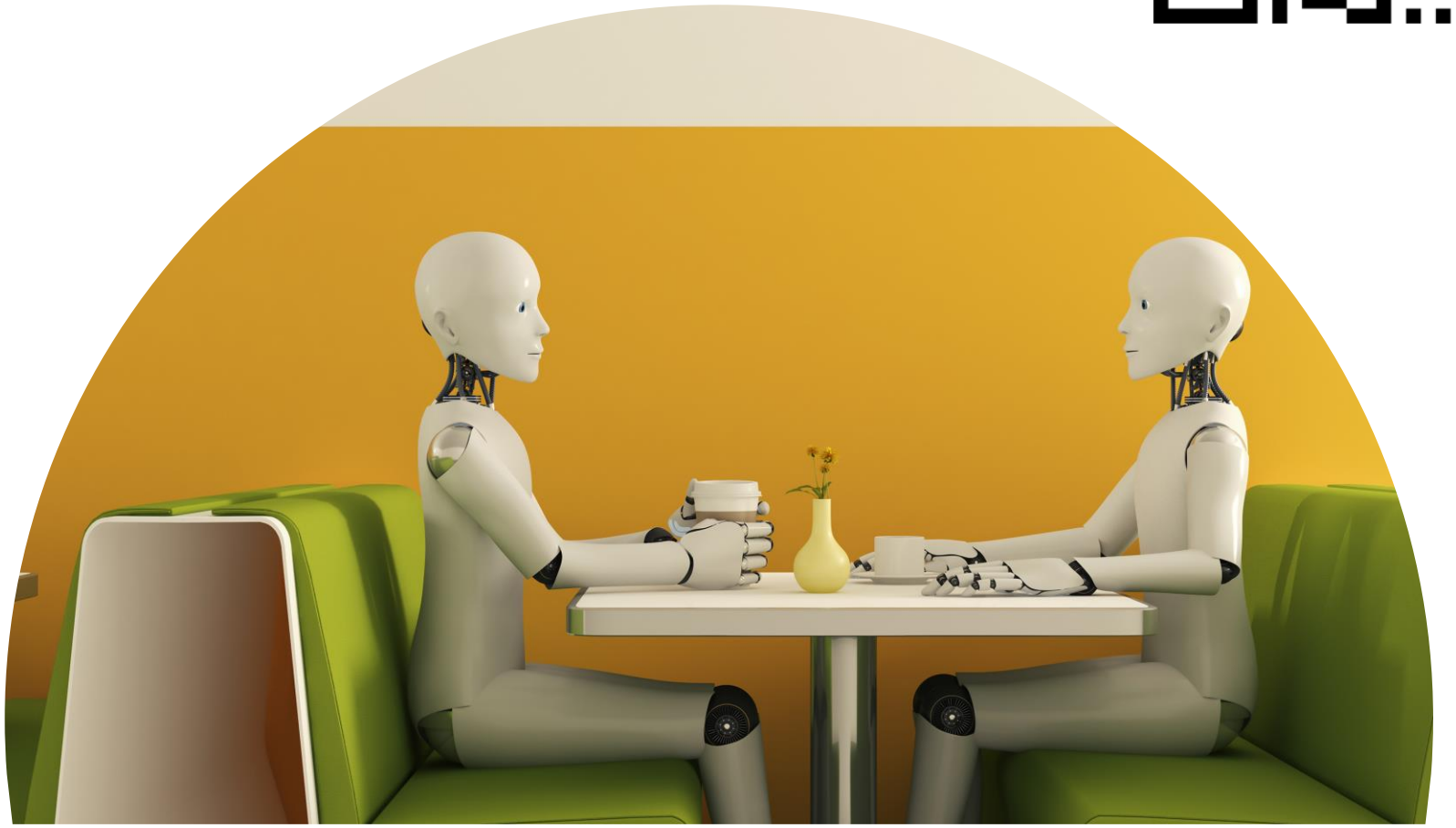
Horizon Europe Pillar II info session Webinar

26 June 2024
EURAXESS North America

Marta Marín, NCP Cluster 1 and Adeline Marcos, NCP Cluster 2

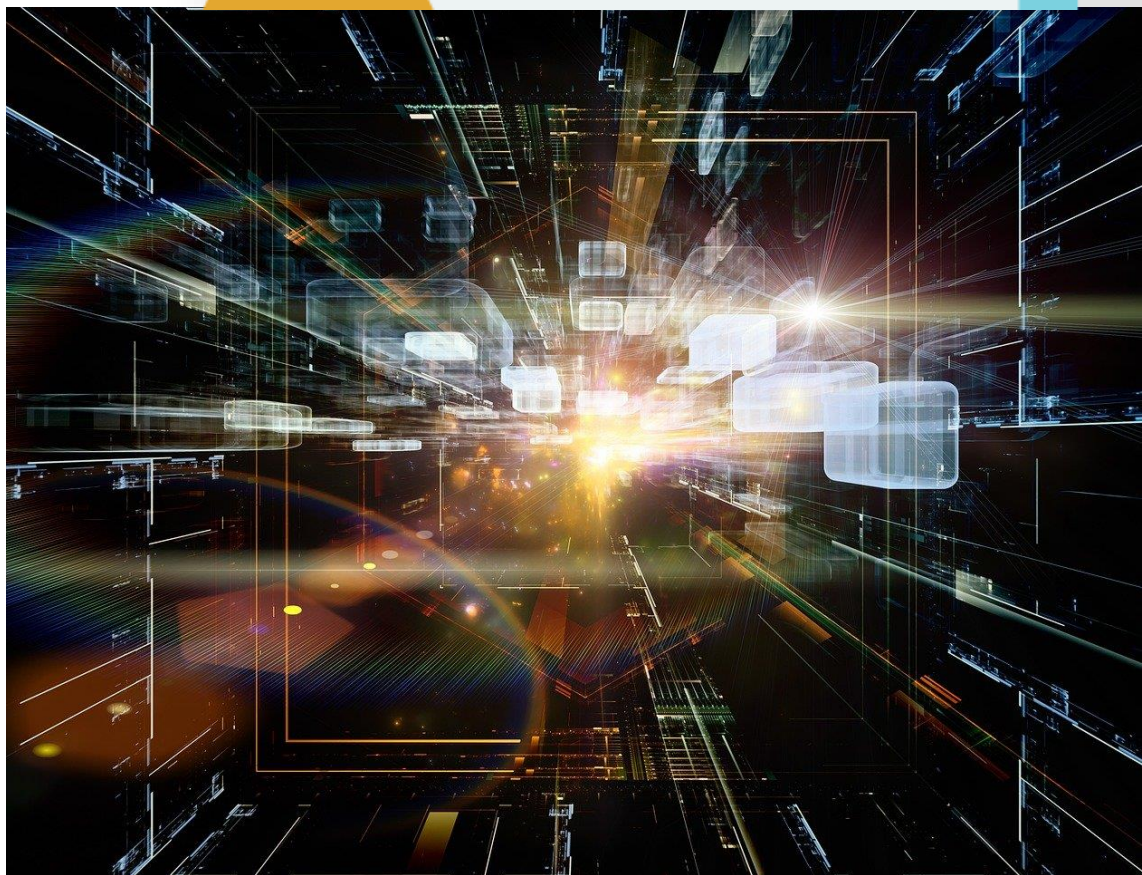
GOBIERNO DE ESPAÑA
MINISTERIO DE CIENCIA, INNOVACIÓN Y UNIVERSIDADES
FECYT INNOVACIÓN
oficina europea

Let’s first meet a bit more..

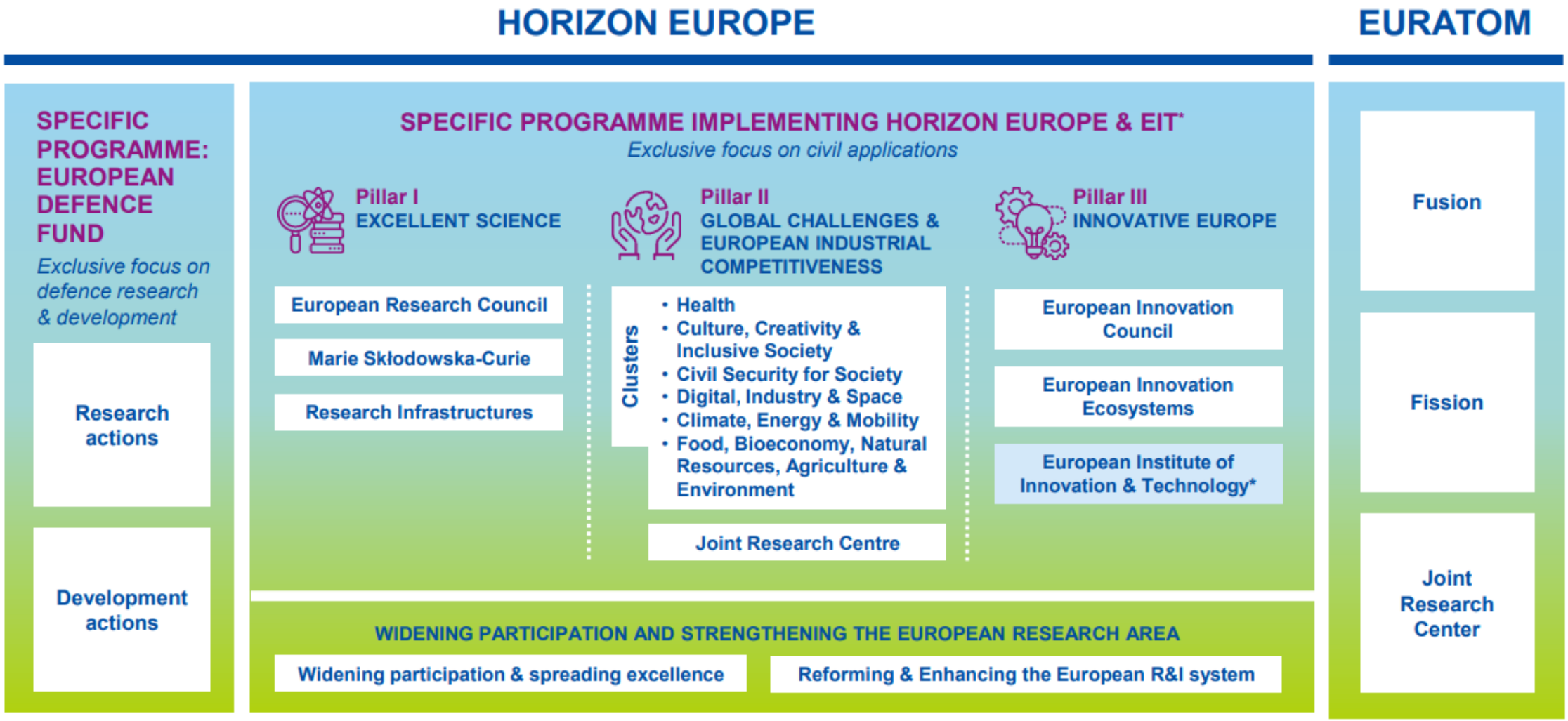


Horizon Europe

- It establishes R&I objectives and priorities, the actions to be developed and the EU budget.
- **Duration**: 7 years (2021-2027).
- **Focus**: areas of particular urgency and needs at European level.
- Expand and reinforce scientific knowledge in Europe, strengthen the scientific and technological base of European industry.



Horizon Europe structure



Main objetives

The ambitious EU research and innovation framework programme (2021-2027)

1. Fuel EU's scientific and technological excellence and the strengthen the **European Research Area** (ERA)

Science & technology

2. Tackle policy priorities, including **green** and **digital** transitions and the **Sustainable Development Goals**

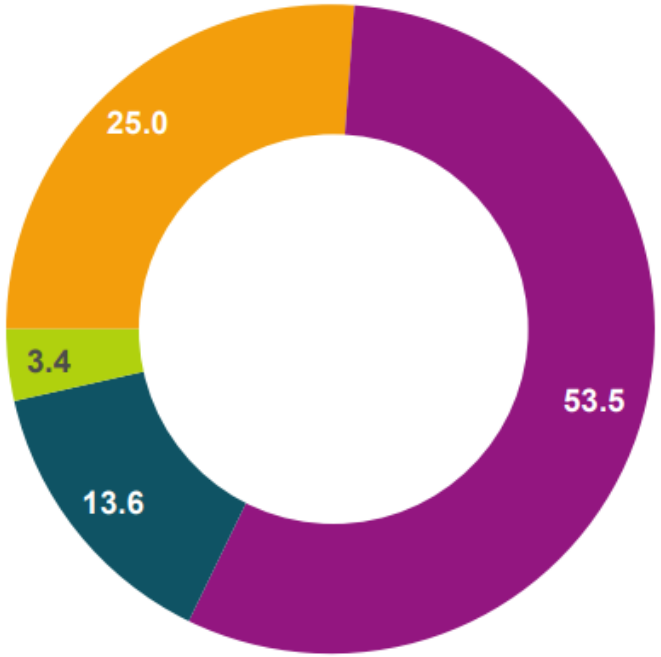
Society

3. Boost Europe's innovation uptake, competitiveness and jobs.

Economy

Horizon Europe Budget: €95.5 billion (2021-2027)

(including €5.4 billion from NGEU – Next Generation Europe – programme of EU for Recovery from COVID-19 crisis)



Political agreement December 2020

€ billion in current prices

- Excellent Science
- Global challenges and European ind. comp.
- Innovative Europe
- Widening Part and ERA

European Commission

HORIZON EUROPE
Strategic Plan 2021 - 2024
Strategic Plan Analysis
Strategic Plan 2025 - 2027
Work Programme 2021 - 2022
Work Programme 2023 - 2024
Work Programme
PROJECT
PROJECT
PROJECT
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PROJECT

Strategic Plan 2025-2027

The Horizon Europe 2025-2027 Strategic Plan guides research and innovation funding, addressing major global challenges such as climate change, biodiversity loss, digital transition and population ageing.

It sets out three strategic orientations for research and innovation investment under Horizon Europe for the years 2025-2027:

- **Green transition**
- **Digital transition**
- A more **resilient**, **competitive**, **inclusive** and **democratic** Europe

What’s new

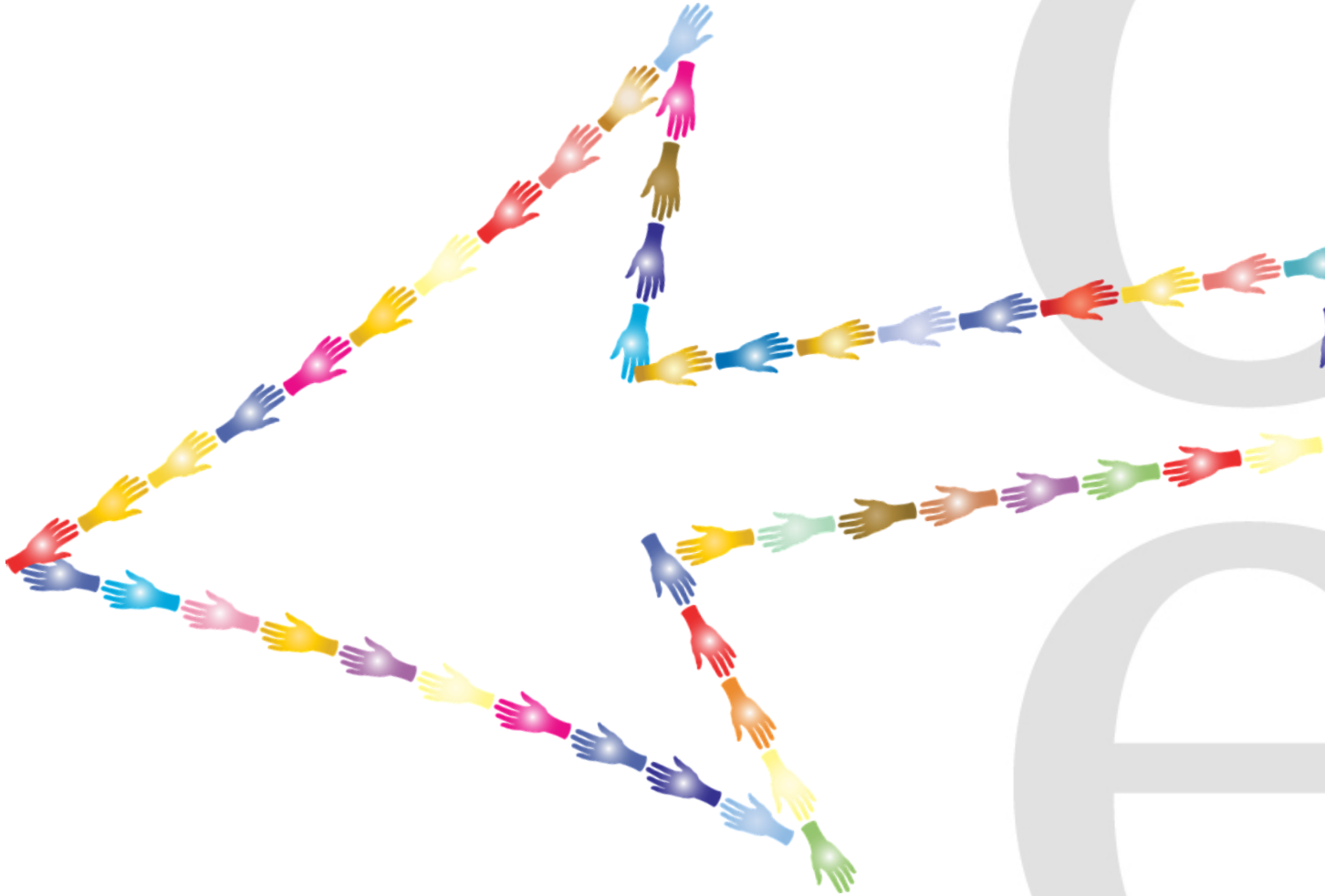
The strategic plan increases Horizon Europe's ambition on **biodiversity** and commits to dedicate 10% of the total Horizon Europe budget for 2025-2027 to these issues.

This new commitment complements existing climate spending targets:

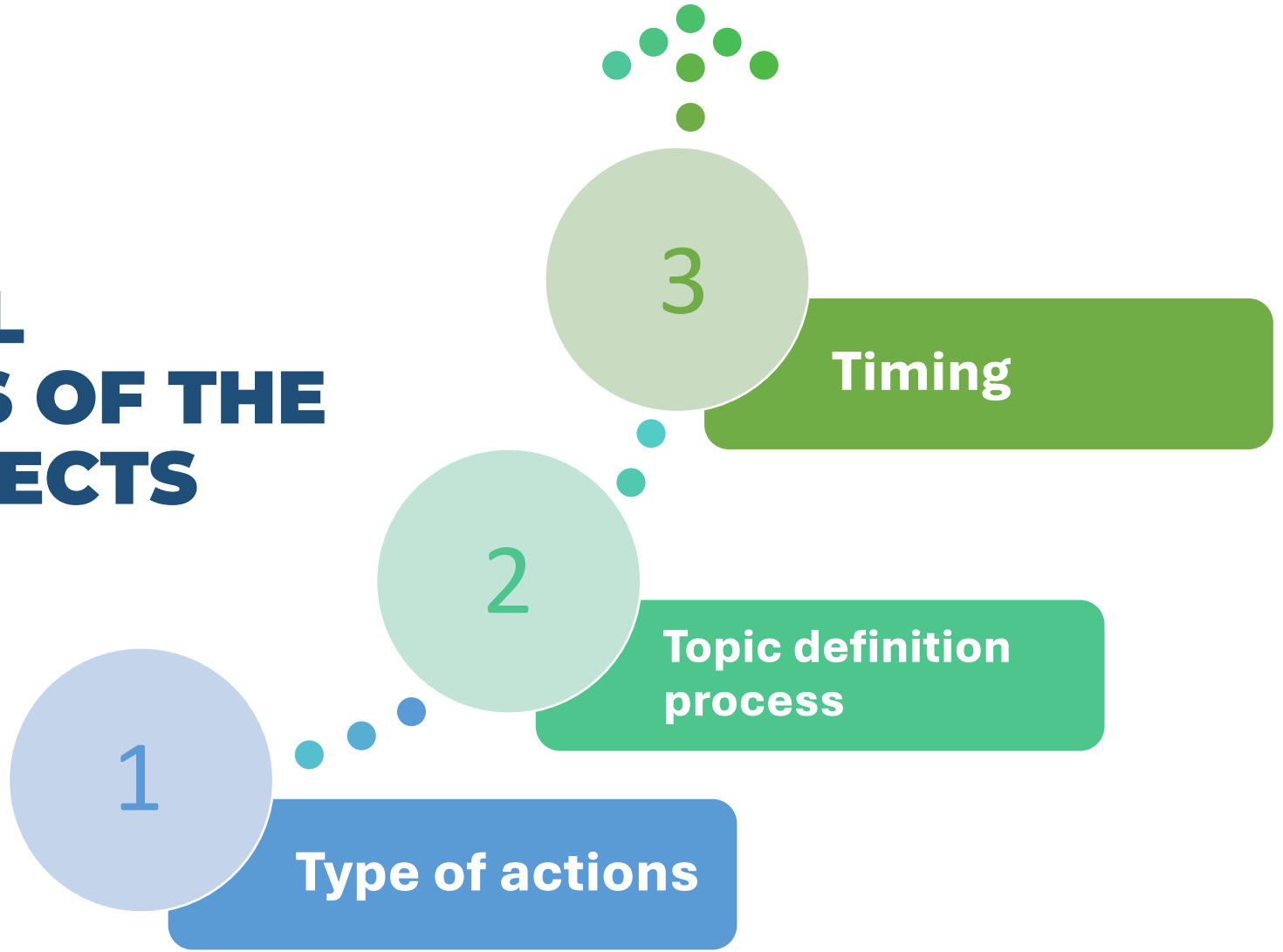
- 35% over the lifetime of Horizon Europe.
- Main digital activities: 13 billion over the same period.

To sum up

- **3 key strategic orientations** for research and innovation activities.
- 32 **expected impacts** distributed among clusters.
- 9 new co-programmed and co-financed **Partnerships**
- **EU Missions** and summary of their achievements in the first years
- New European Bauhaus facility



GENERAL ASPECTS OF THE HE PROJECTS



Type of actions

Activities to establish **new knowledge** or to explore the feasibility of a new or improved technology, product, process, service or solution. This may **include basic and applied research, technology development and integration, testing, demonstration and validation of a small-scale prototype** in a laboratory or simulated environment.
Aprox up to TRL 5

Activities to produce plans and arrangements or designs for new, altered or improved products, processes or services. These activities may include **prototyping, testing, demonstrating, piloting, large-scale product validation and market replication**.

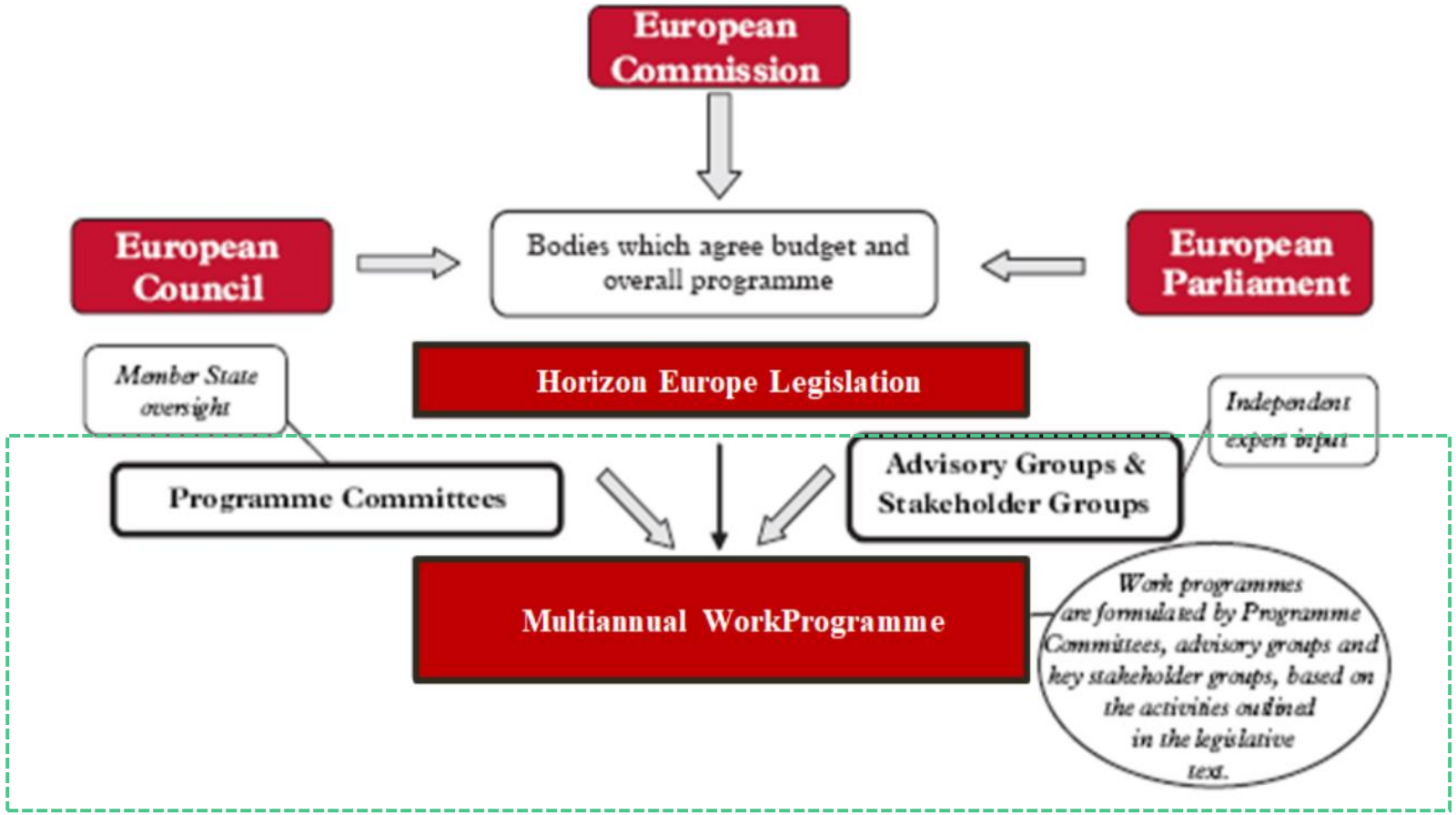
Activities that contribute to the objectives of Horizon Europe. This **excludes R&I activities**. Activities eligible are **bottom-up coordination actions** which promote cooperation between legal entities from Member States and Associated Countries

Funding

Maximum funding rate per type of action

Type of Action	Funding rate
RIA (Research and innovation action)	**100%**
IA (Innovation action)	**70%** (except for non-profit legal entities, where a rate of up to 100% applies)
CSA (Coordination and support action)	**100%**
CoFund (Programme co-fund action)	Between **30% and 70%**
IMDA (Innovation and market deployment)	**70%** (except for non-profit legal entities, where a rate of up to 100% applies)
TMA (Training and mobility action) – (MSCA)	**100%**
PCP (Pre-commercial procurement action)	**100%**
PPI (Public procurement of innovative solutions action)	**50%**

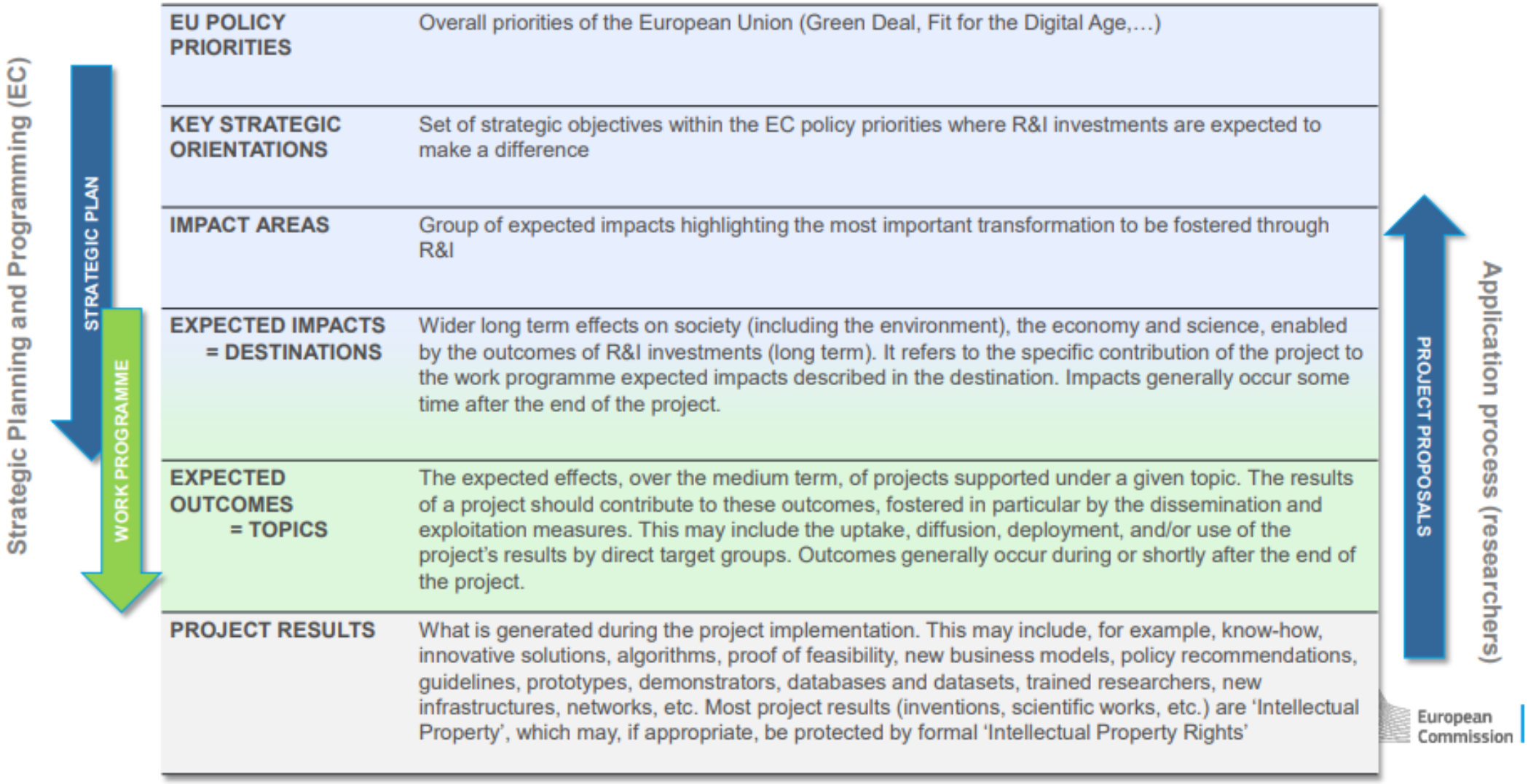
Topic definition process



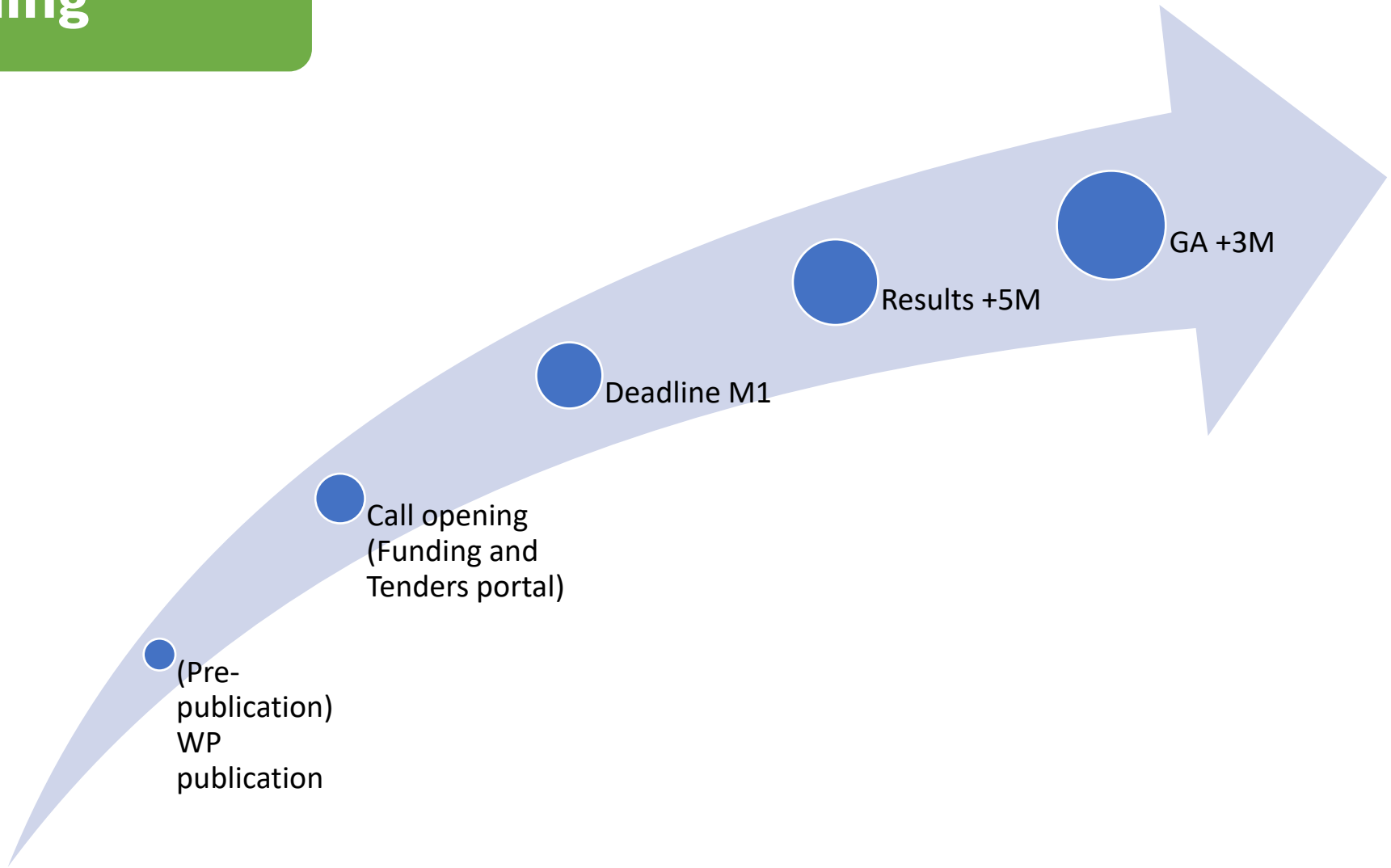
*PC: member states representative and experts + several Directorate-General involved in the cluster, e.g. HealthPC: DG-RTD, DG-CNECT, DG-SANTE, DG-HERA

Program Committee Members (pre-publication)
Vs
National Contact Points (after publication)

Link between policy priorities and project results



Timing


(Pre-publication) WP publication
Call opening (Funding and Tenders portal)
Deadline M1
Results +5M
GA +3M

Pilar II

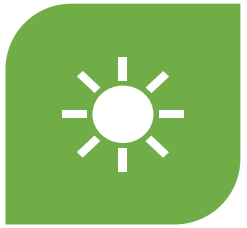
GLOBAL CHALLENGES & EUROPEAN INDUSTRIAL COMPETITIVENESS

HEALTH

CULTURE , CREATIVITY & INCLUSIVE SOCIETY

CIVIL SECURITY FOR SOCIETY

DIGITAL, INDUSTRY & SPACE



CLIMATE, ENERGY & MOBILITY

FOOD , BIOECONOMY , NATURAL RESOURCES, AGRICULTURE & ENVIRONMENT

Pillar II

Budget for clusters & for JRC

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**

Clusters are including a budget for Partnerships and Missions
NGEU is Next Generation EU programme – Recovery Fund

European Commission

Cluster 1

Health

Intervention Areas

INTERVENTION AREAS

- **Health throughout the life course.**
- **Environmental and social health determinants.**
- **Non-communicable and rare diseases.**
- **Infectious diseases including poverty-related and neglected diseases.**
- **Tools, technologies and digital solutions for health and care including personalised medicine.**
- **Health care systems**

From the Strategic Plan to the Topics

EXPECTED IMPACTS = DESTINATIONS

- Staying healthy in a rapidly changing society
- Living and working in a health-promoting environment
- Tackling diseases and reducing disease burden
- Ensuring equal access to innovative, sustainable, and high-quality healthcare
- Developing and using new tools, technologies and digital solutions for a healthy society
- Maintaining an innovative, sustainable, and competitive EU health industry

From the Strategic Plan to the Topics

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Characteristics of Topics

- Disease agnostic
- Involvement of end users, usually patient, healthcare professionals, informal caregivers,..
- Preclinical and Clinical studies, up to Phase 2b can be performed
- Inclusion of Social Sciences and Humanities (SSH)
- Societal impact
- Thresholds: 4/5 Excellence, 4/5 Impact, 3/5 Implementation, cumulative 12/15

Health Cluster

Health Cluster
8.246M€

- Work Programme
- Cancer Mission (≤10% Pilar II)
- Partnerships (<50% Pilar II)

innovative health initiative
EDCTP
THCS
PARC
ERA4Health Partnership
EP PerMed
European Partnership for Personalised Medicine

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Health Cluster partnerships *Canada

EU MISSIONS

EU Missions are a new (HE) way to bring concrete solutions to some of our greatest challenges in health, climate change, water…

- ✓ Missions include research and innovation projects and new policies and regulations.
- ✓ They have ambitious goals and will deliver **concrete results by 2030**
- ✓ EU Missions support Europe's transformation into a greener, healthier, more inclusive and resilient continent. They aim to bring **tangible benefits to people** in Europe and **engage Europeans** in their design, implementation and monitoring.

Cancer Mission: to improve the lives of more than 3 million people by 2030 through prevention, cure and solutions to live longer and better

Cancer Mission - WP2021-2024

- Mission-guiding principles
- Mission clusters
- Synergy Europe's Beating Cancer Plan

Mission on Cancer:
By 2030, more than 3 million lives saved, living longer and better

Ensure equitable access

Prevent what is preventable

Optimise diagnostics and treatment

Support quality of life

Understand

Develop new methods and technologies for screening and early detection
HORIZON-MISS-2021-CANCER-02-01

Improving and upscaling primary prevention of cancer through implementation research
HORIZON-MISS-2022-CANCER-01-01

Enhance cancer prevention through behaviour change
HORIZON-MISS-2023-CANCER-01-02

Early detection heritable cancers in European regions
HORIZON-MISS-2024-CANCER-01-03

Develop and validate a set of quality-of-life measures for cancer patients and survivors
HORIZON-MISS-2021-CANCER-02-02

Towards the creation of a European Cancer Patient Digital Centre
HORIZON-MISS-2022-CANCER-01-04:

Improve quality of life for survivors of childhood cancer (Best practices and tools)
HORIZON-MISS-2023-CANCER-01-04

Improving the understanding and management of late-effects in adolescents and young adults
HORIZON-MISS-2024-CANCER-01-05

An information portal for the European Cancer Patient Digital Centre
HORIZON-MISS-2024-CANCER-01-06

Preparing UNCAN.eu, a European initiative to understand cancer
HORIZON-MISS-2021-UNCAN-01-01

Better understand healthy versus cancer cells at individual and population level
HORIZON-MISS-2021-CANCER-02-03

Better understand tumour-host interactions in cancer patients
HORIZON-MISS-2023-CANCER-01-01

Use cases for the UNCAN.eu research data platform
HORIZON-MISS-2024-CANCER-01-01

Pragmatic clinical trials to optimise treatment for cancer patients
HORIZON-MISS-2022-CANCER-01-03

Strengthen research capacities of comprehensive cancer infrastructures
HORIZON-MISS-2022-CANCER-01-02

Pragmatic clinical trials minimally invasive diagnostics
HORIZON-MISS-2023-CANCER-01-03

Support a pragmatic clinical trial programme by cancer charities
HORIZON-MISS-2024-CANCER-01-04

Creation of national cancer mission hubs - HORIZON-MISS-2022-CANCER-01-05

National cancer data nodes - HORIZON-MISS-2024-CANCER-01-02

Cluster 2

Culture, Creativity and Inclusive Society

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FECYT INNOVACIÓN

Objetives

- Strengthen European **democratic values**, including the rule of law and fundamental rights, and improve democratic **governance** and **citizen participation**.
- Safeguarding and promoting **cultural heritage**.
- Respond to and shape "social, economic, technological and cultural **transformations**" that contribute to inclusion and growth.

How?

- By mobilising the **multidisciplinary expertise** of European social sciences and humanities.
- By providing **evidence-based policy** options for a socially just and inclusive European recovery.

Destinations

Democracy and gobernance

Strengthen democratic values, including the rule of law and fundamental rights.

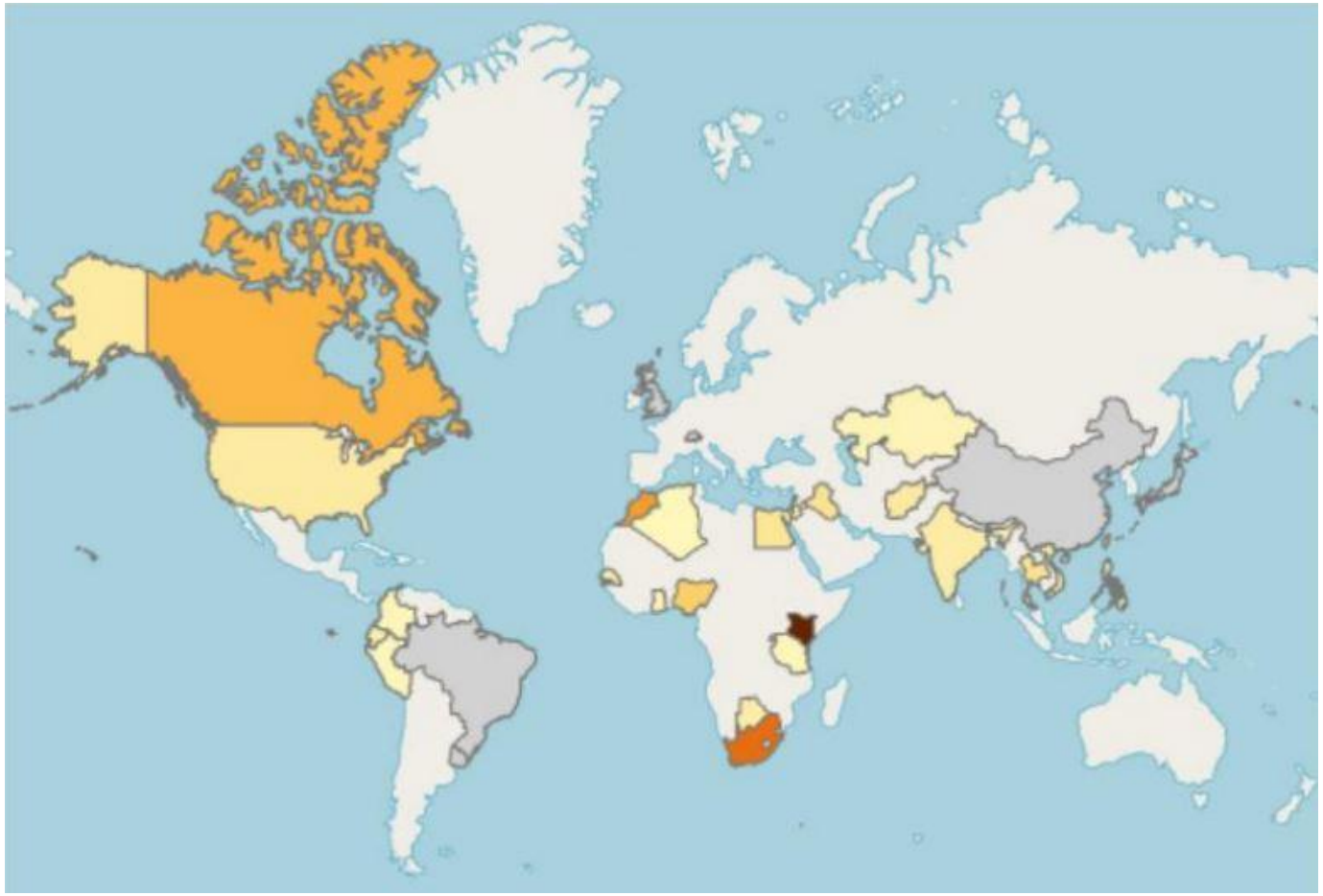
Culture, creativity and cultural heritage

Safeguarding our cultural heritage, exploring the potential of cultural and creative industries.

Socio-economic transformations

Promote socio-economic transformations that contribute to inclusion, growth and migration or labour market management..

Non-associated country participation in Cluster2



- 196 participations (including 65 from UK, 18 from Switzerland, 12 US).
- 72 participations from outside Europe.
- Total EU contribution of 5.76 M€.

•Updated list of Associated countries and those under association process, and the list of low and middle-income third countries, which receive automatic funding

Cluster 3

Civil security for society

Areas of intervention

Disaster-resilient societies

It will focus on the development of capacities and technologies for first responders and emergency teams for the prevention, preparedness, response and mitigation of such disasters, both natural and man-made, and associated with climate change or extreme events.

Protection and security

This area will cover threats to citizens such as criminal and terrorist activities, hybrid threats, protection of public spaces and critical infrastructure, victim support, anti-money laundering, piracy and smuggling, border control and protection (land, air and maritime) and the free and safe movement of citizens and goods.

Cybersecurity

Improve resilience to cyber-attacks and counteract them. The rights of citizens in terms of data protection will be strengthened and work will be done to provide the European Union with strategic autonomy in cybersecurity technologies.

Destinations

Cluster 4

Digital, Industry and Space

Strengthen capabilities and ensure EU sovereignty in key enabling technologies for digitization and production, as well as in space technology along the entire value chain, in order to build a **competitive, digital, low-emission and circular industry; secure a sustainable supply of raw materials**; **develop advanced materials** and provide the basis for breakthroughs and innovation in relation to global societal challenges for society

DESTINATIONS

- **Climate neutral, circular and digitised production**
- **Increased autonomy in key strategic value chains for resilient industry**
- **World leading data and computing technologies**
- **Digital and emerging technologies for competitiveness and fit for the Green Deal**
- **Open strategic autonomy in developing, deploying and using global space-based infrastructures, services, applications and data**
- **A human-centred and ethical development of digital and industrial technologies.**

Cluster 5

Climate, Energy and Mobility

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Objetives

This cluster aims to fight **climate change** by better understanding its causes, evolution, risks, impacts and opportunities, and by making the energy and transport sectors more climate and environment-friendly, more efficient and competitive, smarter, safer and more resilient.

Areas:

- climate science and solutions
- energy supply
- energy systems and grids
- buildings and industrial facilities in energy transition
- communities and cities
- industrial competitiveness in transport
- clean, safe and accessible transport and mobility
- smart mobility
- energy storage

Cluster 6

Food, Bioeconomy, Natural Resources, Agriculture & Environment

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Objetives

- ❑ To reduce environmental degradation, halt and reverse the decline of biodiversity on land, inland waters and sea.
- ❑ To better manage natural resources through transformative changes of the economy and society in both urban and rural areas.

➡ It will ensure **food and nutrition security** for all within planetary boundaries through knowledge, innovation and digitalisation in agriculture, fisheries, aquaculture and food systems.

➡ I will steer and accelerate the **transition** to a low carbon, resource efficient circular economy and **sustainable bioeconomy**, including forestry.

Areas:

- environmental observation
- biodiversity and natural resources
- agriculture, forestry and rural areas
- seas, oceans and inland waters
- food systems
- bio-based innovation systems in the EU's bioeconomy
- circular systems

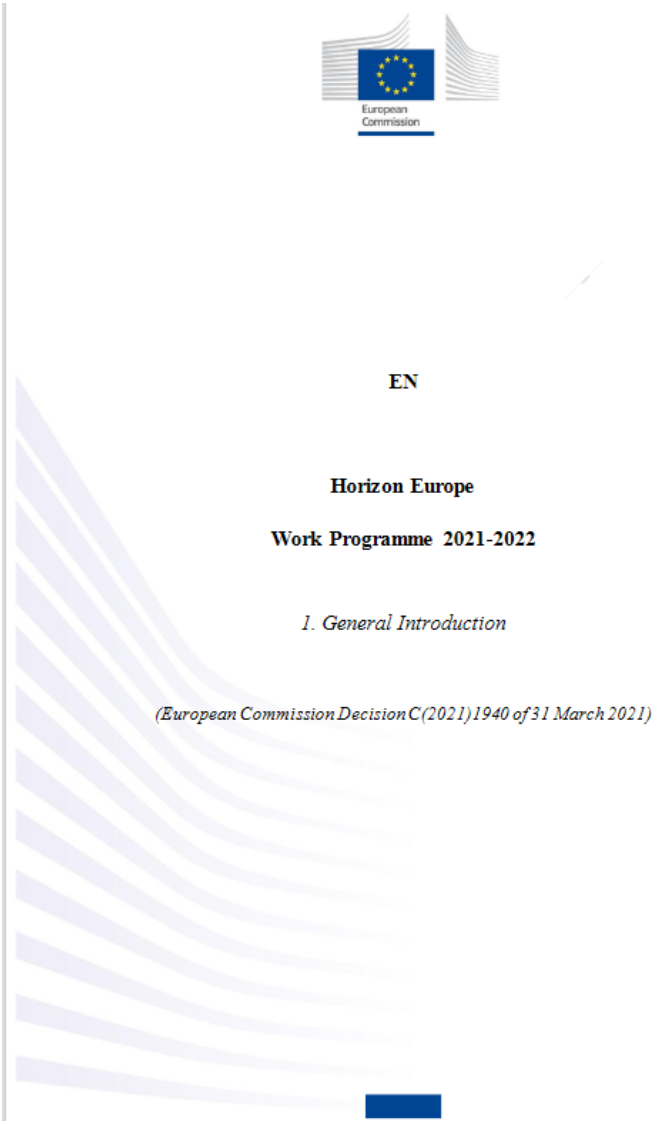
Common rules

- Consortia projects with a minimum of **3 EU or associated countries** (at least one Member State).
- Common **funding instruments** (RIA, IA, CSA, etc.)
- **Biannual** Work Programmes
- **Top-Down** (pre-defined topics)
- **Synergies** between clusters
- **SSH** and **Open Science**

Work programmes-Calls-Topics

Biannual Work Programmes - annual calls:

- ❑ Introduction: expected impact, priorities and objectives
- ❑ Thematic sections:
  - General objectives
  - Calls for proposals
  - Research topics for each call


European Commission

EN

Horizon Europe

Work Programme 2021-2022

1. General Introduction

(European Commission Decision C(2021)1940 of 31 March 2021)

EN

Horizon Europe

Work Programme 2023-2024

4. Health

(European Commission Decision C(2023) 2178 of 3

Horizon Europe - Work Programme 2023-2024
Health

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HORIZON-HLTH-2024-ENVHLTH-02-06-two-stage: The role of environmental pollution in non-communicable diseases: air, noise and light and hazardous waste pollution 53

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DESTINATIONS

- EC policies
- Expected impacts

CALL/TOPICS

- Specific conditions (participation US, blind evaluation, lump sum,…)
- Type of action RIA, IA, CSA
- Topic Budget (orientation!)
- Scope
- Expected outcomes
- SSH, synergies JRC
- Preclinical/ Clinical stage
- Clinical Studies Anex

Participation of US and Canada in Horizon Europe

PARTICIPATION VS FUNDING

Who is eligible for funding?

EU COUNTRIES

- Member States (MS) including their outermost regions.
- The Overseas Countries and Territories (OCTs) linked to the MS.

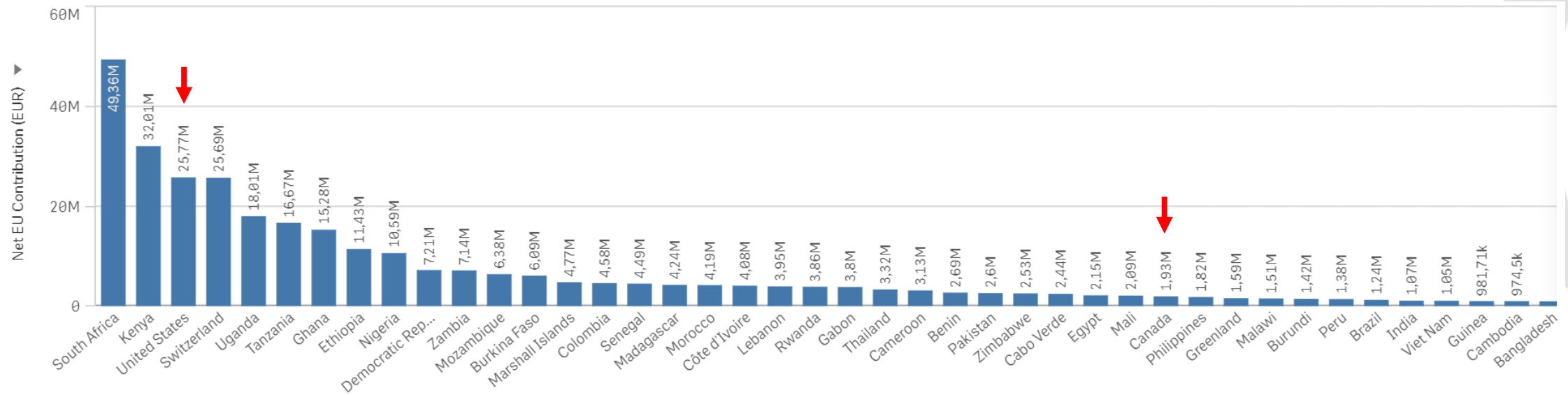
NON-EU COUNTRIES

- Countries associated to Horizon Europe (AC).
- Low- and middle-income countries: See HE Programme Guide.
- Other countries when announced in the call or exceptionally if their participation is essential.

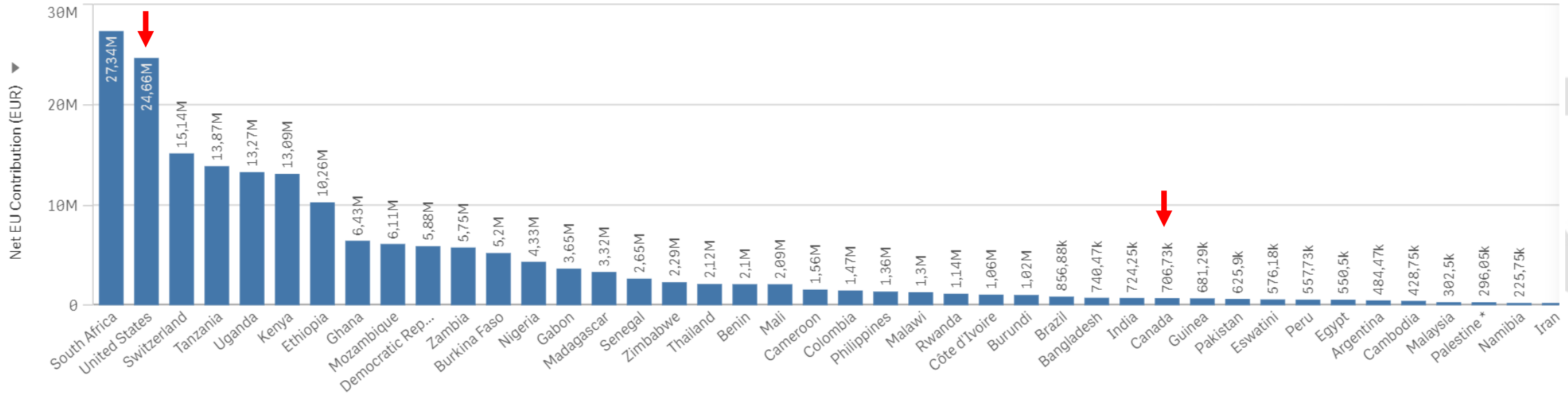
SPECIFIC CASES

- Affiliated entities established in countries eligible for funding.
- EU bodies
- International organisations (IO):
  - International European research organisations are eligible for funding.
  - Other IO are not eligible (only exceptionally if participation is essential)
  - IO in a MS or AC are eligible for funding for Training and mobility actions and when announced in the call conditions.

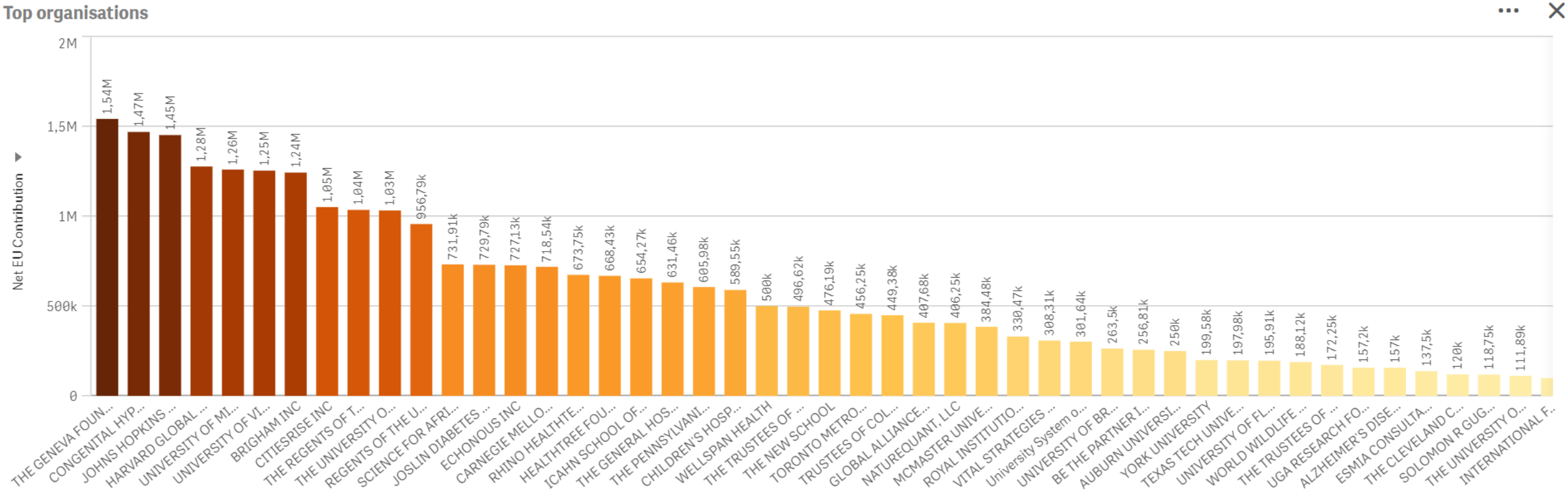
Non-associated Third Country Participation in Pilar II HE



Non-associated Third Country Participation in Pilar II Health



Top participating entities in HE in US and Canada



Net EU Contribution	Signed Grants	Participation	Unique Participation	Success rate	Eligible Proposals	Applications
27,7M	181	260	203	91,86%	184	258
Funding received by the project's participants	*Number of grant agreements signed,*	*Number of organisations involved in HORIZON*	*Number of unique organisations involved in*	*Ratio of the retained applicantions to the total number of eligible*	*Proposals that have not failed at the eligibility or admissibility step of the*	*Number of organisations applying for HORIZON EUROPE grants. One*

Participation of US and Canada in HE:

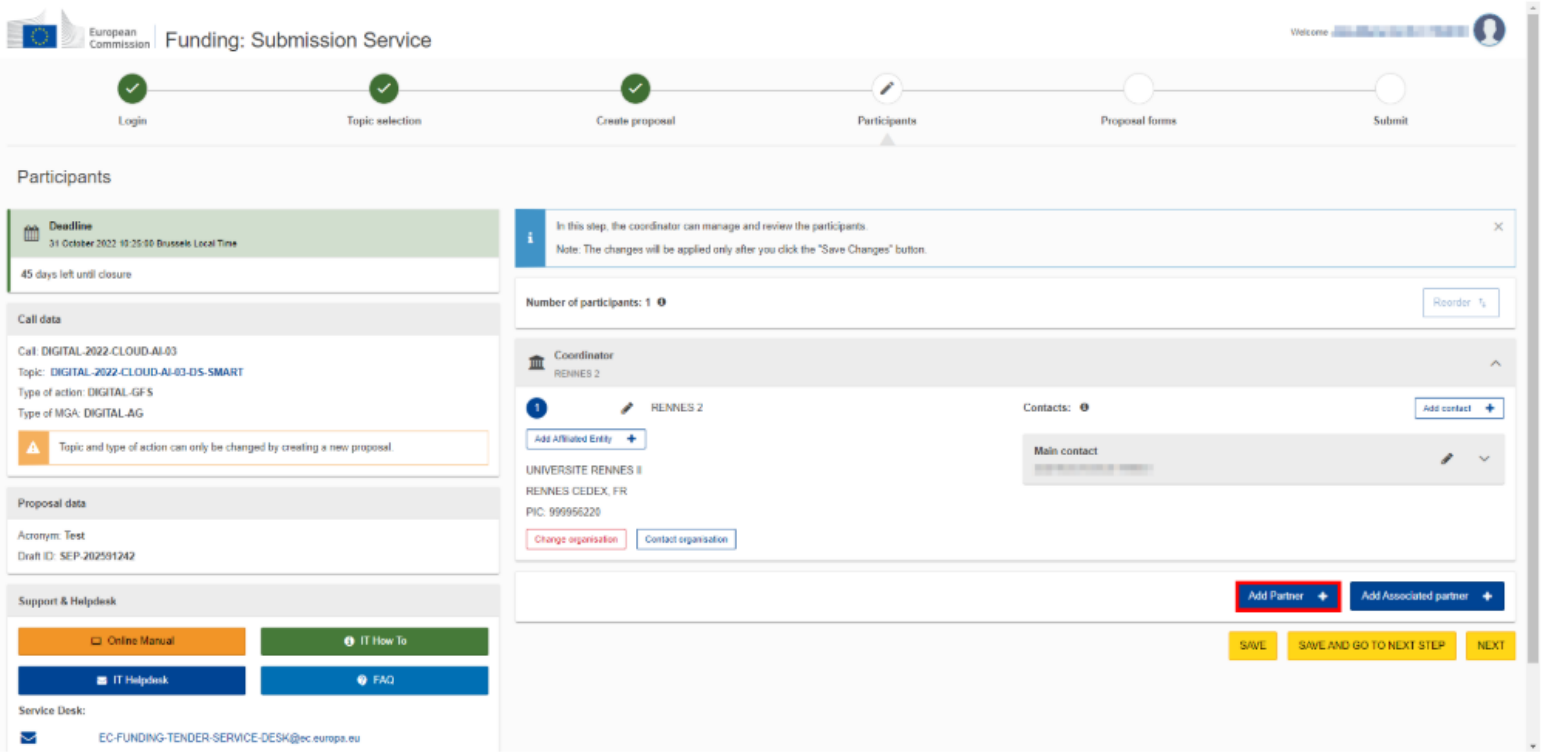
	US	Canada *retroactive association 1/01/2024
HE Pilar II	Non-associated third Country (F&T: Associated Partner, non EU funding but complementary mechanism) No coordinator, WPLead	Associated Country (F&T:Partner, EU funding) Coordinator, WPLead
HE Pilar II – Health Cluster	Non-associated third Country (F&T:Partner, EU funding) Coordinator, WPLead	Associated Country (F&T:Partner, EU funding) Coordinator, WPLead

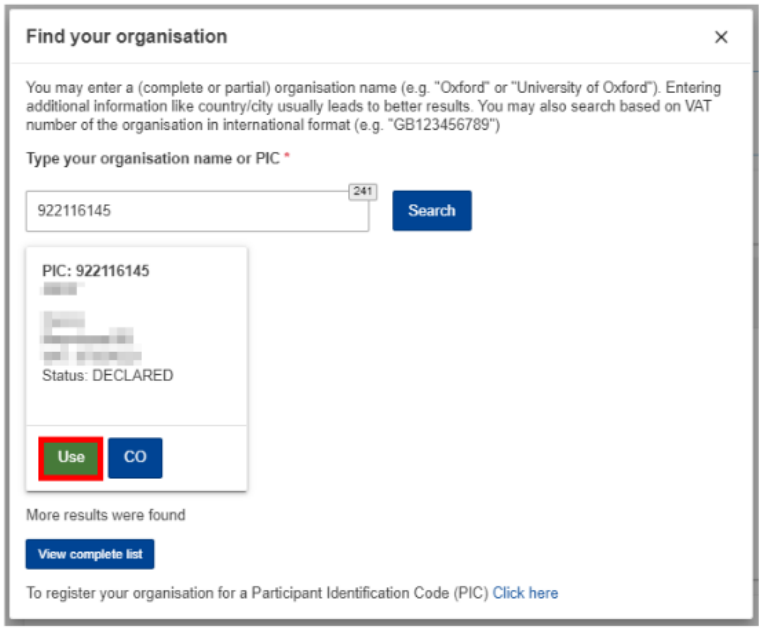
Eligibility conditions	The conditions are described in General Annex B. The following exceptions apply: In recognition of the opening of the US National Institutes of Health's programmes to European researchers, any legal entity established in the United States of America is eligible to receive Union funding. If projects use satellite-based earth observation, positioning, navigation and/or related timing data and services, beneficiaries must make use of Copernicus and/or Galileo/EGNOS (other data and services may additionally be used).

Until association agreements start producing legal effects either through provisional application or their entry into force, transitional arrangements may apply if provided for in the particular Horizon Europe Work Programme. The transitional arrangements apply with regard to the following countries and legal entities established in these countries, with which association negotiations are being processed or where association is imminent (*listed in the alphabetical order*):

1. Canada (applicable to Pillar II 'Global Challenges and European Industrial Competitiveness', including for the institutionalised European partnerships, and for award procedures implementing Union budget for the year 2024 and onwards)

Participation of US and Canada in HE:





Participation of US and Canada in HE at proposal level:

1.2 Methodology #@CON-MET-CM@# #@COM-PLE-CP@# *[e.g. 14 pages]*

- Describe and explain the overall methodology, including the concepts, models and assumptions that underpin your work. Explain how this will enable you to deliver your project's objectives. Refer to any important challenges you may have identified in the chosen methodology and how you intend to overcome them. *[e.g. 10 pages]*
- Describe any national or international research and innovation activities whose results will feed into the project, and how that link will be established. *[e.g. 1 page]*
- Explain how expertise and methods from different disciplines will be brought together and integrated in pursuit of your objectives. If you consider that an inter-disciplinary approach is unnecessary in the context of the proposed work, please provide a justification. *[e.g. 1/2 page]*

2.2 Measures to maximise impact - Dissemination, exploitation and communication #@COM-DIS-VIS-CDV@# *[e.g. 5 pages, including section 2.3]*

- Describe the planned measures to maximise the impact of your project by providing a first version of your 'plan for the dissemination and exploitation including communication activities'. Describe the dissemination, exploitation and communication measures that are planned, and the target group(s) addressed (e.g. scientific community, end users, financial actors, public at large).

⚠ *If exploitation is expected primarily in non-associated third countries, justify by explaining how that exploitation is still in the Union's interest.*

Table 3.1f: Summary of staff effort

Please indicate the number of person/months over the whole duration of the planned work, for each w package, for each participant. Identify the work-package leader for each WP by showing the relevant pers month figure in bold.

	WPn	WPn+1	WPn+2	Total Person-Months per Participant
Participant Number/Short Name				
Participant Number/ Short Name				
Participant Number/ Short Name				
Total Person Months				

3.2 Capacity of participants and consortium as a whole #@CON-SOR-CS@# #@PJ-MGT-PM@# *[e.g. 3 pages]*

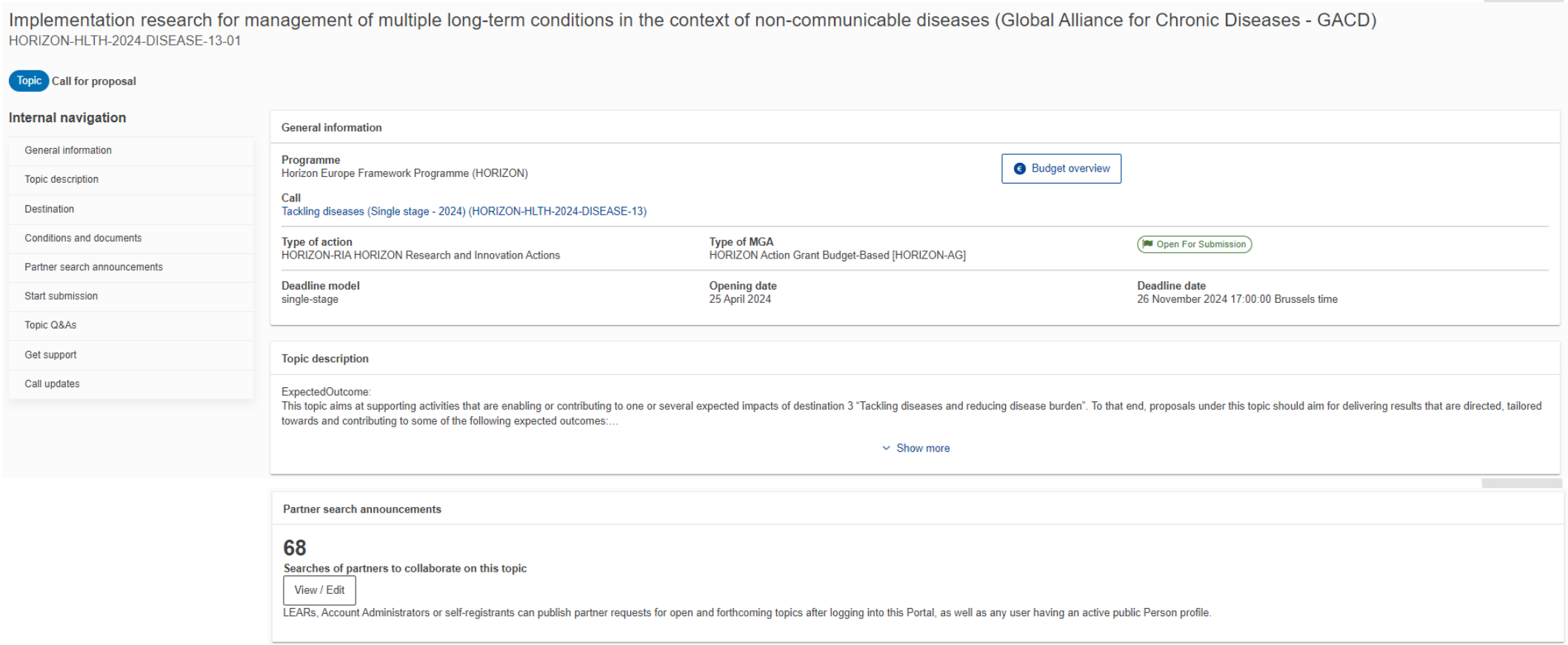
⚠ *The individual participants of the consortium are described in a separate section under Part A. There is no need to repeat that information here.*

- Describe the consortium. How does it match the project's objectives, and bring together the necessary disciplinary and inter-disciplinary knowledge? Show how this includes expertise in social sciences and humanities, open science practices, and gender aspects of R&I, as appropriate. Include in the description affiliated entities and associated partners, if any.
- Show how the partners will have access to critical infrastructure needed to carry out the project activities.
- Describe how the members complement one another (and cover the value chain, where appropriate)
- In what way does each of them contribute to the project? Show that each has a valid role, and adequate resources in the project to fulfil that role.
- If applicable, describe the industrial/commercial involvement in the project to ensure exploitation of the results and explain why this is consistent with and will help to achieve the specific measures which are proposed for exploitation of the results of the project (see section 2.2).
- **Other countries and international organisations**: If one or more of the participants requesting EU funding is based in a country or is an international organisation that is not automatically eligible for such funding (entities from Member States of the EU, from Associated Countries and from one of the countries in the exhaustive list included in the Work Programme General Annexes B are automatically eligible for EU funding), explain why the participation of the entity in question is essential to successfully carry out the project.

Example, not to be completed

Partner search

TOPIC PAGE



Partner search

BROKERAGE EVENTS

NCP NETWORKS

HNN 3.0
HEALTH-NCP-NET

Net4society

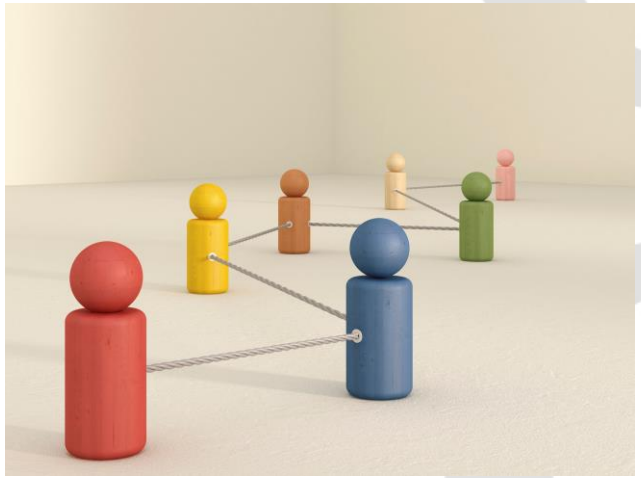
S5

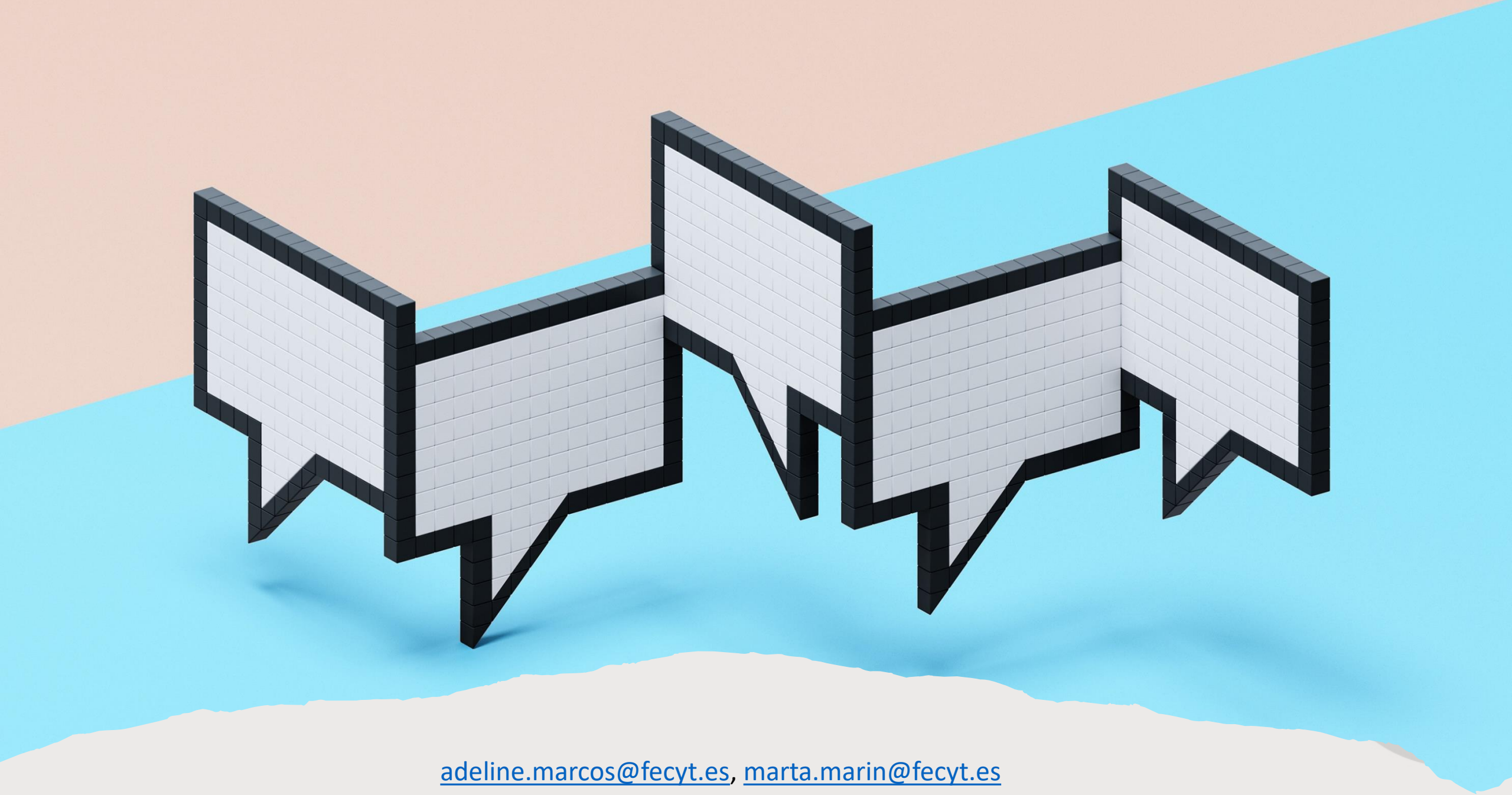
CLUSTER4
DIGITAL · INDUSTRY · SPACE

Greenet

CARE 4BIO

OWN NETWORKS





adeline.marcos@fecyt.es, marta.marin@fecyt.es