

Modulating bilateral cooperation in line with European interests and values and EU's open strategic autonomy.

Accelerating sustainable and inclusive development, and the transition to resilient, knowledge-based societies and economies in low and middle-income countries.

Using a *Team Europe* approach, with actions by the EU, its financial institutions and Member States.





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

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

- ✓ A unique international R&I funding programme of such scale and scope
- ✓ Targeted actions with key partners
- ✓ Accelerate sustainable development in low & middle-income countries
- ✓ Association possible for countries anywhere in the world, based on criteria
- ✓ Safeguarding EU interests



International cooperation in Horizon Europe

Main features

General openness to international participation

- Entities from all over the world can take part in collaborative R&I projects
- Researchers and innovators of any nationality can apply for grants
- Entities from most low-middle income countries are automatically eligible for funding

Targeted international cooperation actions

- Actions specifically relevant for international cooperation
- Targeted actions with key partners on specific thematic areas
- Cooperation with Africa under the Horizon Europe 'Africa Initiative'



International cooperation in Horizon Europe

Main features

Association to Horizon Europe

- Categories of third countries
 - a) EFTA members that are members of European Economic Area
 - b) Acceding, candidates and potential candidates
 - c) European Neighbourhood Policy countries
 - d) Third countries (i) with good STI capacity; (ii) with commitment to a rules-based open market economy, including fair and equitable dealing with IPR, respect of human rights, backed by democratic institutions; (iii) that promote policies to improve the economic and social well-being of citizens



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





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 (Africa)
- 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 (neighbourhood countries, Middle East, ...)
- Cultural heritage (neighbourhood countries)
- Indicators for sustainable development (Africa, America, Asia)
- Gender
- Migration (Africa, Asia, Middle East)



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 (Africa, Japan, South Med, ...)
- 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 (CA, IN, JP, KR, US, ASEAN, ...)
- Raw & advanced materials (Africa, ...)
- Next generation internet (USA, Canada)
- Nanomaterials health and environmental risks
- Quantum (Japan, Canada, USA, Australia)



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 (Africa)
- Connected & Automated Mobility (AU, CA, JP, KR, SG, US)
- Climate sciences (major ghg emitters, LMIC, Africa, ...)
- Renewable energy (Africa, Central Asia, Mission Innovation, ...)
- Road safety (Africa)
- Clean transport
- Biofuels (Mission Innovation)



International cooperation in Horizon Europe Work Programme 2021-2022

Cluster 6 – Food, Bioecon, Nat Res, Agricult & Envir

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 (Partnership w/ Africa)
- Food, Agriculture and Biotechnology Flagship (China)
- Biodiversity & ecosystems (Africa, Brazil, Canada, LAC, Med, ...)
- Circular economy and bioeconomy
- Water, oceans, soil (incl. AORA, Arctic Ministerial, IRC on soil carbon,)
- Communities (Africa, Black Sea, JP, LAC, S. Med, US)
- 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 (Africa, China, S. Korea)
- INNOWIDE Bridging Facility (Africa)
- 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

Pillar I: MSCA and ERC

Marie Skłodowska-Curie Actions

- Doctoral Networks
- Staff Exchanges
 - address inter-sectoral, *international* and interdisciplinary mobility
- Global Fellowships

European Research Council

- ERC research teams include researchers from all over the world



International cooperation in Horizon Europe Work Programme 2021-2022

Contribution to key multilateral initiatives



& others ...



Thank you!

For more info:

- European Commission Communication on the Global Approach to research and innovation: https://ec.europa.eu/commission/presscorner/detail/en/ip_21_2465
- Horizon Europe: https://ec.europa.eu/info/research-and-innovation/funding/funding-opportunities/funding-programmes-and-open-calls/horizon-europe_en
- European Commission's website on international R&I cooperation: https://ec.europa.eu/info/research-and-innovation/strategy/international-cooperation_en

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