



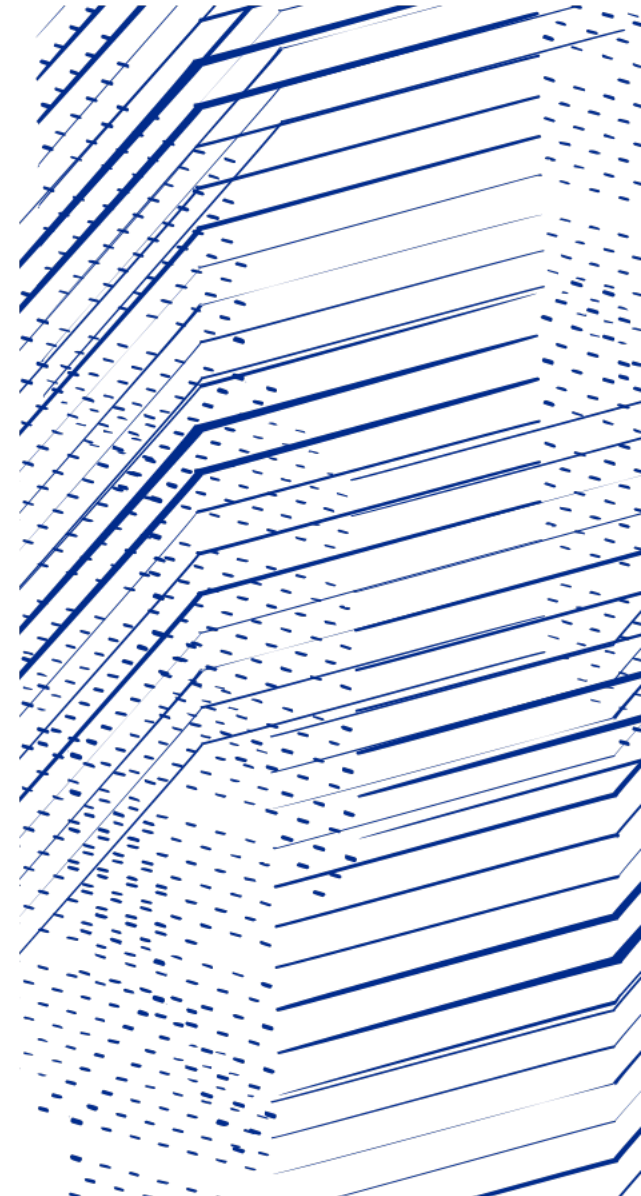
Science and
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Introduction to Horizon Europe Research Infrastructures

Alice Chadwick
National Contact Point for Research
Infrastructures, UK



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What is a National Contact Point?

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

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

Services can include:

- **Informing, awareness raising** – for 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

Please contact RINCPUK@stfc.ac.uk if you would be interested in the newsletter for the latest Horizon Europe news and Research Infrastructures funding opportunities

Horizon Europe: Research Infrastructures

Research Infrastructures: facilities providing resources and services for the research communities to conduct research and foster innovation (single site, distributed, virtual).

Providing **access to external users**, could be:

- knowledge related (archives, data infrastructures)
- major scientific equipment (telescopes, research vessels)
- ICT infrastructures (computing systems, communication networks)

Research Infrastructures contribute to:

1. Extend the frontiers of knowledge
2. Exchange and transmit knowledge
3. Train the next generation of top researchers
4. Support industrial innovation

Within Pillar 1: Excellent Science, alongside ERC and MSCA, with **€2.4bn** funding



The purpose of the RI Programme

Is **not**:

- **building** RIs.

MS and third countries come together to build RIs with Structural Funds and National Funding/in-kind contributions. Funding capital costs (with some exceptions)

It **is** aiming to:

- Develop an **advanced RI system** for the European Research Area (ERA)
- Support **Trans-National & Virtual Access** to RI
- Facilitate MS agreement on roadmaps for future pan-European RIs and RI upgrades via ESFRI
- Foster **international cooperation** of facilities, links with the private sector, and compliance with the **European Open Science Cloud**

Novelties of RIs in HE

- A new challenge-driven approach will join the science-driven one
- Emphasis on customisation and integration of (different) RI services to better support research addressing global challenges and political priorities
- Integrating Activity instrument discontinued: support to access provision and higher levels of integration separated from joint research for the next generation of instrumentation
- New efforts to consolidate the existing landscape of European RI

Strategic objectives 2021-2024

- **Consolidate and enhance** the EU research infrastructures **landscape**
- Support **Open Science and data-driven research** through the European Open Science Cloud (EOSC) and high capacity network
- Enable and drive the green and digital transformation through **research infrastructure services**
- Push the limits of **frontier research**
- Develop **cutting-edge technologies** for RIs and foster innovation
- Enhance the **international dimension** of RIs

HE RI Work Programme 2021-2022

5 Destinations: packages of actions contributing to specific objectives and expected impacts

- **10 calls:** 6 calls in 2021 – deadlines: 23/9/2021 (4 calls), 15/6/2021 and 20/1/2022
4 calls in 2022 – deadlines: 20/4/2022 (3 calls), and 21/9/2022
- **29 topics:** 22 in 2021 and 7 in 2022

Other actions not subject to calls for proposals:

- **2 ‘COVID-19’ actions with call for expression of interest** (art. 195b): **early publication -> 6th April 2021, closing date 20th May**
- **2 topics for intended beneficiaries:** ICRI 2022 Conference, ESFRI 20 year anniversary event
- **1 public procurement** for EOSC core infrastructure (2022)
- **2 SGAs** for the Research and Education Networks FPA
- **External expertise:** reviewers; individual experts; ERICs evaluators
- **Section on specific features for RIs:** conditions and requirements on TNA and VA provision

Call types

Research and Innovation Actions (RIA) – up to 100% funding rate (including 25% contribution to indirect costs)

- Aiming to establish new knowledge or explore feasibility of a new or improved technology, process, service or solution
- May include basic/applied research, technology development and integration, testing, etc
 - **Page limit: usually 45 pages**

Innovation Actions (IA) – up to 70% funding rate (except non-profit: 100%) (including 25% contribution to indirect costs)

- Activities directly aimed at producing plans and arrangements or designs for new, altered or improved products, processes, or services
- Possibly including prototyping, testing, demonstrating, large-scale product validation
 - **Page limit: usually 45 pages**

Coordination and Support Actions (CSA) – up to 100% funding rate

- Activities contributing to the objectives of the Horizon Europe Programme excluding R&I activities (with some exceptions – see the General Annexes for the Work Programme)
 - **Page limit: usually 30 pages**

RI Destination INFRADEV

An example call

Call - Developing, consolidating and optimising European Research Infrastructures to maintain global leadership (2021)

HORIZON-INFRA-2021-DEV-01

Conditions for the Call

Indicative budget(s)³

Topics	Type of Action	Budgets (EUR million)	Expected EU contribution per project (EUR million) ⁴	Number of projects expected to be funded
		2021		
Opening: 08 Jun 2021 Deadline(s): 23 Sep 2021				
HORIZON-INFRA-2021-DEV-01-01	CSA	2.50	1.50 to 2.50	1
HORIZON-INFRA-2021-DEV-01-02	CSA	1.50	0.80 to 1.50	1
HORIZON-INFRA-2021-DEV-01-03	CSA	1.50	0.80 to 1.50	1



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An example topic

HORIZON-INFRA-2021-DEV-01-01: Support to the European Strategy Forum on Research Infrastructures

Specific conditions

<i>Expected EU contribution per project</i>	The EU estimates that an EU contribution of between EUR 1.50 and 2.50 million would allow these outcomes to be addressed appropriately. Nonetheless, this does not preclude submission and selection of a proposal requesting different amounts.
<i>Indicative budget</i>	The total indicative budget for the topic is EUR 2.50 million.
<i>Type of Action</i>	Coordination and Support Actions
<i>Funding rate</i>	100%

Expected Outcome: Project results are expected to contribute to all the following expected outcomes:

- enhanced efficiency, impact and visibility of ESFRI strategy and actions;
- better structured and strengthened European research infrastructure ecosystem;
- reinforced global competitiveness of the European Research Area;
- coordination and alignment of EU and national priorities for RIs.



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An example topic

Scope: The European Strategy Forum on Research Infrastructures (ESFRI) brings together policy makers, funding bodies and the scientific community to identify investment priorities for pan-European research infrastructures as well as foster their implementation, sustainability and impact. A comprehensive and efficient support structure is essential for the effective execution of ESFRI tasks and activities.

In this respect, proposals should support ESFRI in carrying out the following activities:

- development and publishing of the ESFRI Roadmap;
- development and execution of the ESFRI communication and outreach strategy, including organisation of ESFRI-led conferences and outreach events;
- strengthen ESFRI analytical capacity, including through the use of external expertise in support of ESFRI policy and the ESFRI Roadmap processes;
- effective evaluation and monitoring of research infrastructures on the ESFRI Roadmap through appropriate ICT and analytical tools;
- fostering cooperation, exchange of experiences and good practices between the research infrastructures, their managers and stakeholders, as well as the funding bodies, including managing authorities of Cohesion policy programmes and policy makers;
- ensuring cooperation of ESFRI with the EOSC as well as with any other relevant bodies and stakeholders at European or international level.

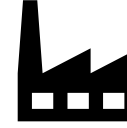
RI Destinations



Developing,
Consolidating and
Optimising European RIs
Landscape, Maintaining
Global Leadership
(**ESFRI**)



Enabling an Operational,
Open and FAIR
**European Open
Science Cloud**
Ecosystem



RI Services to Support
Health Research,
Accelerate the Green and
Digital Transformation,
and Advance Frontier
Knowledge (**thematic**)

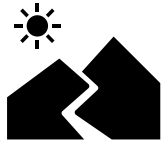
Next Generation of
Scientific Instrumentation,
Tools and Methods and
Advanced Digital
Solutions

Network Connectivity in
Research and Education
– Enabling Collaboration
Without Boundaries



RI Destination INFRADEV

Aiming to develop a European strategy for RI, building on the ESFRI RIs and ERICs to develop the RI landscape by stimulating new ideas and consolidating, enhancing RIs for international cooperation, and strengthening accessibility and resilience of European RIs



Developing,
Consolidating and
Optimising European
RIs Landscape,
Maintaining Global
Leadership (**ESFRI**)

- **RI concept development** of next generation of EU RIs
- Preparatory phase of new RIs implemented with the **ESFRI Roadmap**
- Support to **ESFRI** and **e-IRG**
- **Strengthen cooperation** on RI with international partners
- **International Conference on RI** and other events for RI
- Facilitate **transition to remote/digital RI service provision**

RI Destination INFRADEV

2021 funding opportunities: opens 8th June 2021, closes 23 September 2021

Call: Developing, consolidating and optimising the European research infrastructure landscape, maintaining global leadership (2021)

Topic reference number	Topic title	Funding action	Indicative size (€ million)	Indicative budget (€ million)	No. projects
INFRA-2021-DEV-01-01	Support to the European Strategy Forum on Research Infrastructures	CSA	1.5-2.5	1.5-2.5	1
INFRA-2021-DEV-01-02	Strengthen the bilateral cooperation on research infrastructures with Africa: improving the knowledge base on climate change in Africa	CSA	1.5	0.8-1.5	1
INFRA-2021-DEV-01-03	Transition to digital/remote research infrastructure service provision: lessons learnt, needs and best practices	CSA	1.5	0.8-1.5	1
INFRA-2021-DEV-01-04	Support to National Contact Points (NCPs) for Research Infrastructures	CSA	2	1.5-2	1
INFRA-2021-DEV-01-05	Support to the e-Infrastructure Reflection Group (e-IRG)	CSA	0.3	~0.3	1

RI Destination INFRADEV

2022 funding opportunities: opens 30th September 2021, closes 20th January 2022

Call: Developing and consolidating the European research infrastructure landscape, maintaining global leadership (2021)

Topic reference number	Topic title	Funding action	Indicative size (€ million)	Indicative budget (€ million)	No. projects
INFRA-2021-DEV-02-01	Preparatory phase of new ESFRI research infrastructure projects	CSA	36	1.5-3	12
INFRA-2021-DEV-02-02	Consolidation of the research infrastructure landscape – Individual support for ESFRI projects	CSA	1-1.5	7.5	5

RI Destination INFRAEOSC

Aiming to develop the European Open Science Cloud as a platform for FAIR research data, transform the way data is shared and exploited (better quality and productivity), facilitate multi-disciplinary cooperation, improve trust in science through openness



Enabling an
Operational, Open
and FAIR **European**
Open Science
Cloud Ecosystem

- Supporting **Open Science practices** and a digitally-skilled workforce
- **EOSC-Core** and services – develop key functions to provide a fully operational environment for discovering, access, sharing, re-using data and services
- Disciplinary/Multidisciplinary/Horizontal use cases and services for FAIR
- Support to **specific entities**:
 - New **EOSC** partnership in its start-up phase
 - **International Standardisation** for research data solutions suited to the EOSC context

RI Destination INFRAEOSC

2021 funding opportunities: opens 8th June 2021, closes 23rd September 2021

Call: Enabling an operational, open and FAIR EOSC ecosystem (2021)

Topic reference number	Topic title	Funding action	Indicative size (€ million)	Indicative budget (€ million)	No. projects
INFRA-2021-EOSC-01-01	Supporting an EOSC-ready digitally skilled workforce	CSA	7	7	1
INFRA-2021-EOSC-01-02	Supporting the development and coordination of activities of the EOSC Partnership	CSA	4	4	1
INFRA-2021-EOSC-01-03	Deploying EOSC-Core components for FAIR	RIA	10	10	1
INFRA-2021-EOSC-01-04	Innovative and customisable services for EOSC	RIA	3-5	20	4
INFRA-2021-EOSC-01-05	Enabling discovery and interoperability of federated research objects across scientific communities	CSA	10	10	1
INFRA-2021-EOSC-01-06	FAIR and open data sharing in support of cancer research	RIA	8	8	1

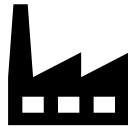
RI Destination INFRAEOSC

2022 funding opportunities: opens 19th Jan 2022, closes 20th April 2022

Call: Enabling an operational, open and FAIR EOSC ecosystem (2022)

Topic reference number	Topic title	Funding action	Indicative size (€ million)	Indicative budget (€ million)	No. projects
INFRA-2022-EOSC-01-01	Services and tools to underpin a research assessment system that incentivises open science practices	RIA	2-3	6	3
INFRA-2022-EOSC-01-02	Improving and coordinating technical infrastructure for institutional open access publishing across Europe	RIA	~5	5	1
INFRA-2022-EOSC-01-03	FAIR and open data sharing in support of healthy oceans, seas, coastal and inland waters	RIA	6-8	16	2
INFRA-2022-EOSC-01-04	Support for initiatives helping to generate global standards, specifications and recommendations for open sharing of FAIR research data, publications and software	CSA	3	~3	1

RI Destination INFRA SERV



RI Services to Support
Health Research,
Accelerate the Green and
Digital Transformation,
and Advance Frontier
Knowledge (**thematic**)

- Provide **efficient and customised RI services** (e.g. access to unique scientific tools, samples provision, processing and analysis, data services) to support an **effective and responsive health and care system** and accelerate the transition towards a **green and digital future**
- Provide **RI services** to enable the advancement of frontier knowledge
- Enhance **long-term problem solving capacity** in areas linked to health and the green and digital transitions, including a better understanding of societal and economic implications



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RI Destination INFRA-SERV

2021 funding opportunities: opens 8th June 2021, closes 23 September 2021

Call: Research infrastructure services to support health research, accelerate the green and digital transformation, and advance frontier knowledge (2021)

Topic reference number	Topic title	Funding action	Indicative size (€ million)	Indicative budget (€ million)	No. projects
INFRA-2021-SERV-01-01	Research infrastructure services to support research addressing cancer	RIA	10-15	70	1
INFRA-2021-SERV-01-02	Research infrastructure services for a sustainable and resilient agriculture and agro-ecological transition	RIA	10-15		1
INFRA-2021-SERV-01-03	Research infrastructure services for responding to climate-related risks on the environment	RIA	10-15		1
INFRA-2021-SERV-01-04	Research infrastructure services enabling the development of materials for a circular economy	RIA	10-15		1
INFRA-2021-SERV-01-05	Research infrastructure services for sustainable and inclusive Global Value Chain and Europe recovery from socio-economic crises	RIA	7-10		1

RI Destination INFRA-SERV

2021 funding opportunities: opens 8th June 2021, closes 23 September 2021

Call: Research infrastructure services to support health research, accelerate the green and digital transformation, and advance frontier knowledge (2021)

Topic reference number	Topic title	Funding action	Indicative size (€ million)	Indicative budget (€ million)	No. projects
INFRA-2021-SERV-01-06	Enabling research infrastructure services for better use of imaging data to address challenges in thematic research areas	RIA	2.5-4.5	9	3
INFRA-2021-SERV-01-07	Research infrastructure services advancing frontier knowledge	RIA	10-14.5	33.2 (2021), 10.3 (2022)	3

RI Destination INFRA-SERV

2022 funding opportunities: opens 1st June 2022, closes 21st September 2022

Call: Research infrastructure services to support health research, accelerate the green and digital transformation (2022)

Topic reference number	Topic title	Funding action	Indicative size (€ million)	Indicative budget (€ million)	No. projects
INFRA-2022-SERV-01-01	Implementing digital services to empower neuroscience research for health and brain inspired technology via EBRAINS	RIA	38	38	1

RI Destination INFRA SERV

Challenge-driven topics in:

- Health: 2 topics on **cancer** and **EBRAINS** + 1 action on infectious diseases (COVID)
- Food and agriculture: 1 topic on **sustainable agriculture and agroecology**
- Environment/atmosphere: 1 topic on **climate change risks**
- Analytical physics for matter analysis: 1 topic on **sustainable materials**
- Socio-economic sciences: 1 topic on **recovery from socio-economic crisis**
- Data, Computing and Digital: 1 topic on acquisition and use of **imaging data**

Curiosity-driven topics in:

- **Environment/Geosphere:** including geo-hazards and geo-resources
- **Environment/Biosphere:** terrestrial biodiversity and ecosystems, including Arctic and forest
- **Particle and nuclear physics**

***Astronomy, Energy, Humanities** -> not proposed for the 2021-2022 WP because access provision in these domains is well covered by ongoing H2020 grants.*

To ensure continuity in the provision of access, these domains are proposed in 2023-2024

RI Destination INFRATECH

Aiming to develop ground-breaking RI technologies, i.e. scientific instruments, tools, methods, advanced digital solutions, to enable new discoveries and ensure Europe and RIs are at the forefront of technological excellence, in cooperation with industry



Next Generation of
Scientific
Instrumentation, Tools
and Methods and
Advanced Digital
Solutions

- **Research and development for the next generation of scientific instruments**, tools and methods – advance the state-of-art European RIs, show transformative potential across scientific domains, serve a wider community of users and/or new areas of research and underpin the provision of improved and advanced services
- **Interdisciplinary Digital Twins** – digital replicas of living or non-living physical entities modelling and simulating ultra-complex phenomena and advancing scientific discovery, as well as delivering socio-economically beneficial technical and software solutions and services to interdisciplinary research communities

RI Destination INFRA TECH

2021 funding opportunities: opens 8th June 2021, closes 23 September 2021

Call: Next generation of scientific instrumentation, tools and methods (2021)

Topic reference number	Topic title	Funding action	Indicative size (€ million)	Indicative budget (€ million)	No. projects
INFRA-2021-TECH-01-01	Interdisciplinary digital twins for modelling and simulating complex phenomena at the service of research infrastructure communities	RIA	9-12	28 (2021), 8 (2022)	4

RI Destination INFRA TECH

2021 funding opportunities: opens 19th Jan 2022, closes 20th April 2022

Call: Next generation of scientific instrumentation, tools and methods (2021)

Topic reference number	Topic title	Funding action	Indicative size (€ million)	Indicative budget (€ million)	No. projects
INFRA-2022-TECH-01-01	R&D for the next generation of scientific instrumentation, tools and methods	RIA	5-10	110	11

RI Destination INFRANET

Aiming for a fast, resilient connectivity to access applications, enable global collaboration of virtual activities, keep Europe at the forefront of global Research & Education by attracting data and talent and borderless collaboration, achieving global connectivity and international collaboration



Next Generation of
Scientific
Instrumentation, Tools
and Methods and
Advanced Digital
Solutions

- Both **EU internal** and **EU external dimensions** covered
- Setting up of the **Framework Partnership Agreement (FPA)** providing overall goals for:
 - New pan-EU programme to meet **huge growth in network capacity** and demand for advanced services
 - **Paradigm shift** in digital science and computational infrastructures over the next 10 years
- **Specific Grant Agreement (SGA)** on basis of FPA goals:
 - Operational excellence in connectivity and collaboration services; widening of user base; access to European Data Spaces; convergence of AAI across R&E
 - International collaboration with Regional Networks to ensure scientists and researchers access to world class RI worldwide; investments for long-term acquisitions of capacity and associated equipment for domestic and international connectivity

RI Destination INFRANET

2021 funding opportunities: opens 19th May 2021, closes 22 June 2021

Network connectivity in Research and Education – Enabling collaboration without boundaries (2021)

Topic reference number	Topic title	Funding action	Indicative size (€ million)	Indicative budget (€ million)	No. projects
INFRA-2021-NET-01-01-FPA	Framework Partnership Agreement (FPA) for Research and Education Networks	CSA			1

Specific Features for Research Infrastructure

Trans-national and/or virtual access activities

- **Trans-national access activities:**
 - Offered under the grant provided **'free of charge'** to selected researchers/teams inc. industry
 - **Access** for external users either **in person** or through provision to user of **remote scientific services**
 - Research infrastructures must **publicise** widely the access offered under the grant agreement and **open specific calls to invite applications for access**, taking into account equal opportunities and gender issues, with **selection carried out by independent peer-review evaluation**
 - Must **document** to support and justify the amount of access reported – units of access to be identified and defined in the proposal
 - Users (or a majority of the team) **must work in countries other than that where the RI is located** except where access is provided by an international organisation, the JRC, an ERIC, or other legal entity with international membership
 - **Duration of stays at the RI limited to 3 months** unless provided for in proposal
 - **Financial support covers access costs incurred**, and travel/subsistence costs incurred supporting the visits
 - **Does not include capital investments** inc. depreciation costs of equipment, infrastructure, etc unless specified in the WP

Specific Features for Research Infrastructure

Trans-national and/or virtual access activities

- **Virtual access activities:**
 - Virtual access to RI to be **provided through communication networks to users complying with RI's access policy**, without selection, e.g. database access online
 - Must **publicise** widely the access offered under the grant agreement
 - **Financial support** to virtual access will **cover access costs** incurred by the infrastructure in providing access under the project including technological and scientific support researchers need to effectively use the services
 - **Capital investments** and internally invoiced goods and services **will not be eligible costs** unless specified under the call topic (in which case only the portion used to provide virtual access can be eligible)
 - A **unit of access** to each RI service **must be identified and precisely defined in the proposal**
 - **Provision of virtual access** during the project lifetime will **be measured through units of access** defined in the grant agreement and **must be periodically assessed by an external board**
 - **Eligibility criteria** (e.g. affiliation to a research or academic institution) for users can be **defined in the proposal**, to take into account the access policies of the different RIs

Crossover topics



Total funding excludes UK and other
Associated Country contributions

Health (€8.3 billion over 2021-2027)

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

2021-2022 Draft Work Programme: At least 48 call topics worth €1.8 bn

Culture, Creativity and Inclusive Society (€2.3 bn)

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

2021-2022 Draft Work Programme: At least 47 call topics worth €423 m

Civil Security for Society (€1.6 bn)

1. Better protect the EU and its citizens against crime and terrorism
2. Effective management of EU external borders
3. Resilient infrastructure
4. Increased cybersecurity
5. A disaster resilient society for Europe
6. Strengthened security research & innovation

2021-2022 Draft Work Programme: At least 94 projects funded worth €413 m

- [Horizon Europe Collaborative Funding Overview Webinar](#)
- [Cluster webinars](#)

Digital AI, data & computing / photonics & electronics / smart networks & connectivity / robotics / quantum / digital economy

(€15.4 bn)

Industry Circular industries / resource & energy efficiency / digital & agile manufacturing / sustainability by design / smart, multi-functional materials (incl. graphene, nano & bio) / advanced materials for energy storage (incl. hydrogen & electrification)

Space Satellite technology / access to space / space data / space science / space robotics

2021-2022 Draft Work Programme: No of topics and value tbc

Climate Climate sciences & responses / a competitive & sustainable European battery value chain / emerging breakthrough technologies & climate solutions / citizens & stakeholder engagement / communities & cities

(€15.1 bn)

Energy Global leadership in renewable energy / energy systems, grids & storage / carbon capture, utilisation & storage / cross-cutting issues / highly energy-efficient & climate neutral EU building stock / industrial facilities in the energy transition / hydrogen partnership

Mobility Zero-emission road transport / aviation / enabling climate neutral, clean, smart & competitive waterborne transport / impact of transport on environment & human health / connected, cooperative & automated mobility (CCAM) / safety & resilience - per mode & across all modes / multimodal & sustainable transport systems for passengers & goods

2021-2022 Draft Work Programme: 421 projects funded worth €2.77 bn

Food, Bioeconomy, Natural Resources, Agriculture and Environment (€9.0bn)

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

2021-2022 Draft Work Programme: At least 183 call topics worth €1.76 bn



Katie Dingley
Health
Health
(Academia)



Jo Frost
Health
(Industry)



Anni Laihanen
Culture, Creative
& Inclusive
Society



Zale Johnson
Security



Stafford Lloyd
Digital



Abishek Ramesh
Industry &
Materials



Catherine Holt
Space + Natural
Resources



Emma Fenton
Climate &
Environment



Helen Fairclough
Energy



Louise Mothersole
Transport &
Mobility



Helen Sweeney
Food &
Agritech



Paul Bello
Biotechnology

NCPs for [Europe](#)
and the rest of
the world



UK Research
and Innovation

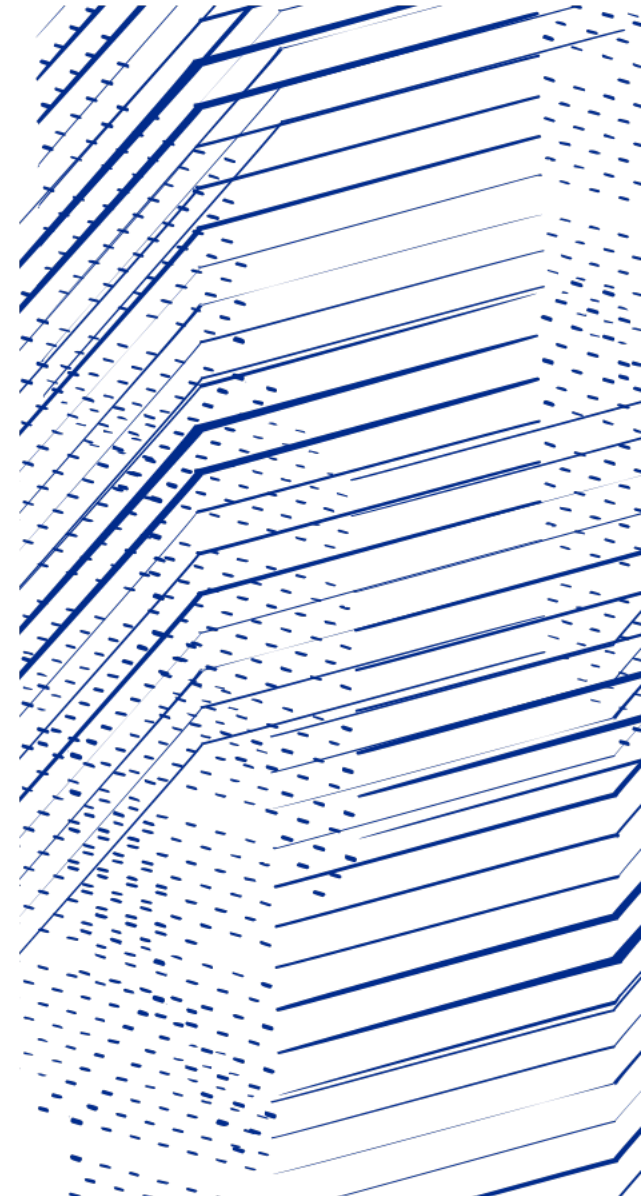


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Break



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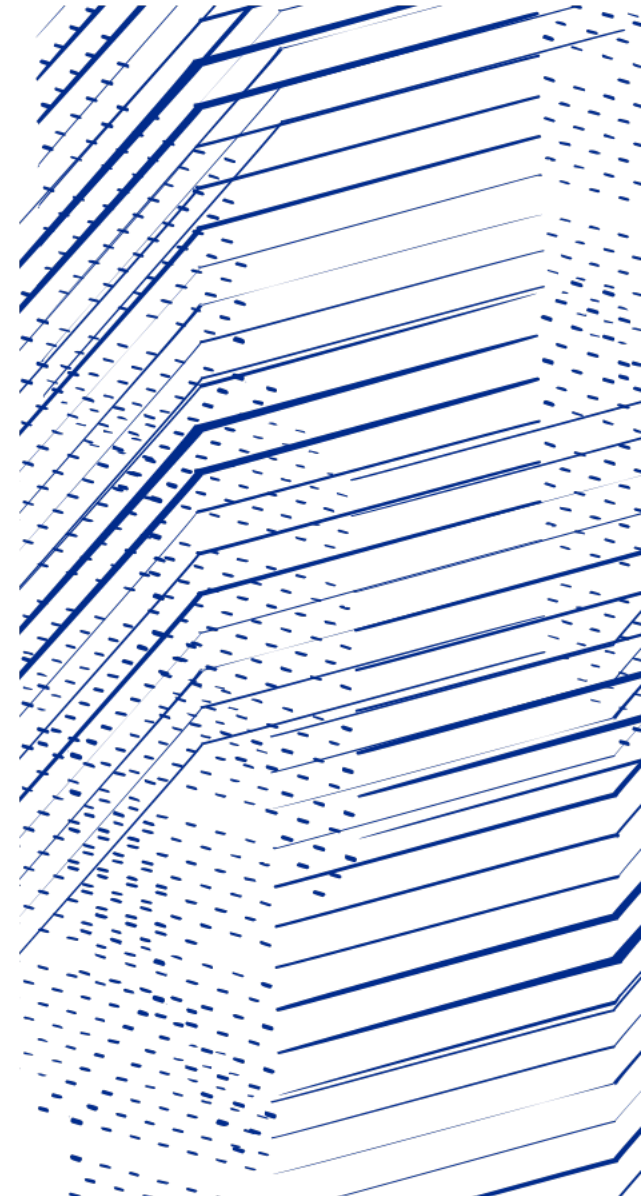


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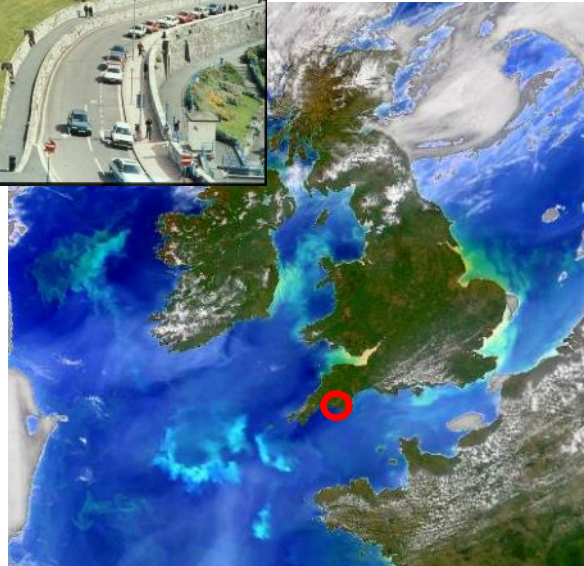
Case study



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The Marine Biological Association Plymouth, UK



ASSEMBLE 



1. Joint Research Activities

- JRA1: Genomic Observatories
- JRA2: Cryobanking of Marine Organisms
- JRA3: Functional Genomics
- JRA4: Development of instrumentation



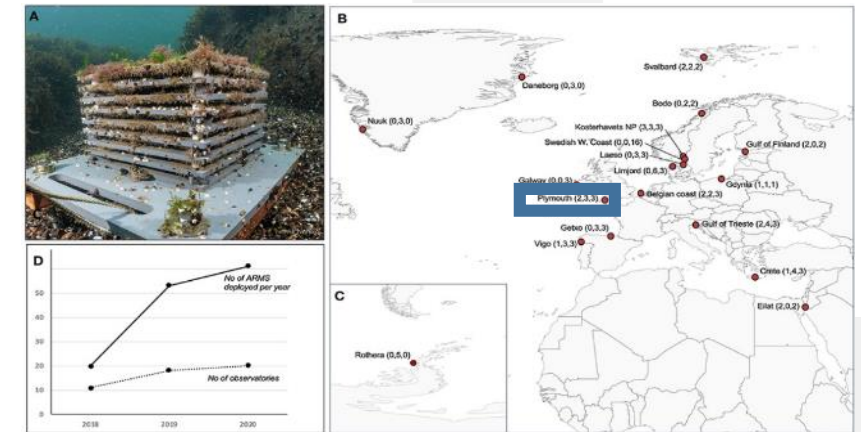
2. Networking Activities

- NA2: Improving virtual access to marine biological stations data, information and knowledge
- NA4: Long-term sustainability of marine biological stations

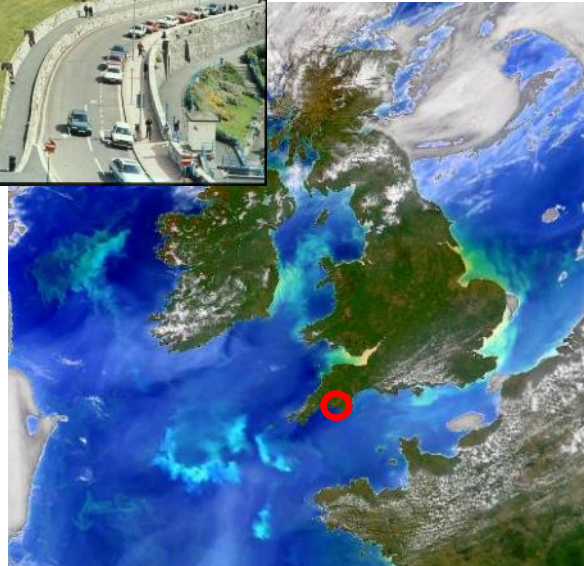
3. Trans-national activities



Autonomous Reef Monitoring Structures (ARMS)



The Marine Biological Association Plymouth, UK



ASSEMBLE 



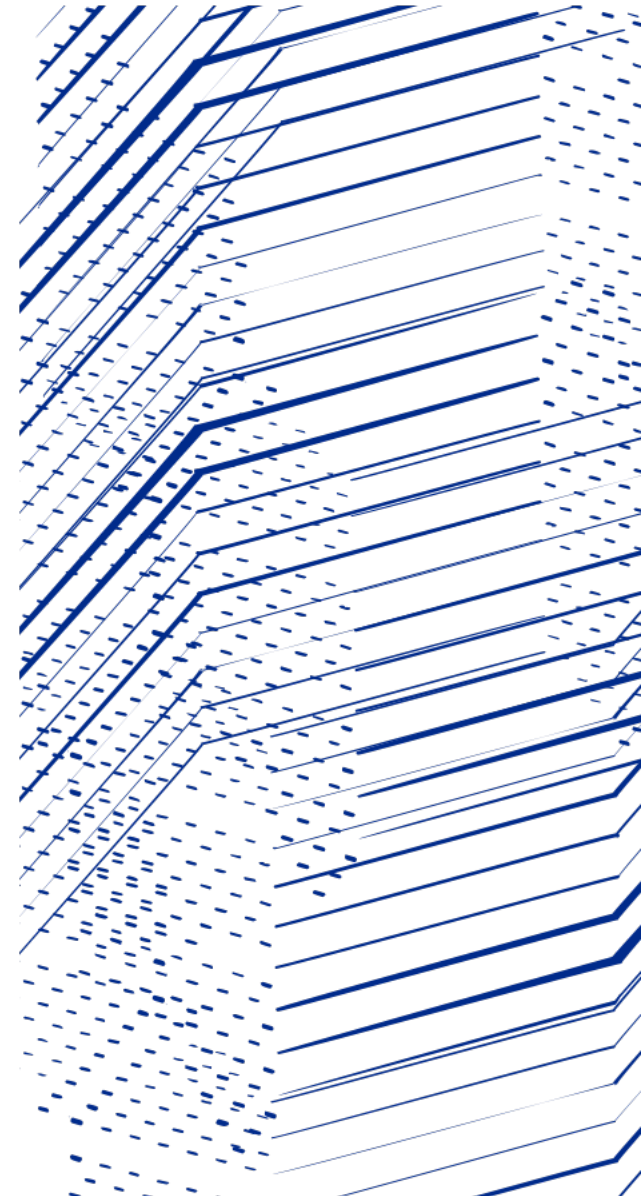


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How to apply, useful resources and available support



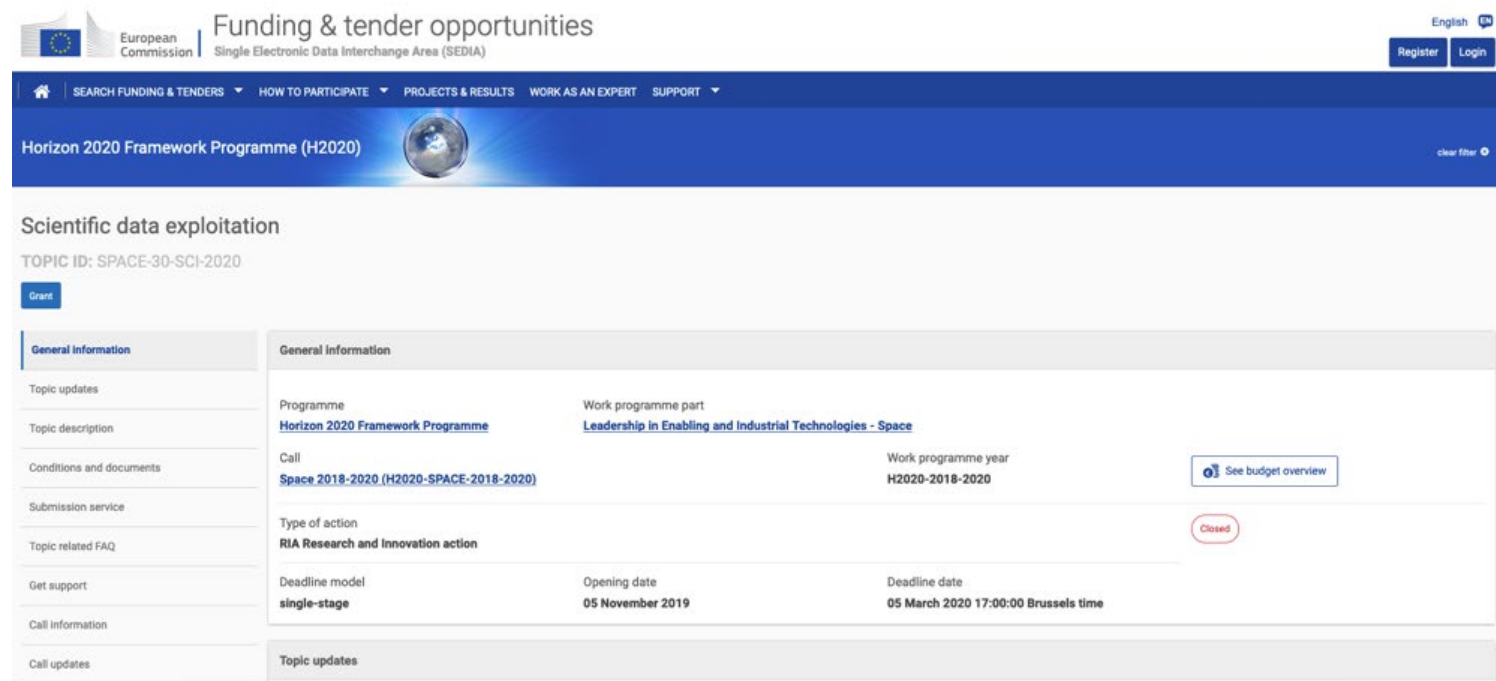
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EU Funding and Tenders Portal

All calls for proposals (called Topics) are published on the EU's [Funding and Tenders Portal](#) from April/May onwards

- Create a personal account (top right) and register your organisation to get a Participant Identification Code (PIC)
- Each Topic has its own webpage with everything you need to know – read it all (expand the sections to see 'More Info')



The screenshot shows the EU Funding and Tenders Portal interface. At the top, there's a header with the European Commission logo and the text 'Funding & tender opportunities Single Electronic Data Interchange Area (SEDIA)'. On the right, there are links for 'English', 'Register', and 'Login'. Below the header is a navigation bar with links: 'SEARCH FUNDING & TENDERS', 'HOW TO PARTICIPATE', 'PROJECTS & RESULTS', 'WORK AS AN EXPERT', and 'SUPPORT'. The main content area is titled 'Horizon 2020 Framework Programme (H2020)' and features a search bar. Below this, the specific topic 'Scientific data exploitation' is displayed with the 'TOPIC ID: SPACE-30-SCI-2020'. A 'Grant' button is visible. On the left, there's a sidebar with a 'General Information' section and a list of links: 'Topic updates', 'Topic description', 'Conditions and documents', 'Submission service', 'Topic related FAQ', 'Get support', 'Call information', and 'Call updates'. The main content area shows details for the 'General Information' section, including the 'Programme' (Horizon 2020 Framework Programme), 'Work programme part' (Leadership in Enabling and Industrial Technologies - Space), 'Call' (Space 2018-2020 (H2020-SPACE-2018-2020)), 'Work programme year' (H2020-2018-2020), 'Type of action' (RIA Research and Innovation action), 'Deadline model' (single-stage), 'Opening date' (05 November 2019), and 'Deadline date' (05 March 2020 17:00:00 Brussels time). A 'See budget overview' button is also present. A red 'Closed' status indicator is shown in a circle.

General Information		
Programme	Work programme part	
Horizon 2020 Framework Programme	Leadership in Enabling and Industrial Technologies - Space	
Call	Work programme year	
Space 2018-2020 (H2020-SPACE-2018-2020)	H2020-2018-2020	
Type of action		
RIA Research and Innovation action		
Deadline model	Opening date	Deadline date
single-stage	05 November 2019	05 March 2020 17:00:00 Brussels time

Draft documents

- General introduction: [January 2020 version](#), [March 2021 version*](#)
- General annexes: [November 2020 version](#), [January 2021 version](#), [March 2021 version*](#)
- [Annex 2: Marie Skłodowska-Curie Actions](#)
- [Annex 3: Research Infrastructures](#).
- Strategic plan: [November 2020 version](#), [January 2021 version](#)
- [Model grant agreement](#)
- [Proposal template](#)
- European Research Council: [Final work programme](#)
- [Widening and European Research Area](#)
- [The European Innovation Council](#)
- Research missions: [February 2021 version](#), [March 2021 version*](#)
- [Digital, Industry, Space](#)
- Digital, industry and space cluster: [December 2020 version](#), [February 2021](#)
- Health cluster: [October 2020 version](#); [January 2021 version](#), [March 2021 version*](#)
- Climate, energy, and mobility: [November 2020 version](#), [February 2021 version](#), [February 2021 version 2*](#)
- [Food, Bioeconomy Natural Resources, Agriculture and Environment](#)
- Culture, creativity and inclusive society: [October 2020 version](#), [December 2020 version](#)
- Civil security for society: [September 2020 version](#), [October 2020 version](#), [January 2021 version*](#)
- Euratom: [February 2021 version*](#)
- [Research infrastructures outline](#)
- [Slides from meeting of the Shadow Strategic Configuration](#)



<https://sciencebusiness.net/framework-programmes/horizon-papers>



European Commission

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Details

Additional Information

Meetings

Subgroups

Statistics

Members

Name: Commission Expert group to act as "shadow" Strategic Configuration of the Horizon Europe Programme Committee (E03662)

Active

Date	Title	Open to the public	Web streaming
11/03/2021	8th meeting of sub-group 11. Health	No	No
03/03/2021	18th meeting of the Shadow Strategic Configuration of the Horizon Europe Programme Committee	No	No
26/02/2021	5th meeting of sub-group 2. (MB) Cancer	No	No
12/02/2021	6th meeting of sub-group 3. (MB) Healthy Oceans, Seas, Coastal and Inland Waters	No	No
11/02/2021	17th meeting of the Shadow Strategic Configuration of the Horizon Europe Programme Committee	No	No
08/02/2021	2nd meeting of Sub-group 19. Fission	No	No
08/02/2021	2nd meeting of Sub-group 20. Fusion	No	No
04/02/2021	5th meeting of sub-group 14. Digital, Industry and Space	No	No
27/01/2021	7th meeting of sub-group 11. Health	No	No
26/01/2021	Informal meeting of sub-group 12. Culture, creativity and inclusive Society	No	No

Page: 1

Showing records 1 - 10 of 115 page: 1 of 12

<https://ec.europa.eu/transparency/regexpert/index.cfm?do=groupDetail.groupDetail&groupID=3662>

The Proposal

All proposals are submitted electronically via the Topic webpage on the [Funding and Tenders Portal](#)

- Part A – administrative information completed online
- Part B – technical proposal template downloaded from the Portal, completed and then uploaded as PDF
 - Section 1 – Excellence
 - Section 2 – Impact
 - Section 3 – Implementation

Research and Innovation Action (RIA) and Innovation Actions (IA)

- Part B - Technical proposal is maximum 45 pages

Coordination and Support Action (CSA)

- Part B - Technical proposal is maximum 30 pages

Proposal Evaluation

- Carried out by independent experts – you and your colleagues [should register](#). You won't be allowed to evaluate your own competition but if called upon elsewhere it will give valuable insight
- Maximum score of 15 points available, 5 for each section:
 - **Excellence**
 - **Impact**
 - **Quality and efficiency of the proposal**
- Threshold – minimum of 10 points overall **and** minimum of 3 points for each section
- Proposals then ranked (for Innovation Actions, Impact given a weighting of 1.5 in ranking)
- Proposals meeting both thresholds will be funded from top-down ranking, as far as budget allows
- Tied scores: additional criteria used in ranking including proportion of budget allocated to SMEs, gender balance of project team and others

Additional useful information

- Check out the [Reference Documents](#) – 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 and has additional information such as international collaboration

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](#)
 - Legal and Financial queries – Stephen Alexander
 - [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).

Further Information

Introduction to Horizon Europe webinar recording: [Introduction to Horizon Europe Webinar - KTN \(ktn-uk.org\)](https://ktn-uk.org/)

UK NCPs: <https://www.gov.uk/business-finance-support/horizon-2020-business-grants-uk#find-your-uk-national-contact-point-for-advice>

Horizon Europe dedicated website: https://ec.europa.eu/info/horizon-europe_en

UKRI: <https://www.ukri.org/apply-for-funding/horizon-europe/>

UKRO: https://www.ukro.ac.uk/Pages/eu_programmes.aspx

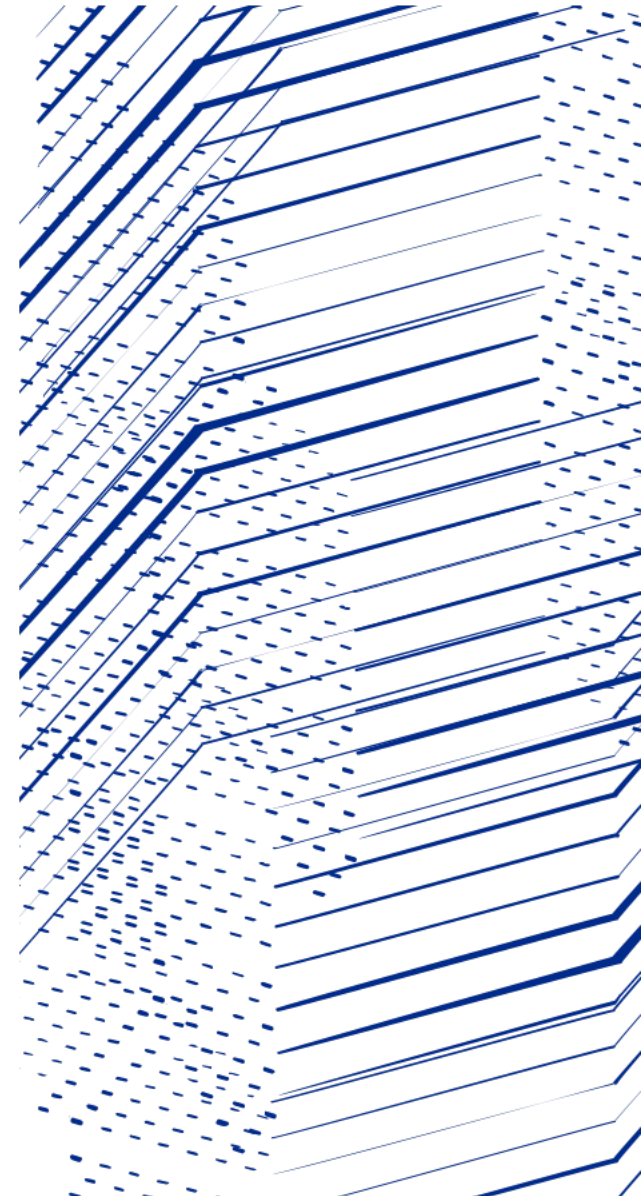


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Next steps and close



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Next steps

I'm interested in exploring an opportunity, what should I do?

- Don't wait for the UK to associate, or for clarity on the work programmes!
- Identify your areas of interest
- Contact the relevant NCP to discuss your proposal idea and discuss its relevance to the current Calls for Proposals
- Prepare a proposal summary
- Find out what has been funded already and which organisations are involved
- Approach potential partners – engage and network, work with communities across the EU so that you're in a good place to engage further down the line
- Keep an eye on the Funding and Tenders Portal – upcoming calls appear here

Next steps

I'm interested in exploring an opportunity, what should I do?

- Attend relevant webinars and info days

Info Days 2021		
28 JUNE	INFRASTRUCTURES	
29 & 30 JUNE	DIGITAL, INDUSTRY & SPACE	CLUSTER 4
30 JUNE	CIVIL SECURITY FOR SOCIETY	CLUSTER 3
01 JULY	CULTURE, CREATIVITY & INCLUSIVE SOCIETIES	CLUSTER 2
01 JULY	MARIE SKŁODOWSKA-CURIE ACTIONS	
02 JULY	HEALTH	CLUSTER 1
05 & 06 JULY	CLIMATE, ENERGY & MOBILITY	CLUSTER 5
07 & 08 JULY	FOOD, BIOECONOMY, NATURAL RESOURCES AGRICULTURE & ENVIRONMENT	CLUSTER 6
09 JULY	ERA & WIDENING	
THE EU RESEARCH & INNOVATION PROGRAMME		
Investing in OUR FUTURE together		

European Commission HE Info Days

<https://www.horizon-europe-infodays2021.eu/>



Horizon Europe Consortia Building Series

This webinar series brought to you by KTN Global Alliance in partnership with UK National Contract Points (NCPs) will focus on pitching of project ideas and brokering partnerships for European Research and Innovation collaborations and networking
#UKinHorizon

14th, 17th, 21st June 2021

<https://ktn-uk.org/events/horizon-europe-consortia-building-series/>

Horizon Europe

How can you help?

- Spread the word that UK organisations can take part
- Have a look at the Work Programme and think if you know of any companies who might be interested in the call topics
- Encourage organisations to start to form consortiums and find partners
- Spread the word to other countries
- Help re-establish the high levels of UK participation and engagement

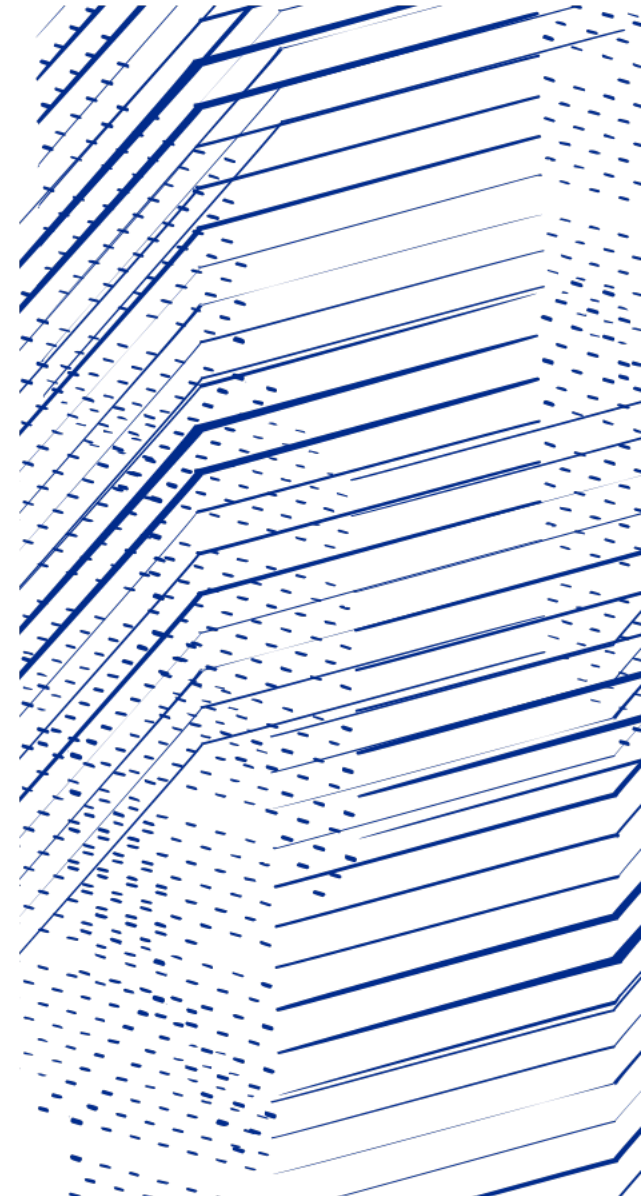


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Thank you



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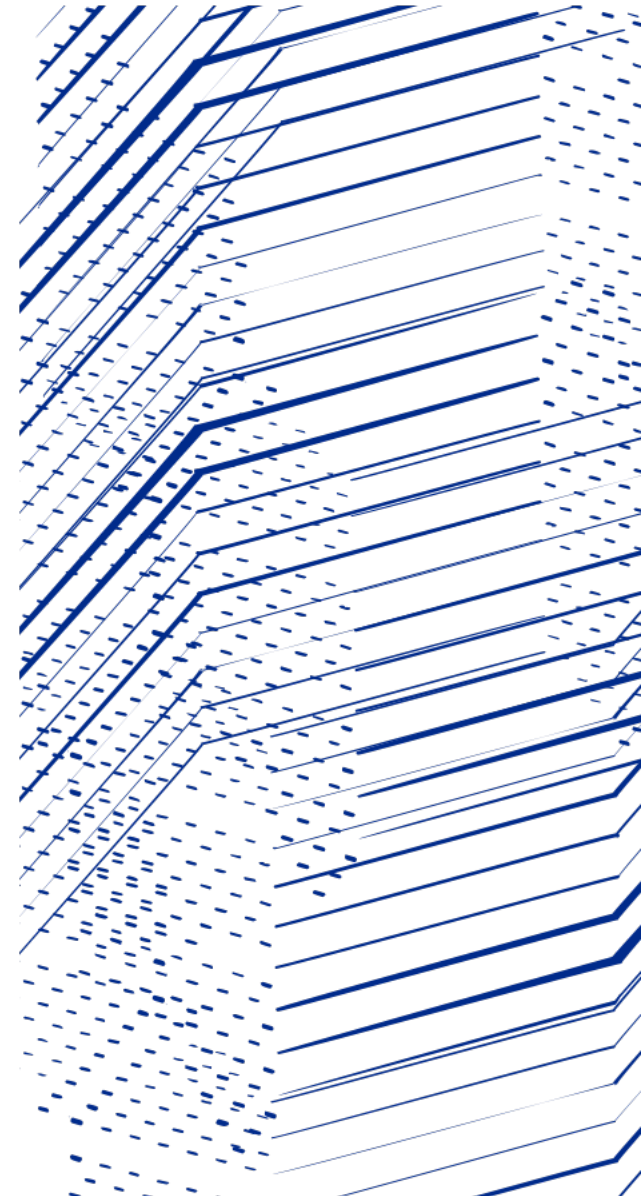


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Q&A



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Extra slides – further information

What is a National Contact Point (NCP)?

- Team of sector specific advisors to support UK entities successfully participate in EU Framework Programmes.
- Support available for each area of Horizon Europe



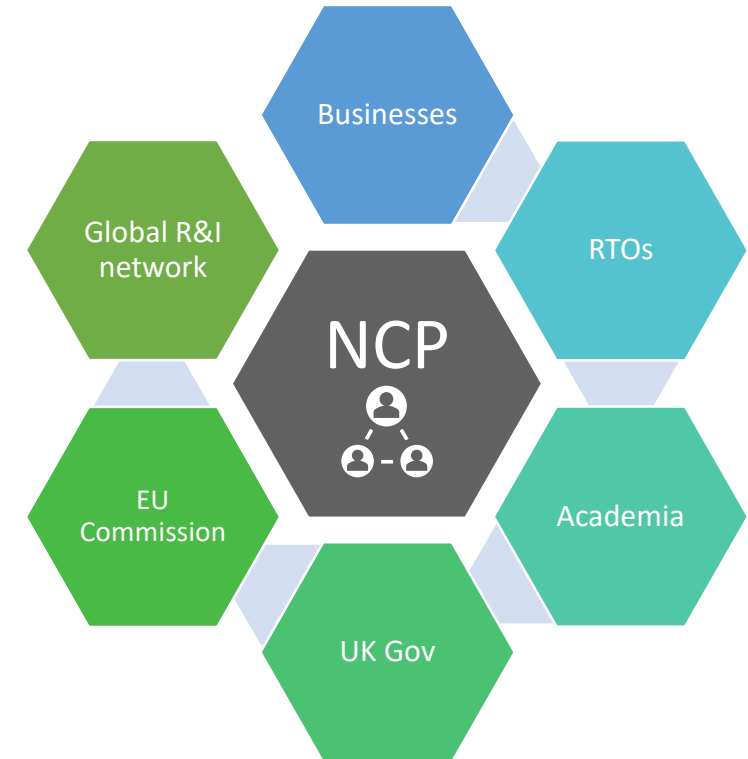
Informing, awareness raising – on Horizon Europe and other EU programmes



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



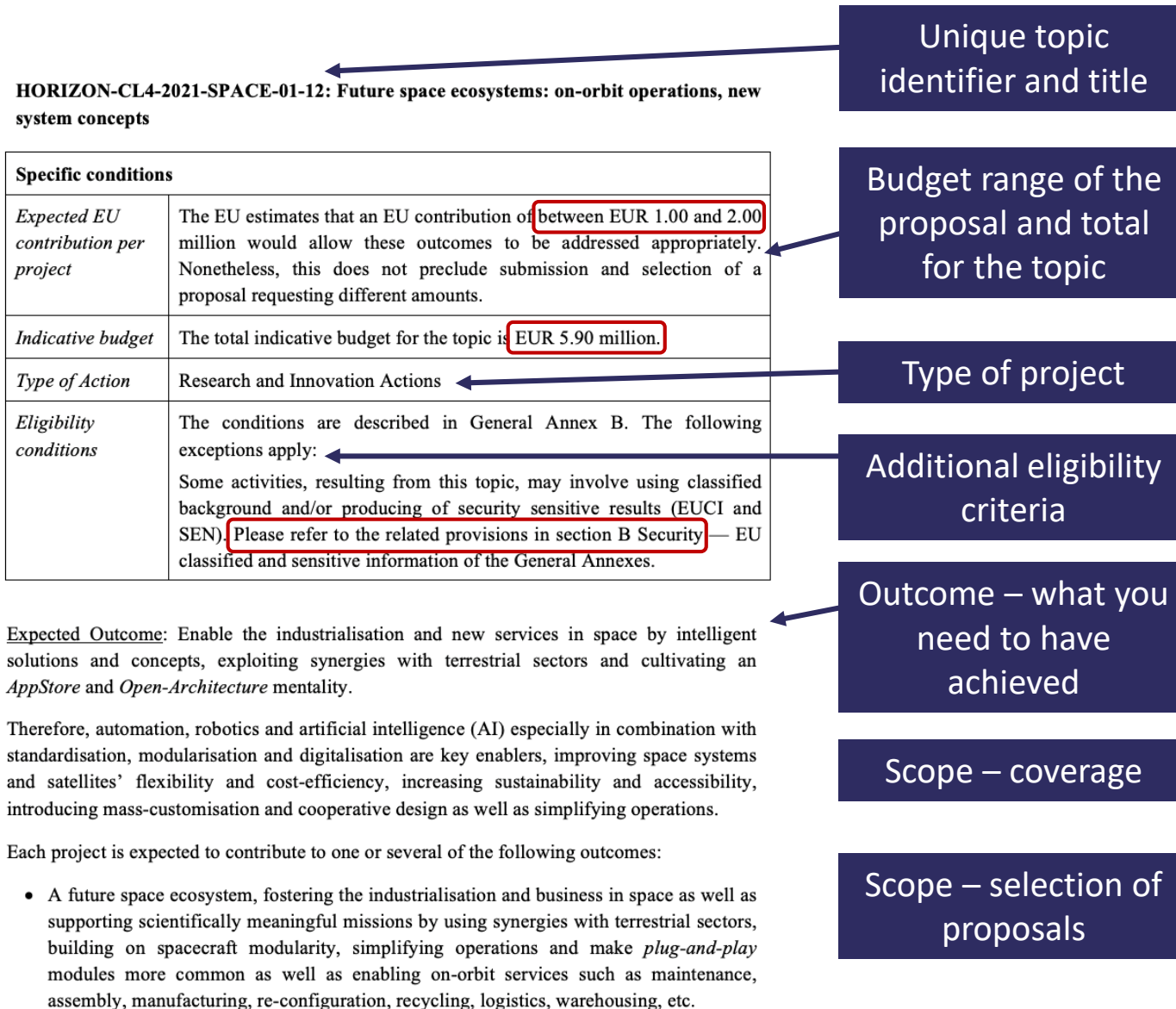
Signposting and cooperation – direct to relevant support and work with each other to support consortium development



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 5 is Climate, Energy and Mobility
- **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

How to Read the Topic



Scope – what you can do

Scope: The areas of R&I, which need to be addressed to tackle the above expected outcomes are:

1) R&I on new scalable satellite platform concepts and building blocks increasing the degree of satellite modularisation. Aiming at intelligent, adaptable and maintainable systems with *plug-and-play* compartmentalised functionalities (modules) that will introduce both, on-orbit re-configuration and re-use/re-cycling of spacecraft parts fostering debris mitigation, as well as increased system redundancy, inherently. The approach should consider an innovative, scalable and adaptive framework concept for a '*European construction kit for satellite systems and applications*', following the *AppStore* approach and fostering development of compartmentalised functionalities (modules) for satellite systems independently from mission. The framework should address the needs from building block developers as well as from end-users. As one result, functional satellite modules (Orbital Replaceable Units to deliver new/enhanced functionality) should be developed (TRL 5-6) to upgrade the satellite platform of the orbital demonstration mission¹³⁵ by using pre-existing standard interfaces¹³⁶ (*plug-and-play* concept). The module design should support the integration of different pre-existing standard interfaces¹³⁷. Further reference is given in a technical guidance document¹³⁷.

2) R&I on new on-orbit services concepts concentrating on a next generation of potential business cases (e.g. satellite recycling, transfer services, logistics, warehousing, etc.) contributing to a sustainable space infrastructure and in-space ecosystem development. Work should include, but not be limited to, market & trend analyses, design of mission and system architecture, and feasibility studies.

A proposal may address more than one area but must indicate the main area addressed, and is expected to promote cooperation between different actors (industry, SMEs and research institutions) and consider opportunities to quickly turn technological innovation into commercial space usage.

To ensure a balanced portfolio covering the three areas described above, grants will be awarded to applications not only in order of ranking but at least also to one project that is the highest ranked within each area, provided that the applications attain all thresholds.

Support services – regional support

Northern Ireland

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

Scotland

- [Richard Buxbaum](#) is based in Scotland Europa (Scottish Enterprise) and is **the regional contact point in Scotland** for Horizon Europe. He can provide expertise, advice and can help coordinate access to a range of tailored support depending on your needs

Wales

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

Searching for partners?

- Brokerage events
 - [Virtual international Information Day and Brokerage Event: Social Sciences & Humanities in EU Green Deal Call](#) (27 October)
- The NCP CaRE Partner Search tool: <http://partnersearch.ncps-care.eu/>
- Enterprise Europe Network:
 - Partner search opportunity database <https://een.ec.europa.eu/partners>
 - local EEN advisers <https://een.ec.europa.eu/content/advice-support>
- Funding and Tenders portal partner search
 - <https://ec.europa.eu/info/funding-tenders/opportunities/portal/screen/how-to-participate/partner-search>
- CORDIS: <https://cordis.europa.eu/>
- Topic page on Funding and Tenders portal
- National Contact Points:
 - UK NCP network:
<https://www.gov.uk/business-finance-support/horizon-2020-business-grants-uk#support-within-different-sectors>
 - NCP Network (International):
<https://ec.europa.eu/info/funding-tenders/opportunities/portal/screen/support/ncp>

Cluster 1 - Health



Staying healthy in a rapidly changing society

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



Living and working in a health-promoting environment

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



Tackling diseases and reducing disease burden

- Better diagnostics, personalised treatment
- New and advanced therapies for NCDs
- Scientific evidence, policy, legal frameworks
- Innovative health technologies
- Understanding diseases
- Infectious disease threats



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

- 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 service provision and patient empowerment)



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

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

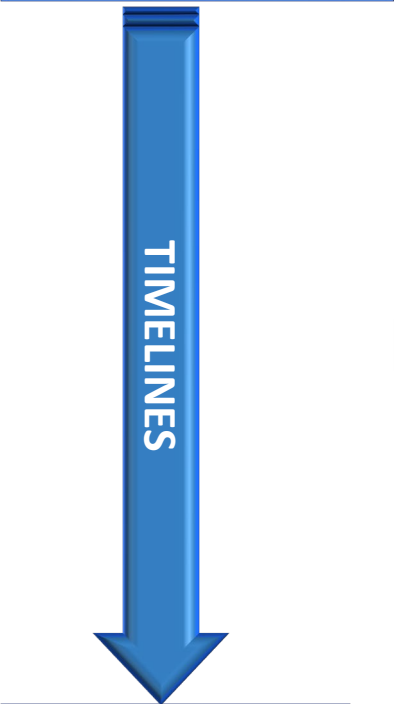


Maintaining an innovative, sustainable and globally competitive health industry

- Market access of innovative tech. (medical, pharmaceutical, biotech, digital)
- Novel methodologies and metrics, and support for regulatory authorities
- Safe and clinically validated tools, technologies and services
- Greener pharmaceuticals and technologies

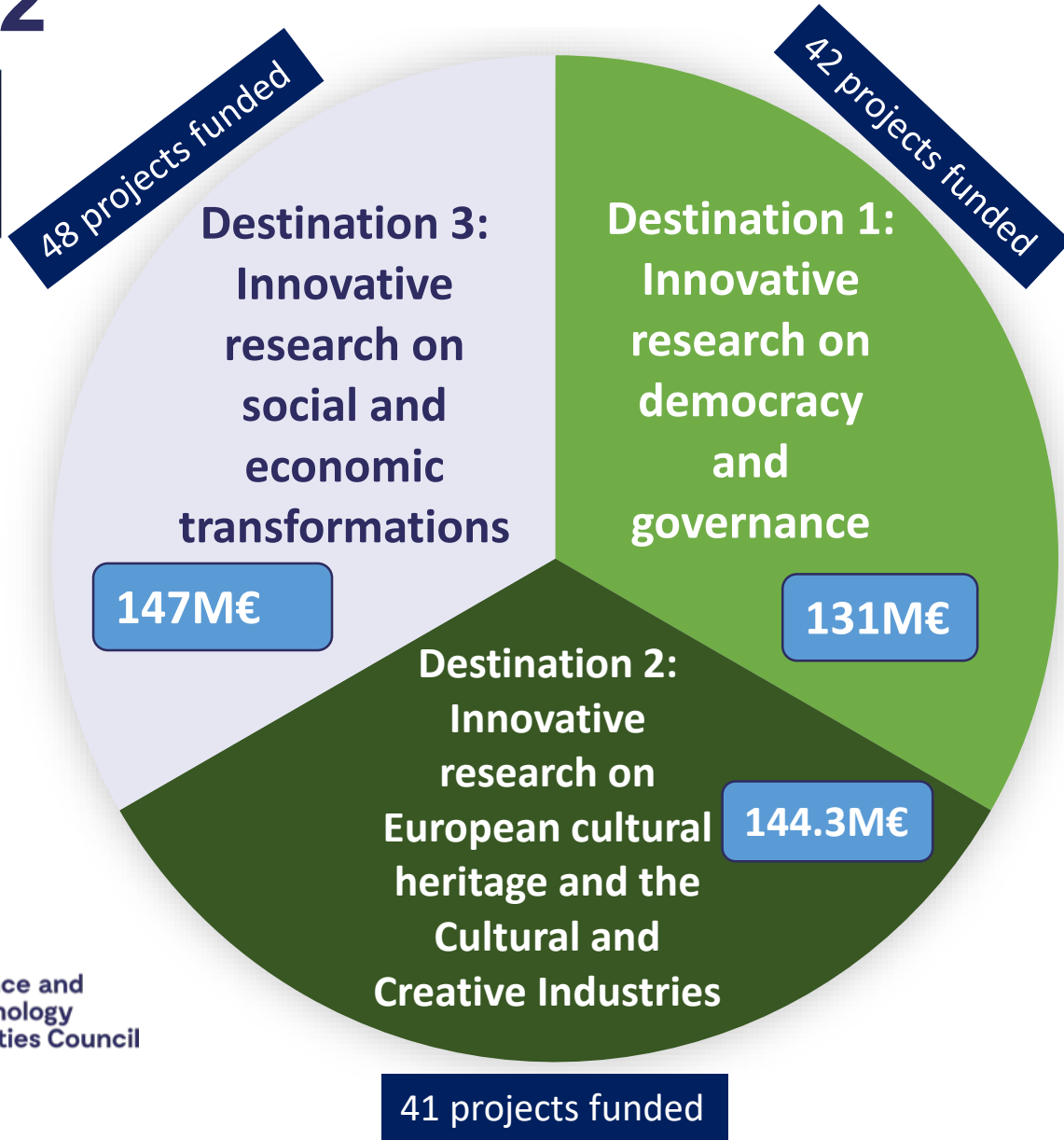
Culture, Creativity and Inclusive Society – Cluster 2

2021 Calls
Opening 15 April
Deadline 1 Sept



2022 Calls
Opening 20 Jan
Deadline 20 April

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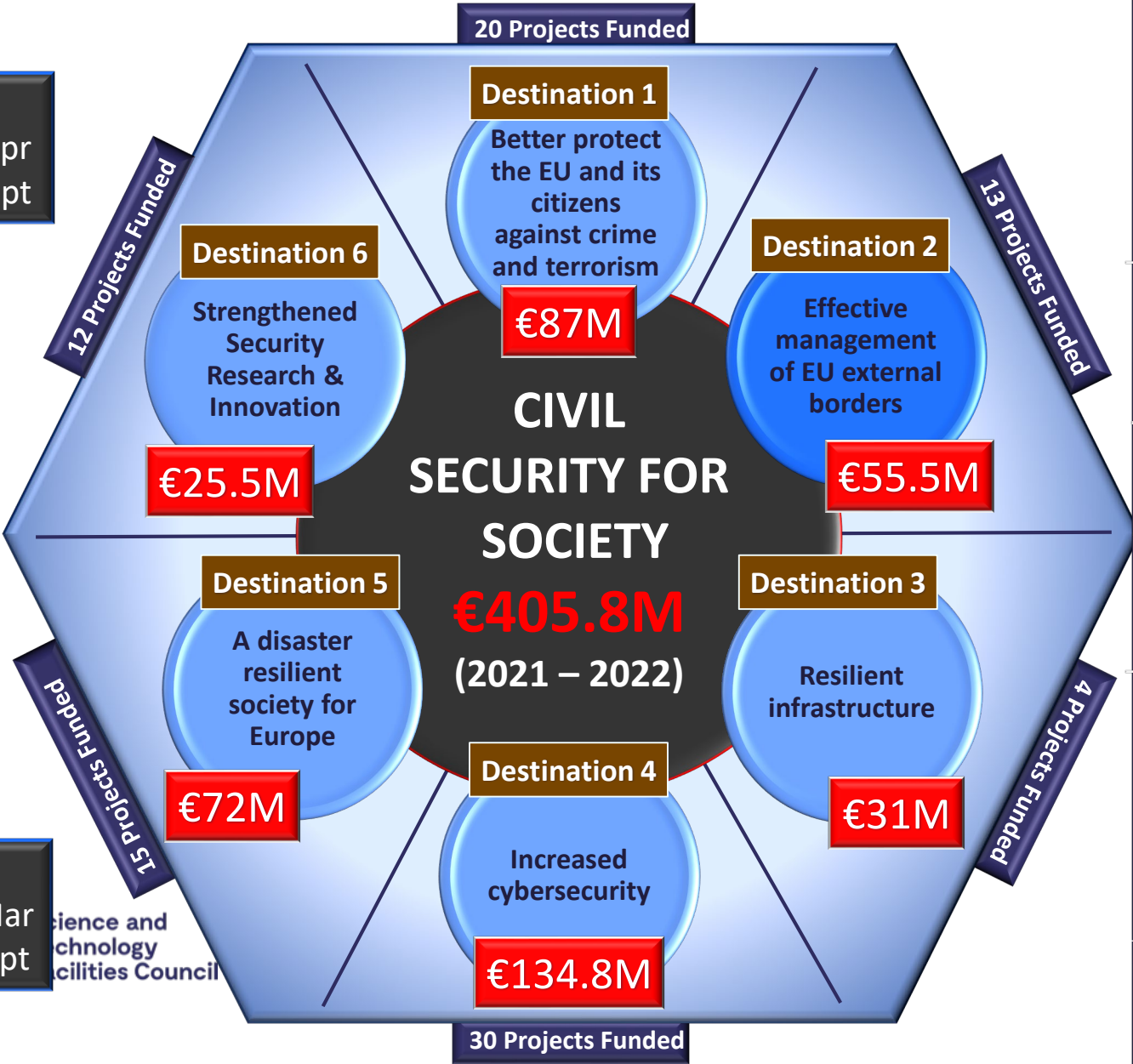
1	<ul style="list-style-type: none"> Future of liberal democracy Economic models and modern democracies Feminisms for a new age of democracy Democratic politics in the EU's neighbourhood Politics and governance in a post-pandemic world AI, big data and democracy Future of democracy and civic participation Inequalities & democracy Education for democracy Political extremism Democracy, politics and media Global governance for a world in transition
2	<ul style="list-style-type: none"> 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	<ul style="list-style-type: none"> Irregular migration Support in a changing world of work and social protection New technologies in education & training Changing supply chains and declining trade intensities New technologies in education & training 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

Civil Security for Society – Cluster 3

2021 Calls
Opening 15th Apr
Deadline 8th Sept



2022 Calls
Opening 15th Mar
Deadline 8th Sept



1	<ul style="list-style-type: none">Fighting crime & terrorism using travel intelligenceDisinformation & fake newsLawful use of interception technologiesCombating firearms traffickingImproved access to research data to fight crimeDomestic, sexual violence and child sexual exploitationProtection of public spacesCountering on-line identity theftFighting environment crime
2	<ul style="list-style-type: none">Enhanced security management of bordersIncreased safety, security, performance of bordersImproved border checks & improved traveller & staff experiencesAdvanced detection of threats & illicit goods - postal & couriersImproved detection of concealed objects on/ within the body
3	<ul style="list-style-type: none">Infrastructures and autonomy safeguarded against systemic risksinfrastructure resilience in case of PandemicsAdvanced security & resilience across urban mobility systems
4	<ul style="list-style-type: none">Business continuity & recovery methodologies - models & predictionImproved security connected devicesAI for cybersecurity reinforcementScalable privacy-preserving technologies - personal data
5	<ul style="list-style-type: none">Enhanced citizen preparednessImproved understanding of risk exposure & public awarenessIntegrated Disaster Risk Reduction for extreme climate eventsEnhanced assessment of disaster risksImproved quality assurance/control of data used in decision makingInnovative concepts to enhance cooperationPartnerships to coordinate R&I efforts - climate related disastersDeveloping partnerships – first responder & capability gapsDispersion models for improved decision support for CBRNE releases
6	<ul style="list-style-type: none">Maturity assessment framework for security technologiesKnowledge networks for Security Research & Innovationstandardisation and certification schemes for securityDemand led innovation for situation awareness in civil protection

Cluster 4 – Digital, Industry & Space

Key Themes

€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 Open: 15 Apr 2021;
- 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: 15 Apr 2021;
- 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: 6 May 2021;
- Deadline: 7 September 2021

NCP Space: Catherine Holt

Cluster 5 – Climate, Energy & Mobility

Key Themes

€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**

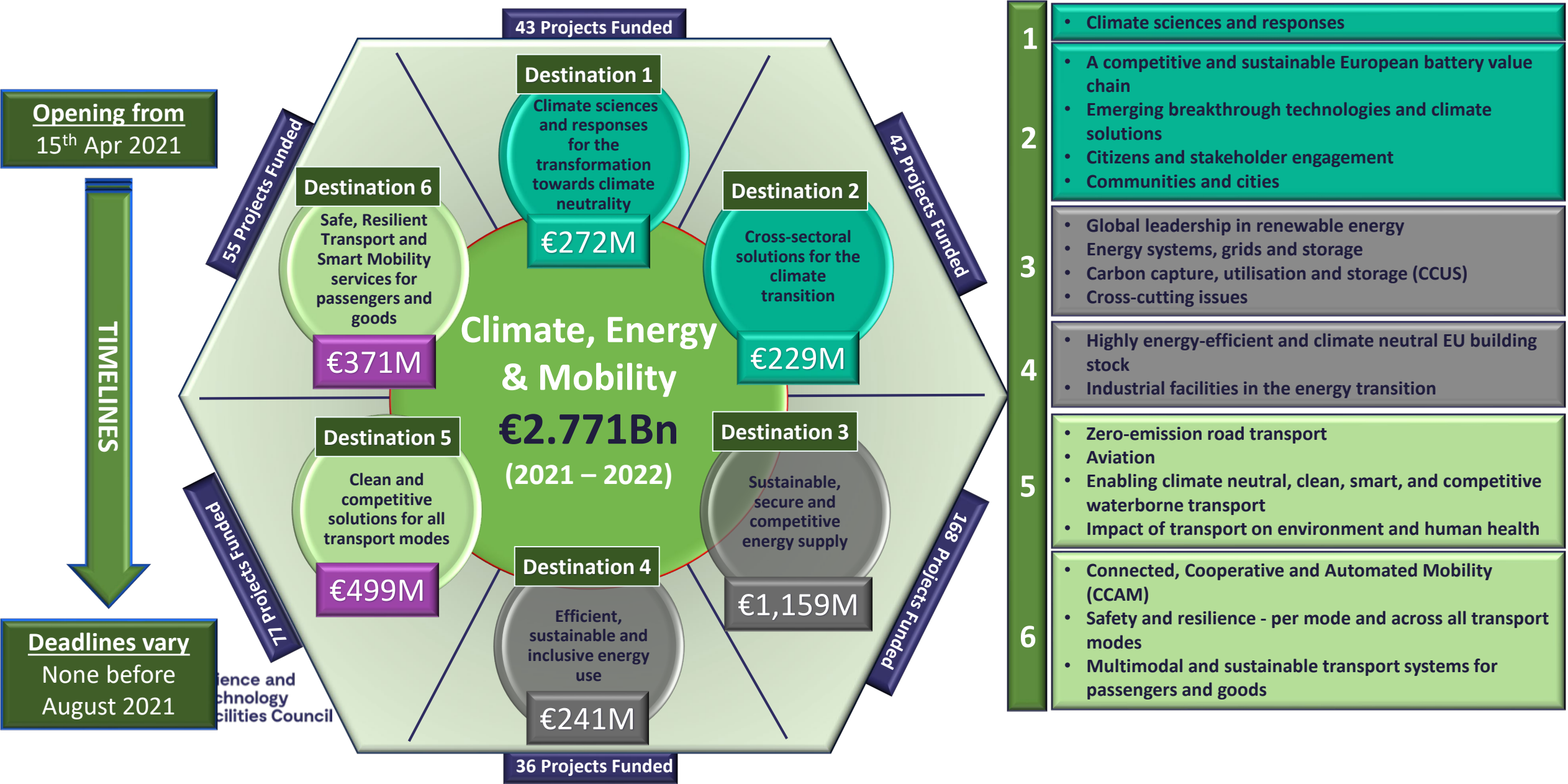
- Zero emission road transport
- Aviation
- Waterborne transport
- Impact of transport on the environment and human health
- Connected, Cooperative and Automated Mobility
- Safety and resilience
- Multimodal and sustainable transport systems

€0.9bn – 2021/22

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

NCP Mobility: Louise Mothersole

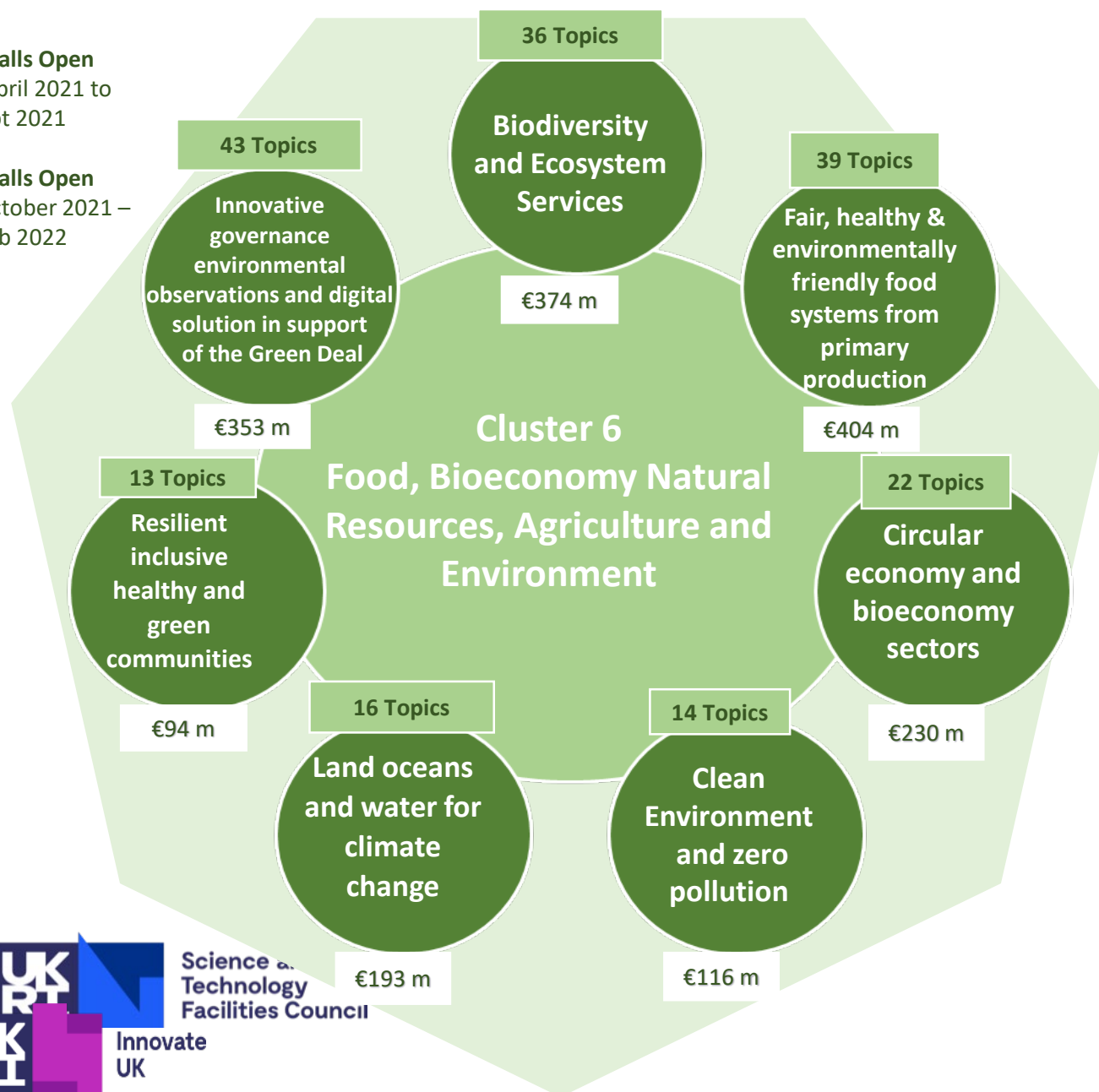
Cluster 5 – Climate, Energy & Mobility



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

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

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



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