Health Funding Opportunities in Horizon Europe

Presented by your UK National Contact Points for Horizon Europe Health

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If you are from another sector (e.g. Charity, Government, NHS) please copy both Jo and Katie into your email

Please sign up for our newsletter by emailing ncp-health@innovateuk.ukri.org for the latest Horizon Europe opportunities news
KTN & UK Health NCP website including calls and events information available here
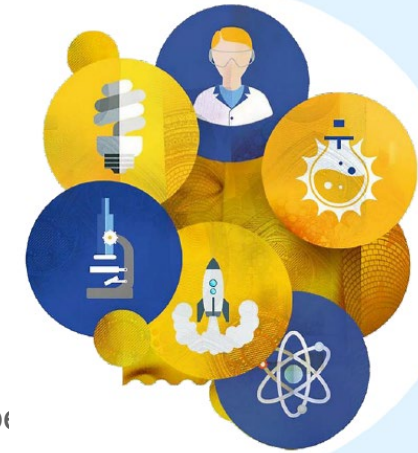
PLEASE NOTE – THE WEBINAR MAY BE RECORDED

HORIZON EUROPE

THE NEXT EU RESEARCH & INNOVATION

PROGRAMME (2021 – 2027)

Agenda

- Introduction to Horizon Europe and the UK's Association

- Health Funding Opportunities

  - Health Cluster

  - Health Cluster's Partnerships

  - Elsewhere in Horizon Europe

- How to get started

- National Contact Point (NCP) Support Available to Applicants

- Q&A

What is a National Contact Point (NCP)?

UK NCP network: Team of sector specific public servants whose role it is to provide free support to UK participants to Horizon Europe

International NCP network: support in Europe and the rest of the World

NCP services vary in each country/sector, but typically include:

Informing, awareness raising – on Horizon Europe and other EU programmes

Assisting, advising and training – to improve the quality of Horizon Europe proposals

Signposting and cooperation – direct to relevant support and work with each other to support consortium development

Katie Dingley
UK Health NCP for academia

Jo Frost
UK Health NCP for industry

Businesses | RTOs | Academia | UK Gov | EU Commission | Global R&I network | NCP

Introduction to Horizon Europe and the UK's Association

HORIZON EUROPE

THE NEXT EU RESEARCH & INNOVATION

PROGRAMME (2021 – 2027)

European Framework Programmes

- EU research and innovation funding programmes (FPs)

- Began in 1984 and each lasts for 7 years

[Horizon 2020](#) ran from 2014 until 2020

- The previous Framework Programme (FP) with a total budget of €80 billion.

[Horizon Europe](#) will run 2021 to 2027

- The 9th FP and successor to Horizon 2020 with a **€95.5 billion budget**

- Work Programmes due to be published in May 2021 (tbc)
  although a few calls have already been launched.

The **UK has agreed to Associate to Horizon Europe**

UK 'Association' means continued UK participation

- The UK has agreed to associate to Horizon Europe

- UK entities will have **equivalent participation rights** to those from Member States*

  - *Only two very rare* exceptions:

    - The equity fund part of the EIC Accelerator, as the UK decided not to take part in this (the UK can still take part in the rest of the EIC including the grants part of the EIC Accelerator)

    - Work Programme level exclusions only in exceptional and justifiable cases (e.g. some Defence & Security)

- UK entities **can lead projects as coordinator**

- **UK experts** can continue to take part in peer review (register as an expert here)

- The UK can also still participate in the **governance** of Horizon Europe (e.g. Programme Committees)

There will be no role for UK Government or UKRI in the application or grant management process

UKRI Innovate UK

UKRI Medical Research Council

UK 'Association' means continued UK participation

EU confirmation of UK participation
European Commission Q&A on the UK's Participation in Horizon Europe

"UK participants will have the **same rights as EU participants**…"

"UK entities are **eligible for funding at the same rates and under the same conditions**"

"They **can lead project consortia**"

Can UK entities take part in the first calls for proposals of Horizon Europe?

Yes. UK entities including universities, research centres, scientists, innovative businesses, industry, etc. will have full rights to participate in the first calls for proposals of Horizon Europe as soon as they are published on the European Commission's website.

This is also true for calls which may be published before the adoption of the Horizon Europe Regulation, such as early COVID-19 calls or those of the European Research Council (ERC) and the European Innovation Council (EIC), apart from the EIC Fund (see below).

In duly justified exceptional cases, restrictions may apply and these will be clearly specified in the calls for proposals.
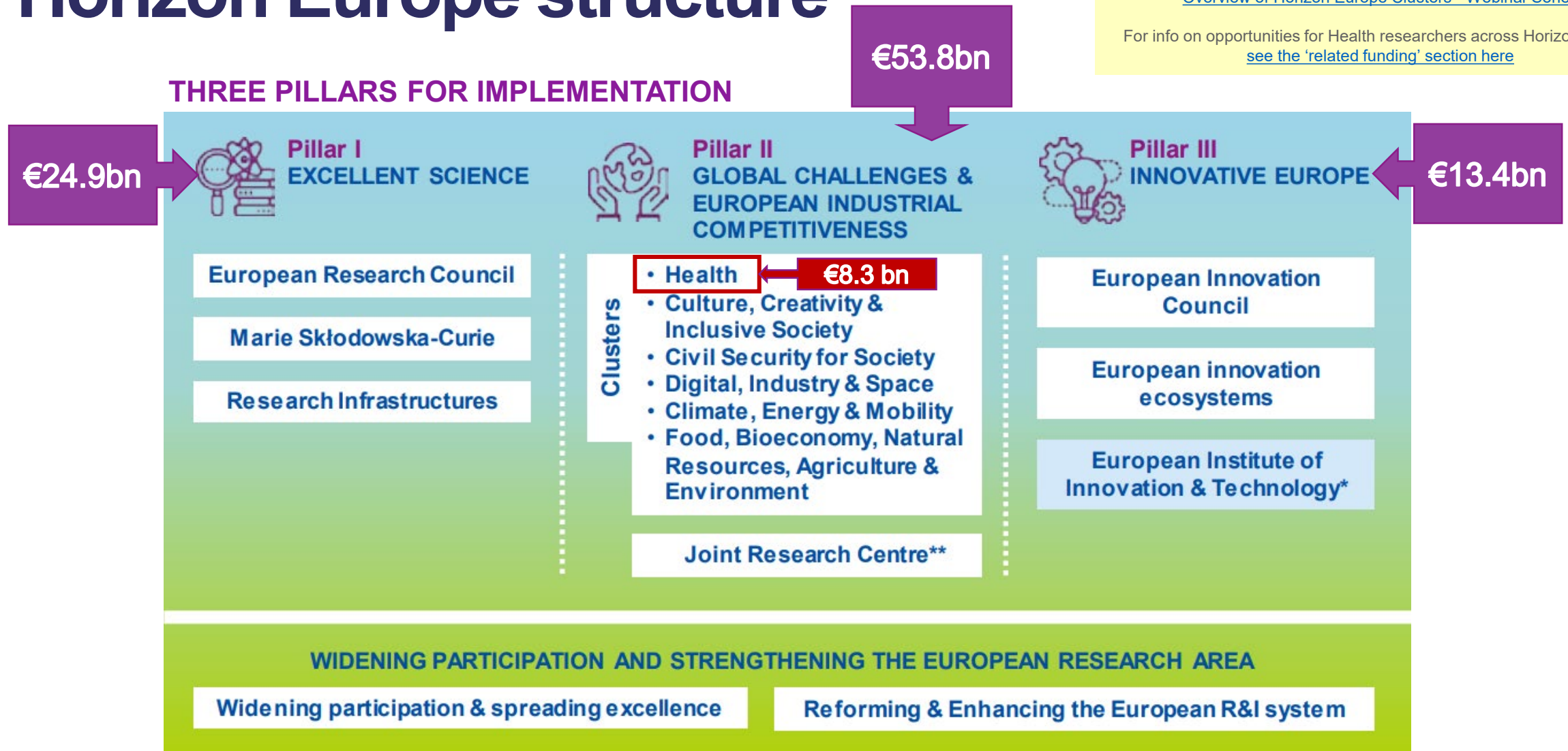
The 'Associated Countries' concept is not new

- **Horizon 2020 had 16 Associated Countries:** Albania, Armenia, Bosnia and Herzegovina, Faroe Islands, Georgia, Iceland, Israel, Moldova, Montenegro, North Macedonia, Norway, Serbia, Switzerland, Tunisia, Turkey, Ukraine

- **Horizon Europe Associated Countries: exact list is tbc**

Horizon Europe structure

THREE PILLARS FOR IMPLEMENTATION

€53.8bn

€24.9bn

€13.4bn

Pillar I — EXCELLENT SCIENCE

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

Pillar II — GLOBAL CHALLENGES & EUROPEAN INDUSTRIAL COMPETITIVENESS

Clusters

- Health — **€8.3 bn**
- 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

- **€95.5bn** total funding agreed for **2021-2027**
- Budget figures **exclude** UK and other Associate Country contributions so will be higher
- Others likely to associate include Switzerland, Norway & Israel
- Canada, Japan, Australia etc. Interested status (TBC)

UKRI Innovate UK

UKRI Medical Research Council

Project Types (in Health Cluster)

Research and innovation actions (RIA)
- Activities aiming primarily to **establish new knowledge or to explore the feasibility** of a new or improved technology, product, process, service or solution.
- May include basic and applied research, technology development and integration, testing, demonstration and validation on a small-scale prototype in a laboratory or simulated environment.

Innovation actions (IA)
- Activities directly aimed at **producing plans and arrangements or designs** for new, altered or improved products, processes or services
- Possibly including prototyping, testing, demonstrating, piloting, large-scale product validation and market replication.

Coordination and support actions (CSA)
- Activities contributing to the objectives of the Horizon Europe Programme, excluding R&I activities (with some exceptions – see the General Annexes to the Work Programme)

- **Pre-commercial procurement actions (PCP)**
- **Public procurement of innovative solutions actions (PPI)**

Main Types of Project

- **RIA** – all participants receive **100%** of (eligible direct costs + indirect costs at flat rate of 25% of direct costs*). Page limit usually 45 pages
- **IA** – for profit participants receive **70%** of (eligible direct costs + indirect costs at flat rate of 25% of direct costs*). Page limit usually 45 pages – non-profit organisations receive **100%** of (eligible direct costs + indirect costs at flat rate of 25% of direct costs*).
- **CSA** – all participants receive **100%** of (eligible direct costs + indirect costs at flat rate of 25% of direct costs*). Page limit usually 30 pages

*indirect costs are a flat rate of 25% of the (total eligible direct costs, excluding eligible direct costs for subcontracting, financial support to third parties and any unit costs or lump sums which include indirect costs)

Missions

A portfolio of actions across disciplines intended to achieve a **bold and inspirational and measurable goal** within a set timeframe, with **impact** for society and policy making as well as relevance for a significant part of the European population and wide range of European citizens.
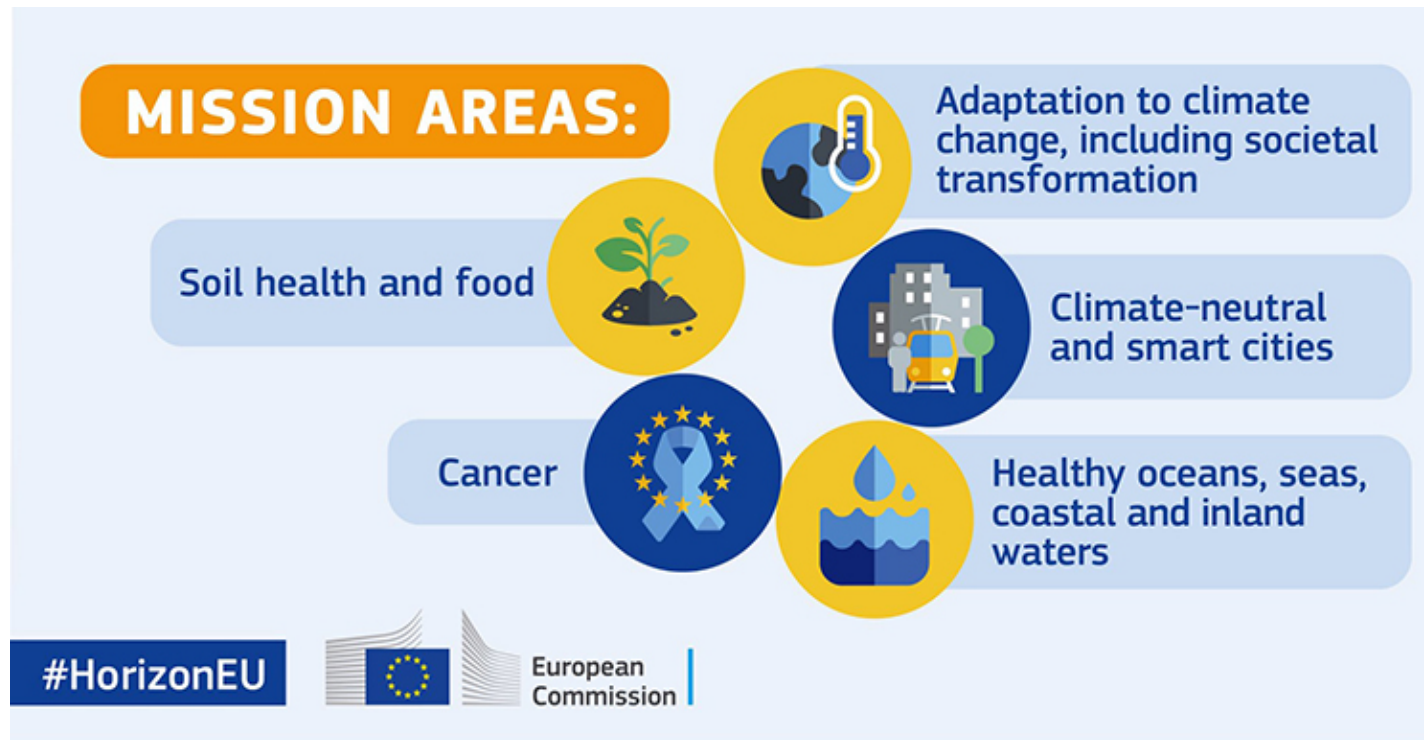
[Commission website on Missions](#)

Missions: Cancer Mission

Progress so far

- **The Cancer 'Mission Board' <u>interim report</u> 'Conquering cancer, mission possible'** (Sept 2020)
  - Proposes an ambitious goal "By 2030, more than 3 million lives saved, living longer and better"
  - Five intervention areas (+ cross cutting actions)

Understanding	Prevention	Diagnostic and Treatment	Quality of Life	Equitable Access	Cross-Cutting Actions

  - Plus 13 recommendations

Next steps

- Missions are currently in a preparatory phase
- Further detail from the Commission in July (which missions to move into the next phase)
- The Horizon Europe work programmes will be updated (in Q4?) to include calls for the selected missions - first funding for preparatory activities to help shape future Missions

Eligibility and funding rates

Eligibility

Eligibility for funding is usually (unless otherwise stated in the call):

- **Any type of legal entity established in EU Member State (MS) or Associated Country (AC)**
- Legal entities from many Low & Middle Income Countries (LMICs) if country listed in the [Horizon Europe Programme Guide](#)
- International European research organisations
- You can also get funding for organisations in other higher income countries occasionally:
    - If it is specified in your call topic, or
    - If their participation is essential for the project.

Info based on DRAFT Work Programme, so is subject to change

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Eligibility for participation is usually (unless otherwise stated in the call):

- **legal entities from outside EU MS/AC (known as 'third countries') can often participate too, although they would normally need to fund their own participation** unless one of the above exceptions applies

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Minimum consortium size

- **Collaborative projects (incl. RIAs, IAs):** Usually a consortium must have a minimum of 3 independent legal entities, each established in different EU Member States (MS) or Associated Countries (AC), **with at least 1 of them established in a MS**

- **Coordination & Support Actions:** One or more legal entities, which may be established in a MS, AC, or in exceptional cases and if provided for in the specific call conditions, in another third country.

Info based on DRAFT Work Programme, so is subject to change

How to apply

For Pillar 2:

Award Criteria
- **Excellence**
- **Impact**
- **Quality** and **Efficiency** of implementation

- The [Work Programme 2021-2022 General Annexes](#) are essential reading for applicants.
  - Info on submission, page limits, eligibility, project types, peer review criteria, evaluation, TRL levels and more
- Proposal submission and grant management – all electronically, via the [EU portal](#)

Health Funding Opportunities in the Health Cluster

HORIZON EUROPE

THE NEXT EU RESEARCH & INNOVATION

PROGRAMME (2021 – 2027)

Health Cluster

THE PAST: Horizon 2020 Health Challenge

- **€5.45 billion** funding awarded
- **€791 million (15%) to the UK**
  - incl. **€113m to UK for profit orgs**
- **1450 UK participations** (of which 399 for profit orgs)

Data Source: EU Horizon Dashboard, 18 Jan 2021

THE FUTURE: Horizon Europe Health Cluster

- **€ 8.3 billion** funding available

Key Opportunities

- Not just for work with the EU, also funding for:
  - Associated countries
  - Many low and middle income countries
- European Partnerships
- Cancer Mission

Health Cluster 2021-2022 Work Programme   ~€1.75 billion

- [Draft Health Work Programme for 2021-2022](#) published 12/3/21, remains subject to change.

- Divided into six 'destinations' [research themes], each containing a number of topics [funding opportunities]

1. **Staying healthy in a rapidly changing society** (€289 million)	2. **Living and working in a health-promoting environment** (€350 million)	3. **Tackling diseases and reducing disease burden** (€489.5 million)
4. **Ensuring access to innovative, sustainable and high-quality healthcare** (€289 million)	5. **Unlocking the full potential of new tools, technologies and digital solutions for a healthy society** (€270 million)	6. **Maintaining an innovative, sustainable and globally competitive health related industry** (€113 million)

- **Deadlines (tbc):** 21 Sept 2021, 1 Feb 2022 or 21 April 2022, dependent on topic

Health Cluster
Destination 1 - Staying healthy in a rapidly changing society

Focus: new evidence, methodologies and tools to understand the transition from health to disease, preventing disease and promoting health

Expected impacts:

- Promotion of **healthier lifestyles, behaviours and environments**

- Innovative **evidence-based services, policies and guidelines**

- **Accessible, equitable and effective co-designed digital solutions**

- Collaborations across sectors and with other Horizon Europe clusters to **transform the healthcare systems from reacting to illness to proactively promoting health and preventing disease**

Summary provided by the European Commission

Health Cluster
Destination 1 - Staying healthy in a rapidly changing society
2021 funding opportunities

The Work Programme 2021-2022
General Annexes explains type of action
([pages 8-10](#))

Call: Staying Healthy (2021)

HORIZON-HLTH-2021…	Topic Title	Type of Action	Overall Budget (EUR million)	Expected EU Contribution per Project (EUR million)	Expected no. of Projects funded
STAYHLTH-01-03	Healthy Citizens 2.0 – **Supporting digital empowerment and health literacy of citizens**	CSA	3	3	1

Innovate UK

Info based on DRAFT Work Programme, so is subject to change

UKRI Medical Research Council

Health Cluster

Destination 1 - Staying healthy in a rapidly changing society

2021 funding opportunities

Call: **Staying Healthy (2021) - €69 million**					Launch: tbc Deadline (single stage): 21 Sept 2021?

HORIZON-HLTH-2021…	Topic Title	Type of Action	Overall Budget (EUR million)	Expected EU Contribution per Project (EUR million)	Expected no. of Projects funded
STAYHLTH-01-02	Towards a **molecular and neurobiological understanding of mental health and mental illness** for the benefit of citizens and patients	RIA	60	10	6
STAYHLTH-01-03	Healthy Citizens 2.0 – **Supporting digital empowerment and health literacy of citizens**	CSA	3	3	1
STAYHLTH-01-04	A **roadmap for personalised prevention**	CSA	3	3	1
STAYHLTH-01-05	Mobilising a network of **National Contact Points (NCPs) for the Health Cluster**	CSA	3	3	1

Info based on DRAFT Work Programme, so is subject to change

Health Cluster

Destination 1 - Staying healthy in a rapidly changing society

2022 funding opportunities

Call: **Staying Healthy (Two stage 2022) - €170 million**

HORIZON-HLTH-2022…	Topic Title	Type of Action	Overall Budget (EUR million)	Expected EU contribution per Project (EUR million)	Expected no. of Projects funded
STAYHLTH-01-01-two-stage	**Boosting mental health in Europe** in times of change	RIA	50	7	7
STAYHLTH-01-04-two-stage	Trustworthy **artificial intelligence (AI) tools** to **predict the risk of chronic non-communicable diseases and/or their progression**	RIA	60	6	10
STAYHLTH-01-05-two-stage	**Prevention of obesity** throughout the life course	RIA	60	10	6

Call: **Staying Healthy (Single stage 2022) - €50 million**

HORIZON-HLTH-2022…	Topic Title	Type of Action	Overall Budget (EUR million)	Expected EU contribution per Project (EUR million)	Expected no. of Projects funded
STAYHLTH-02-01	**Personalised blueprint of chronic inflammation in health-to-disease transition**	RIA	50	7	7

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Health Cluster

Destination 2 - Living and working in a health-promoting environment

The environment we live and work in has direct or indirect and beneficial or adverse impacts on human health and well being. It is a major determinant of health and well being.

Expected impacts:

- **knowledge to identify and assess the risks and benefits for health of living and working environments** to enable the design of **health promoting and disease preventive policy actions and dissemination** of best practices

- **solid scientific evidence and uptake of research results**

  - into relevant environmental, occupational, social, economic, fiscal and health policies at EU, national and regional level

- new / improved **health interventions, technologies, tools and services for care and health**

Health Cluster

Destination 2 - Living and working in a health-promoting environment

2021 funding opportunities

Call: Environment and health (2021) - €130 million

HORIZON-HLTH-2021…	Topic Title	Type of Action	Overall Budget (EUR million)	Expected EU Contribution per Project (EUR million)	Expected no. of Projects funded
ENVHLTH-02-01	**Exposure to electromagnetic fields (EMF) and health**	RIA	30	8	4
ENVHLTH-02-02	**Indoor air quality and health**	RIA	40	8	5
ENVHLTH-02-03	**Health impacts of climate change costs and benefits of action and inaction**	RIA	60	10	6

Call: Partnerships in Health (2021) - €200 million

HORIZON-HLTH-2021…	Topic Title	Type of Action	Overall Budget (EUR million)	Expected EU Contribution per Project (EUR million)	Expected no. of Projects funded
ENVHLTH-03-01	**European partnership** for the **assessment of risks from chemicals (PARC)**	COFUND	200	200	1

Health Cluster

Destination 2 - Living and working in a health-promoting environment

2022 funding opportunities

Call: **Environment and health (Single stage 2022) - €20 million**	Launch: 6 Oct 2021? Deadline (single stage): 21 Apr 2022?

HORIZON-HLTH-2022…	Topic Title	Type of Action	Overall Budget (EUR million)	Expected EU contribution per Project (EUR million)	Expected no. of Projects funded
ENVHLTH-04-01	Methods for **assessing health-related costs of environmental stressors**	RIA	20	4	5

Innovate UK

UKRI Medical Research Council

Health Cluster
Destination 3 - Tackling diseases and reducing disease burden

Expected impacts:

- For health **burden of diseases in the EU and worldwide to be reduced through effective disease management**, including through the **development and integration of innovative diagnostic and therapeutic approaches, personalised medicine approaches, digital and other people-centres solutions** for **health and care**

- Patients should be **diagnosed early and accurately** and receive effective **cost-efficient and affordable treatment**, including for rare diseases

- **Premature mortality from non-communicable diseases reduced** by one third by 2030

- **Health care systems** should be better **prepared to respond to health emergencies**

- **Patients and citizens should be knowledgeable about disease threats, involved** and **empowered to make and shape decisions** for their health

Health Cluster

Destination 3 - Tackling diseases and reducing disease burden
2021 funding opportunities

Call: Tackling Diseases (2021) - €262.50 million

Launch: tbc
Deadline (single stage): 21 Sept 2021?

HORIZON-HLTH-2021...	Topic Title	Type of Action	Overall Budget (EUR million)	Expected EU Contribution per Project (EUR million)	Expected no. of Projects funded
DISEASE-04-01	Improved **supportive, palliative, survivorship and end-of-life care of cancer patients**	RIA	50	6	8
DISEASE-04-02	Building a **European innovation platform** for the **repurposing of medicinal products**	RIA	50	25	2
DISEASE-04-03	Innovative approaches to enhance **poverty related diseases** research in **sub-Saharan Africa**	RIA	40	8	5
DISEASE-04-04	**Clinical validation of artificial intelligence (AI) solutions** for treatment & care	RIA	60	6	10
DISEASE-04-07	**Personalised medicine and infectious diseases**: understanding the **individual host response to viruses (e.g. SARS-CoV-2)**	CSA	60	7	9
DISEASE-04-05	A roadmap towards the creation of the **European partnership on One Health antimicrobial resistance (OH AMR)**	CSA	0.5	0.5	1
DISEASE-04-06	Building a **European partnership for pandemic preparedness**	CSA	2	2	1

Health Cluster

Destination 3 - Tackling diseases and reducing disease burden

2022 funding opportunities

Call: **Tackling diseases (Two stage 2022) - €160 million**

Launch: 6 Oct 2021?
Deadlines: 1 Feb 2022? (first stage) / 6 Sept 2022? (second stage)

HORIZON-HLTH-2022…	Topic Title	Type of Action	Overall Budget (EUR million)	Expected EU contribution per Project (EUR million)	Expected no. of Projects funded
DISEASE-06-02-two-stage	**Pre-clinical development of the next generation of immuno-therapies** for diseases or disorders with unmet medical needs	RIA	60	6	10
DISEASE-06-03-two-stage	Vaccines 2.0 - developing the **next generation of vaccines**	RIA	40	8	5
DISEASE-06-04-two-stage	Development of **new effective therapies for rare diseases**	RIA	60	8	8

Call: **Tackling diseases (Single stage 2022) - €37 million**

Launch: 6 Oct 2021?
Deadline (single stage): 21 April 2022?

HORIZON-HLTH-2022…	Topic Title	Type of Action	Overall Budget	Expected EU cont. per Project (€ million)	Expected no. of Projects
DISEASE-07-02	**Pandemic preparedness** – Placeholder	RIA	10	3	3
DISEASE-07-03	**Non-communicable diseases risk reduction in adolescence and youth**	RIA	25	3	8
DISEASE-07-01	Support for the functioning of the **Global Research Collaboration for Infectious Disease Preparedness (GloPID-R)**	CSA	2	2	1

Call: **Partnerships in Health (2022) - €30 million**

Launch: 6 Oct 2021?
Deadline (single stage): 21 April 2022?

HORIZON-HLTH-2022…	Topic Title	Type of Action	Overall Budget	Expected EU cont. per Project (€ million)	Expected no. of Projects
DISEASE-03-01	European partnership fostering a **European Research Area (ERA) for health research**	COFUND	30	30	1

Health Cluster

Destination 4 - Ensuring access to innovative, sustainable and high-quality health care

Expected impacts:

- **Health and social care services and systems** that have **improved governance** and are **more effective, efficient, accessible, resilient, trusted and sustainable, with health promotion and disease prevention at their heart**

- Health care providers that are **trained and equipped with the skills and competencies suited to the future needs** of health care systems

- **People enabled to play a key role in managing their own health and care** and **specific needs of more vulnerable groups** are recognised and addressed

- People can also benefit from **improved access to health care services**, including **safe, effective and affordable essential medicines and vaccines**

Health Cluster

Destination 4 - Ensuring access to innovative, sustainable and high-quality health care

2021 funding opportunities

Call: **Ensuring access to innovative, sustainable and high-quality health care (2021) - €70 million**					Launch: tbc Deadline (single stage): 21 Sept 2021?
HORIZON-HLTH-2021…	**Topic Title**	**Type of Action**	**Overall Budget (EUR million)**	**Expected EU Contribution per Project (EUR million)**	**Expected no. of Projects funded**
CARE-05-01	Enhancing **quality of care and patient safety**	RIA	25	5	5
CARE-05-02	**Data-driven decision-support tools** for **better health care delivery** and **policy-making** with a **focus on cancer**	RIA	40	10	4
CARE-05-04	**Health care innovation procurement** network	CSA	5	5	1

Info based on DRAFT Work Programme, so is subject to change

Health Cluster

Destination 4 - Ensuring access to innovative, sustainable and high-quality health care

2022 funding opportunities

Call: Ensuring access to innovative, sustainable and high-quality health care (Single stage 2022) - €70 million

Launch: 6 Oct 2021?
Deadline (single stage): 21 April 2022?

HORIZON-HLTH-2022…	Topic Title	Type of Action	Overall Budget (EUR million)	Expected EU contribution per Project (EUR million)	Expected no. of Projects funded
CARE-08-02	**Pre-commercial research and innovation procurement (PCP)** for building the **resilience of health care systems in the context of recovery**	PCP	25	5	5
CARE-08-03	**Public procurement of innovative solutions (PPI)** for building the **resilience of health care systems in the context of recovery**	PPI	15	5	3
CARE-08-04	**Better economic foresight, financial planning, and procurement/contractual strategies** for health systems	RIA	30	5	6

Call: Partnerships in Health (2022) - €100 million

Launch: 6 Oct 2021?
Deadline (single stage): 21 April 2022?

HORIZON-HLTH-2022…	Topic Title	Type of Action	Overall Budget (EUR million)	Expected EU contribution per Project (EUR million)	Expected no. of Projects funded
CARE-10-01	**European partnership on transforming health and care systems**	COFUND	100	100	1

Health Cluster
Destination 5 - Unlocking the full potential of new tools, technologies & digital solutions for a healthy society

Expected impacts:

- Contribute to Europe's
  - **scientific and technological expertise and know-how,**
  - its **capabilities for innovation in new tools, technologies and digital solutions** and
  - its **ability to take-up, scale-up and integrate innovation in health and care**

- Enable researchers, innovators and health care providers to **use health data and AI-supported decision-making in a secure, ethical, acceptable and trustworthy manner**

- Citizens should benefit from targeted and faster research resulting in
  - **safer, more efficient, cost-effective and affordable tools, technologies and digital solutions**
  - **for effective personalised disease preventions, diagnosis, treatment and monitoring for better patient outcome and well-being**,
  - in particular through increasingly shared health resources

Health Cluster

Destination 5 - Unlocking the full potential of new tools, technologies & digital solutions for a healthy society

2021 funding opportunities

Call: **Tools and technologies for a healthy society (Single stage 2021) – €115 million**					Launch: tbc **Deadline (single stage): 21 Sept 2021?**
HORIZON-HLTH-2021…	**Topic Title**	**Type of Action**	**Overall Budget (EUR million)**	**Expected EU Contribution per Project (EUR million)**	**Expected no. of Projects funded**
TOOL-06-01	**Smart medical devices and their surgical implantation** for use in **resource-constrained settings**	IA	25	6	4
TOOL-06-02	**Next generation advanced therapies** to treat **highly prevalent and high burden diseases** with unmet medical needs	RIA	60	6	10
TOOL-06-03	Innovative **tools for use and re-use of health data** (in particular of **electronic health records** and/or **patient registries**)	RIA	30	8	4

Health Cluster

Destination 5 - Unlocking the full potential of new tools, technologies & digital solutions for a healthy society

2022 funding opportunities

Call: **Tools and technologies for a healthy society (Single stage 2022) – €95 million**

HORIZON-HLTH-2022…	Topic Title	Type of Action	Overall Budget (EUR million)	Expected EU contribution per Project (EUR million)	Expected no. of Projects funded
TOOL-11-01	**Optimising effectiveness in patients of existing prescription drugs for major diseases (except cancer) with the use of biomarkers**	RIA	60	10	6
TOOL-11-02	New methods for the effective use of **real-world data and/or synthetic data in regulatory decision-making and/or in health technology assessment**	RIA	35	7	5

Call: **Tools and technologies for a healthy society (Two stages 2022) – €60 million**

HORIZON-HLTH-2022…	Topic Title	Type of Action	Overall Budget (EUR million)	Expected EU contribution per Project (EUR million)	Expected no. of Projects funded
TOOL-12-01-two-stage	**Computational models for new patient stratification strategies**	RIA	60	6	10

Info based on DRAFT Work Programme, so is subject to change

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Health Cluster
Destination 6 - Maintaining an innovative, sustainable and globally competitive health industry

Expected impacts:

- **Health industry should be more competitive, sustainable and growing,**
    - **providing high-value jobs and contributing to economic growth, in particular SMEs,**
    - by tapping into **new markets** and
    - providing European **leadership on health technologies and innovations**

- **Citizens, health care providers and health systems** should benefit from **swift uptake of innovative health technologies and services** offering significant improvements

- **Health industry should work more effectively along the value chain**
    - **from the identification of needs to the scale-up of solutions**
    - at **national, regional and local level**
    - including through **early engagement with all stakeholders** to ensure suitability and acceptance of solutions

Health Cluster

Destination 6 - Maintaining an innovative, sustainable and globally competitive health industry

2021 funding opportunities

HORIZON-HLTH-2021…	Topic Title	Type of Action	Overall Budget (EUR million)	Expected EU Contribution per Project (EUR million)	Expected no. of Projects funded
IND-07-01	**Green pharmaceuticals**	RIA	40	8	5
IND-07-02	**Development, procurement and responsible management** of **new antimicrobials**	CSA	2	2	1
IND-07-03	**Promoting a trusted mHealth label in Europe**: **uptake of technical specifications for quality and reliability of health and wellness apps**	CSA	2	2	1

Innovate UK

Info based on DRAFT Work Programme, so is subject to change

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UKRI Medical Research Council

Health Cluster

Destination 6 - Maintaining an innovative, sustainable and globally competitive health industry

2022 funding opportunities

HORIZON-HLTH-2022…	Topic Title	Type of Action	Overall Budget (EUR million)	Expected EU contribution per Project (EUR million)	Expected no. of Projects funded
IND-13-01	**Enhancing cybersecurity of connected medical devices**	RIA	20	6	3
IND-13-02	**Scaling up multi-party computation, data anonymisation techniques, and synthetic data generation**	RIA	30	7	4
IND-13-03	**New pricing and payment models for cost-effective and affordable health innovations**	RIA	15	5	3
IND-13-04	Setting up a **European Smart Health Innovation Hub**	CSA	2	2	1
IND-13-05	Setting up a **European Electronic Health Record Exchange Format (EEHRxF) Ecosystem**	CSA	2	2	1

Info based on DRAFT Work Programme, so is subject to change

37

Health Funding Opportunities in the Health Cluster's Partnerships

HORIZON EUROPE

THE NEXT EU RESEARCH & INNOVATION
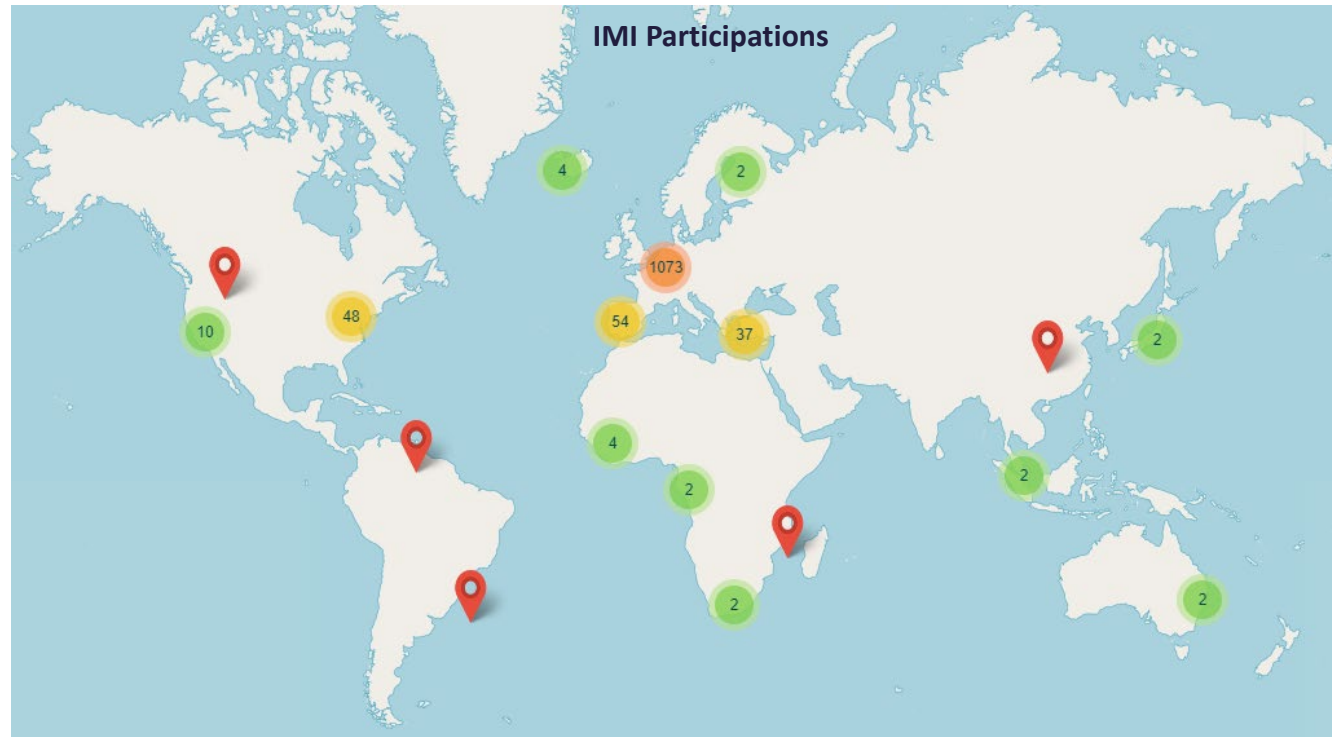
PROGRAMME (2021 – 2027)

Horizon Europe – Health - Partnerships

Partnerships bring together the European Commission and private and/or public partners together to tackle pressing challenges
- **9 European 'Partnerships' in Health are proposed for the first half of Horizon Europe** (with further partnerships in later years)

Instuitionalised Partnerships
- These partnerships (once established by the European Commission) will hold calls for proposals. First calls are expected ~Q4 of 2021.
  - **Innovative Health Initiative** - successor to the Innovative Medicines Initiative - but also broadened to include prevention, diagnostics, treatment and disease management incl. Pharma, Biotech, MedTech, Vaccines, Radiological, Electromedical and the Healthcare IT Industry. Subscribe to the IMI newsletter here.

Data Source: IMI Website, 13 May 2021

Horizon Europe – Health - Partnerships

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  - **EU-Africa Global Health** (EDCTP3) - to reduce the burden of infectious diseases & strengthen research capacities. Newsletter.
- UK based orgs. are eligible for funding from calls by the Innovative Health Initiative (IMI3) and Global Health Partnership (EDCTP3)

Country involvement in EDCTP projects

2014-2019

Data Source: EDCTP Website, 13 May 2021

Horizon Europe – Health - Partnerships

Partnerships bring together the European Commission and private and/or public partners together to tackle pressing challenges
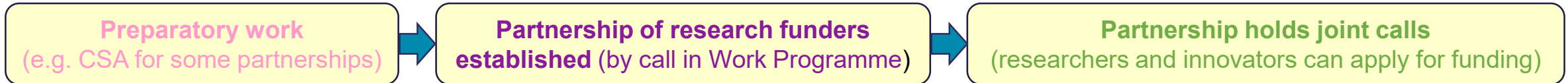- **9 European 'Partnerships'** in Health are **proposed for the first half of Horizon Europe** (with further partnerships in later years)

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Co-funded Partnerships
- Jointly funded calls where the EU partners with research funders and other public authorities in some MS/AC/other countries.

| **Preparatory work** (e.g. CSA for some partnerships) | → | **Partnership of research funders established** (by call in Work Programme) | → | **Partnership holds joint calls** (researchers and innovators can apply for funding) |

- Countries involved depend on each partnership (and call) so UK eligibility for calls run by each Health Co-funded partnership is tbc.
  - **Chemicals Risk Assessment**
  - **European Partnership – European Research Area (ERA) for Health Research**
  - **Health and Care Systems Transformation**
  - **Personalised Medicine**
  - **One Health/AMR Antimicrobial Resistance (AMR)**
  - **Rare Diseases**
  - **Pandemic Preparedness (new)**

European Partnership on	Info	Related 2021/2022 Work Programme Topics	Work Programme Year	Partnership Start Year
Assessment of Risk of Chemicals (PARC) (replaces EJP Human Biomonitoring)	Draft proposal	**Partnership establishment:** HORIZON-HLTH-2021-ENVHLTH-03-01: European Partnership for the Assessment of Risks from Chemicals (PARC) Cofund with EC contribution of €200 million	2021	2022
Transforming Health & Care Systems (replaces AAL, JPI Ageing...)	Draft proposal	**Partnership establishment:** HORIZON-HLTH-2022-CARE-10-01: European Partnership on Transforming Health and Care Systems Cofund with EC contribution of €100 million	2022	2023
Fostering a European Research Area (ERA) for Health (replaces ERA-CVD, EuroNanoMed, JPI HDHL)	Draft proposal (May 2019)	**Partnership establishment:** HORIZON-HLTH-2022-DISEASE-03-01: European Partnership Fostering an ERA for Health research – Placeholder Cofund with EC contribution of €30 million for initial stage? This partnership *might* deploy large scale investigator initiated clinical studies (tbc)	2022?	?
Personalised Medicine (replaces ICPerMed and the linked ERA-PerMed)	Draft outline (May 2019)	**Preparatory work:** HORIZON-HLTH-2021-STAYHLTH-01-04: A roadmap for personalised prevention	2023	2023
Rare Diseases (replaces JPI Rare Diseases, ERA-NET Rare Diseases)	Draft outline (May 2019)	?	2023	2024
One Health AMR (replaces JPI AMR, ERA-NET Rare Diseases)	Draft outline (May 2019)	**Preparatory work:** HORIZON-HLTH-2021-DISEASE-04-05: A roadmap towards the creation of the European One Health antimicrobial resistance partnership (OH AMR)	2023/24	2024/25
Pandemic Preparedness (new initiative)		**Preparatory work:** HORIZON-HLTH-2021-DISEASE-04-06: Building a European Research and Innovation Partnership for Pandemic Preparedness	?	?

Key:

Preparatory work (e.g. CSA for some partnerships) → **Partnership of research funders established** (by call in Work Programme) → **Partnership holds joint calls** (researchers and innovators can apply for funding)
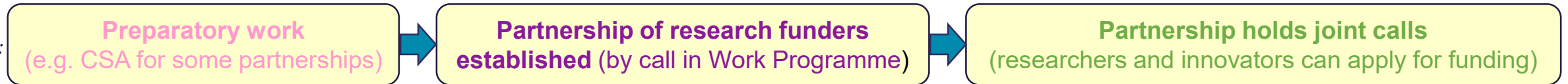
Info based on DRAFT Work Programme, so is subject to change

Uniting 28 countries to address AMR

JPIAMR: A global organisation
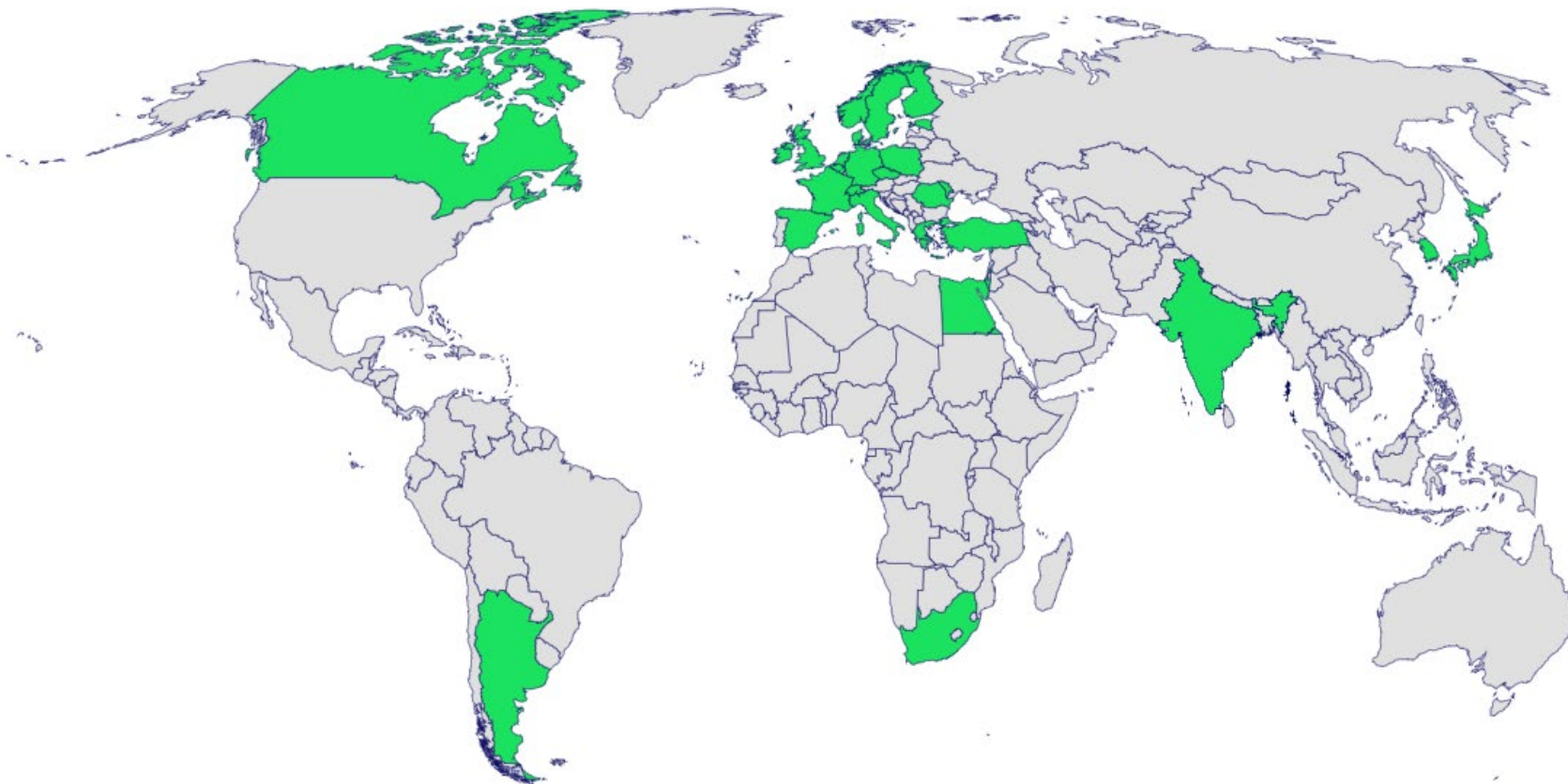
International collaborative platform

Aligns national research funding

Coordinates AMR research and funding on a global scale

Supports One Health perspective

The European Commission (DG Research) is a full non-voting member

www.jpiamr.eu   twitter.com/JPIAMR   facebook.com/JPIAMR

Like more info? https://www.jpiamr.eu/
JPIAMR Newsletter sign-up https://www.jpiamr.eu/newsletter-subscription
Next call will be on AMR Theraputics – Recent workshop/scoping

jpiamr

SRIA: Strategic Research and Innovation Agenda

Joint Programming Initiative on Antimicrobial Resistance
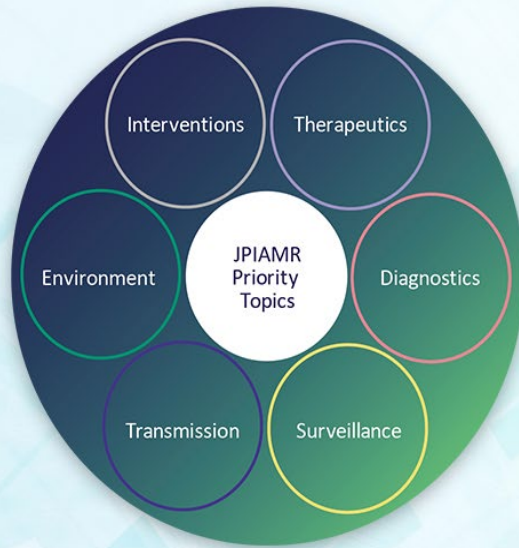**Strategic Research and Innovation Agenda on Antimicrobial Resistance**

JPIAMR Priority Topics: Interventions, Therapeutics, Environment, Diagnostics, Transmission, Surveillance

Therapeutics
Discovery of new antimicrobials and therapeutic alternatives, and the improvement of current antimicrobials and treatment regimens

Diagnostics
Development and improvement of diagnostics to improve the use of antimicrobials and alternatives to antimicrobials

Surveillance
Optimisation of surveillance systems to understand the drivers and burden of antimicrobial resistance in a One Health perspective

Transmission
Understanding and preventing the transmission of antimicrobial resistance

Environment
The role of the environment in the persistence, selection and spread of antimicrobial resistance
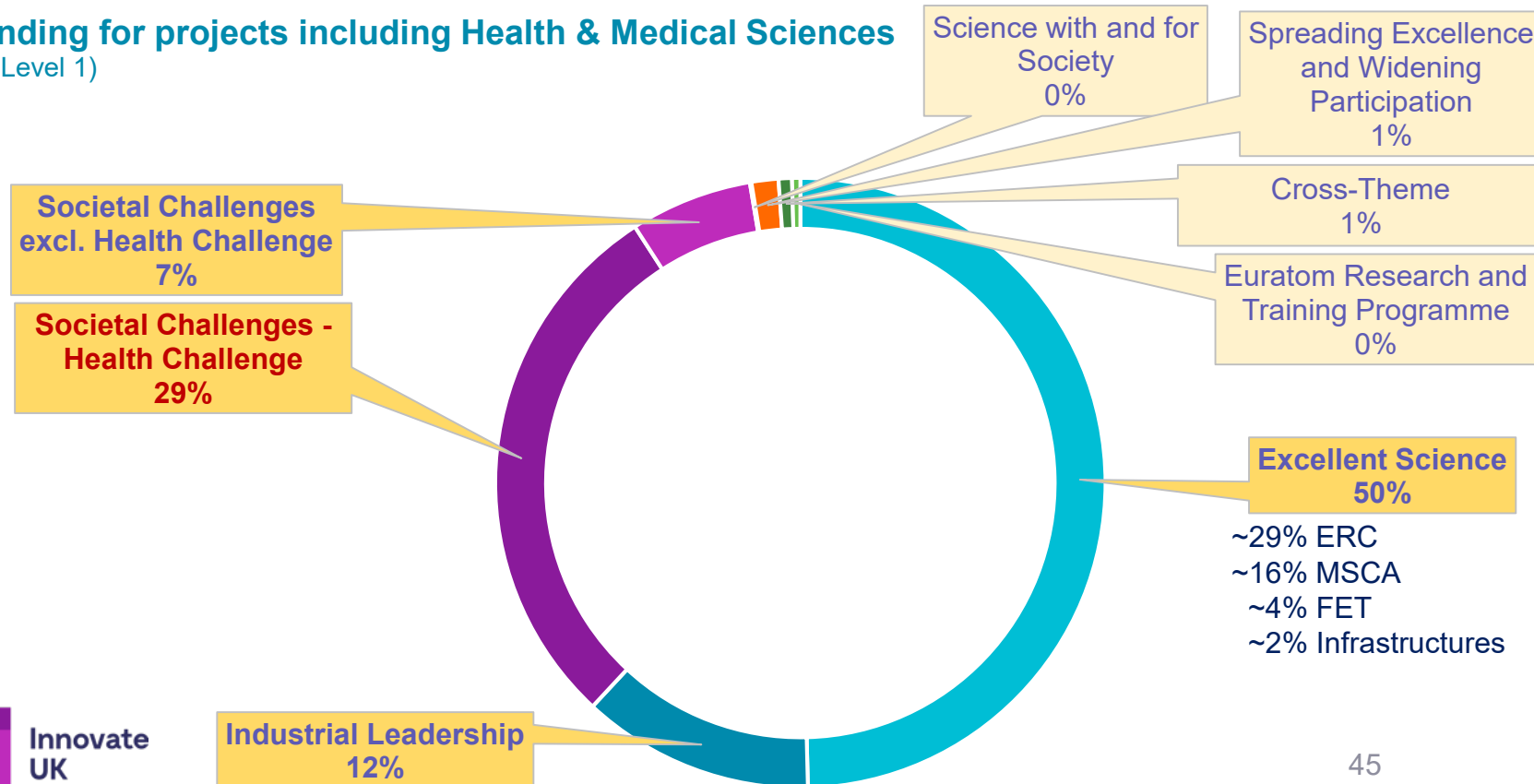
Interventions
Investigation and improvement of infection prevention and control measures in One Health settings

Why look for funding outside the Health Cluster too?

- **In Horizon Europe** there are different opportunities across the programme, for example
  - Some calls have 'top-down' prescribed R&I areas - you need to do exactly what the Commission wants! (e.g. Pillar 2 incl. Health Cluster)
  - Some calls are open to all R&I areas (e.g. the ERC, MSCAs, some EIC projects and COST)
  - Some calls do not require a consortium (e.g. ERC, MSCA fellowships)
  - Some calls fund networking (e.g. MSCA Staff Exchange Scheme and COST)
- **In Horizon 2020** (the EU's Research and Innovation Programme 2014-2020)
  - 29% of projects including Health and Medical Sciences were funded in the Health Challenge
  - **71% of projects including Health and Medical Sciences were funded outside of the Health Challenge**

H2020 Funding for projects including Health & Medical Sciences
(EuroSciVoc Level 1)

Science with and for Society
0%

Spreading Excellence and Widening Participation
1%

Cross-Theme
1%

Euratom Research and Training Programme
0%

Societal Challenges excl. Health Challenge
7%

Societal Challenges - Health Challenge
29%

Excellent Science
50%

~29% ERC
~16% MSCA
~4% FET
~2% Infrastructures

Industrial Leadership
12%

45

Data Source: EU Horizon Dashboard, 16 Mar 21

Horizon Europe – Pillar II

€53.8bn

Pillar I
EXCELLENT SCIENCE

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

Pillar II
GLOBAL CHALLENGES & EUROPEAN INDUSTRIAL COMPETITIVENESS

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 STRENGHTENING THE EUROPEAN RESEARCH AREA

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

- **€95.5bn** total funding agreed for **2021-2027**
- Budget figures **exclude** UK and other Associate Country contributions so will be higher
- Others likely to associate include Switzerland, Norway & Israel
- Canada, Japan, Australia etc. Interested status (TBC)

Innovate UK

UKRI Medical Research Council
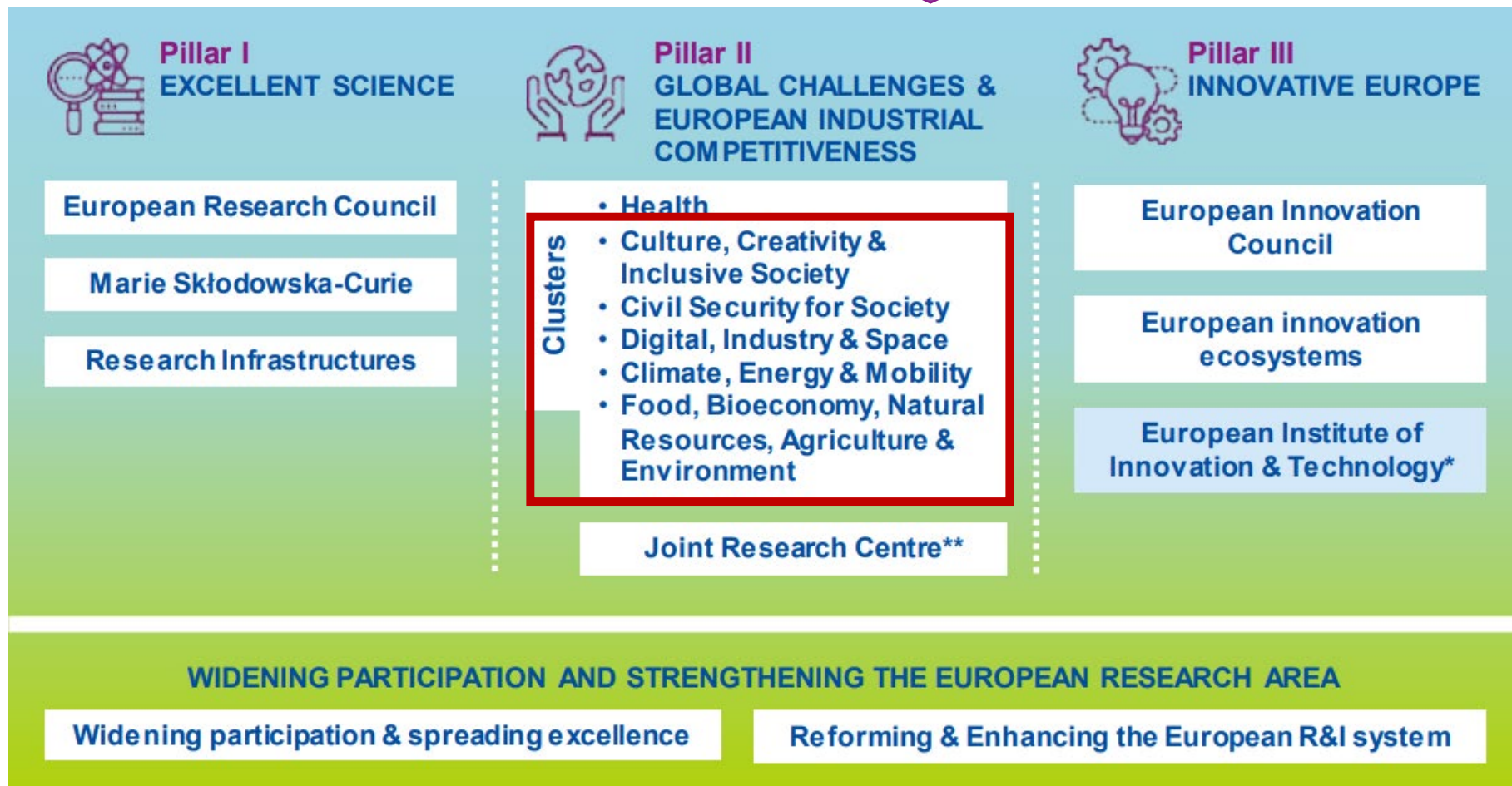
Health Cluster

Note: Info based on DRAFT Work Programme (v6.2)

€8.3bn funding (2021-27) across 6 areas ("destinations")
€1.75bn & 48 call topics (2021-22) as shown below

€289m

1) Staying healthy in a rapidly changing society

39 projects funded

- Diet and health (obesity)
- Ageing & demographic change
- Mental health
- Digital empowerment in health literacy
- Personalised prevention
- AI to predict disease risk
- Chronic inflammation

€240m

4) Ensuring access to innovative, sustainable and high-quality health care

25 projects funded

Fair access to high quality, sustainable healthcare for all citizens. Innovative, feasible, implementable, financially sound scalable solutions (for governance, financing, human and physical resources, health services and patient empowerment)

€350m

2) Living and working in a health-promoting environment

21 projects funded

Environmental, occupational and socio-economic risk factors to health, e.g. chemicals, non-ionizing radiation (EMFs) urbanisation, indoor & outdoor air pollution, climate other environmental changes, socio-economic inequalities, working environments

€270m

5) Unlocking the full potential of new tools, technologies and digital solutions for a healthy society

39 projects funded

- Tools, technologies and digital solutions for medical devices and improved health
- Consider safety, effectiveness, appropriateness, accessibility, comparative value-added and fiscal sustainability + ethical, legal and regulatory issues

€490m

3) Tackling diseases and reducing disease burden

72 projects funded

- Better diagnostics
- Personalised treatment
- Understanding diseases
- Infectious disease threats
- Innovative health tech.
- Scientific evidence, policy & legal frameworks
- New/advanced therapies (NCDs)

€113m

6) Maintaining an innovative, sustainable and globally competitive health industry

19 projects funded

- Market access of innovative tech. (medical, pharma, biotech, digital)
- Novel methods and metrics
- Support for reg. authorities
- Safe and clinically validated tools, technologies & services
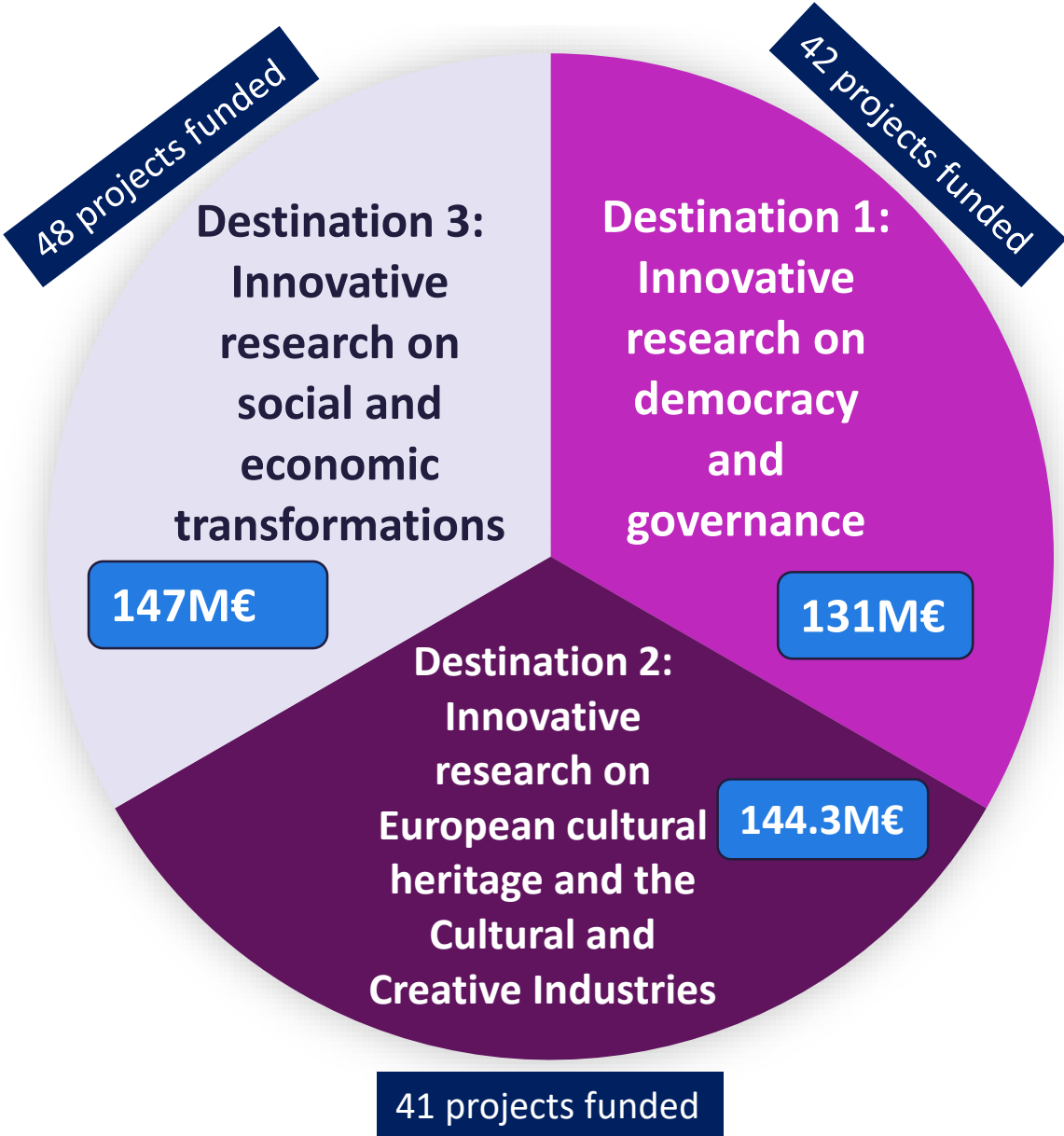- Greener pharmaceuticals and health technologies

Horizon Europe – Pillar II – Cluster 2: Culture, Creativity and Inclusive Society
Overview of 2021-2022 Work Programme (€2.28 billion 2021-2027)

2021 Calls
Opening 15 April
Deadline 1 Sept

TIMELINES

2022 Calls
Opening 20 Jan
Deadline 20 April

48 projects funded

42 projects funded

Destination 3: Innovative research on social and economic transformations

147M€

Destination 1: Innovative research on democracy and governance

131M€

Destination 2: Innovative research on European cultural heritage and the Cultural and Creative Industries

144.3M€

41 projects funded

1
- Future of liberal democracy
- Economic models and modern democracies
- Feminisms for a new age of democracy
- Democratic politics in the EU's neighbourhood
- Politics and governance in a post-pandemic world
- AI, big data and democracy
- Future of democracy and civic participation
- Inequalities & democracy
- Education for democracy
- Political extremism
- Democracy, politics and media
- Global governance for a world in transition

2
- Green technologies and materials for cultural heritage
- Participatory management & sustainable financing of museums/cultural institutions
- CCI as a driver innovation and competitiveness
- Cultural heritage & advanced digital technologies
- Endangered languages in Europe
- Traditional crafts for the future
- European music ecosystem & filmmaking industry
- Climate change & natural hazards and cultural heritage & remediation
- Games & culture shaping our society
- European Bauhaus

3
- Irregular migration
- Support in a changing world of work and social protection
- New technologies in education & training
- Changing supply chains and declining trade intensities
- Decision-making processes of migrants
- Gender & social, economic and cultural empowerment
- Inclusive labour market
- Successful development of skills matched to needs
- Racial, ethnic and religious equality
- Socio-economic effects of aging societies

Horizon Europe – Pillar II

Cluster 2: Culture, Creativity and Inclusive Society

Examples (but non-exhaustive list!) of topics that may be of interest to Health researchers/innovators

2021 funding opportunities include

Info based on DRAFT Work Programme, so is subject to change

HORIZON-CL2-…	Topic Title	Type of Action	Overall Budget (EUR million)	Expected EU Contribution per Project (EUR million)	Expected no. of Projects funded
DEMOCRACY-2021-01-07	**Politics and governance in a post-pandemic world**	RIA	7	1.5-2.5	3
TRANSFORMATIONS-2021-01-03	**Providing support in a changing world of work and social protection**	RIA	7	1.5-2.5	3
TRANSFORMATIONS-2021-01-04	**Socio-economic effects of ageing societies**	RIA	7	1.5-2.5	3
TRANSFORMATIONS-2021-01-05	**Determining the key drivers of inequality trends**	RIA	7	1.5-2.5	3

2022 funding opportunities include

HORIZON-CL2-…	Topic Title	Type of Action	Overall Budget (EUR million)	Expected EU contribution per Project (EUR million)	Expected no. of Projects funded
-DEMOCRACY-2022-01-01	**Artificial intelligence, big data and democracy**	RIA	7	1.5-2.5	3
DEMOCRACY-2022-01-07	**Global governance for a world in transition: Norms, institutions, actors**	RIA	7	1.5-2.5	3

UKRI Innovate UK

Like more info? UK NCP anni.laihanen@esrc.ukri.org
NCPs in other countries International NCP network

UKRI Medical Research Council

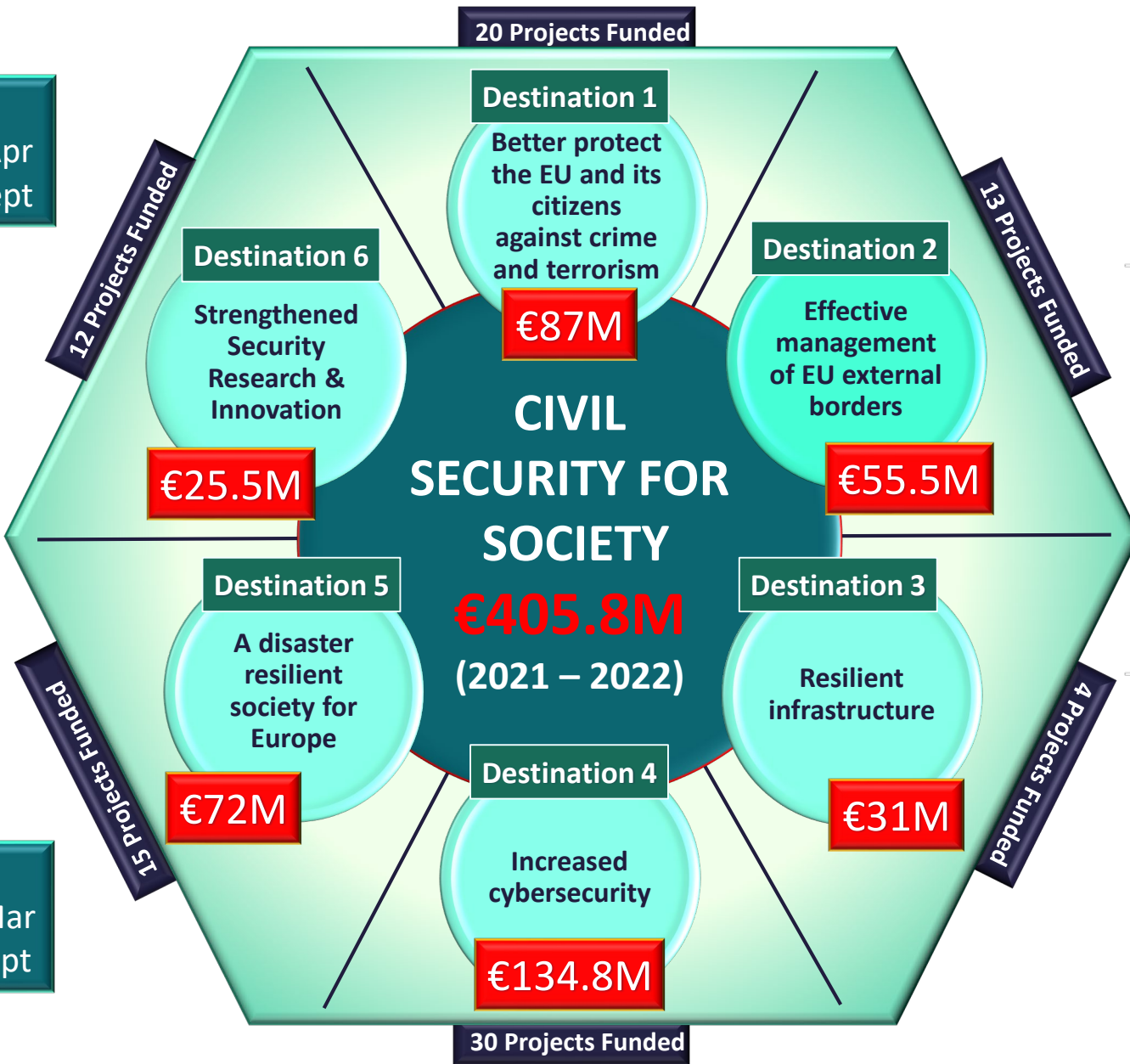# Horizon Europe – Pillar II – Cluster 3: Civil Security for Society
Overview of 2021-2022 Draft Work Programme (€1.6 billion 2021-2027)

2021 Calls
Opening 15th Apr
Deadline 8th Sept

TIMELINES

2022 Calls
Opening 15th Mar
Deadline 8th Sept

20 Projects Funded

13 Projects Funded

12 Projects Funded

15 Projects Funded

4 Projects Funded

30 Projects Funded

Destination 1
Better protect the EU and its citizens against crime and terrorism
€87M

Destination 2
Effective management of EU external borders
€55.5M

Destination 3
Resilient infrastructure
€31M

Destination 4
Increased cybersecurity
€134.8M

Destination 5
A disaster resilient society for Europe
€72M

Destination 6
Strengthened Security Research & Innovation
€25.5M

CIVIL SECURITY FOR SOCIETY
€405.8M
(2021 – 2022)

1
- Fighting crime & terrorism using travel intelligence
- Disinformation & fake news
- Lawful use of interception technologies
- Combating firearms trafficking
- Improved access to research data to fight crime
- Domestic, sexual violence and child sexual exploitation
- Protection of public spaces
- Countering on-line identity theft
- Fighting environment crime

2
- Enhanced security management of borders
- Increased safety, security, performance of borders
- Improved border checks & improved traveller & staff experiences
- Advanced detection of threats & illicit goods - postal & couriers
- Improved detection of concealed objects on/ within the body

3
- Infrastructures and autonomy safeguarded against systemic risks
- infrastructure resilience in case of Pandemics
- Advanced security & resilience across urban mobility systems

4
- Business continuity & recovery methodologies - models & prediction
- Improved security connected devices
- AI for cybersecurity reinforcement
- Scalable privacy-preserving technologies - personal data

5
- Enhanced citizen preparedness
- Improved understanding of risk exposure & public awareness
- Integrated Disaster Risk Reduction for extreme climate events
- Enhanced assessment of disaster risks
- Improved quality assurance/control of data used in decision making
- Innovative concepts to enhance cooperation
- Partnerships to coordinate R&I efforts - climate related disasters
- Developing partnerships – first responder & capability gaps
- Dispersion models for improved decision support for CBRNE releases

6
- Maturity assessment framework for security technologies
- Knowledge networks for Security Research & Innovation
- standardisation and certification schemes for security
- Demand led innovation for situation awareness in civil protection

Horizon Europe – Pillar II

Cluster 3: Civil Security for Society

Examples (but non-exhaustive list!) of topics that may be of interest to Health researchers/innovators

HORIZON-CL3-2021…	2021 Topic Titles	Type of Action	Overall Budget (EUR million)	Expected EU Contribution per Project (EUR million)	Expected no. of Projects funded
FCT-01-07	Improved preparedness on attacks to public spaces	IA	3	3	1
FCT-01-09	Fight against organised environmental crime	IA	-	5	1
FCT-01-11	Prevention of child sexual exploitation	RIA	-	3	1
BM-01-03	Improved border checks for travel facilitation across external borders and improved experiences for both passengers and border authorities' staff	IA	8	4	2
INFRA-01-02	Ensured infrastructure resilience in case of Pandemics	IA	-	10	1
CS-01-01	Dynamic business continuity and recovery methodologies based on models and prediction for multi-level Cybersecurity	RIA	21.5	3-5	5
DRS-01-01	Improved understanding of risk exposure and its public awareness in areas exposed to multi-hazards	RIA	5	5	1
DRS-01-03	Enhanced assessment of disaster risks, adaptive capabilities and scenario building based on available historical data and projections	RIA	5	5	1
DRS-01-05	Developing a prioritisation mechanism for research programming in standardisation related to natural hazards and/or CBRN-E* sectors	CSA	-	2	1
HORIZON-CL3-2022…	**2022 Topic Titles**				
DRS-01-03	Improved quality assurance / quality control of data used in decision-making related to risk management of natural hazards, accidents and CBRN* events	IA	-	5	1
DRS-01-08	Enhanced situational awareness and preparedness of first responders and improved capacities to minimise time-to-react in urban areas in the case of CBRN-E*-related events	IA	11	5	1
DRS-01-09	Enhanced capacities of first responders more efficient rescue operations, including decontamination of infrastructures in the case of a CBRN-E* event	IA		6	1

*CBRN (/CBRN-E) = chemical, biological, radiological, nuclear (and explosive) threats

Like more info? UK NCP NCP-Security@innovateuk.ukri.org

NCPs in other countries International NCP network

Innovate UK

UKRI Medical Research Council

Horizon Europe – Pillar II – Cluster 4: Digital, Industry & Space
Key Themes (€15.5 billion 2021-2027)

€15.54bn funding (2021-27)
>190 call topics in 2021-22

Destinations 3,4,6 — Digital

- AI, Data & Computing
- Photonics & Electronics
- Smart Networks & Connectivity
- Robotics
- Digital Economy

€1.56bn – 2021/22

- 1st Calls:
- Deadline: 8 Sep 2021

NCP Digital: Stafford Lloyd

Destinations 1 & 2 — Industry

- Circular Industries
- Resource & Energy efficiency
- Digital & Agile Manufacturing
- Sustainability by design
- Smart, Multi-functional materials (incl. Graphene, Nano & bio)
- Adv. Materials for Energy storage (incl. Hydrogen & Electrification)

€1.51bn – 2021/22

- 1st Calls Open:
- Deadlines: 15 July 2021 and 29 Sept 2021

NCP Industry: Abishek Ramesh

Destinations 5 — Space

- Satellite technology
- Access to space
- Space data
- Space science
- Space robotics

€0.31bn – 2021/22

- 1st Calls Open:
- Deadline: 7 September 2021

NCP Space: Catherine Holt

Note: Info based on DRAFT WP

Horizon Europe – Pillar II

Cluster 4: Digital, Industry and Space

Examples (but non-exhaustive list!) of topics that may be of interest to Health researchers/innovators

2021 funding opportunities include

HORIZON-CL4-2021…	Topic Title	Type of Action	Overall Budget (EUR million)	Expected EU Contribution per Project (EUR million)	Expected no. of Projects funded
TWIN-TRANSITION-01-05	Manufacturing technologies for bio-based materials	RIA	20	4-6	4
DIGITAL-EMERGING-01-07	Advanced Photonic Integrated Circuits	RIA	38.4	3-5	8
DIGITAL-EMERGING-01-20	Quantum sensing technologies for market uptake	IA	23	7-10	3
DIGITAL-EMERGING-01-21	Next generation quantum sensing technologies	RIA	14	3-4	2
DIGITAL-EMERGING-01-23	International cooperation with Canada	RIA	4	2.5	1
DIGITAL-EMERGING-01-31	Functional electronics for green and circular economy	RIA	33.9	3-5	9
RESILIENCE-01-20	Antimicrobial, Antiviral, and Antifungal Nanocoatings	RIA	23	4-6	4
RESILIENCE-01-25	Biomaterials database for Health Applications	CSA	6	2-4	2
SPACE-02-52	EGNSS (European Global Navigation Satellite Systems) applications for Safety and Crisis management	IA	9.3	1.5-3	4
SPACE-02-53	EGNSS applications for the Digital Age	IA	9.3	1.5-3	4
HUMAN-01-24	Tackling gender, race and other biases in AI	RIA	9.8	3-3.5	3
HUMAN-01-21	Art-driven use experiments and design	RIA	8.4	2.8	3

Like more info? Digital Stafford Lloyd, Industry Abishek Ramesh, Space Catherine Holt
NCPs in other countries International NCP network

Horizon Europe – Pillar II

Cluster 4: Digital, Industry and Space

Examples (but non-exhaustive list!) of topics that may be of interest to Health researchers/innovators

2022 funding opportunities include

HORIZON-CL4-2022…	Topic Title	Type of Action	Overall Budget (EUR million)	Expected EU Contribution per Project (EUR million)	Expected no. of Projects funded
TWIN-TRANSITION-01-01	Rapid reconfigurable production process chain	IA	27	8-10	3
DIGITAL-EMERGING-01-03	Advanced multi-sensing systems	RIA	46.7	3-5	10
DIGITAL-EMERGING-01-19	2D materials-based devices and systems for biomedical applications	RIA	5.9	5.9	1
DIGITAL-EMERGING-01-35	Advanced characterisation methodologies to assess and predict the health and environmental risks of nanomaterials	RIA	17.5	2-3	5
RESILIENCE-01-10	Innovative materials for advanced (nano)electronic components and systems	RIA	19	3-5	4
RESILIENCE-01-12	Functional multi-material components and structures	RIA	19	4-6	3
RESILIENCE-01-13	Smart and multifunctional biomaterials for health innovations	RIA	19	3-5	4
DATA-01-03	Programming tools for decentralised intelligence and swarms	RIA	40	4-8	5
HUMAN-01-19	eXtended Reality Learning - Engage and Interact	IA	21.1	5-8	3
SPACE-01-72	Education and skills for the EU space sector	CSA	3	2-3	1
SPACE-02-54	Copernicus downstream applications and the European Data Economy	IA	9.6	2-3	3

Like more info? Digital Stafford Lloyd, Industry Abishek Ramesh, Space Catherine Holt
NCPs in other countries International NCP network

Horizon Europe – Pillar II – Cluster 5: Climate, Energy & Mobility
Key Themes (€15 billion 2021-2027)

€15bn funding (2021-27)
177 call topics in 2021-22

Destinations 1 & 2 — Climate

- Climate sciences and responses
- Batteries
- Emerging breakthrough technologies
- Citizens and stakeholder engagement
- Communities and cities

€0.5bn – 2021/22

- 1st Calls Open: 15 Apr 2021
- Deadlines: 7 Sept 2021 and 19 Oct 2021

NCP Climate: Emma Fenton

Destinations 3 & 4 — Energy

- Renewables
- Energy Systems and grids
- Carbon Capture, Utilisation and Storage
- Energy efficient buildings
- Industrial decarbonisation

€1.4bn – 2021/22

- 1st Calls Open: 15 Apr 2021
- Deadlines: 26 Aug 2021 and 19 Oct 2021

NCPs Energy: Helen Fairclough, Kerry Young and Chris Young

Destinations 5 & 6 — Mobility

- Zero emission road transport
- Aviation
- Waterborne transport
- Impact of transport on the environment and human health
- Connected, Cooperative and Automated Mobility
- Safety and resilience
- Multimodal and sustainable transport systems

€0.9bn – 2021/22

- 1st Calls Open: 15 April 2021
- Deadlines: 7 Sept 2021 and 19 Oct 2021

NCP Mobility: Louise Mothersole

Note: Info based on DRAFT WP

Horizon Europe – Pillar II

Cluster 5: Climate, Energy and Mobility

Examples (but non-exhaustive list!) of topics that may be of interest to Health researchers/innovators

2021 funding opportunities include

HORIZON-CL5-2021…	Topic Title	Type of Action	Overall Budget (EUR million)	Expected EU Contribution per Project (EUR million)	Expected no. of Projects funded
D1-01-01	Improved understanding of greenhouse gas fluxes and radiative forcers, including carbon dioxide removal technologies	RIA	24	8	3
D1-01-02	Modelling the role of the circular economy for climate change mitigation	RIA	15	5	3
D1-01-07	Improved economic methods for decision-making on climate and environmental policies	RIA	6	3	2
D2-01-06	Sustainable, safe and efficient recycling processes (Batteries Partnership)	RIA	30	9-10	3
D2-01-12	Fostering a just transition in Europe	RIA	10	3-4	3
D3-01-06	Increasing energy system flexibility based on sector-integration services to consumers (that benefits system management by DSOs and TSOs)	IA	25	8	3
D4-01-01	Advanced energy performance assessment and certification	IA	10	3-5	2
D5-01-15	Development and demonstration of cost affordable and adaptable retrofit solutions for tailpipe and brake polluting emissions	IA	10	4-5	2
D5-01-16	Assessment of noise and particle emissions of L category vehicles from real driving conditions	RIA	5	4-5	1
D6-01-05	Analysis of socio-economic and environmental impacts and assessment of societal, citizen and user aspects for needs based CCAM solutions (CCAM Partnership)	RIA	8	3-4	2
D6-01-12	Controlling infection on large passenger ships	RIA	8	3-5	2

UKRI Innovate UK

Like more info? UK NCP UK NCPS
NCPs in other countries International NCP network

UKRI Medical Research Council

Horizon Europe – Pillar II

Cluster 5: Climate, Energy and Mobility

Examples (but non-exhaustive list!) of topics that may be of interest to Health researchers/innovators
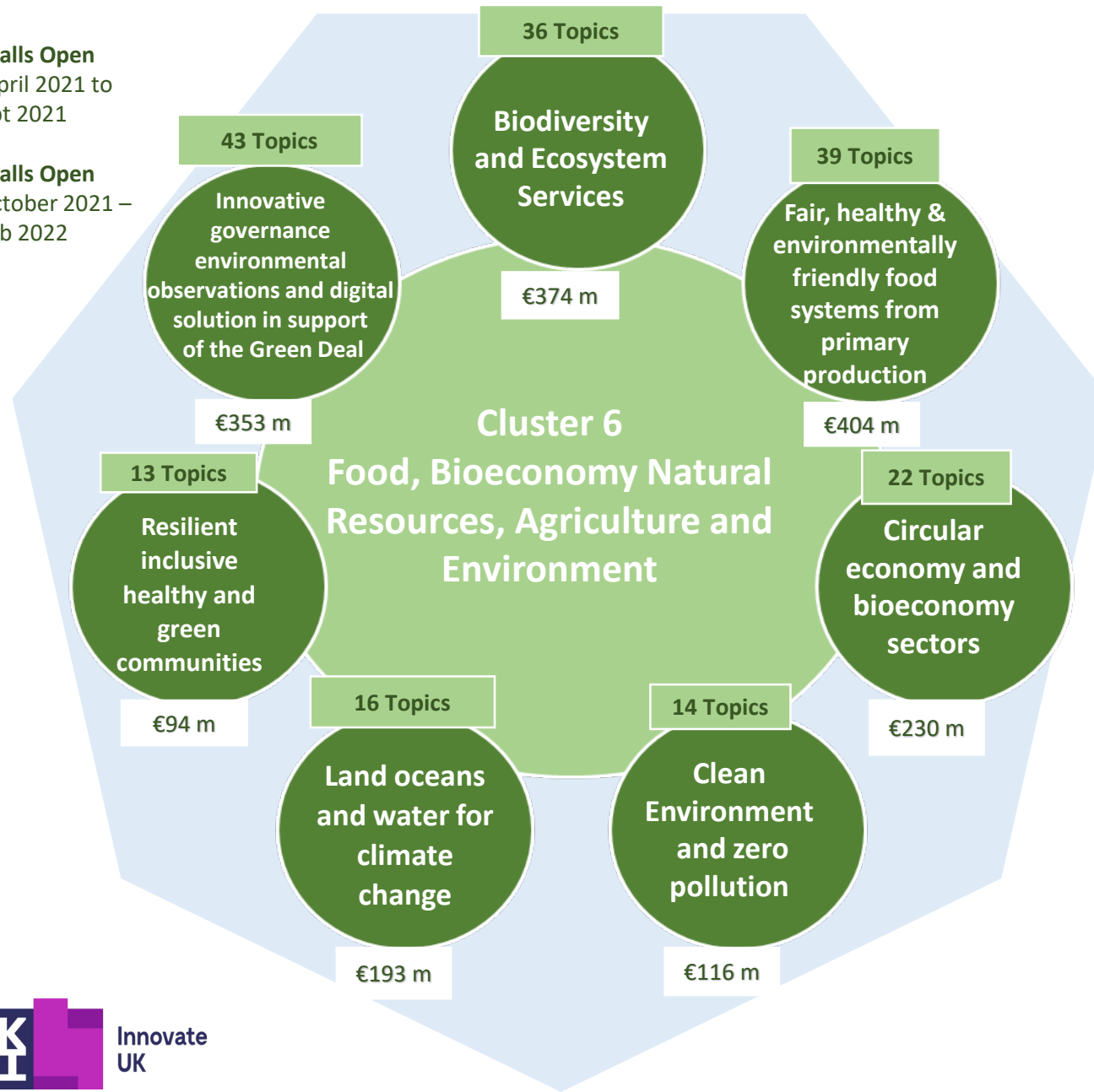
2022 funding opportunities include

HORIZON-CL5-2022…	Topic Title	Type of Action	Overall Budget (EUR million)	Expected EU contribution per Project (EUR million)	Expected no. of Projects funded
D1-01-01-two-stage	Carbon Dioxide Removal (CDR) approaches	RIA	21	7	3
D1-01-02-two-stage	Socio-economic risks of climate change in Europe	RIA	10	5	2
D1-01-03-two-stage	Social science for land-use strategies in the context of climate change and biodiversity challenges	RIA	20	6-7	3
D1-02-03	Improve. Integrated Assess. Models in support of climate policies	RIA	15	5	3
D2-01-10	Streamlined collection and reversed logistics, fully automated, safe & cost-efficient sorting, dismantling & second use before recycling (Batteries Partnership)	RIA	15	5	3
D4-01-02	Renewable-intensive, energy positive homes	IA	12	4-6	2
D4-02-02	Solutions for the sustainable, resilient, inclusive and accessible regeneration of neighbourhoods enabling low carbon footprint lifestyles and businesses (Built4People)	IA	15	5-7.5	2
D4-02-04	Smart-grid ready and smart-network ready buildings, acting as active utility nodes (Built4People)	IA	18	6-9	2
D5-01-07	Prevent smog episodes in Europe: Air quality impact of engine-emitted volatile, semi volatile and secondary particles	RIA	7	2.5-3	3
D6-01-02	Reliable occupant protection technologies and HMI solutions to ensure the safety of highly automated vehicles (CCAM Partnership)	RIA	8	6-8	1
D6-01-06	Predictive safety assessment framework and safer urban environment for vulnerable road users	RIA	13	4-4.33	3
D6-02-04	Accelerating the deployment of new and shared mobility services for the next decade	IA	20	8-10	2

Horizon Europe – Pillar II – Cluster 6: Food, Bioeconomy Natural Resources, Agriculture and Environment Overview of 2021-2022 Draft Work Programme (€9 billion 2021-2027)

2021 Calls Open
15th April 2021 to
1st Sept 2021

2022 Calls Open
28th October 2021 –
15th Feb 2022

36 Topics
Biodiversity and Ecosystem Services — €374 m

43 Topics
Innovative governance environmental observations and digital solution in support of the Green Deal — €353 m

39 Topics
Fair, healthy & environmentally friendly food systems from primary production — €404 m

13 Topics
Resilient inclusive healthy and green communities — €94 m

22 Topics
Circular economy and bioeconomy sectors — €230 m

16 Topics
Land oceans and water for climate change — €193 m

14 Topics
Clean Environment and zero pollution — €116 m

Cluster 6 Food, Bioeconomy Natural Resources, Agriculture and Environment

Destination 1: Biodiversity and Ecosystem Services

- Understanding biodiversity decline
- Valuing and restoring biodiversity and ecosystem services
- Managing biodiversity in primary production
- Enabling transformative change on biodiversity

Destination 2: Fair, healthy and environmentally-friendly food systems from primary production to consumption

- Enabling sustainable farming
- Enabling sustainable fisheries and aquaculture
- Transforming food systems for health, sustainability and inclusion
- Targeted international cooperation

Destination 3: Circular economy and bioeconomy sectors

- Enabling a circular economy transition
- Innovating sustainable bio-based systems and the bioeconomy
- Safeguarding the multiple functions of European forests
- Innovating for blue economy and biotechnology value chains

Destination 4: Clean environment and zero pollution

- Halting emissions of pollutants to soils and waters
- Protecting drinking water and managing urban water pollution
- Addressing pollution on seas and oceans
- Innovating for blue economy and biotechnology value chains

Destination 5: Land, oceans and water for climate action

Destination 6: Resilient, inclusive, healthy and green rural, coastal and urban communities

Destination 7: Innovative governance, environmental observations and digital solutions in support of the Green Deal

- Innovating with governance models and supporting policy
- Deploying and adding value to Environmental Observations
- Digital and data technologies as key enablers
- Strengthening agricultural knowledge and innovation systems

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Horizon Europe – Pillar II

Cluster 6: Food, Bioeconomy, Natural Resources, Agriculture & Environment

Examples (but non-exhaustive list!) of topics that may be of interest to Health researchers/innovators

2021 funding opportunities include the below. There are further food and nutrition topics not listed below too.

HORIZON-CL6-2021…	Topic Title	Type of Action	Overall Budget (EUR million)	Expected EU Contribution per Project (EUR million)	Expected no. of Projects funded
BIODIV-01-11	What else is out there? Exploring the connection between biodiversity, ecosystems services, pandemics and epidemic risk	IA	12	4-12	2
BIODIV-01-17	Biodiversity, water, food, energy, transport, climate and health nexus in the context of transformative change	RIA	5	5	1
BIODIV-01-22	Impact and dependence of business on biodiversity	RIA	5	2-3	2
FARM2FORK-01-11	Filling knowledge gaps on nutritional, safety, allergenicity and environmental assessment of alt. proteins and dietary shift	RIA	11	11	1
FARM2FORK-01-13	Microbes for healthy and sustainable food and diets	RIA	11	11	1
FARM2FORK-01-14	Transition to healthy and sustainable dietary behaviour	RIA	11	11	1
FARM2FORK-01-16	Increasing the transparency of EU food systems to boost health, sustainability & safety of products, processes and diets	IA	11	11	1
FARM2FORK-01-17	One health approach for Food Nutrition Security and Sustainable Agriculture (FNSSA)	RIA	18	6	3
CircBio-01-08	Unlocking the potential of algae potential for a thriving European blue bioeconomy	IA	18	9	2
COMMUNITIES-01-01	Grasping rural diversity and strengthening evidence for tailored policies enhancing the contribution of rural communities to ecological, digital and social transitions	RIA	15	7-7.5	2
COMMUNITIES-01-02	Expertise and training centre on rural innovation	CSA	5	5	1
GOVERNANCE-01-02	Furthering food systems science and federating researchers	RIA	17	17	1
GOVERNANCE-01-12	EU agriculture within a safe and just operating space and planetary boundaries	RIA	10	10	1

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Horizon Europe – Pillar II

Cluster 6: Food, Bioeconomy, Natural Resources, Agriculture & Environment
Examples (but non-exhaustive list!) of topics that may be of interest to Health researchers/innovators

HORIZON-CL5-2022…	2022 Topic Titles include (There are further food and nutrition topics not listed below too)	Type	Overall Budget (EUR million)	Expected EU contribution per Project (EUR million)	Expected no. of Projects funded
FARM2FORK-01-04	Towards an EU approach to assess and internalise positive and negative externalities of agri-food products for incentivising sustainable choices	CSA	8	4	2?
FARM2FORK-01-08	Building alternative protein-friendly sustainable & healthy food environments	IA	11	11	1
FARM2FORK-01-10	Microbiomes in food production systems	RIA	10	10	1
FARM2FORK-01-11	Integrated surveillance system to prevent and reduce diet-related Non Communicable Diseases (NCDs)	RIA	11	11	1
FARM2FORK-01-14	AU-EU Combatting all forms of malnutrition	RIA	10	10	1
CircBio-02-06-two-stage	Life sciences and their convergence with digital technologies for prospecting, understanding and sustainably using biological resources	RIA	12	6	2
CircBio-01-07	Marine microbiome for healthy oceans & a sustainable blue bioeconomy	RIA	18	9	2
COMMUNITIES-01-02	Assessing & improving labour conditions & health & safety at work in farming	RIA	5	5	1
COMMUNITIES-02-01-two-stage	Smart solutions for smart rural communities: empowering rural communities and smart villages to innovate for societal change	IA	14	7	2
COMMUNITIES-02-02-two-stage	Developing nature-based therapy for health and well-being	RIA	19	6	3
BIODIV-01-03	Network for nature: multi-stakeholder dialogue platform to promote nature-based solutions	CSA	5	5	1
BIODIV-02-01-two-stage	Maintaining and restoring pollinators and pollination services in European agricultural landscapes	IA	20	6-10	3
GOVERNANCE-01-06	New technologies for acquiring in-situ observation datasets to address climate change effects	IA	20	3	6
GOVERNANCE-01-08	Env. observations solutions contributing to meeting "One Health" challenges	RIA	10	5	2
GOVERNANCE-01-09	Piloting approaches and tools to empower citizens to exercise their "data rights" in the area of food and nutrition	RIA	7	7	1

Innovate UK

Like more info? UK NCP UK NCPS
NCPs in other countries International NCP network

UKRI Medical Research Council

Horizon Europe – Pillar I

€24.9bn

Pillar I
EXCELLENT SCIENCE

European Research Council

Marie Skłodowska-Curie

Research Infrastructures

Pillar II
GLOBAL CHALLENGES & EUROPEAN INDUSTRIAL COMPETITIVENESS

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

- **€95.5bn** total funding agreed for **2021-2027**
- Budget figures **exclude** UK and other Associate Country contributions so will be higher
- Others likely to associate include Switzerland, Norway & Israel
- Canada, Japan, Australia etc. Interested status (TBC)
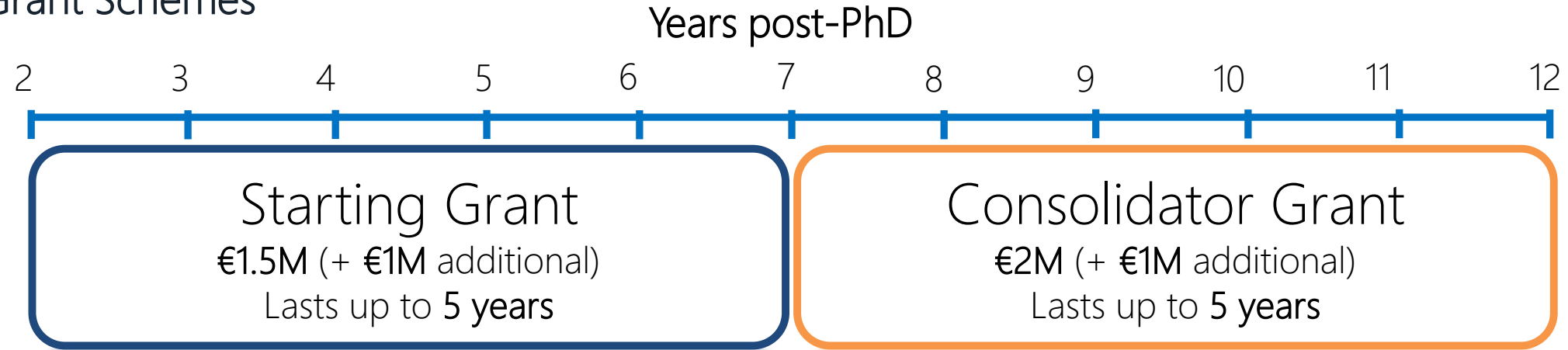
Innovate UK

UKRI Medical Research Council

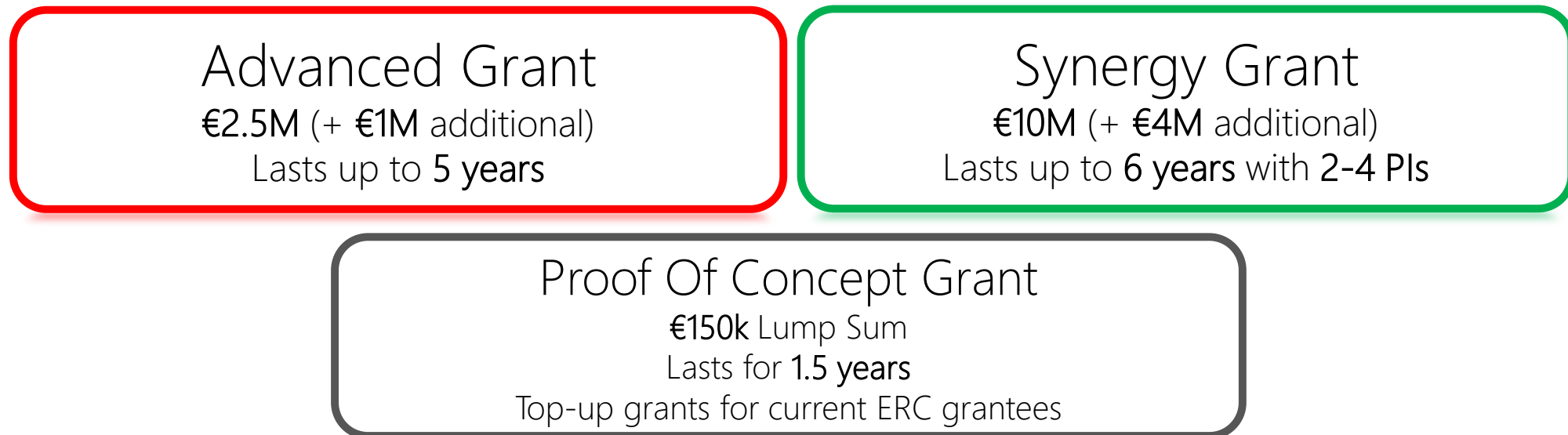# Horizon Europe - Pillar I - European Research Council (ERC) €16 Billion 2021-2027

- Long term funding of ground-breaking curiosity lead, investigator-driven 'frontier research'

- Funds a Principal Investigator (PI) and their team.

- **Across ALL research fields - completely bottom-up**

- Projects are selected for funding purely based on the excellence (of the PI and of the research project)

Horizon Europe - Pillar I - European Research Council (ERC)

ERC Grant Schemes

Years post-PhD

2   3   4   5   6   7   8   9   10   11   12

Starting Grant
€1.5M (+ €1M additional)
Lasts up to **5 years**

Consolidator Grant
€2M (+ €1M additional)
Lasts up to **5 years**

No PhD Requirements

Advanced Grant
€2.5M (+ €1M additional)
Lasts up to **5 years**

Synergy Grant
€10M (+ €4M additional)
Lasts up to **6 years** with **2-4 PIs**

Proof Of Concept Grant
€150k Lump Sum
Lasts for **1.5 years**
Top-up grants for current ERC grantees

UKRO
UK RESEARCH OFFICE

UKRI
UK Research
and Innovation

Horizon Europe - Pillar I - Marie Skłodowska-Curie Actions (MSCA) €6.6 Billion 2021-2027

Open to all areas of research and innovation

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** throughout the world
- **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**

NEW: Extra 6 months funding for fellow to spend time in non-academic setting

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

Innovate UK — UKRI

UKRI Medical Research Council

Horizon Europe – Pillar I – Research Infrastructures - €2.4 billion 2021-2027
Examples (but non-exhaustive list!) of topics that may be of interest to Health researchers/innovators

Info based on DRAFT Work Programme, so is subject to change

Is not:

X **building** Research Infrastructures (RIs)

X **funding capital costs** (with some exceptions)

MS and third countries come together to build RIs with Structural Funds and National Funding/in-kind contributions.

It **is** aiming to:

✓ Develop an **advanced RI system** for the European Research Area (ERA)

✓ Support **Trans-National & Virtual Access** to RI

✓ Facilitates EU Member State agreement on **roadmaps** for future pan-European RIs and **RI upgrades via ESFRI** (European Strategy Forum on Research Infrastructures)

✓ Foster **international cooperation** of facilities, links with the private sector, and compliance with **EOSC** (European Open Science Cloud)

2021 Topics include
FAIR and open data sharing in support of **cancer research**
Research Infrastructure services to **support research addressing cancer**

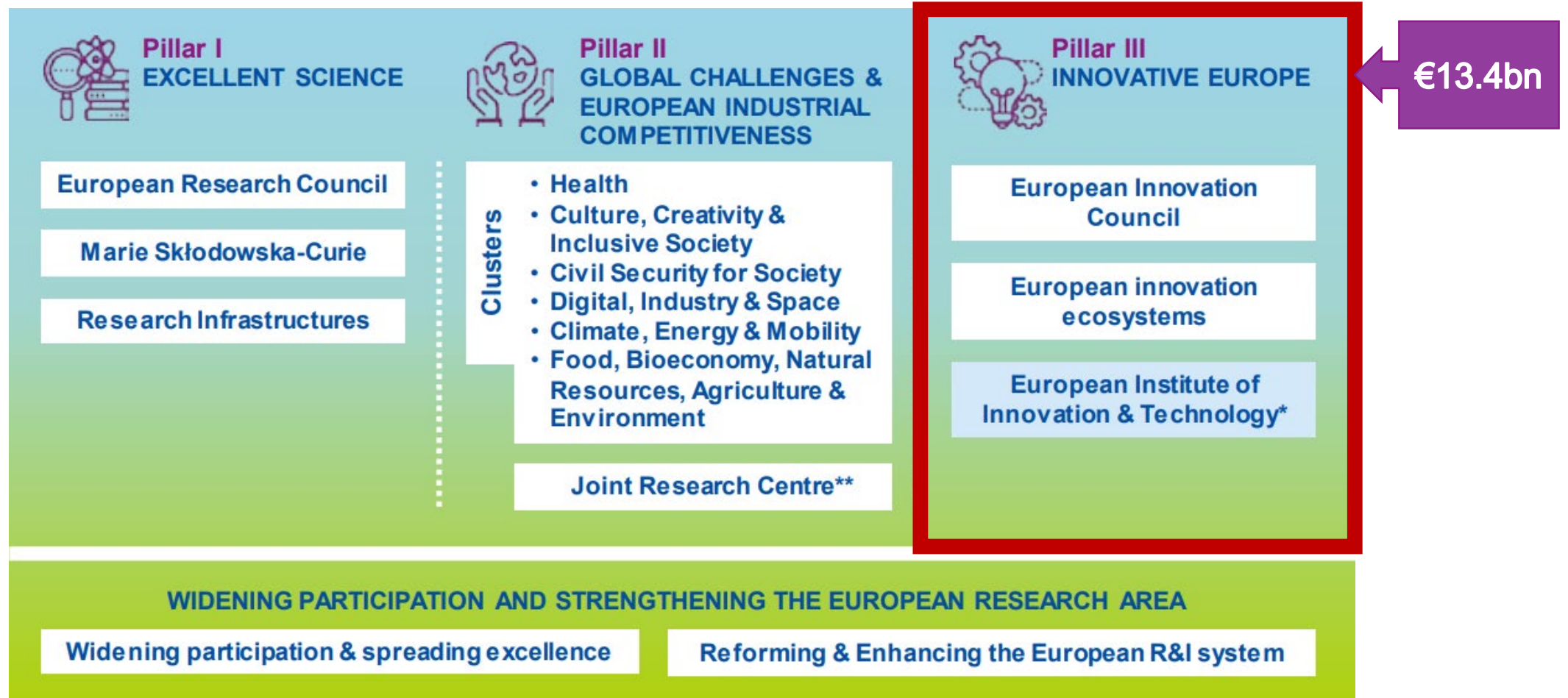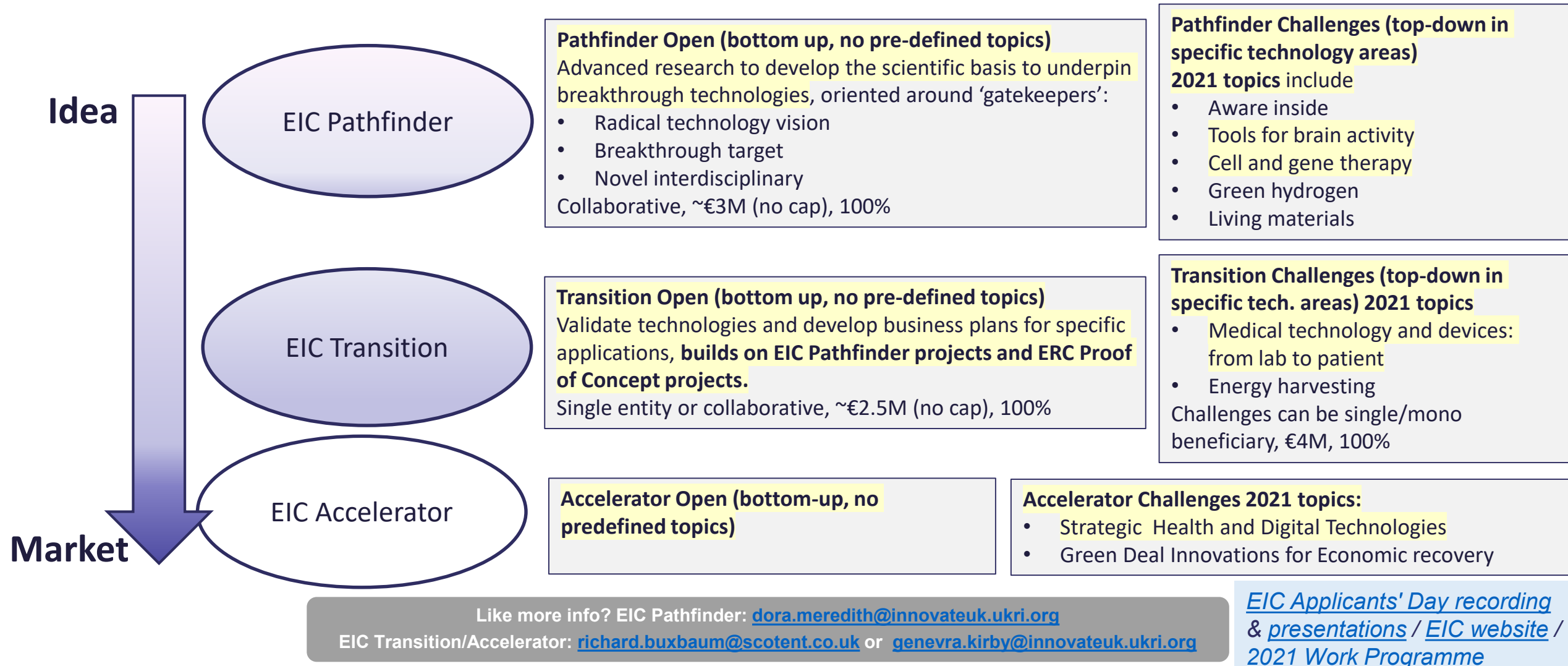| 2022 Topics include |
|---|
| **Enabling research infrastructure services for better use of imaging data** to address challenges in thematic research areas |
| **Implementing digital services to empower neuroscience research for health and brain inspired technology via EBRAINS** |
| **Interdisciplinary digital twins** for modelling and simulating complex phenomena at the service of research infrastructure communities |

UKRI Innovate UK

UKRI Medical Research Council

Horizon Europe – Pillar III

Pillar I
EXCELLENT SCIENCE

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

Pillar II
GLOBAL CHALLENGES & EUROPEAN INDUSTRIAL COMPETITIVENESS

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

€13.4bn

- 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

- **€95.5bn** total funding agreed for **2021-2027**
- Budget figures **exclude** UK and other Associate Country contributions so will be higher
- Others likely to associate include Switzerland, Norway & Israel
- Canada, Japan, Australia etc. Interested status (TBC)

Horizon Europe – Pillar III – European Innovation Council (EIC)

(European Innovation Council – brings together H2020 Future and Emerging Technologies with SME Instrument)
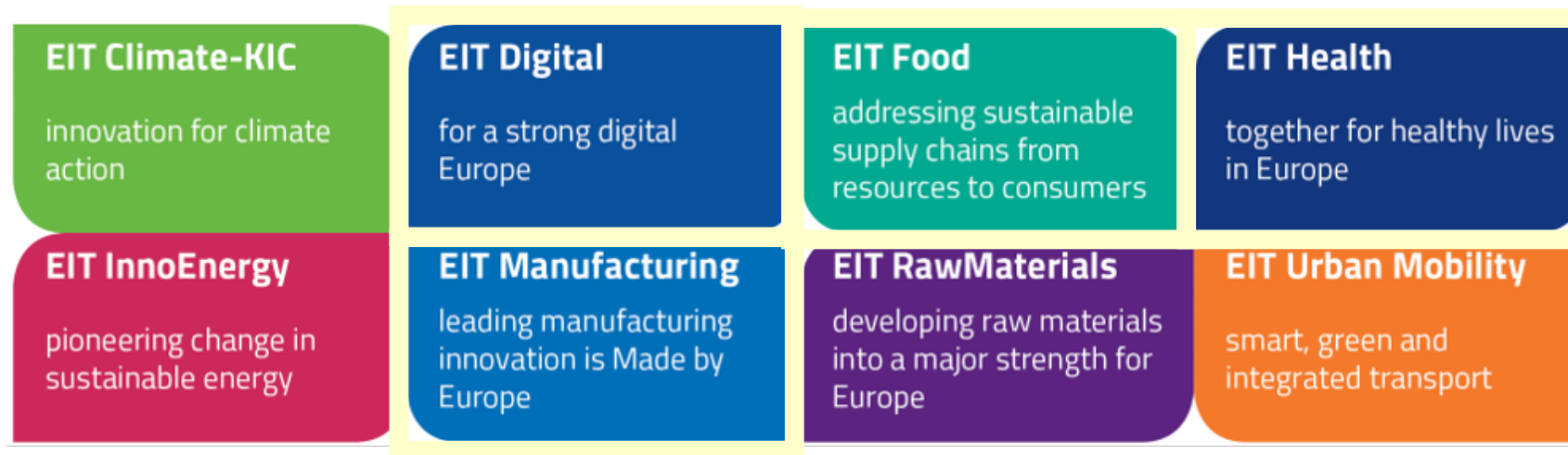
'Integrated, agile support across the full R&D spectrum from early stage research to scale-up'

Idea

EIC Pathfinder

Pathfinder Open (bottom up, no pre-defined topics)
Advanced research to develop the scientific basis to underpin breakthrough technologies, oriented around 'gatekeepers':
- Radical technology vision
- Breakthrough target
- Novel interdisciplinary

Collaborative, ~€3M (no cap), 100%

Pathfinder Challenges (top-down in specific technology areas)
2021 topics include
- Aware inside
- Tools for brain activity
- Cell and gene therapy
- Green hydrogen
- Living materials

EIC Transition

Transition Open (bottom up, no pre-defined topics)
Validate technologies and develop business plans for specific applications, **builds on EIC Pathfinder projects and ERC Proof of Concept projects.**
Single entity or collaborative, ~€2.5M (no cap), 100%

Transition Challenges (top-down in specific tech. areas) 2021 topics
- Medical technology and devices: from lab to patient
- Energy harvesting

Challenges can be single/mono beneficiary, €4M, 100%

EIC Accelerator

Accelerator Open (bottom-up, no predefined topics)

Accelerator Challenges 2021 topics:
- Strategic Health and Digital Technologies
- Green Deal Innovations for Economic recovery

Market

Like more info? EIC Pathfinder: dora.meredith@innovateuk.ukri.org
EIC Transition/Accelerator: richard.buxbaum@scotent.co.uk or genevra.kirby@innovateuk.ukri.org

EIC Applicants' Day recording & presentations / EIC website / 2021 Work Programme

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UK RI Medical Research Council

Horizon Europe – Pillar III – European Institute of Innovation and Technology Knowledge and Innovation Communities (EIC KICS)

(€3 billion 2021-2027)

- The EIT brings together business, education and research bodies to create an environment conductive to innovation and entrepreneurship in Europe
- It funds 8 long-term partnerships, KICs, each with a focus on a different societal challenges:

EIT Climate-KIC
innovation for climate action

EIT Digital
for a strong digital Europe

EIT Food
addressing sustainable supply chains from resources to consumers

EIT Health
together for healthy lives in Europe

EIT InnoEnergy
pioneering change in sustainable energy

EIT Manufacturing
leading manufacturing innovation is Made by Europe

EIT RawMaterials
developing raw materials into a major strength for Europe

EIT Urban Mobility
smart, green and integrated transport

New KICs for Culture and Creative Industries and Water, Marine and Maritime Sectors and Ecosystems are anticipated in 2022/3 and 2026 respectively

- Calls for projects starting this year have already closed but calls for projects starting in 2022 are open or due to be open later this year and you can apply to become a partner at any time
- Calls for proposals are primarily open for existing partners. However, non-partners are able to participate

Horizon Europe – Widening participation and strengthening the European Research Area (ERA)

Pillar I
EXCELLENT SCIENCE

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

Pillar II
GLOBAL CHALLENGES & EUROPEAN INDUSTRIAL COMPETITIVENESS

Clusters
- Health
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- 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

€3bn → Widening participation & spreading excellence

Reforming & Enhancing the European R&I system ← €0.4bn

- **€95.5bn** total funding agreed for **2021-2027**
- Budget figures **exclude** UK and other Associate Country contributions so will be higher
- Others likely to associate include Switzerland, Norway & Israel
- Canada, Japan, Australia etc. Interested status (TBC)

Horizon Europe - Widening participation and strengthening the European Research Area (ERA)

Activities to increase the participation of low research and innovation (R&I) performing member states and to strengthen the European Research Area (ERA)

Widening Participation and Spreading Excellence (€3 billion 2021-2027)

- **Teaming for Excellence:** designed to support the creation of new centres of excellence or upgrading the existing ones in low R&I performing countries, building on partnerships with leading scientific institutions in Europe

- **Twinning:** aims to enhance networking activities between the research institutions of the 'Widening' countries and top-class leading counterparts at EU level by linking it with at least two research institutions from two different Member States or Associated Countries. Networking for excellence through knowledge transfer and exchange of best practice.

- **Excellence Hubs:** innovation ecosystems in widening countries and beyond, team up and create better linkages between academia, business, government and society. Foster a placed based innovation culture in widening countries.

- **European Excellence Initiative for Higher Education Institutions (HEIs) and ecosystems**: 2021 call strengthens cooperation between at least 2 orgs. from higher education sector in a Widening country (or different Widening countries) linking it with at least 2 internationally-leading orgs. from 2 different Member States or Associated Countries.

- **Hop On Facility:** integrates one additional participant from a Widening country to any ongoing project under Pillar 2 while topping up a relevant task/work package and the cost incurred by the additional participant. Possible when original grant does not have any participant "from a country eligible to host the coordinator under the Widening component"

- **ERA Chairs/Fellowships:** Research orgs. in widening countries host a researcher/innovator in any R&I domain

Also in 2021: Twinning Western Balkans Special + Support for R&I policy making in the Western Balkans

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Like more info? UK NCP UK NCPS

NCPs in other countries International NCP network

Horizon Europe - Widening participation and strengthening the European Research Area (ERA)

Includes:

- **COST** (European Co-operation in Science and Technology):

  - **COST Open Call** (regular deadlines, next deadline 29 Oct 2021 12pm CET)

    - **Open to all areas of research and innovation** (bottom-up)

    - **Funding to set up interdisciplinary research and innovation networks in Europe and beyond**
      - Funding for organising meetings, training schools, short term scientific missions or other networking
      - Networks run for 4 years and help to build capacity.

  - Funds global networking of nationally-funded research.

  - In Horizon 2020, COST had a high success rate of 37%

  - You can also join the many existing COST actions

    - e.g. European Network for Optimisation of Veterinary Antimicrobial Treatment – website / newsletter

More info? COST website / COST newsletter / Eligible countries / Contact Points
COST– Information Event on 23 Feb 2021 – recording available

Cascade Funding
And
Euratom

HORIZON EUROPE

THE NEXT EU RESEARCH & INNOVATION

PROGRAMME (2021 – 2027)

Cascade funding

- Includes where existing H2020/Europe projects which themselves have funding to distribute to others
- Competitive calls and calls for third parties are listed on the EU Funding and Tenders portal
- Funding rules depend on call
- Often (but not always) these are smaller grants which can be awarded to a single organisation
- Tip: Keep checking the portal for the latest cascade funding opportunities
- For example, there were 41 calls open as at 5 April 2021, including:
  - Provision of medical services to the Cypriot citizens that live in rural and remote areas and do not have easy access to healthcare services and prescribed medicines
  - Early detection of progression in Multiple Sclerosis
  - AI4EU Call for Solutions
  - AI-based throat-swab robot usable in pandemic prevention
  - Modelling of drugs via deep learning neural network
  - Identification of Colon Cancer risk factors
  - Development of Information Extraction Algorithms from Photographs(learn more about this Challenge
  - ICU4Covid Open Call for Peripheral Hospitals
  - HBP Call for Expressions of Interest (CEoI): COVID-19 and its impact on the brain and mental health
  - INNO4COV-19: Open Call to support fast deployment of solutions to fight COVID-19
  - EHDEN: Open call for healthcare data partners

Euratom Research and Training Programme (€1.38 billion 2021-2025)

Euratom Research and Training Programme (2021-2025)
is a complementary funding programme to Horizon Europe which covers nuclear research and innovation. It uses the same instruments (project types) and rules for participation as Horizon Europe. The first Work Programme is due Spring 2021.

Objective
Research and training to reduce nuclear safety and security risks, development of safe nuclear technologies and optimal radiation protection.

Health aspects include
- Increased focus on non-power applications of radiation (e.g. medical, industrial, space)
- "Radiation protection research has led to improvements in medical technologies (e.g. diagnosis and radiotherapy) from which many citizens benefit. This research is leading to further improvements in nuclear medicine as well as in other sectors such as industry.."
- The Euratom programme will expand research into non-power applications of ionising radiation e.g. links with the Horizon Europe Health activities and Europe's beating cancer plan.
- Opening mobility opportunities for nuclear researchers through inclusion in Marie Skłodowska-Curie Actions.

UK eligibility
The **European Commission Q&A on the UK's Participation in Horizon Europe** confirms that "The UK will also be associated to the Euratom Research and Training Programme, as well as fusion-related activities…"

Like more info? UK NCPS
NCPs in other countries International NCP network

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How to get started

&

Support available to applicants

HORIZON EUROPE

THE NEXT EU RESEARCH & INNOVATION

PROGRAMME (2021 – 2027)

Next steps

I'm interested in exploring opportunities, what should I do?

- **Sign up for the UK Health NCP newsletter** (by emailing ncp-health@innovateuk.ukri.org) to stay up to date with the latest funding opportunities & news
- **Contact your NCP** to discuss your idea and its relevance to the Calls for Proposals
- Read the (draft) Work Programmes
- **Prepare a proposal summary**
- **Find out [what has been funded already](#)** and which organisations are involved
- **Approach potential partners**

CORDIS

BreathSpec A rapid, non-invasive, cost-effective, analytical device for bacterial or viral infection diagnosis through ultra-high sensitivity breath analysis.

ID: 755667

From: 1 May 2017 to: 31 July 2019

The world faces a growing epidemic of antimicrobial resistance (AMR); however, only two new classes of antibiotics have been brought to the market in the last 30 years. The discovery and development of new antibiotics is essential to maintain medical advances b…

Coordinated in: United Kingdom

Programme: H2020-EU.3., H2020-EU.2.

Last update: 24 November 2020

🔖 Add to my booklet

https://cordis.europa.eu/project/id/755667

- **Attend (or watch back) relevant webinars** and info days – your NCP can advise you which events might be useful depending on which area you are interested in, for example:

  - The [KTN Horizon Europe Health webpage](#) includes
    - **Overview of Horizon Europe** by UK NCPs (slides and recording)
    - **Overview of Health Cluster** by UK NCPs (slides and recording)
    - **Funding opportunities for Health throughout Horizon Europe** (slide set by UK Health NCPs)
    - Links to European Commission webinars on proposal writing, submission, evaluation etc

  - [European Commission Information Days](#) (28 June – 9 July, Including [Health Cluster Infoday on 2 July](#))

  - [Consortia building events for Horizon Europe clusters](#) organised by KTN and UK NCPs (14 June Health Cluster. Other clusters 14/17/21 June). Registration stays open until event, but deadline to offer to pitch for the Health Cluster is 8 June.

  - **Consortia building/partnering events organised by NCP network. 5 July tbc for Health Cluster** (info not online yet)

  - [KTN and NCP Horizon Europe – Overview of other Clusters](#) (slides and recording)

  - UK [European Research Council NCP events](#) and [Marie Skłodowska-Curie Actions NCP events](#)

  - [European Innovation Council (EIC) Applicants' Day recording](#) and [presentations](#)

  - [European Research and Innovation Days - 23rd – 24th June](#)

The best ways to form winning teams

Being an *effective networker* is much more useful than submitting a profile into a portal and awaiting contacts.

- Use your existing professional networks – if you don't know who the sector leaders are in Europe then you should find out
    - Use Linked In to connect to people from possible partners
- Join the relevant Partnership if any, ask your NCP for details
- Search [CORDIS](#) for previous, related projects and contact the participants. All projects must disseminate their results and often hold workshops, etc.
- Join the relevant networks and associations – again ask your NCP for suggestions
    - Be an *active* member – say 'hi' when you join the virtual room. Ask questions, support others' opinions, act as if you are already well known to all in the virtual room
    - Volunteer to draft working papers, take notes, send in useful information – be helpful
    - Speak up at workshops – demonstrate Thought Leadership
    - Show that you would be a valuable partner for collaborative projects and that without you they won't win – you have the secret sauce that is necessary for their success

Additional useful information

- Check out the Reference Documents – if there is any conflicting information this is the officially recognised correct source. It contains:
  - Work Programme in full including context and General Annexes
  - Templates, guides, rules, etc
  - Annotated Model Grant Agreement
- The on-line manual is very useful

- KTN/NCP website on Horizon Europe Health

Some definitions

- **Work Programme** – combined calls for proposals for the whole thing (excluding Institutionalised partnerships who do their own)
- **Cluster** – a major problem space. There are six in total. Cluster 1 is health
- **Destination** – a way of breaking down the Cluster to manageable chunks with a common theme, e.g., decarbonisation of transport
- **Topic** – a specific call for proposals with its own scope, budget, etc. Often (but not always) more than one project will be funded.
- **The Portal** – the [EU Funding & Tenders Portal](#) where all information needed to participate can be found
- **PIC** – Participant Identification Code – a unique identifier for each participating legal entity
- **LEAR** – Legal Entity Appointed Representative – a single person at the top for each organisation, often Chief Finance Officer or similar (buck stops with them)
- **Coordinator** – The lead participant for a proposal and project who brings the team together, submits the proposal and manages delivery of the project

What is a National Contact Point (NCP)?

UK NCP network: Team of sector specific public servants whose role it is to provide free support to UK participants to Horizon Europe

International NCP network: support in Europe and the rest of the World

NCP services vary in each country/sector, but typically include:

Katie Dingley
UK Health NCP for academia

Jo Frost
UK Health NCP for industry

Informing, awareness raising – on Horizon Europe and other EU programmes

Assisting, advising and training – to improve the quality of Horizon Europe proposals

Signposting and cooperation – direct to relevant support and work with each other to support consortium development

Businesses
RTOs
Global R&I network
NCP
EU Commission
Academia
UK Gov

Please sign up for our newsletter by emailing ncp-health@innovateuk.ukri.org for the latest Horizon Europe health funding opportunities news

Support services

- **National Contact Points (NCPs):** this network is the main structure to provide guidance, practical information and assistance on all aspects of participation in Horizon Europe
  - UK NCPs and UK Health NCP newsletter signup by emailing ncp-health@innovateuk.ukri.org
  - Worldwide NCP network - EU Member States, Associated Countries and many 'third' countries

- **The UK Knowledge Transfer Network (KTN)** has deep thematic knowledge and networks including in Europe to help companies identify opportunities and partners. It supports NCPs with their thematic activities.

- **Innovate UK EDGE:** Network around the UK providing local help. First point of contact for UK small businesses on the European Innovation Council (EIC) and other business support. They also have access to a large database of UK/other companies seeking collaboration.

- **UK Research Office (UKRO):**
  - UK NCPs for the European Research Council and Marie Skłodowska-Curie Actions
  - Regularly updated factsheet on UK participation on EU funded programmes – accessible by all
  - Those based at subscribing organisations can also get support on other areas of Horizon Europe and can register for updates

- **EU Intellectual Property (IP) Helpdesk:** very useful free to use helpdesk including helpline, training events and templates, guides and proformas (including Consortium Agreements, MOUs, NDA templates, how to write an exploitation and dissemination plan).

Extra slides for reference only

HORIZON EUROPE

THE NEXT EU RESEARCH & INNOVATION

PROGRAMME (2021 – 2027)

Horizon Europe - Pillar I - European Research Council (ERC) Summary of main calls 2021 and 2022

ERC Grant	Objectives	Maximum amount and duration of the grant	2021 Call Opening and Closing Dates	2022 Tentative Call Opening and Closing Dates
Starting Grant	Support for excellent Principal Investigators who are starting their own independent research team or programme. Principal Investigator should be between > 2 and ≤ 7 years post PhD	Up to EUR 1 500 000 for 5 years. Additional funding available	Call is open **Deadline: 8 Apr 2021**	Call opens: 23 Sept 2021 tbc **Deadline: 13 Jan 2022 tbc**
Consolidator Grant	Support for excellent Principal Investigators at the career stage at which they may still be consolidating their own independent research team or programme. Principal Investigator should be between > 7 and ≤ 12 years post PhD	Up to EUR 2 000 000 for 5 years. Additional funding available	Call is Open **Deadline: 20 Apr 2021**	Call opens: 19 Oct 2021 tbc **Deadline: 17 Mar 2022 tbc**
Advanced Grant	Support for excellent Principal Investigators at the career stage at which they are already established research leaders with a recognised track record of research achievements. No specific criteria on stage post PhD for Principal Investigator	Up to EUR 2 500 000 for 5 years. Additional funding available	Call opens: 20 May 2021 **Deadline: 31 Aug 2021**	Call opens: 20 Jan 2022 tbc **Deadline: 28 Apr 2022 tbc**
Synergy Grant	Support for a small group of two to four Principal Investigators to jointly address ambitious research problems that could not be addressed by the individual Principal Investigators and their teams working alone. No specific criteria on stage post PhD Principal Investigators	Up to EUR 10 000 000 for 6 years. Additional funding available *(information based on 2020 call details)*	**No call in 2021 Work Programme**	Call opens: 15 July 2021 tbc **Deadline: 10 Nov 2021 tbc**
Proof of Concept	All Principal Investigators in an ERC frontier research project, that is either ongoing or has ended less within time frame stipulated in work programme are eligible to participate.	Financial contribution awarded as a lump sum for a defined period. To be set in work programme.	Various dates, earliest deadline 14 Oct 2021 tbc	

Like more info?   UK National Contact Point: erc-uk@ukro.ac.uk / website / events.   Contact Points in other countries
ERC Website including page on grant schemes / newsletter (sign up at the bottom of the ERC Website)

Horizon Europe - Pillar I - Marie Skłodowska-Curie Actions (MSCA) €6.6 Billion 2021-2027

Year	Action	Estimated opening*	Estimated deadline*
2021	Doctoral Networks	18 May 2021	16 November 2021
	Postdoctoral Fellowships	18 May 2021	15 September 2021
	Staff Exchanges	7 October 2021	9 March 2022
	COFUND	12 October 2021	10 February 2022
	MSCA and Citizens (covers 2 editions)	17 June 2021	7 October 2021
2022	Doctoral Networks	3 May 2022	15 November 2022
	Postdoctoral Fellowships	13 April 2022	14 September 2022
	Staff Exchanges	6 October 2022	8 March 2023
	COFUND	11 October 2022	9 February 2023
	MSCA and Citizens	No call foreseen in 2022	

*Dates to be confirmed with the adoption of the Work Programme

UKRI Innovate UK

UKRI Medical Research Council

Horizon Europe – Pillar III – European Innovation Council (EIC)

Table 1. Summary of main calls in 2021[8]

	Who can apply	What for	Open calls (Section II)		Challenge driven calls (Section III)		
			Call deadline(s)	Indicative Budget (EUR million)	Challenges	Call deadline(s)	Indicative Budget(EUR million)
EIC Pathfinder	Consortia of at least three different independent legal entities (e.g. research organisations, universities, SMEs, industry) established in at least 3 different eligible countries. Single applicants or small consortia (two partners) may be able to apply for Pathfinder Challenges according to the call specifications.	Grants of up to EUR 3 million (open) or EUR 4 million (challenge driven) (or more if properly justified) to achieve the proof of principle and validate the scientific basis of breakthrough technology (TRL 1-4)	19 May 2021	168.00	1. Awareness inside 2. Tools to measure & stimulate activity in brain tissue 3. Emerging Technologies in Cell & Gene Therapy 4. Novel routes to green hydrogen production 5. Engineered living materials	27 October 2021	132.00
EIC Transition	Single applicants (SMEs, spin-offs, start-ups, research organisations, universities) or small consortia (two to 5 partners). Applications must build on results from eligible Pathfinder, FET or ERC Proof of Concept projects	Grants of up to EUR 2.5 million (or more if properly justified) to validate and demonstrate technology in application-relevant environment (TRL 4 to 5/6) and develop market readiness	22 September 2021	59.60	1. Medical devices 2. Energy harvesting and storage technologies	22 September 2021	40.50
EIC Accelerator	Single Start-ups and SMEs (including spin-outs), individuals (intending to launch a start-up/ SME) and in exceptional cases small mid-caps (fewer than 500 employees)	Blended finance: up to EUR 2.5 million grant component for technology development and validation (TRL 5/6 to 8); EUR 0.5 - 15 million investment component for scaling up and other activities.Grant only/grant first under certain conditions. Investment component only for small mid-caps or as follow up to grant only (i.e. for SMEs, including start-ups)	Any time (short applications) Full applications by 9 June 2021 and 6 October 2021	592.50	1. Strategic Health and Digital Technologies 2. Green Deal innovations for the economic recovery	Any time (short applications) Full applications by 9 June 2021 and 6 October 2021	495.10