



#HorizonEU



RESEARCH & INNOVATION

PROGRAMME 2021 – 27

Tom Kuczynski Science, Innovation, Digital, and Other EU Policies Section EU Delegation to Japan

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

19 March 2021

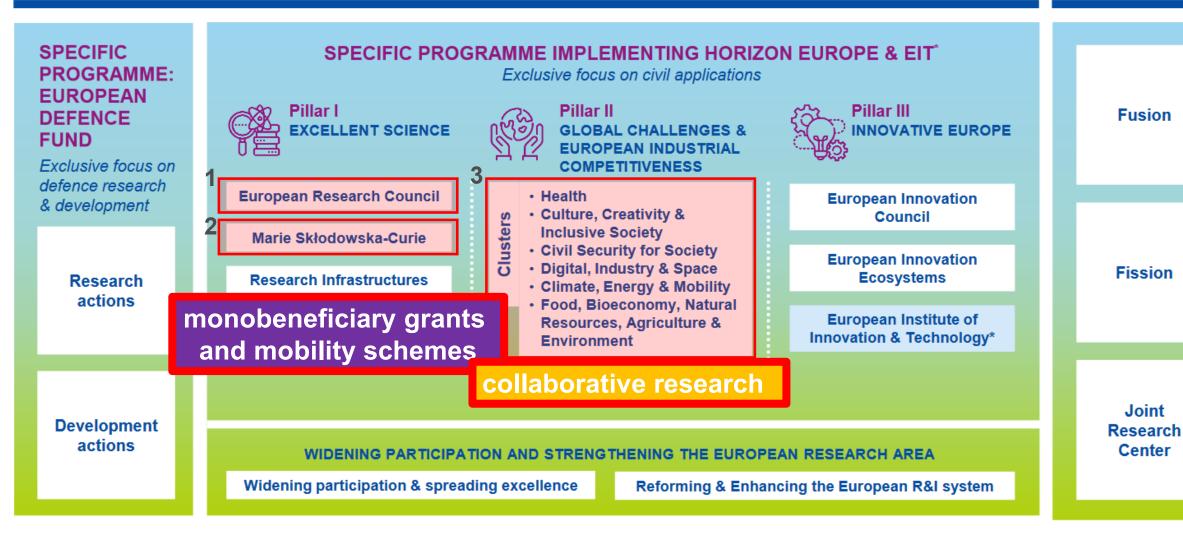
Research and Innovation



Horizon Europe is a tool to:

- to upgrade bilateral research/institutional collaboration to multilateral collaboration - higher quality research output
- to join the world's best research teams: to learn how large research projects are run, what is the top science in your field, how science communication is done...
- to jointly address global challenges in any field of science / TRLs / opportunities for collaboration with industry / standards
- to further internationalise universities: joining global research teams, establish doctoral courses, communication in EN, host individual researchers from overseas, exchange research results, twinning activities
- to develop researchers' career at any level





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



monobeneficiary grants and mobility schemes



Marie Sklodowska-Curie Actions to fund doctoral programmes and postdoctoral researchers

Doctoral Networks

Doctoral programmes in and outside academia incl. joint & industrial doctorates

Postdoctoral Fellowships

Support to excellent postdoctoral researchers



European Research Council schemes to fund frontier research projects run by individual researchers

Starting Grants (StG)

1. Principal Investigator (2-7 years after PhD) up to € 2.5 Misfor 5 years Consolidator Grants (CoG)

1 Principal Investigator (7-12 years after PhD) up to € 3.0 Mio for 5 years Advanced Grants (AdG)

1 Principal Investigator up to € 3.5 Mio for 5 years



European Research Council

Scientific Freedom as a Basic Value

- Scientific excellence as the only evaluation criterion.
- Support to the individual scientist no consortia!
- No predetermined subjects (bottom-up).
- Simple application procedures.

Recognition and Visibility to Individual researchers

ERC allows to:

- work on a research topic of own choice, with a team of own choice
- gain true financial autonomy for 5 years
- negotiate with the host institution the best conditions of work
- attract top team members (EU and non-EU) and collaborators
- move with the grant to any place in Europe if necessary (portability of grants)
- attract additional funding and gain recognition; ERC is a quality label



ERC funding schemes for individual PIs

Aim: to fund frontier research projects run by individual Pls

Starting Grants (StG)

1 Principal
Investigator
(2-7 years after PhD)
up to € 2.5 Mio
for 5 years

Consolidator Grants (CoG)

1 Principal
Investigator
(7-12 years after PhD)
up to € 3.0 Mio
for 5 years

Advanced Grants (AdG)

1 Principal Investigator up to € 3.5 Mio for 5 years

ERC funding scheme for groups of individual PIs

Aim: to fund frontier research projects jointly run by a small group of individual Pls

Synergy Grants (SyG)

2 – 4 Principal Investigators up to € 14 Mio for 6 years



Marie Skłodowska-Curie Actions (MSCA) key features

- Support the mobility, training (including transferable skills) and career development of researchers from all over the world through excellent doctorates, postdoctoral fellowships and collaborative projects
- Stimulating international, inter-sectoral and interdisciplinary cooperation
- For researchers at every stage of their career
- Promotion of attractive working and employment conditions (financing rate of up to 100%, Charter and Code)
- Support excellent research in all domains (bottom-up)
- Open to all organisations. Participation of non-academic sector strongly encouraged, especially industry and SMEs
- Impacting researcher careers, organisations, structures and the ERA



The Actions

Doctoral Networks

Doctoral programmes in and outside academia incl. joint & industrial doctorates

Postdoctoral Fellowships

Support to excellent postdoctoral researchers

Staff Exchanges

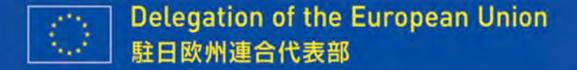
Support for exchanges of any type of R&I-related staff

COFUND

Co-funding doctoral and postdoctoral programmes

MSCA and Citizens

Public outreach events (Night)



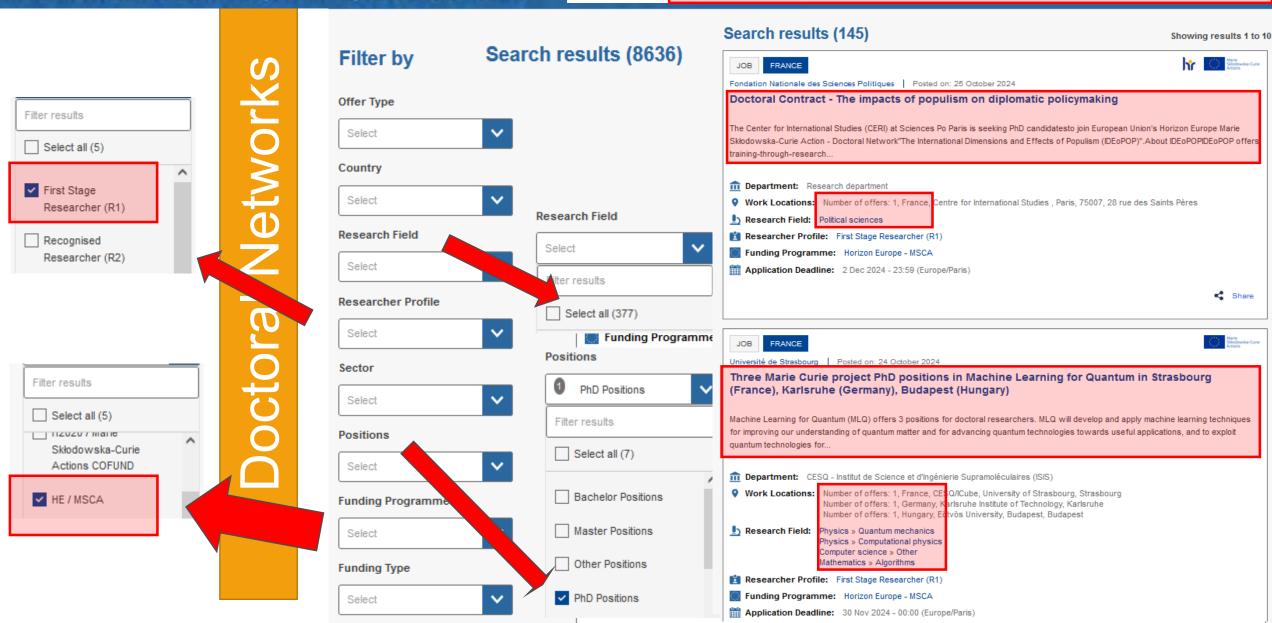
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EU Funding & Tenders Portal



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Guidance & documents ▼

Horizon Europe (HORIZON)

Horizon Europe is the ambitious EU research 8

Find calls for proposals and tenders

Search calls for proposals by keywords, program



A Calls for Tenders are not available when you

Find call by programme structure

Horizon Europe consists of three pillars and one he



Pillar 1

European Research Council

Marie Skłodowska-Curie Actions

Research Infrastructures

MSCA Postdoctoral Fellowships 2024

HORIZON-MSCA-2024-PF-01-01 Call for proposal

Opening date: 23 April 2024

Next deadline: 12 September 2024

Single-stage

Programme: Horizon Europe (HORIZON) | Type of action: HORIZON TMA MSCA Postdoctoral Fellowships

MSCA COFUND 2024

HORIZON-MSCA-2024-COFUND-01-01 | Call for proposal

Opening date: 23 April 2024 | Next deadline: 27 September 2024 Single-stage

Programme: Horizon Europe (HORIZON) | Type of action: HORIZON TMA MSCA Cofund Doctoral program

Postdoctoral Fellowship

ERC grants

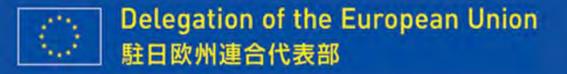


Pillar II

Budget for collaborative research

in current prices

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



European Partnerships

HORIZON EUROPE	PILLAR II - Global cha	llenges & European ind	ustrial competitiveness	PILLAR III - Innovative	e Europe
CLUSTER 1: Health	CLUSTER 4: Digital, Industry & Space	CLUSTER 5: Climate, Energy & Mobility	CLUSTER 6: Food, Bioeconomy, Agriculture,	EIT (KNOWLEDGE & INNOVATION COMMUNITIES)	SUPPORT INNOVATION ECOSYSTEMS
Innovative Health Initiative	Chips JU (former Key Digital Technologies)	Clean Hydrogen	Circular Bio-based Europe	InnoEnergy	Innovative SMEs
Global Health Partnership	Smart Networks & Services	Clean Aviation	Rescuing Biodiversity to Safeguard Life on Earth	Climate	
Transformation of health systems	High Performance Computing	Single European Sky ATM Research 3	Climate Neutral,	Digital	
Chemicals risk	European Metrology	Europe's Rail	Sustainable & Productive Blue Economy	Food	
assessment	(Art. 185)	Connected and Automated	Water4All	Health	
ERA for Health	Al-Data-Robotics	Mobility (CCAM)	Animal Health & Welfare*	Raw Materials	
Rare diseases*	Photonics	Batteries	Accelerating Farming	Manufacturing	
One-Health Anti Microbial Resistance*	Made in Europe	Zero-emission waterborne transport	Systems Transitions*	Urban Mobility	
Personalised Medicine*	Clean steel – low-carbon steelmaking	Zero-emission road transport	Agriculture of Data* Safe & Sustainable Food	Cultural and Creative Industries	
Pandemic Preparedness* Co-funded or co-programmed	Processes4Planet	Built4People	System* Institutionalised Partnerships (Art 185/7)		
	Global competitive space systems**	Clean Energy Transition	Institutionalised Partnerships / EIT KICs		III
	•	Driving Urban Transitions	Co-Programmed Co-Funded European Open Science Cloud		ud
9 NEW	Brain Health	Forests and Forestry for a Sustainable Future	Raw Materials for the Green and Digital Transition	Resilient Cultural Heritage	Social Transformations and Resilience
PARTNERSHIPS	Innovative Materials for				

Virtual Worlds

Pillar III

INNOVATIVE EUROPE:

stimulating market-creating breakthroughs and ecosystems conducive to innovation

European Innovation Council

Support to innovations with breakthrough and market creating potential

European innovation ecosystems

Connecting with regional and national innovation actors

The budget: €10.6 billion, incl. up to €527 million for ecosystems (including NGEU – Recovery Fund parts dedicated to EIC).

European Institute of Innovation and Technology (EIT)

Bringing key actors (research, education and business) together around a common goal for nurturing innovation

circa €3 billion



Funding *

Procurement V

Projects & results ▼

News & events ▼

Work as an expert

Guidance & documents ▼

Select.

Q

Programme (Horizon Europe (HORIZON) (X)

Programming period >

Horizon Europe (HORIZON) ∨

HORIZON-CL3-2024-DRS-01 V

Submission status V

All filters

Disaster Resilient Society

Hi-tech capacities for crisis response and recovery after a natural-technological (NaTech) disaster

HORIZON-CL3-2024-DRS-01-04 | Call for proposal

Opening date: 27 June 2024 | Next deadline: 20 November 2024 | Single-stage

Programme: Horizon Europe (HORIZON) | Type of action: HORIZON Research and Innovation Actions

Cost-effective sustainable technologies and crisis management strategies for RN large-scale protection of population and infrastructures after a nuclear blast or n...

HORIZON-CL3-2024-DRS-01-05 | Call for proposal

Opening date: 27 June 2024 | Next deadline: 20 November 2024 | Single-stage

Programme: Horizon Europe (HORIZON) | Type of action: HORIZON Research and Innovation Actions

Open Topic

HORIZON-CL3-2024-DRS-01-02 | Call for proposal

Opening date: 27 June 2024 | Next deadline: 20 November 2024 | Single-stage

Programme: Horizon Europe (HORIZON) | Type of action: HORIZON Research and Innovation Actions

Prevention, detection, response and mitigation of chemical, biological and radiological threats to agricultural production, feed and food processing, distribution an...

HORIZON-CL3-2024-DRS-01-01 | Call for proposal

Opening date: 27 June 2024 | Next deadline: 20 November 2024 | Single-stage

Programme: Horizon Europe (HORIZON) | Type of action: HORIZON Research and Innovation Actions

Additional documents:

HE Main Work Programme 2023–2024 – 1. General Introduction
☑

HE Main Work Programme 2023–2024 – 6. Civil Security for Society

HE Main Work Programme 2023-2024 - 13. General Annexes ☑

HE Programme Guide

HE Framework Programme and Rules for Participation Regulation 20%

HE Specific Programme Decision 2021/764 <a>™

EU Financial Regulation

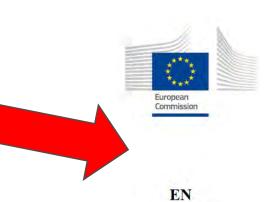
Rules for Legal Entity Validation, LEAR Appointment and Financial Ca

EU Grants AGA — Annotated Model Grant Agreement

Funding & Tenders Portal Online Manual

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Funding & Tenders Portal Privacy Statement



Horizon Europe

Work Programme 2023-2025

6. Civil Security for Society

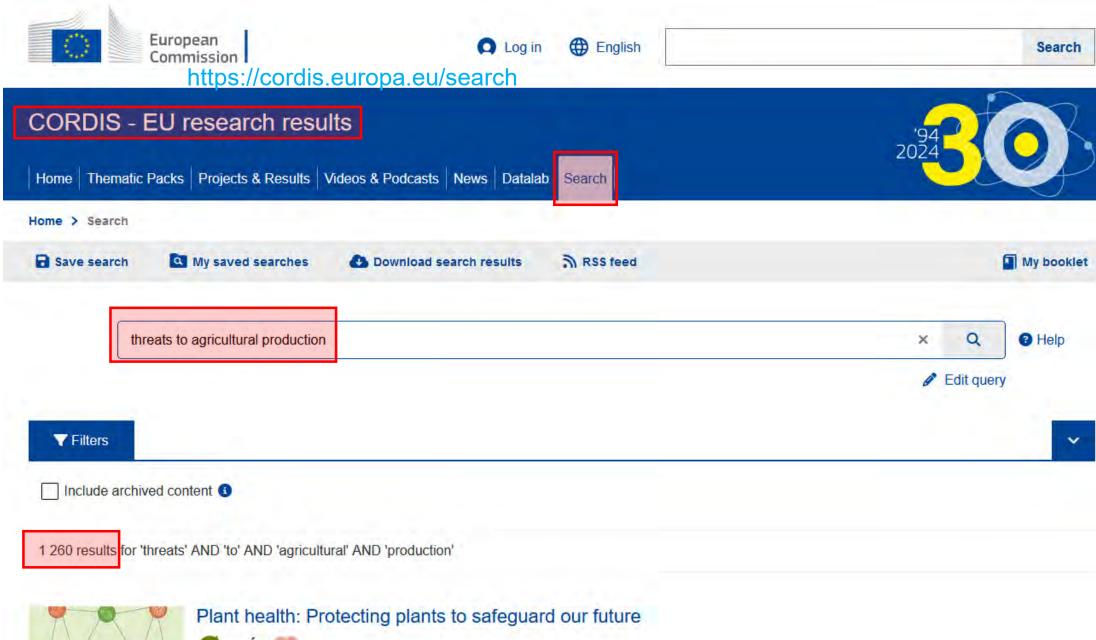
(European Commission Decision C(2024) 2371 of 1

HORIZON-CL3-2024-DRS-01-01: Prevention, detection, response and mitigation of chemical, biological and radiological threats to agricultural production, feed and food processing, distribution and consumption

Specific condition	as	
Expected EU contribution per project	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.	
Indicative budget	The total indicative budget for the topic is EUR 8.00 million.	
Type of Action	Research and Innovation Actions	
Eligibility	The conditions are described in General Annex B. The following	
Expected Outcomes:	ne: Projects' results are expected to contribute to some or all of the fo	

- Increasing EU capabilities to assess risks, detect, alert, mitigate and respond to feed and
 food intentional and accidental contamination from chemical, biological and radiological
 (CBR) agents, through the entire food chains (soils and agro-production, feed and food
 industry, transporting, retail and hospitality industry, public catering);
- Increasing the understanding on food terrorism threats and on food chain vulnerabilities to intentional and accidental contaminations;
- Raising awareness among feed and food companies and authorities to CBR threats
 arising from malicious use of hazardous agents that pose danger to animal and public
 health. This should be done under the premises of feed and food as a critical
 infrastructure and risks pertaining therein;
- In addition to raising awareness, proposals should develop possible preparedness, mitigation and response plans for national authorities and the private sector.

Seepe: Plant and animal health is of global importance for sustainable agriculture and competitive agriculture and forestry, as well as for the protection of biodiversity and ecosystems 102. Globally, between 10 and 28 percent of crop production is lost to pests and contamination of food and feed by mycotoxins can severely threaten the health of humans and livestock. The International Year of Plant Health (IYPH) 2020, established by the United Nations, raised public and political awareness of the importance of plant health and a recent study (IPPC, 2021) calls the attention of policy makers to the main effects of climate change on plant health, helping governments and the international community addressing plant health challenges. Also, the food chain, from harvest of agricultural products, throughout processing, distribution and until consumption can be challenged by several (hybrid) threats, which are increasingly taking non-conventional forms and possibly targeting the agriculture and food chain with severe consequences.









Plant health is an overarching term for emerging risks including pests, diseases and weeds, integrated pest management and innovation in plant protection. It has the potential to contribute to the wider goal of ensuring the sustainability of primary production on an economic, ecological and



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