

What is Horizon Europe?

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UK National Contact Point Horizon Europe - Security
Innovate UK

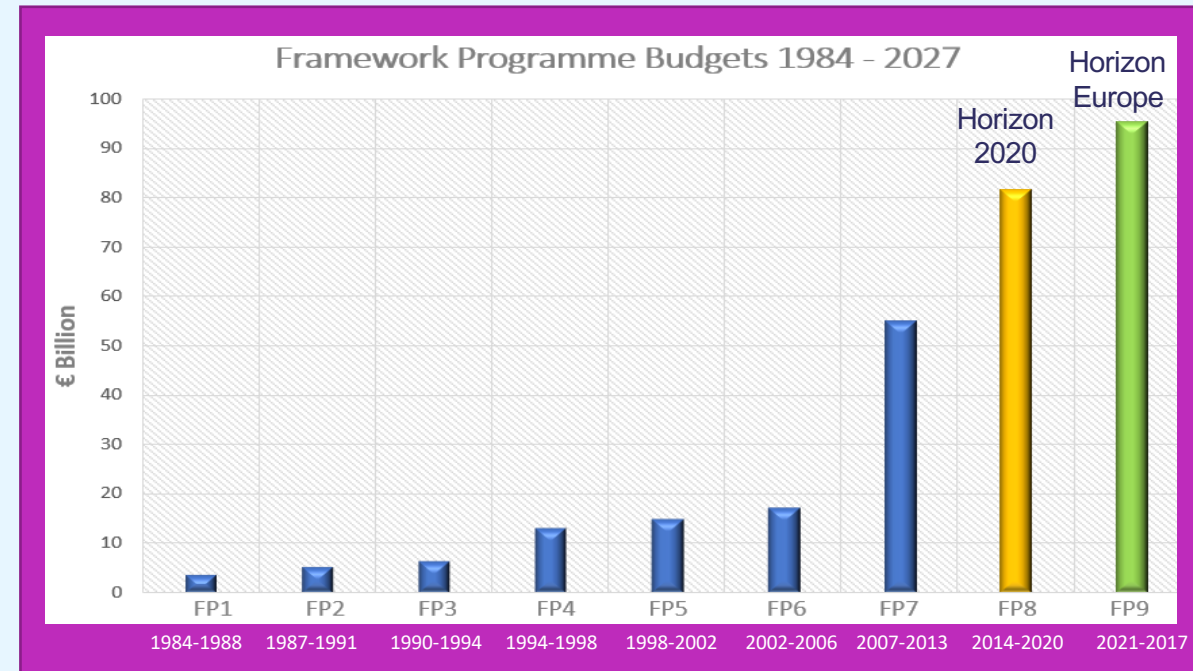
6th December 2023

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What is Horizon Europe

- Providing over €95.5Billion of funding (2021 – 2027)
- The most ambitious programme in the history of the EU
- World's biggest civil research and innovation programme
- Tackles today's biggest global challenges
- Promotes international cooperation and collaboration
- Opportunities for researchers & innovators across the world
- [Open to any organisation of any size](#)
- Funding opportunities set out through Work Programmes



- Impact areas:
 - Drives EU's scientific and technological excellence
 - Tackles policy priorities (green and digital)
 - Boosts innovation uptake, competitiveness and jobs
- **Horizon Europe Framework built around 3 key Pillars (Pillar 1,2 &3)**

The Horizon Europe Framework



Pillar 1 - Excellent Science

- **Supports** excellent basic and frontier research
- **Aims** to reinforce the link between:
 - Research
 - Innovation
 - Education
 - Policy

Pillar 2 - Global Challenges & European Industrial Competitiveness

- **Supports** ways to address complex societal challenges via interdisciplinary solutions
- **Aims** to improve:
 - People's lives
 - Protect the planet for future generations

Pillar 3 – Innovative Europe

- **Supports** and stimulates the creation and diffusion of breakthrough innovations
- **Aims** to improve Innovation:
 - Performance
 - Transfer
 - Scale-up

PILLAR 1

EXCELLENT SCIENCE

➤ European Research Council (ERC)

Long-term funding to pursue investigator-led ground-breaking, high-gain and high-risk frontier research

- Fully bottom-up scheme; Open to all research areas
- Direct impact in the form of advances at the frontiers of knowledge
- No mobility or nationality requirements but other specific eligibility requirements
- Funds individual researchers and their teams (teams can be based anywhere in the world)

➤ Research Infrastructure

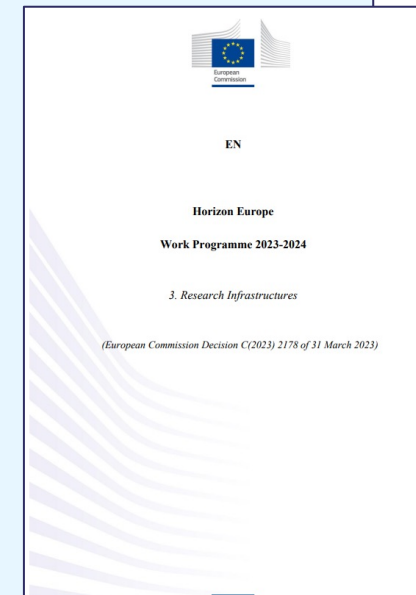
Facilities providing resources and services for the research community

- To support scientific advance and innovation to enable open and excellent science
- Supports the FAIR principle: Findability, accessibility, interoperability and reusability

➤ Marie Skłodowska-Curie Actions (MSCA)

Funding for research projects: training opportunities for and physical mobility of the participating researcher(s)

- Fully bottom-up scheme; Open to all research areas.
- Based on the principle of physical mobility
- Supports researchers' training and development during the project
- No nationality exclusion, but specific eligibility requirements
- 3 'I' approach to mobility – applicants are encouraged to set up an intersectoral, international and interdisciplinary research project
- Funds individual researchers as well as collaborative projects

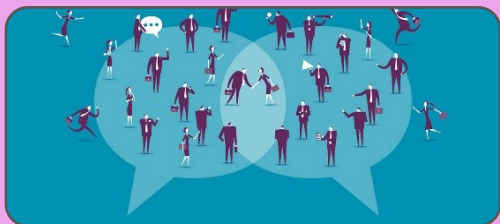


Marie Skłodowska-Curie Actions (MSCA)



MSCA Doctoral Networks

- Provides full funding for an international consortium to train a group of PhD students
- Provides recruited researchers with training through research
- Mobility is key – intersectoral, interdisciplinary and international



MSCA Staff Exchange Scheme

- Funds short-term exchanges of personnel between academic, industrial and commercial organisations worldwide
- Funds consortium-based research and innovation projects
- Project implemented through the secondment of staff for a period between 1 and 12 months



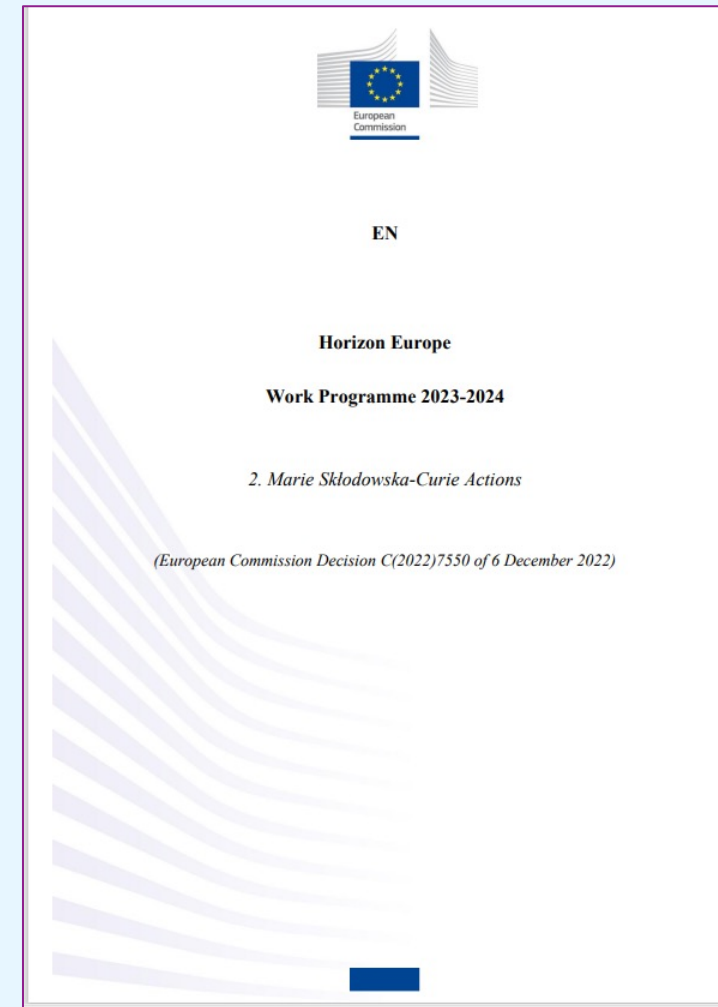
MSCA Post Doctoral Fellowships

- Provides full funding for an individual postdoctoral researcher
- Mobility is key – intersectoral, interdisciplinary and international!
- Training through research and innovation
- Opportunities for European or internationally hosted fellowships with opportunities for secondments



MSCA COFUND Doctoral and Fellowship Programme

- Collaborative funding through a mono beneficiary scheme
- Training through research and innovation
- Mobility is key – intersectoral, interdisciplinary and international!
- EC provides a contribution to the funding for a cohort of PhD students or Post-Docs



PILLAR 2

GLOBAL CHALLENGES & EUROPEAN INDUSTRIAL COMPETITIVENESS

CLUSTER 1

Health



CLUSTER 2

Culture, Creativity, & Inclusive Society



CLUSTER 3

Civil Security for Society



CLUSTER 4

Digital, Industry & Space



CLUSTER 5

Climate, Energy & Mobility



CLUSTER 6

Food Bioeconomy, Natural Resources, Agriculture & Environment



- Built to promote and maximise integration and synergies across the thematic areas
- High-level impact/s expected outcomes of projects
- Fully collaborative: cross-discipline, cross sectoral, cross-policy and cross border
- Multi-diverse partner consortia – with specific participation criterium (not all)
- Support research relating to societal challenges – improve people’s lives

- Reinforce technological and industrial capacities – boost the economy
- Supports the creation and diffusion of high-quality new knowledge, technologies and sustainable solutions
- Competitive - projects evaluated and scored
- Each topic has its own budget, scope and expected outcomes
- Multi-year projects with a broad range of TRL requirements
- Different types of ‘Actions’

Cluster Destinations


CLUSTER 1

Health




CLUSTER 2

Culture, Creativity, & Inclusive Society



CLUSTER 3

Civil Security for Society




CLUSTER 4

Digital, Industry & Space




CLUSTER 5

Climate, Energy & Mobility



CLUSTER 6

Food Bioeconomy, Natural Resources, Agriculture & Environment



1. Staying healthy in a rapidly changing society
2. Living and working in a healthy promoting environment
3. Tackling disease and reducing disease burden
4. Ensuring access to innovative, sustainable and high-quality health care
5. Unlocking the full potential of new tools, technologies and digital solutions for a healthy society
6. Maintaining an innovative sustainable and globally competitive healthy related industry

1. Innovation research on democracy and governance
2. Innovative research on the European cultural heritage and the cultural and creative industries
3. Innovative research on social and economic transformations

1. Fighting crime and terrorism
2. Border management
3. Increased cybersecurity
4. Disaster resilience
5. Protecting critical infrastructures
6. Strengthening security research and innovation

1. Climate neutral, circular and digitised production
2. Increased autonomy in key strategic value chains for resilient industry
3. World-leading data and computing technologies
4. Digital & emerging technologies for competitiveness and fit for the green deal
5. Open strategic autonomy in developing, deploying and using global space-based infrastructures, services, applications data
6. A human-centered and ethical development of digital and industrial technologies

1. Climate sciences and responses for the transformation towards climate neutrality
2. Cross-sectoral solutions for the climate transition
3. Sustainable, secure and competitive energy supply
4. Efficient, sustainable, and inclusive energy use
5. Clean and competitive solutions for all transport modes
6. Safe, resilient transport and smart mobility services for passengers and goods

1. Biodiversity and ecosystem services
2. Fair, healthy and environment-friendly food systems from primary production to consumption
3. Circular economy and bioeconomy sectors
4. Clean environment and zero pollution
5. Land, ocean and water for climate action
6. Resilient, inclusive, healthy and green rural, coastal and urban communities
7. Innovative governance, environmental observations and digital solutions in support of the Green Deal

Pillar 2 Clusters: Conditions for Participation

➤ PARTICIPATION CONDITIONS FOR CONSORTIA - CLUSTERS

- Any type of organisation can apply for Horizon Europe funding
- For most calls for proposals, the consortium should be made up of at least:
 - 3 partner organisations from 3 different EU or Associated countries
 - At least one of the 3 partners must be from an EU country
 - Some calls require a multi-actor approach including end-users



➤ CLUSTER 2

- Universities and research institutes
- Local, regional and national public administrations
- Museums, cultural institutions and the cultural tourism industry
- Small and medium-sized enterprises (SMEs) in the field of digital technologies such as augmented reality and virtual reality
- Non-governmental organisations (NGOs) active in the field of migration and radicalisation

➤ CLUSTER 3

- Universities & research institutes, especially in the areas of cybersecurity, security R&I, information and communication technologies, Artificial Intelligence, social sciences and humanities
- Industry and SMEs in the fields of cybersecurity, security R&I, ICT, Artificial Intelligence
- European standardisation organisations
- Ministries, national & local authorities
- LEA's , border/custom authorities, crisis management security authorities, civil protection authorities
- Emergency services, hospital, medical centres
- First responders NGOs
- Critical infrastructure players

➤ CLUSTER 6

- Universities and research institutes
- Civil society organisations including NGOs and consumer associations
- Public administration including legislators and implementing authorities
- Industry and SMEs
- End-users, including but not limited to farmers, foresters, advisors, municipalities, water utilities, citizens' associations, professional associations

Types of Actions

| Action Type | Description of Project Expectations | Funding Rate |
|---|--|---|
| Research & Innovation Action (RIA) | <p>Research to establish new knowledge, explore the feasibility of a new or improved technology, product, process, service or solution</p> <ul style="list-style-type: none"> • Both basic and applied research, technology development and integration, testing, validation on a small-scale prototype in a laboratory or simulated environment • Limited demonstration or pilot activities aiming to show technical feasibility in a near to operational environment. | <p>100%</p> |
| Innovation Action (IA) | <p>Activities producing plans and arrangements or designs for new, altered or improved products, processes or services. Prototyping, testing, demonstrating, piloting, large-scale product validation and market replication of innovation already been demonstrated but not yet applied/deployed in the market . A ‘demonstration or pilot’ to validate new or improved technology, product, process, service or solution in an operational environment, larger scale prototype or demonstrator at system level in real life operating conditions. Projects may include limited research and development activities.</p> | <p>70% (except for non-profit legal entities, where a rate of 100% applies)</p> |
| Coordination and Support Action (CSA) | <p>Actions consisting primarily of accompanying measures such as standardisation, dissemination, awareness-raising and communication, networking, coordination or support</p> <ul style="list-style-type: none"> • services, policy dialogues and mutual learning exercises and studies, including design studies for new infrastructure and may also include complementary activities of strategic planning, networking and coordination between programmes in different countries. | <p>100%</p> |

PILLAR 3

INNOVATIVE EUROPE

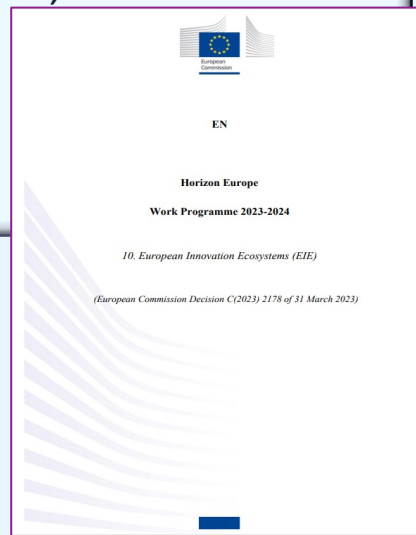
➤ The European Innovation Ecosystem (EIE)

- Creates more connected, efficient and improved innovation ecosystems
- Supports scaling of companies
- Encourages innovation
- Stimulates cooperation among innovation actors
- Synergises and compliments, EIC, EIT and other innovative activities across HE

➤ The European Institute of Innovation and Technology (EIT)

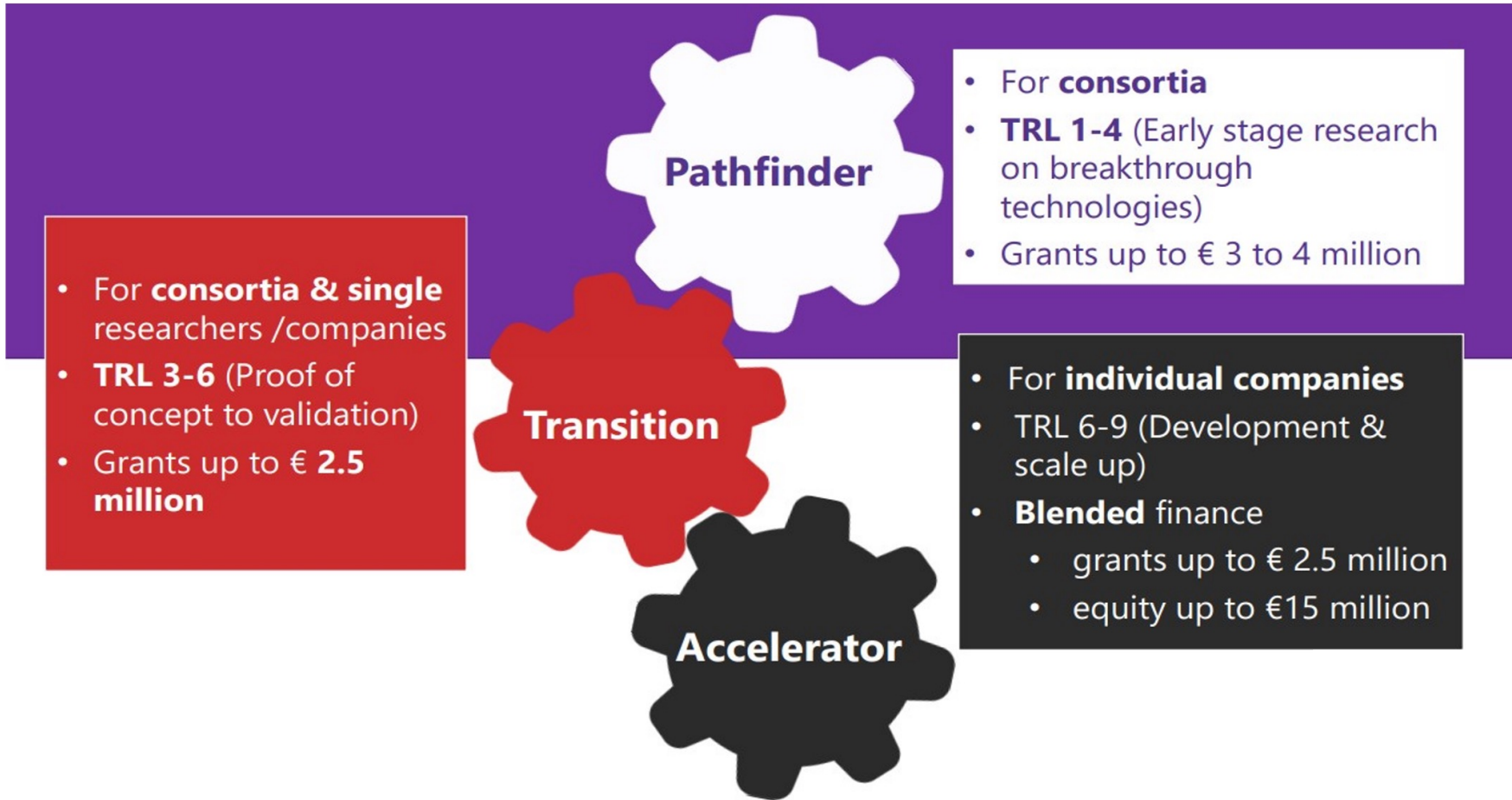
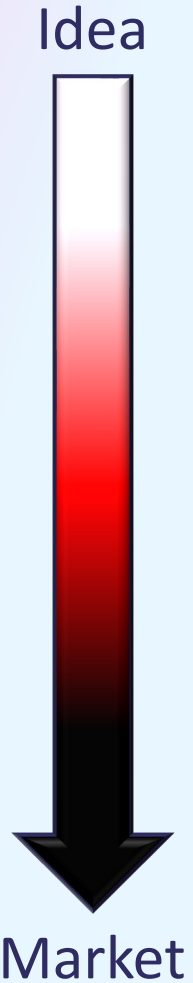
- Independent EU body that aims to increase Europe's ability to innovate
- Nurtures entrepreneurial talent and supports new ideas
- Supports those that bring new solutions to global societal challenges to the market
- Creates synergies and added value within Horizon Europe
- For more information go to:
 - [EIT at a glance | EIT \(europa.eu\)](#)

Work Programme



PILLAR 3 INNOVATIVE EUROPE

➤ European Innovation Council (EIC)



European Innovation Council



| | Supports | Project Participants | Funding | TRL | Description |
|-------------------------------|--|--|---|---|--|
| <u>EIC Pathfinder</u> | <ul style="list-style-type: none"> • visionary scientists • entrepreneurial researchers from • Universities • research organisations • start-ups • high-tech SMEs • industrial stakeholders | <ul style="list-style-type: none"> • Consortia • researchers and other partners from at least three different countries • also, opportunities for individual teams and small consortia up to two legal entities. | <p>Grants of up to €3-4M</p> | <p>1-4 up to proof of concept</p> | <ul style="list-style-type: none"> • OPEN CALLS & CHALLENGE CALLS • radically new technologies • high-risk / high gain • interdisciplinary cutting-edge science • underpin technological breakthroughs |
| <u>EIC Transition</u> | <ul style="list-style-type: none"> • Single applicants (SMEs, spin-offs, start-ups, research organisations, universities) | <ul style="list-style-type: none"> • Consortia & single • Researchers & companies • mono-beneficiary or • consortia up to 5 legal entities | <p>Grants of up to €2.5M</p> | <p>3-6 Proof of concept to validation demonstrate technology in application-relevant environment and develop market readiness</p> | <ul style="list-style-type: none"> • OPEN CALLS & CHALLENGE CALLS • validate & demonstrate technology (in relevant environment) & develop its market readiness. • supports maturation and validation of novel technology in the lab and in relevant application environments (e.g. prototypes, formulation, models, user testing or other validation tests). |
| <u>EIC Accelerator</u> | <ul style="list-style-type: none"> • Single start-up or SME (including spin-outs) • Small mid-caps (fewer than 499 employees) needing rapid scale up of the TRL 9 activity. Mid-caps can apply for investment only. • Natural persons or legal entities willing to set up an SMEs or a mid-cap. | <ul style="list-style-type: none"> • Individual companies • consortia of researchers and other partners from at least three different countries • also, opportunities for individual teams and small consortia up to two legal entities | <ul style="list-style-type: none"> • Grant of €2.5M is available for innovation development costs • direct equity investments offering between €0.5M and €15M for scale up & other relevant costs | <ul style="list-style-type: none"> • 5-8 for grant funding completion within 2 years • 9 for direct investment completion within 7 – 10 years • Development and scale-up | <ul style="list-style-type: none"> • OPEN CALLS & CHALLENGE CALLS • scale up high impact innovations with the potential to create new markets or disrupt existing ones. |

Horizon Europe Missions

- New concept for Horizon Europe 2021 - 2027
- To address some of the greatest societal challenges
- A new role for Research and Innovation - the heart of concrete solutions
- Inspirational: requiring SMART objectives: Specific, measurable, achievable, relevant and time-bound
- Supports Commission priorities and helps to deliver key EU policies
 - Mission Climate - Climate Adaptation Strategy
 - Mission Cancer – Beating Cancer Plan
 - Mission Soil – Long-term Vision for the EU’s Rural Areas
 - New European Bauhaus
 - European Green Deal
 - Europe fit for the Digital Age
- They are an ambitious commitment for transformation, engaging researchers and innovators, citizens and all interested stakeholders with their focus on people.
- The Missions have €5 billion (€1 billion for each mission) to fund these large ambitions from the Horizon budget



Horizon Europe Missions



Adaptation to
Climate Change

To foster the resilience for all, against the impact of climate change and become climate resilient by 2050 and support 150 European regions and communities to become climate resilient by 2030



Cancer

To improve the lives of more than 3 million people by 2030, through prevention and cure and for those affected by cancer including their families. To live longer and better and to optimise diagnostics and treatment



Restore our Oceans
and Waters by 2030

Aimed at restoring, protecting and preserving the health of oceans, seas and waters. Including reducing plastic litter at sea and restoring marine eco-systems and 25,000 km of free-flowing rivers



100 Climate Neutral and
Smart Cities by 2030

Cities produce more than 70% of global CO2 emissions so this mission commits to supporting cities to achieve climate neutrality through climate action plans, and to work further towards zero pollution.



A Soil Deal for Europe

To improve, protect and restore the health of soil through sustainable soil management for the benefit of food, people, nature and climate.

European Partnerships in Horizon Europe

Partnerships bring together the European Commission and private and/or public partners together to tackle the most pressing challenges

- Overcome fragmentation of research and innovation efforts in the EU
- Helps to avoid duplication of investments
- Strengthens the European Research Area
- To address cross-border societal challenges
- To create a more strategic, coherent and impact orientated approach to challenges
- Focusses and contributes to the EU's political priorities
- Short term and long-term aspirations
- 49 Candidate partnerships – consultation between the Commission and Member States (2021-2024)
- Partners can include:
 - Industry
 - Universities
 - Bodies with a public service mission (Local, regional, national and international)
 - Civil Society organisations (including foundations & NGO's)



European Partnerships in Horizon Europe

3 Types of European Partnerships:

➤ Co-Programmed Partnerships

- Partnerships between the Commission and mostly private partners (sometimes public partners)
- Cooperation based on Memoranda of Understanding and/or contractual arrangements
- The MoU specifies the partnerships objectives, commitments and governance
- €8 Billion funding for 2021 – 2030 funded by Horizon Europe grants
- Partnerships accounted for 62% of Transport budget in 2021/22 Work Programme

➤ Institutional Partnership

- Partnerships for R&I between the EU, Member States and /or industry
- Cooperation based on legislation
- Implementation through dedicated structures created for that purpose
- These partnerships accounted for 27% of Cluster 5 Budget over life of programme

➤ EIT Knowledge and Innovation Communities (KIC's)

- Also institutionalise partnerships
- Addresses skills shortages
- Key partners – higher education, research orgs, companies and other stakeholders

➤ Co-Funded Partnership

- Partnerships between EU countries with research funders and other public authorities at the core of the consortium



European Partnerships in Horizon Europe



Overview of 49 candidate European Partnerships

PILLAR II - Global challenges & European industrial competitiveness

PILLAR III - Innovative Europe

| CLUSTER 1: Health | CLUSTER 4: Digital, Industry & Space | CLUSTER 5: Climate, Energy & Mobility | CLUSTER 6: Food, Bioeconomy, Agriculture, ... | EIT | SUPPORT TO INNOVATION ECOSYSTEMS |
|---|--------------------------------------|---|--|----------------------------------|----------------------------------|
| Innovative Health Initiative | 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, Sustainable & Productive Blue Economy | Digital | |
| Chemicals risk assessment | European Metrology (Art. 185) | Europe's Rail | Water4All | Food | |
| ERA for Health | AI-Data-Robotics | Connected and Automated Mobility (CCAM) | Animal Health & Welfare* | Health | |
| Rare diseases* | Photonics | Batteries | Accelerating Farming Systems Transitions* | Raw Materials | |
| One-Health Anti Microbial Resistance* | Made in Europe | Zero-emission waterborne transport | Agriculture of Data* | Manufacturing | |
| Personalised Medicine* | Clean steel – low-carbon steelmaking | Zero-emission road transport | Safe & Sustainable Food System* | Urban Mobility | |
| Pandemic Preparedness* <i>Co-funded or co-programmed</i> | Processes4Planet | Built4People | | Cultural and Creative Industries | |
| | Global competitive space systems** | Clean Energy Transition | | | |
| | | Driving Urban Transitions | | | |

CROSS-PILLARS II AND 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

UK as a country ‘Associated’ to the Programme

The UK will be an [Associate Country](#) (AC) for the 2024 Work Programme onwards

➤ **UK contributes funding to the programme however:**

- EU decides where to allocate UK government contribution (paragraph 50 of [Regulation establishing Horizon Europe](#)) *“When allocating associated countries financial contributions to the Programme, the Commission should take into account the level of participation of legal entities of those third countries in the different part of the programme”*

➤ **Except in very few topic that are restricted (and are clearly marked as such):**

- UK organisations **are** fully eligible to coordinate proposals and projects
- UK organisations **are** classed as one of the minimum three different legal entities from three different eligible countries, as long at least one consortium member is also from a Member State, for proposal **and** project eligibility
- Successful UK organisations **are** funded by the EU as project participant beneficiaries.
- All you need to know so far
 - [Explainer document](#)
 - [UK Govt. press notice](#)
 - [EU Commission press notice](#)
 - [FAQ's](#)

What UK's Association from 2024 means in practice



All calls with 2021, 2022 or 2023 in the call identifier (e.g. HORIZON-EUSPA-2023-SPACE) regardless of call dates

- All UK legal entities fully eligible to apply for Horizon Europe other than specific topics as identified in the topic description
- UK Government Guarantee funds all successful UK organisations for the full duration of the project <https://www.ukri.org/apply-for-funding/apply-for-horizon-europe-guarantee-funding/>
- UK organisations **MUST** request funding from the EU as Beneficiaries and **MUST** be listed as Partners (NOT Associated Partners) in all proposals
- EU evaluation process treats UK organisations as if UK fully associated (as has always been the case)
- UK organisations may coordinate proposals but **NOT** projects and so another consortium partner must take this role in successful collaborative projects
- Funded project consortia must contain minimum eligible criteria PLUS the UK
- UK organisations **DO NOT** sign the Grant Agreement and change status to Associated Partners in collaborative proposals. Apply for UK Guarantee funding.

All calls with 2024, 2025, 2026 or 2027 in the call identifier (e.g. HORIZON-CL4-2024-SPACE-01) regardless of call dates

- All UK legal entities fully eligible to apply for Horizon Europe other than specific topics as identified in the topic description
- EU funds all successful UK organisations for the project's full duration https://ec.europa.eu/commission/presscorner/detail/en/qanda_23_4373
- UK organisations **MUST** request funding from the EU as Beneficiaries and **MUST** be listed as Partners (NOT Associated Partners) in all proposals
- EU evaluation process treats UK organisations as if UK fully associated (as has always been the case)
- UK organisations may coordinate proposals **AND** projects
- UK organisations **DO** sign the Grant Agreement
- Funded project consortia must contain minimum eligible criteria which can include the UK
- UK organisations **CAN** apply for 'EIC Accelerator Grant Only'. UK has **NOT** associated to the 'EIC Accelerator Fund'

Horizon Europe National Contact Points (NCPs)

Team of country based, sector specific, advisors to support everyone to successfully participate in EU Framework Programmes

- Raising Awareness of the programme
- Finding the right Topic
- Identifying the best ways to find partners
- Navigating the portal
- Developing the proposal
- Answering questions

- Supporting you to succeed!

Full list of UK
National Contact
Points

NCPs for Europe
and the rest of the
world



Support services – regional support

Northern Ireland

- [NICP \(Northern Ireland Contact Point\) Network](#): provides regional advice and support to potential NI Horizon Europe applicants by way of assistance with identifying areas of relevance within the competitive calls, help with application completion, identifying collaborative partners for applications, organising events & workshops, and engaging with National Contact Points

Scotland

- [Ann Marie Reid](#) **regional contact point** for Horizon Europe in Scotland based in Scotland Europa (Scottish Enterprise). Can provide expertise, advice and help coordinate access to a range of tailored support depending on needs

Wales

- [Horizon Europe Unit](#): dedicated team supporting Welsh organisations to access Horizon Europe opportunities. Based within the Welsh European Funding Office (WEFO), Welsh Government.
- **Horizon Europe Unit - SCoRE Cymru Scheme**: provides financial support, travel and expertise (bid writing) for Welsh organisations looking to access European research and innovation programmes like Horizon Europe. Further information is available by [emailing the Horizon Europe Unit](#)

1,2,3 - Getting Started

Welcome to the Participant Register

The Registration wizard will guide you through the registration process.

- Please have the relevant documents at hand, to make sure you fill in everything correctly.
- Registration will take 5-10 minutes. The system will automatically save your information if in case you need to close the wizard. Your data will be restored the next time when you re-enter the page.
- Your/organisation PIC number will be displayed at the end, when registration is complete.
PIC: Participant Identification Code

1

REGISTER YOUR ORGANISATION

Go to: [Funding & tenders \(europa.eu\)](https://ec.europa.eu/funding)

Click – ‘How to Participate’

Click – ‘Participant Register’

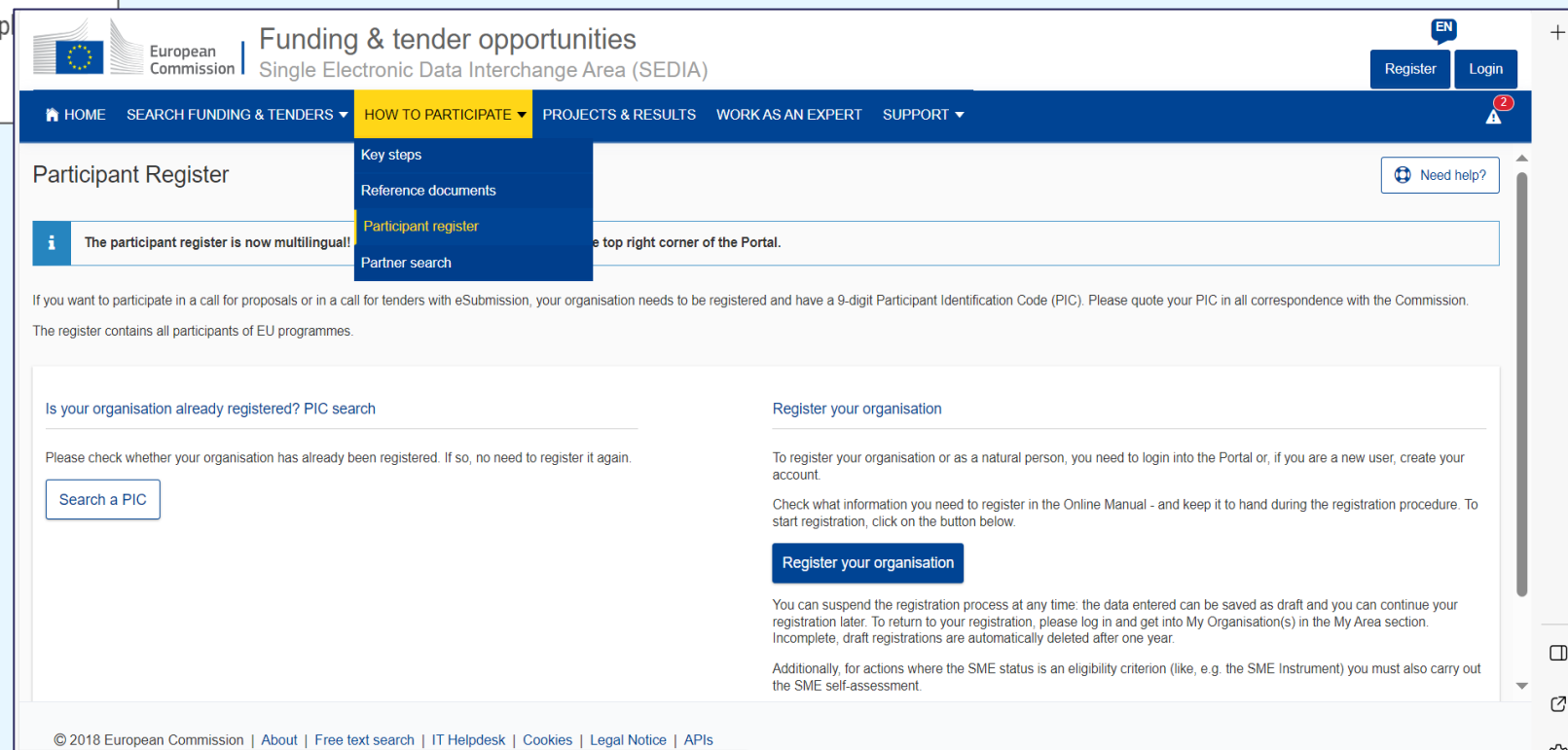
Click – ‘Register your organisation’

2

EXPLORE THE
[FUNDING AND TENDERS
PORTAL](#)

3

- [GET IN-TOUCH](#) with an NCP
- [SIGN UP TO THE UK NCP NEWSLETTER](#)
- [Check out the HE KTN website](#)



The screenshot shows the 'Funding & tender opportunities' portal. The navigation menu includes 'HOME', 'SEARCH FUNDING & TENDERS', 'HOW TO PARTICIPATE', 'PROJECTS & RESULTS', 'WORK AS AN EXPERT', and 'SUPPORT'. The 'HOW TO PARTICIPATE' menu is expanded, showing 'Key steps', 'Reference documents', 'Participant register', and 'Partner search'. The 'Participant register' section contains an information icon and the text: 'The participant register is now multilingual!'. Below this, there is a search box for 'Is your organisation already registered? PIC search' with a 'Search a PIC' button. To the right, the 'Register your organisation' section provides instructions and a 'Register your organisation' button. The footer contains copyright information: '© 2018 European Commission | About | Free text search | IT Helpdesk | Cookies | Legal Notice | APIs'.

