



WELCOME!

“Horizon Europe Cluster Series”

Cluster 4: Digital, Industry and Space

Housekeeping

- To avoid background noise all participants will be muted.
- After testing your speakers, please do remember to connect your audio by using the “Join Audio” icon at the bottom left of the screen or dial in via phone using the number provided in the joining instructions.
- If you have any technical problems, please use the chat to seek advice from the host (Andie McLean)
- Questions and Answers: Use the Q&A function.
- Please use the chat to introduce yourself, please note due to GDPR we cannot share the chat. Capture what you need.

PLEASE NOTE – THE WEBINAR IS BEING RECORDED



AGENDA

Time	Title	Speaker
10.00	Welcome and Innovate UK KTN European Programmes support	Viola Hay, Innovate UK KTN
10.05	Introduction to the new 2023 / 2024 Work Programme for Cluster 4: DIGITAL, INDUSTRY AND SPACE	Cherie Gardiner, Innovate UK Catherine Holt, Innovate UK Craig Sharp, Innovate UK
10.50	Case Study	Paul Collier, Johnson Matthey
11.00	Q & A	Belen Rebollo, Innovate UK KTN
11.15	BREAK	
11.20	Navigating application and award process: Practical tips and support for applicants	Chris Young, Innovate UK
11.30	Q & A	Belen Rebollo, Innovate UK KTN
11.45	Close / Next steps	Viola Hay, Innovate UK KTN



Innovate UK KTN – European Programmes Activity and support



Viola Hay
Knowledge Transfer Manager
– European Programmes



Innovate UK KTN exists to connect innovators with new partners and new opportunities beyond their existing thinking – accelerating ambitious ideas into real-world solutions.

Cross-Sector Expertise

Agrifood

Biotechnology

Chemistry

Creative Industries

Design

Digital

Electronics

Energy

Geospatial

Health

Industrial Maths

Infrastructure

Manufacturing

Materials

Photonics

Quantum

Robotics & AI

Security & Defence

Sensors

Space

Transport

Water



Innovate UK
KTN

Our Network



**46,229
Unique
Organisations**



**72% Small
15% Medium
13% Large**



**234,478
innovators**



**Every university
in the UK**

Our Outputs

66%

introduced by
KTN go on to
collaborate

42%

reach
outcomes
faster
(1-2 years)

60%

increased
investment in
R&D direct result
from KTN
engagement

£100m

per year
increased
investment in
R&D



**Innovate UK
KTN**

Primary Delivery Partners

UK Government





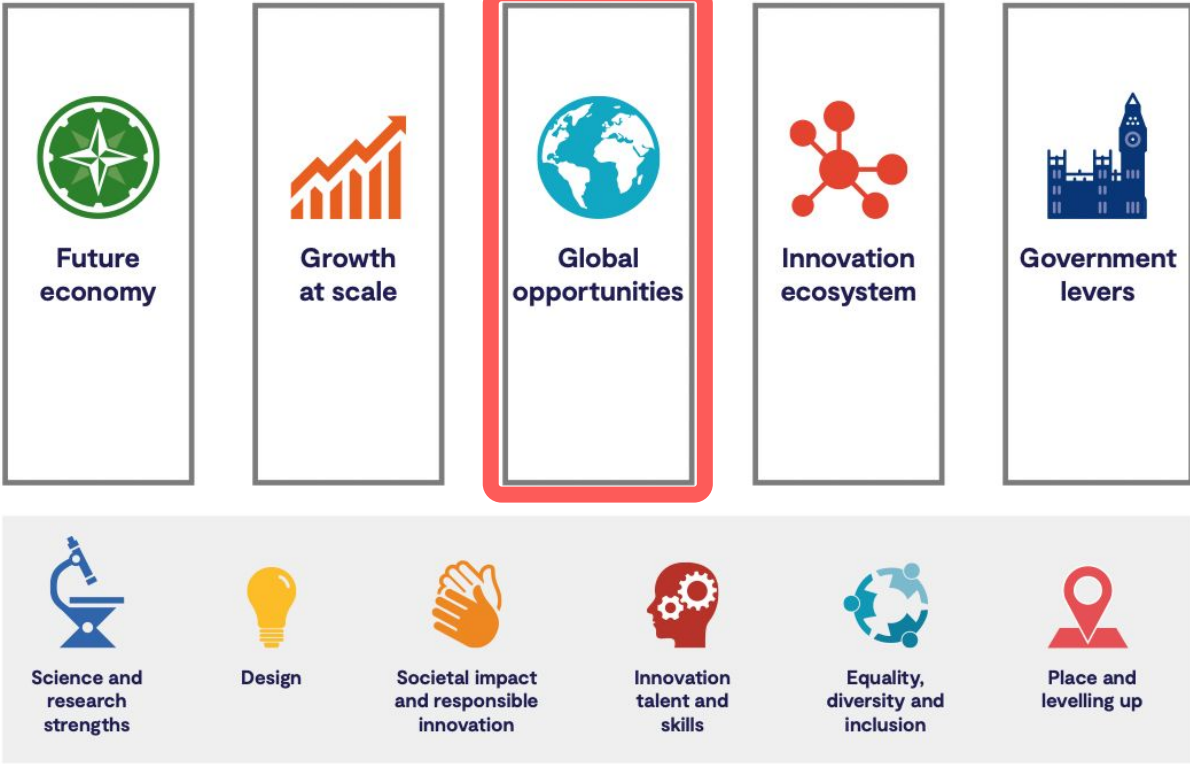
UKRI Innovate UK

Building the future economy

Plan for action for UK business innovation

inspire | involve | invest

2021–2025



Theme 3: Global opportunities

More and more countries are looking to science and innovation to build their economies and meet global challenges. There is a major opportunity for international co-operation on research and development and innovation that builds on our world-class science and research capabilities and industry strengths.

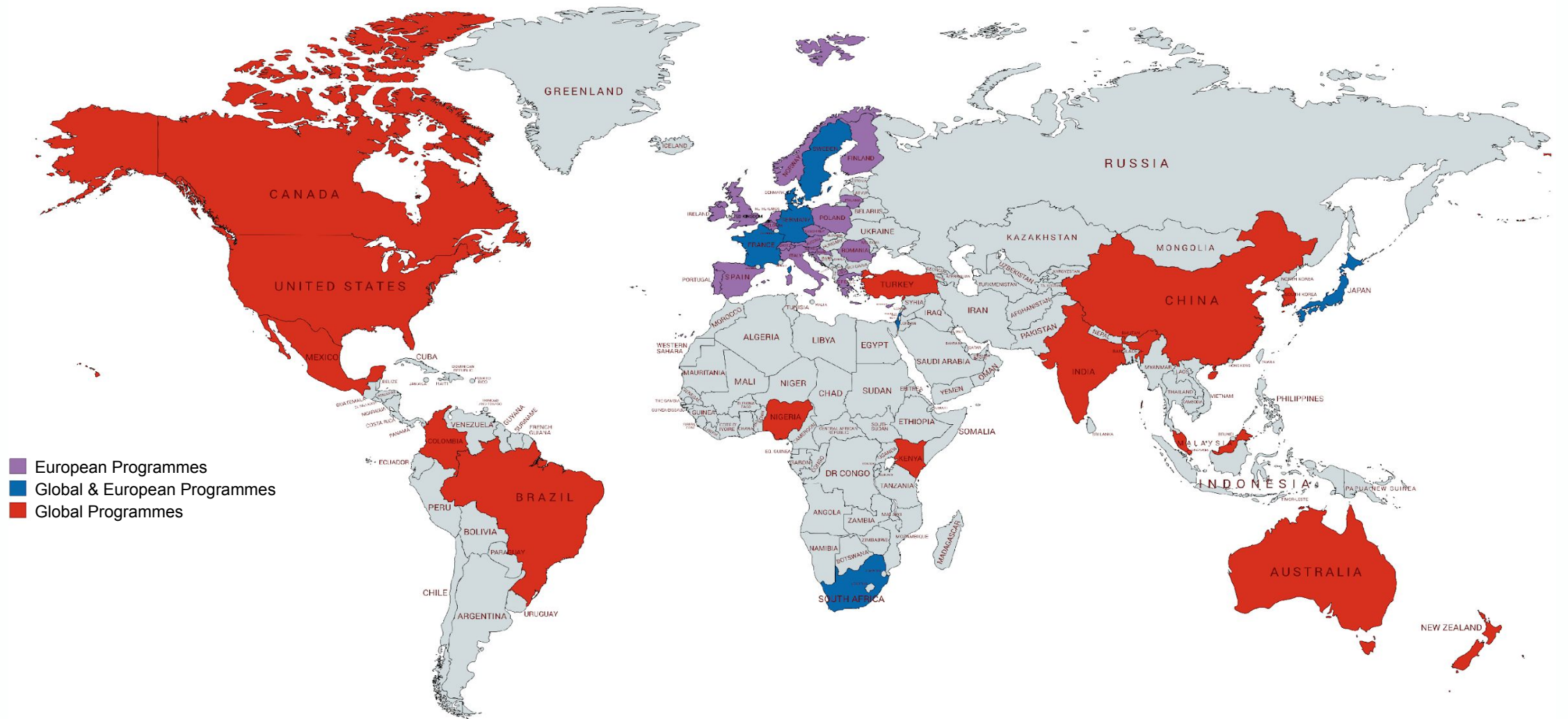


We connect **regional, national and global** innovation

Our **Global Alliance** programme drives international collaborations with governments, societies, enterprises, institutions and people from every corner of the globe.



Our Reach





Global Alliance: European Programmes

We support UK organisations in **engaging with International R&I initiatives** (i.e. Horizon Europe and EUREKA, among them) and help shape future funding priorities by:

- ◆ Organising consortium building activities / events in selected topics
- ◆ Offering “Travel Grants” to attend European brokerage events
- ◆ Managing international collaboration platforms
- ◆ Engaging with International Partnerships and Technology Platforms
- ◆ Providing sector specific advice on market opportunities and project impact

We work closely with the National Contact Points, Innovate UK Edge and the FCDO / Science Innovation Network.



Global Alliance: European Programmes

European Programmes Experts



Jane Watkins
Regional Lead



Viola Hay
Knowledge Transfer
Manager



Belen Rebollo
Knowledge Transfer
Manager

Find out more



@KTN_Global

Horizon Europe Hub

<https://ktn-uk.org/programme/european>



Innovate UK
KTN

Can the UK participate in Horizon Europe? YES!!!

The UK is a Candidate Associated Country

- Applicants should carry on working in their consortiums on the 2023 Work Programme Call topics.
- UK applicants should continue applying as beneficiaries and request EU budget at the proposal stage
- UK Horizon Europe Guarantee in place to support successful applicants if Association not in place at time of Grant Agreement





Horizon Europe Cluster 4: introduction



Craig Sharp
NCP - Digital



Cherie Gardiner
NCP - Industry



Catherine Holt
NCP - Space

Catherine Holt
ncp-space@innovateuk.ukri.org

18 February 2021

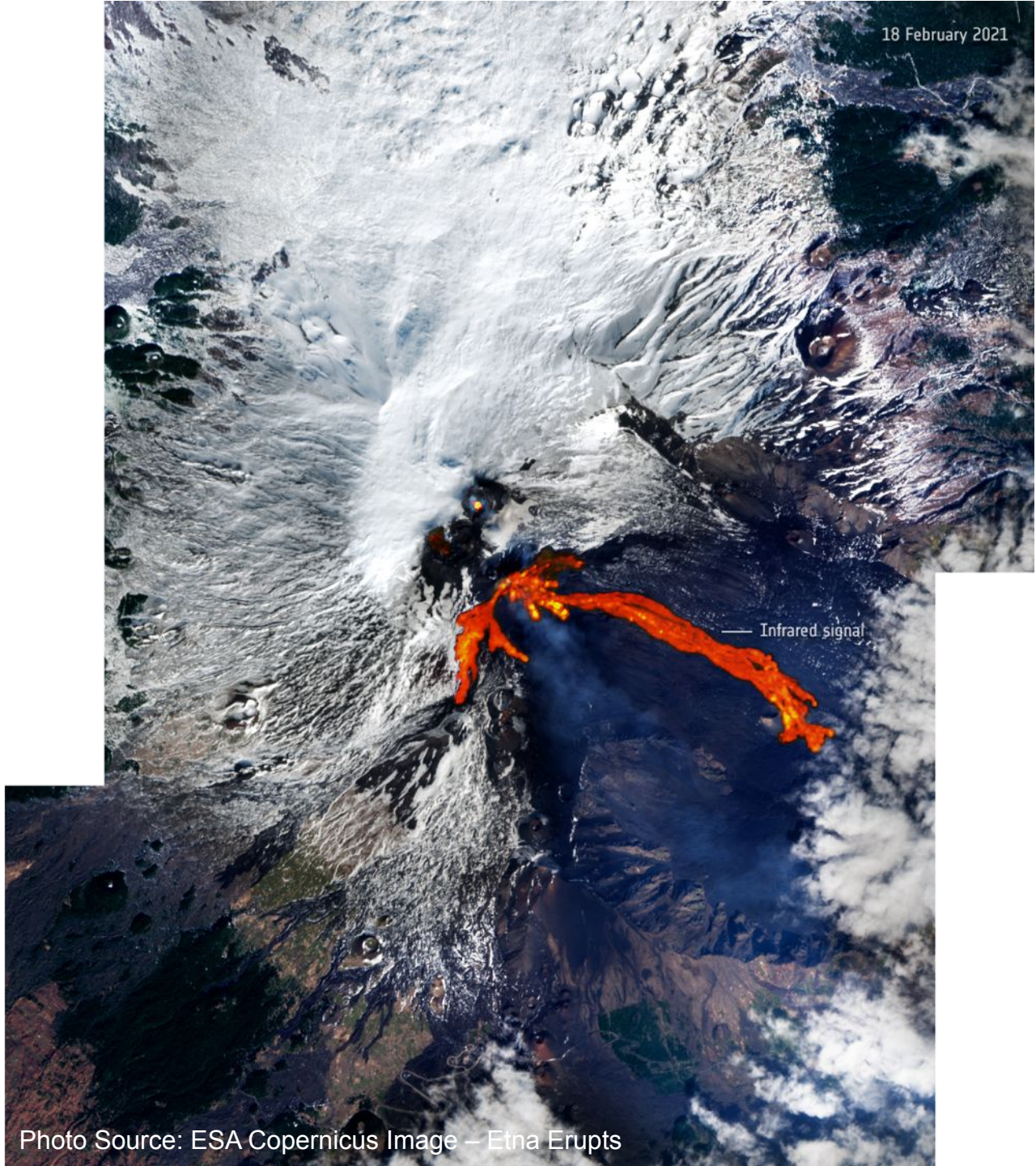


Photo Source: ESA Copernicus Image – Etna Erupts

Space in Horizon Europe

5. Open strategic autonomy in developing, deploying and using global space-based infrastructures, services, applications and data

Systems

- SatCom
- EO
- On-orbit operations
- Electronic propulsion

Access

- Launchers
- Propulsion
- Launch systems
- Ground facilities

Data

- Copernicus evolution
- Copernicus applications
- EGNSS applications

Capabilities

- Quantum

Strategic

- SSA
- GOVSATCOM
- Technology non-dependence
- Space science
- Education and skills
- Entrepreneurship

UK Access to Space Topics

Participation limited to Member States, Norway, Iceland and the UK. UK participation conditional upon associated to Horizon Europe and UK equivalent space calls published and open to the EU entities on a reciprocal basis.

- HORIZON-CL4-2023-SPACE-01-21: Low cost high thrust propulsion for European strategic space launchers - technologies maturation including ground system tests
- HORIZON-CL4-2023-SPACE-01-22: New space transportation solutions and services
- HORIZON-CL4-2023-SPACE-01-23: Modern, flexible and efficient European test, production and launch facilities
- HORIZON-CL4-2023-SPACE-01-62: Quantum Communication Technologies for space systems
- HORIZON-CL4-2023-SPACE-01-63: Quantum Space Gravimetry Phase-A Study

Participation limited to Member States, Norway and Iceland

- HORIZON-CL4-2023-SPACE-01-72: Space technologies for European non-dependence and competitiveness

Participation limited to Member States

- HORIZON-EUSPA-2022-SPACE-02-61: GOVSATCOM Service developments and demonstrations

Horizon Europe Space Calls

Opens 22nd Dec 2022 Deadline 28th March 2022 Budget €137.5M

Topic reference number	Topic title	Funding action/TRL	Budget (€)
CL4-2023-SPACE-01-11	End-to-end Earth observation systems and associated services Enhanced flexibility, reduced running costs whilst maintaining or increasing performance	IA TRL 5-6	10.1M (5)
CL4-2023-SPACE-01-12	Future Space Ecosystem and Enabling Technologies Solutions and concepts for highly automated, flexible and economically viable space systems and infrastructure (EP, robotics, AI, etc)	RIA TRL 4-6 TRL 3-5	15M (7)
CL4-2023-SPACE-01-13	Future Space Ecosystem: Management and Coordination Activity Evolution of the Future Space Ecosystem roadmap	CSA	2M (1)
CL4-2023-SPACE-01-21	Low cost high thrust propulsion for European strategic space launchers - technologies maturation including ground system tests Targets low cost, high performance and green propulsion concepts, technology and propellants	RIA TRL 7	20M (1)
CL4-2023-SPACE-01-22	New space transportation solutions and services Maturation enabling new tech and subsystems in e.g. green propulsion, micro launchers	RIA TRL 5-6	23.1M (4)
CL4-2023-SPACE-01-23	Modern, flexible and efficient European test, production and launch facilities Improve cost efficiency and interoperability	RIA 5-7	10M (3)

Horizon Europe Space Calls

Opens 22nd Dec 2022 Deadline 28th March 2022 Budget €137.5M

Topic reference number	Topic title	Funding action/TRL	Budget (€)
CL4-2023-SPACE-01-31	Copernicus for Atmosphere and Climate Change, including CO2 1. Modelling and data assimilation 2. Characterise compound and cascading extreme weather events 3. Improve numerical requirements for schemes in the CO2MVS system	RIA TRL 5-6	8.6M (3)
CL4-2023-SPACE-01-32	Copernicus for Emergency Management Includes building height and use, fire detection and monitoring, flood prediction, drought tracking	RIA TRL 6	3M (1)
CL4-2023-SPACE-01-33	Copernicus in-situ component Exploitation of existing in situ data to close observation gaps in combination with new observing infrastructure and techniques	RIA TRL 5-6	2M (1)
CL4-2023-SPACE-01-34	Copernicus for Marine Environment Monitoring Monitoring and forecasting of the ocean from global/regional to coastal scale	RIA TRL 5-6	5M (1)

Horizon Europe Space Calls

Opens 22nd Dec 2022 Deadline 28th March 2022 Budget €137.5M

Topic reference number	Topic title	Funding action/TRL	Budget (€)
CL4-2023-SPACE-01-62	Quantum Communication Technologies for space systems Critical components and technologies to build a space quantum key distribution system	RIA TRL 5-6	5M (2)
CL4-2023-SPACE-01-63	Quantum Space Gravimetry Phase-A Study Feasibility study for the system and operations concept for a pathfinder mission	RIA TRL 3	3M (2)
CL4-2023-SPACE-01-71	Scientific exploitation of space data Use of data from space missions (Copernicus, ESA, other)	RIA TRL 3-4	10.7M (8)
CL4-2023-SPACE-01-72	Space technologies for European non-dependence and competitiveness Mature critical space technologies inc. space qualified carbon fibre for launcher and satellites, EP thruster technology, replacements for metallic lead	RIA TRL 5-8	20M (7)

Horizon Europe Space Calls - Applications

Opens 3rd Nov 2022 Deadline 2nd March 2023 Budget €48.1M

Topic reference number	Topic title	Funding action/TRL	Budget (€)
HORIZON-EUSPA-2022-SPACE-02-51	EGNSS applications for Smart mobility EGNSS based accuracy, safety-and liability-critical applications in long lead time market segments: aviation, maritime, rail, road and multi modal domains	IA TRL 7-9	9.5M (3-4)
HORIZON-EUSPA-2022-SPACE-02-52	Public sector as Galileo and/or Copernicus user <ul style="list-style-type: none"> Public sector as the “first customer” for innovative space based applications Open to all areas of the public sector for downstream space technology and end- to-end solutions with combinations of different space components. 	PCP	5.2M (1-2)
HORIZON-EUSPA-2022-SPACE-02-54	Copernicus downstream applications and the European Data Economy Bring to market new or improved applications, products and services by exploiting Copernicus data assets and services products	IA TRL 8	9.6M (3-4)
HORIZON-EUSPA-2022-SPACE-02-55	Large-scale Copernicus data uptake with AI and HPC New products and services by solving the technological challenges related to AI, HPC, big data processing and management	RIA TRL 5	9.6M (3-4)
HORIZON-EUSPA-2022-SPACE-02-56	Designing space-based downstream applications with international partners New or improved products, processes or services using EU space technologies (Copernicus, EGNSS) to generate a marketable solution for the local market.	RIA TRL 3-4	5.1M (3-5)
HORIZON-EUSPA-2022-SPACE-02-61	GOVSATCOM Service developments and demonstrations Consolidation of services and service development		9.1M (6-9)

EU SPACE FOR MARINE ECOSYSTEMS PROTECTION

#EUSpace

CASSINI Prize for Digital Space Applications



- Solve problems related to the detection, monitoring and the removal of microplastics, plastic litter as well as larger items in rivers, shores and coastal zones, to support the prevention of ocean pollution using EU space programme data
- Participation open to MS and Associated Countries or countries which are in ongoing negotiations for an association agreement and where the agreement applies before the award
- Deadline: 3rd May 2023, budget 3 x €0.95M
- Webinar 18th January

European Innovation Council (EIC)

- Europe's flagship innovation programme to identify, develop and scale-up breakthrough technologies and game changing innovations.
- Annual Work Programme (2021, 2022, 2023) with €1.2 Billion in 2023
- Unique feature – provides funding for individual companies (Start-ups and SMEs)
- Bottom up and challenges

- EIC Accelerator Challenge: Space technologies and services (Info Day 26 January)
- EIC Pathfinder Challenge: In-space solar energy (Info Day 26 January)
- Claire.Griffin@iuk.ukri.org



UK Research
and Innovation

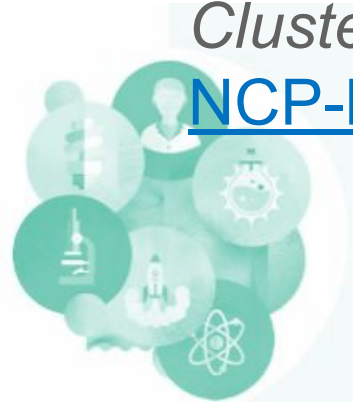
Horizon Europe

Craig Sharp

Horizon Europe UK National Contact Point for Digital,

Cluster 4

NCP-Digital@iuk.ukri.org

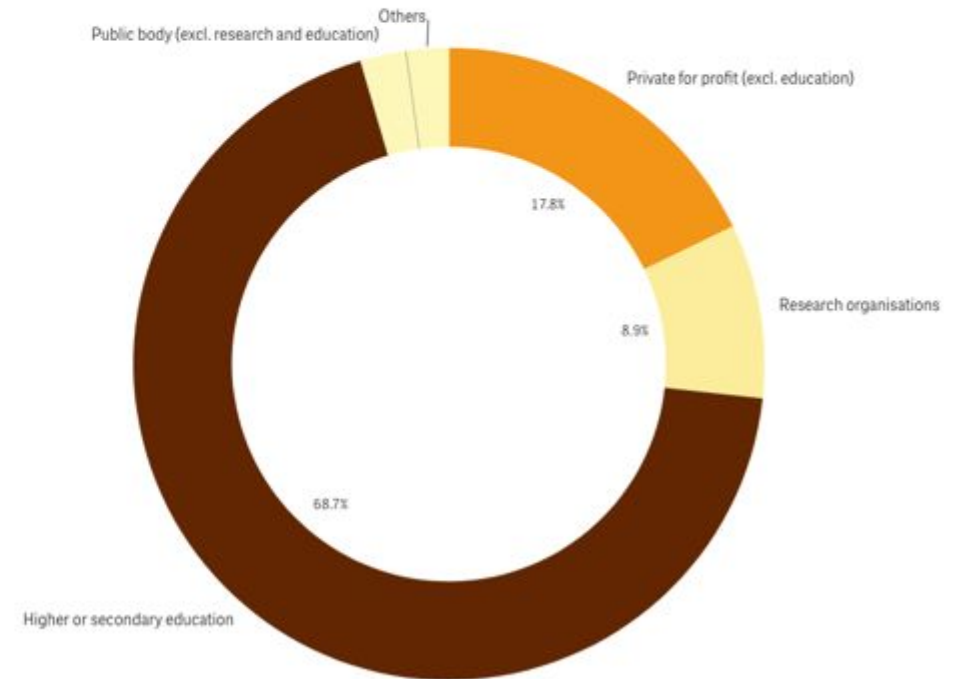
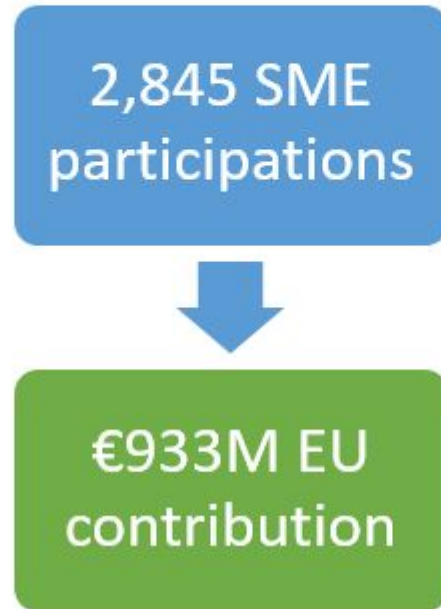


HORIZON EUROPE

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



Size of the prize – Horizon 2020 UK statistics



General info (collaborative R&D)

- **Eligibility:** Must be a consortium of minimum 3 independent legal entities, each established in a different EU Member State (MS) or Associated countries, with at least 1 of them established in a MS.
- **UK entities are eligible (treated as if we had associated for application and evaluation) – and apply as beneficiaries (so include budget in proposals)**

Award Criteria

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

Main Types of Actions

- **RIA** – Research and Innovation Actions – up to **100%** funding rate
- **IA** – Innovation Actions – up to **70%** funding rate (except non-profit where 100% applies)
- **CSA** – *Coordination and Support Actions* – up to **100%** funding rate

UK eligibility

- UK organisations should continue to apply for funding from the EU as potential beneficiaries (i.e. NOT as associated partners)
- **If** the UK's association to Horizon Europe has not completed by the time the consortium reaches Grant Agreement signature phase, **then** the UK organisation changes status within the consortium to that of associated partner
- The UK government then funds the UK participant:
 - [UK R&D Roadmap](#) (page 43) “It is our ambition to fully associate to both programmes [Horizon Europe and Euratom R&D] During any gap, we would provide funding to UK partners who are successful in bidding to programmes open to third country participation”
- The EC reduces the project budget by the equivalent amount (potentially funds more reserve projects)

Cluster 4: Digital, Industry and Space

Six “Destinations” (topic groups) in the Workprogramme

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

Digital opportunities / events

- Horizon Europe - other [work programmes](#)
 - Digital opportunities also available across other Pillar 2 Cluster work programmes ([Mobility](#), [Health](#), [Energy](#), [Climate](#), [Security](#), etc. often embedded in project activities, not just [Digital, Industry and Space](#))
 - EC Information Days for Digital, Industry & Space – 12-14 Dec (online) – https://research-and-innovation.ec.europa.eu/funding/funding-opportunities/funding-programmes-and-open-calls/horizon-europe/cluster-4-digital-industry-and-space_en
 - Digital topics – Data and Digital Emerging on 13th Dec, Human on 14th Dec.

Digital topics brokerage (15-16/12) – Register now with profile <https://digital2022.b2match.io>



Pillar 2
Global Challenges and
European Industrial
Competitiveness

Clusters

- Health
- Culture, Creativity and Inclusive Society
- Civil Security for Society
- Digital, Industry and Space
- Climate, Energy and Mobility
- Food, Bioeconomy, Natural Resources, Agriculture and Environment

Cluster 4 – sectors/areas covered

Destinations 1 & 2

Industry

- Circular Industries, Waste
- Clean Steel, Construction
- Resource & Energy efficiency
- Digital Mfg. & Automation
- Sustainability by design
- Light weight structures, Plastics
- Smart, Multi-functional materials (incl. Composites, Nano & bio)
- Adv. Materials for Energy storage (incl. Hydrogen & Electrification)

NCP Industry: Cherie Gardiner

Destinations 3,4,6

Digital

- AI, Data & Computing
- Photonics & Electronics
- Smart Networks & Connectivity
- Robotics
- Quantum
- Graphene/2D materials
- Digital Economy

NCP Digital: Craig Sharp

Destinations 5

Space

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

NCP Space: Catherine Holt

Partnerships in Digital, Cluster 4

The aim of European Partnerships with EU and associated countries, the private sector, foundations and other stakeholders is to deliver on global challenges and modernise industry.

The following are key partnerships in the area of Digital:

1. Artificial Intelligence, Data and Robotics – <https://adr-association.eu>
2. Photonics - <https://www.photonics21.org>
3. Smart Networks and Services - <https://6g-ia.eu>
4. Key Digital Technologies – <https://www.kdt-ju.europa.eu>

[Digital, industry and space \(europa.eu\)](https://www.europa.eu/digital-industry-space)

2023 Digital Topics – Data

Topic Number	Topic Title	Action	TRL range	Project budget (€m)	Deadline	Projects funded	
<u>Data sharing and Analytics Capacity</u>							
HORIZON-CL4-2023-DATA-01-02	Integration of data life cycle, architectures and standards for complex data cycles and/or human factors, language (AI, data and robotics partnership)	RIA	2/3->4/5	9	29/03/23	5	
HORIZON-CL4-2023-DATA-01-07	Collaboration with NSF on fundamental research on new concepts for distributed computing and swarm intelligence	CSA	n/a	1		1	
<u>From Cloud to Edge to IoT for European Data</u>							
HORIZON-CL4-2023-DATA-01-04	Cognitive Computing Continuum: Intelligence and automation for more efficient data processing (AI, data and robotics partnership)	RIA	2->5	4		6	
HORIZON-CL4-2023-DATA-01-06	Coordination and Support of Cognitive Computing Continuum research and policy	CSA	n/a	2	1		

Digital topics: AI, Robotics, ESP

Title	Action Type	Action	TRL range	Project budget (€m)	Deadline	Estimated Projects	
<u>AI, Data and Robotics (incl. efficient, robust, safe, adaptive and trusted robots)</u>							
HORIZON-CL4-2023-DIGITAL-EMERGING-01-01	Novel paradigms and approaches, towards AI-driven autonomous robots (AI, data and robotics partnership)	RIA	2/3->4/5	8	29/03/23	4	
HORIZON-CL4-2023-DIGITAL-EMERGING-01-02	Industrial leadership in AI, Data and Robotics – advanced human robot interaction (AI Data and Robotics Partnership)	IA	3/5->6/7	10		3	
<u>European Leadership in Emerging and Enabling Technologies</u>							
HORIZON-CL4-2023-DIGITAL-EMERGING-01-11	Low TRL research in micro- electronics and integration technologies for industrial solutions	RIA	1/2->3/4	3->4		10	
HORIZON-CL4-2023-DIGITAL-EMERGING-01-12	Adaptive multi-scale modelling and characterisation suites from lab to production	RIA	3->5	5->7		4	
<u>European Innovation Leadership in Photonics</u>							
HORIZON-CL4-2023-DIGITAL-EMERGING-01-51	Pervasive photonics - multi- technology integration for digital infrastructure, sensors and internet of things (Photonics partnership)	RIA	2->5	3->5		4	
HORIZON-CL4-2023-DIGITAL-EMERGING-01-53	Versatile light sources and systems as tools for manufacturing and medical application (Photonics Partnership)	RIA	2->5	3->5		4	
HORIZON-CL4-2023-DIGITAL-EMERGING-01-56	Photonic Strategies and Skills Development (Photonics Partnership)	CSA	n/a	1->3		2	
HORIZON-CL4-2023-DIGITAL-EMERGING-01-57	Advanced imaging and sensing technologies (Photonics Partnership)	IA	3->6/7	5->7		4	

Digital topics: Graphene / 2D, Quantum

Title	Action Type	Action	TRL range	Project budget (€m)	Deadline	Estimated Projects
<u>Graphene and 2D materials: Europe in the lead</u>						
HORIZON-CL4-2023-DIGITAL-EMERGING-01-32	Sustainable safe-by-design 2D materials technology	RIA	2/3->4/5	3->5	29/03/23	2
HORIZON-CL4-2023-DIGITAL-EMERGING-01-33	2D materials of tomorrow	RIA	2->4	3->4		3
<u>Flagship on Quantum Technologies: a Paradigm Shift</u>						
HORIZON-CL4-2023-DIGITAL-EMERGING-01-50	Next generation quantum sensing and metrology technologies	RIA	2/3->4/5	2->3		3

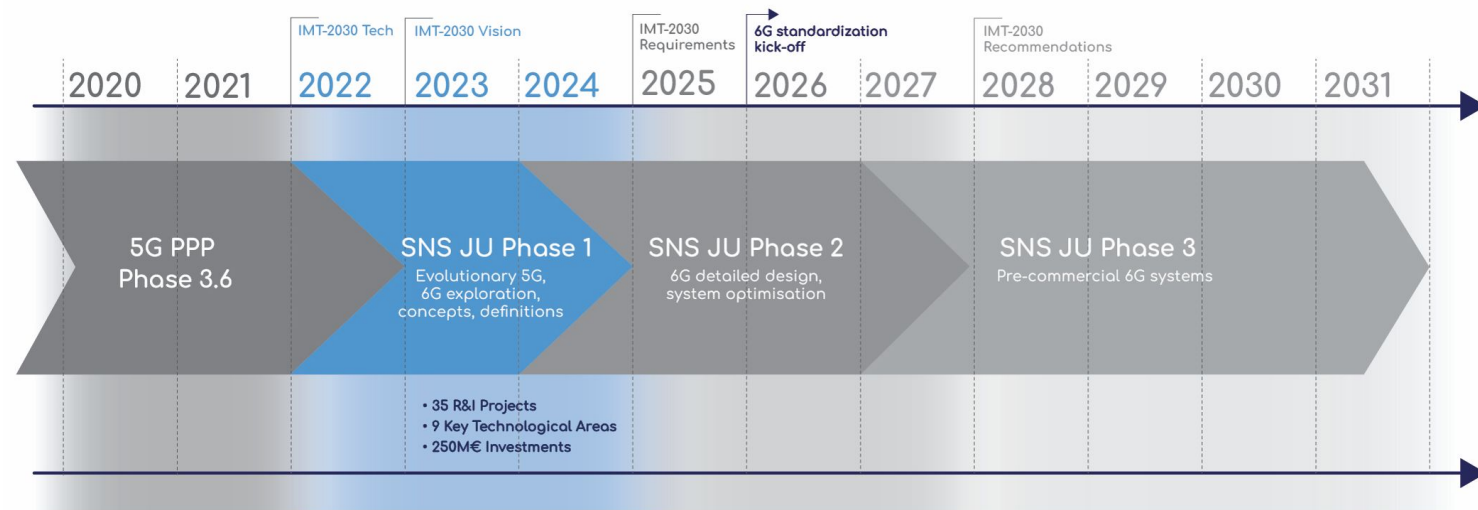
Human Centred/Ethical Development of Digital and Industrial

Topic Number	Topic Title	Action	TRL range	Project budget (€m)	Deadline	No. Projects
<u>Systemic approaches for accelerating uptake of technology and innovation</u>					29/03/22	
HORIZON-CL4-2023-HUMAN-01-31	Toolbox for efficient IP licensing for market uptake and societal value creation	CSA	n/a	2		1
HORIZON-CL4-2023-HUMAN-01-32	Piloting communities of expert facilitators to improve industry-academia-public sector co-creation	CSA	n/a	2		1
HORIZON-CL4-2023-HUMAN-01-33	Fostering knowledge valorisation through societal and cultural interactions	CSA	n/a	1		5
<u>Research and Innovation for Industry 5.0</u>						
HORIZON-CL4-2023-HUMAN-01-51	Pilots for an innovative human-centric industry	RIA		10		1
HORIZON-CL4-2023-HUMAN-01-52	Drivers and success factors for progress towards Industry 5.0	RIA		4		1
HORIZON-CL4-2023-HUMAN-01-53	Localised and Urban Manufacturing, supporting creativity and the New European Bauhaus	RIA	5->6	1.5->2.5		4
HORIZON-CL4-2023-HUMAN-01-54	Green and digital skills and training needs for a just transition	CSA	n/a	0.5		5
<u>European standards for industrial competitiveness</u>						
HORIZON-CL4-2023-HUMAN-01-63	Provide for a strong and sustainable pool of experts for European Standardisation: attract the students of university/HEI	CSA	n/a	2.5->3	1	
HORIZON-CL4-2023-HUMAN-01-62	Boosting industrial symbiosis by standardisation (CSA)	CSA	n/a	2	1	
HORIZON-CL4-2023-HUMAN-01-64	Pre-normative research and standardisation in industrial ecosystems (CSA)	CSA	n/a	0.5->1	8	
HORIZON-CL4-2023-HUMAN-01-65	Support facility for digital standardisation and international cooperation in digital partnerships (CSA)	CSA	n/a	1.5	1	
HORIZON-CL4-2023-HUMAN-01-66	Promoting EU standards globally (CSA)	CSA	n/a	2.5	1	

Topic Number	Topic Title	Action	TRL range	Project budget (€m)	Deadline	No projects	
<u>International Cooperation</u>							
HORIZON-CL4-2023-HUMAN-01-91	International Hub for Digital Partnerships in the Indo-Pacific	CSA	n/a	2	29/03/22	1	
HORIZON-CL4-2023-HUMAN-01-92	R&I cooperation with Sub-Saharan Africa	CSA	n/a	2		1	
HORIZON-CL4-2023-HUMAN-01-93	R&I cooperation with Latin America (Mexico, Brazil, Argentina, and other countries in the BELLA network or members of RedClara)	CSA	n/a	2		1	
<u>Leadership in AI based on trust</u>							
HORIZON-CL4-2023-HUMAN-01-01	Efficient trustworthy AI - making the best of data (AI, Data and Robotics Partnership)	RIA	2/3->4/5	7->9		5	
HORIZON-CL4-2023-HUMAN-01-02	Large Scale pilots on trustworthy AI data and robotics addressing key societal challenges (AI Data and Robotics Partnership)	IA	3/5->6/7	8		3	
HORIZON-CL4-2023-HUMAN-01-03	Natural Language Understanding and Interaction in Advanced Language Technologies (AI Data and Robotics Partnership)	RIA	2->5	6->8		3	
HORIZON-CL4-2023-HUMAN-01-04	Open innovation: Addressing Grand challenges in AI (AI Data and Robotics Partnership)	CSA	n/a	4		1	
HORIZON-CL4-2023-HUMAN-01-05	Through AI from Disinformation to Trust	IA	4/5->6/7	5		2	
<u>Internet of Trust</u>							
HORIZON-CL4-2023-HUMAN-01-11	Next Generation Internet Fund	RIA		27	1		
HORIZON-CL4-2023-HUMAN-01-12	Pilots for the Next Generation Internet	IA		3->5	5		
HORIZON-CL4-2023-HUMAN-01-13	Next Generation Internet International Collaboration - USA	RIA		4	1		
HORIZON-CL4-2023-HUMAN-01-14	Next Generation Internet Commons Policy	CSA	n/a	2	1		

Topic Number	Topic Title	Action	TRL range	Project budget (€m)	Deadline	No projects	
<u>eXtended Reality</u>							
HORIZON-CL4-2023-HUMAN-01-21	Next Generation eXtended Reality	RIA	2->5	5->8	29/03/22	4	
HORIZON-CL4-2023-HUMAN-01-22	eXtended Reality for Industry 5.0	IA	4->7/8	5->8		4	
HORIZON-CL4-2023-HUMAN-01-23	Supporting the emergence of an open human- centric Metaverse	CSA	n/a	2		1	
<u>Digital Humanism and human compatible technologies</u>							
HORIZON-CL4-2023-HUMAN-01-81	Digital Humanism - Putting people at the centre of the digital transformation	CSA	n/a	1.5		1	
HORIZON-CL4-2023-HUMAN-01-82	Art-driven digital innovation: Towards human compatible and ecologically conscious technology	CSA	n/a	3		1	

5/6G topics - Smart Networks and Systems



- Advanced 5G/6G development (previously 5G PPP) – now Smart Networks and Systems partnership
- €900m budget
- 2023 topics publication expected late December 2022
- Info Day ~23/1/23 (tbc) - online
- More info/2022 funded projects: <https://smart-networks.europa.eu>
- 6G Industry Association - <https://6g-ia.eu>

European Innovation Council (EIC)

- Europe's flagship innovation programme to identify, develop and scale-up breakthrough technologies and game changing innovations.
- Annual Work Programme (2021, 2022, 2023) with €1.2 Billion in 2023
- Open calls and challenges - (**Info Day 26 January**)
- EIC Pathfinder Challenge
 - Architecture, Engineering and Construction digitalisation for a novel triad of design, fabrication, and materials
 - Responsible electronics
- EIC Transition Challenge: Chip-scale Optical frequency combs
- EIC Accelerator Challenge: Emerging semiconductor or quantum technology components
- [NCP - Claire.Griffin@iuk.ukri.org](mailto:Claire.Griffin@iuk.ukri.org)

<https://eic.ec.europa.eu/eic-funding-opportunities/>

Support – National Contact Points

- National Contact Points are publicly funded and offer an accessible, free and confidential service for organisations interested participating in Horizon Europe. They provide impartial advice, tailored to each individual business and organisation – scope fit, help finding partners,
- Detailed knowledge of the Work Programme and how it aligns with the UK research and innovation priorities - www.ukri.org/HorizonEU
- [International NCP network](#) – support in Member States, Associated Countries and Third Countries
- Depth of understanding of European Commission processes including ‘non-standard’ issues such as JUs (some of the “partnerships”), EIC, ETPs, and other TLAs
- Help with navigating ‘[The \(Funding & Tenders\) Portal](#)’ – the EC publishes everything you could ever want to know, however, finding it can (occasionally) be a problem

If in doubt – ask your National Contact Point, their role is to support applicant organisations

Summary - additional useful information

- EU Science and Innovation have developed some very useful webinars:
 - European Commission [Information Days](#) (Cluster 4)
 - How to prepare a [successful proposal](#) and [scientific excellence](#)
 - [Dissemination & Exploitation](#) in Horizon Europe
- Check out the [Reference Documents](#) – if there is any conflicting information this is the officially recognised correct source.
- The [General Annexes](#) that apply to all topics have been published
- The best helpdesk ever is the free to use [IPR Helpdesk](#). They have templates, guides and proforma such as Teaming Agreements, [MOUs, NDA templates](#), how to write an [exploitation and dissemination plan](#), etc

Consortium building mechanisms

Participant portal – Every topic once published will have a ‘Partner Search’ function where you can upload your profile and review others that have done so

Brokerage events – European Commission [Info Days](#), Technology Platforms/Flagships, Enterprise Europe Network (EEN), UK’s KTN, NCPs from around Europe, etc will hold events

Partner Search – under the How to participate tab on the EU funding and tenders portal where you can search for past projects and organisations

CORDIS – a useful way of finding past projects and participants and allows you to contact them

Contacts and contacts of contacts... – networking, events

No single mechanism..



Searching the formal consortium building mechanisms is a bit like looking for a needle in a haystack – they all look like needles so finding the ones for you can be difficult

Digital, Industry Info Day 12-14 Dec (Cluster 4)

Overview Programme Speakers Brokerage event

About the event

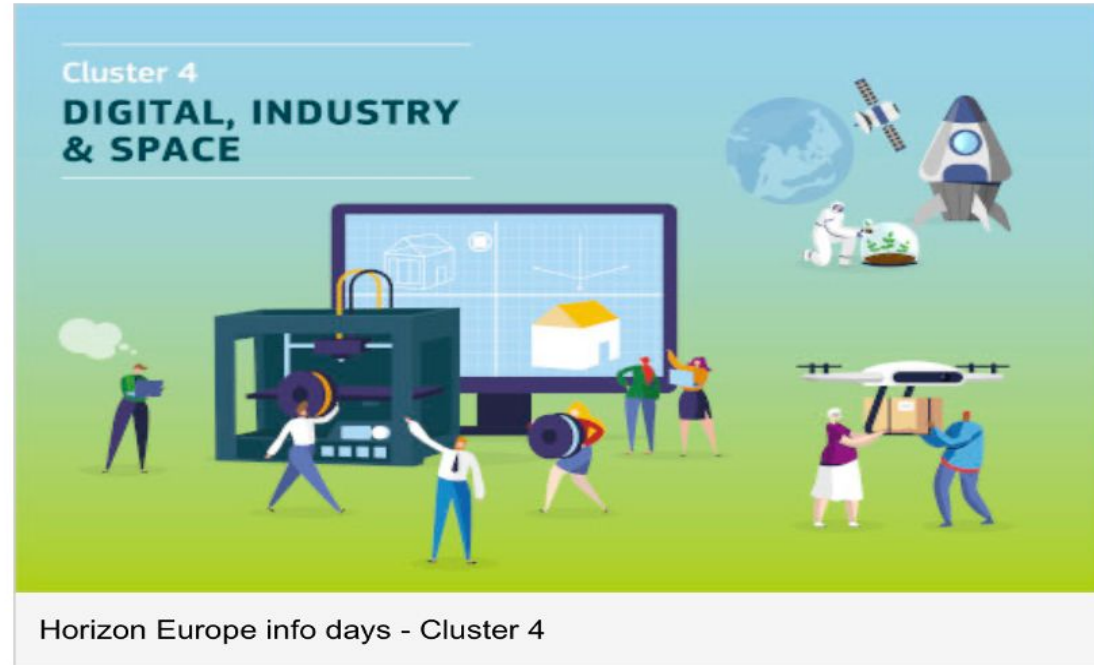
This event aims to inform potential applicants about the funding opportunities of the 2023 calls of Horizon Europe Cluster 4 'Digital, Industry and Space' Work Programme 2023-2024.

Speakers from the European Commission will go into depth on the call topics, the evaluation and the award process. Prospective applicants will have the opportunity to ask questions on what's new and learn how to draft successful proposals.

Under the pillar II of Horizon Europe, Cluster 4 focuses on digital, industry and space and aims to deliver on the following 6 Destinations matching the Strategic Plan:

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

technologies.



Horizon Europe info days - Cluster 4

Industry Topics brokerage 14th Dec

<https://he-industry-2023-brokerage.b2match.io>

Horizon Europe - Industry 2023 Brokerage event
Horizon Europe - Industry 2023 Brokerage event
December 14, 2022

Home Participants Marketplace Agenda

Register

Event organised by:



BROKERAGE EVENT

CLUSTER 4 | INDUSTRY

14th December 2022

14 December 2022

Horizon Europe - Industry 2023 Brokerage event

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THE EU RESEARCH & INNOVATION PROGRAMME 2021 - 2027



Home How it works Past events Contacts Project Idea check

NCP4Industry, the network of Cluster 4 - Industry National Contact Points is organising a **brokerage event** with **pre-arranged online Face2Face meetings** complementing the European Commission's Horizon Europe **Information Day on Cluster 4 - Digital, Industry & Space** with a 2023 deadline.

Register now

Open until 14 December 2022

ORGANISED BY

Space Topics brokerage 8th Dec

<https://horizon-europe-space-2023-brokerage.b2match.io>

Horizon Europe - Brokerage Event for Cluster 4 – Space calls 2023

December 8, 2022

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[Register](#)



8 December 2022

Horizon Europe - Brokerage
Event for Cluster 4 – Space
calls 2023

[Home](#) [How it works](#) [Call Topics](#) [FAQ](#) [Contact](#)

Welcome to

Horizon Europe - Brokerage Event for Cluster 4 – Space calls 2023

The network of National Contact Points (NCP) for the thematic area of Space, **COSMOS4HE** is organising a free of charge **online Space Brokerage Event** on **8th December 2022**. The event will give participants the opportunity to **matchmake with others** through pre-arranged meetings in order to identify possible collaborations and business cases and to facilitate the setup of Horizon Europe project consortia. For this, registrants will enter

[Register now](#)

Open until 8 December 2022

ORGANISED BY



Digital Topics brokerage 15-16th Dec

<https://digital2022.b2match.io>

Horizon Europe Digital - Face2Face Brokerage

Horizon Europe Digital - Face2Face Brokerage

December 15 - December 16, 2022

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#HorizonEU



INFO DAYS 2022
BROKERAGE
CLUSTER 4 | DIGITAL
15-16 DEC 2022

THE EU RESEARCH & INNOVATION PROGRAMME 2021 - 2027



15 December 2022 - 16 December 2022

Horizon Europe Digital -
Face2Face Brokerage

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How it works

Information Day

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Project Idea Consultation

Cascading Grant Arena

Contacts

Ideal-ist, the network of National Contact Points for ICT research, in cooperation with the Enterprise Europe Network invites you to participate in a **brokerage event** with **pre-arranged online Face2Face meetings** complementing the first Horizon Europe event the Information Day on Cluster 4 - Digital, Industry & Space.

Register now

Open until 16 December 2022

ORGANISED BY

Horizon Europe Support - www.ukri.org/HorizonEU

[UK NCP network](#) - support for each area of Horizon Europe

[International NCP network](#) – support in Member States, Associated Countries and Third Countries
<https://ec.europa.eu/info/funding-tenders/opportunities/portal/screen/support/ncp>

[Knowledge Transfer Network](#) (KTN) has sector specialists as well as EU specialists

[Innovate UK EDGE](#) has regional offices and access to a large database of companies seeking collaboration

UK support - www.ukri.org/HorizonEU

Horizon Europe: help for UK applicants

Contents

- **Overview**
- Apply for Horizon Europe funding
- Find partners and collaborators for Horizon Europe
- Get guidance and help with Horizon Europe

Related content

- ⇒ Working on EU-funded projects
- ⇒ UKRI Brussels

Overview

Horizon Europe is an EU research and innovation programme. It has a budget of €95.5 billion and runs until 2027.

If you're a UK-based researcher or innovator, you can apply to most Horizon Europe funding opportunities on the same terms as EU-based applicants.



**UK Research
and Innovation**

Horizon Europe

Cherie Gardiner – Industry NCP-Industry@iuk.ukri.org

Catherine Holt – Space NCP-Space@iuk.ukri.org

Craig Sharp - Digital NCP-Digital@iuk.ukri.org



HORIZON EUROPE

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





Case Study



Paul Collier
External Programmes Manager
Johnson Matthey



Johnson Matthey
Inspiring science, enhancing life

Johnson Matthey Experiences with UKRI Horizon Europe Guarantee Scheme

Paul Collier

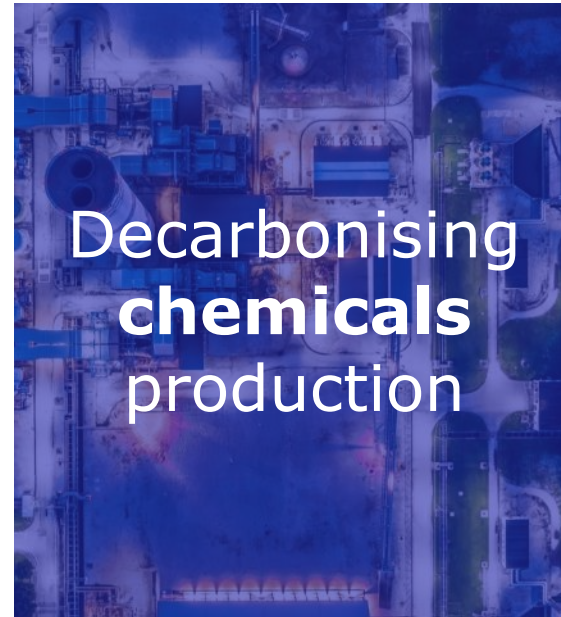
external.collaborations@matthey.com



Accelerating the transition to a cleaner, healthier world

Our vision is for a world that's cleaner and healthier. And so we are making it our business to help address the four essential transitions the world needs for a sustainable future.

Using world class science and technology to solve complex problems



We like to work with people who share our values



Sustainable

Targeting 95% of sales and R&D spend to contribute to 4 UN SDGs by 2030

- Committed to net zero by 2040



Inclusive

Committed to creating a diverse, inclusive and engaged company

- Stonewall Silver Award holder for LGBT+ inclusion



Safe

The highest standards of EHS across all sites

- Life saving policies at work and home

Solving these global challenges requires us to work together

Developing innovative solutions to the world's sustainability challenges requires sharing expertise and knowledge, collaborating with different partners and institutions



**Universities and
academic
institutions**

JM



Consortium programmes



**Commercial
collaborations**

Horizon Europe and JM

Motivation for participation in HE – huge value of working with stakeholders, customers and universities in the EU

Building strategic partnerships is important to JM

Speed up development of new technologies

JM involved in 5 live Horizon Europe projects

CL4, CL5 and EIC



Impact of UK not fully associating to HE

Grant Agreement – Associated Partners don't sign the GA but are often bound by its terms (elements of which can be incorporated into the CA)

Consortium Agreement (CA)– Legal agreement which governs the Consortium. A new version of the DESCAs template has been launched to cover Associated Partners

Leadership of projects (Coordinator) & Work Packages, (& ownerships of tasks) not possible or discouraged

Links: [DESCA Model Consortium Agreement - DESCAs 2020 Model Consortium Agreement \(desca-agreement.eu\)](#)

UKRI Guarantee Scheme

Application for Funding on IFS – works well, straight forward, need signed copy of Grant Agreement to upload (this can delay application as often signed very close to project start)

Monitoring, claims and reporting

- Monitoring: Quarterly reviews compared to EU meetings every 6 months
- Claims: Quarterly in arrears, on receipt of claim and proof of labour time/expenditure. No pre-payments made.
- Reporting: Reporting to both consortium and Monitoring Service Provider gives a feeling of duplication of effort.

A view from a JM Project Manager...

1. Its good that we have it (Guarantee Scheme) and can participate
2. Grant application process seems quite simple which is good (though you tend to have to reload the same data for from the application after it is granted)
3. Other EU partners are still a bit confused about how it works
4. Process is quite a significant additional amount of bureaucracy on top of the H2020 requirements
5. The requirements of the quarterly review are still unclear and vary between projects/monitoring officers also don't align with EU review period (6 months)
6. Due to confidentiality requirements it difficult to share technical information
7. For a multi-partner project where there is a lot of interaction between partners it can be tricky to see how you review one partners work in isolation as we are doing for the IUK funding

Q&A Panel



Belen Rebollo-Garcia
Knowledge Transfer Manager

BREAK



Option of watching UKRI video on experiences from Horizon 2020 and Horizon Europe UK grantees

https://www.youtube.com/watch?v=qdxHQ_7VRFq&list=PLkjB0VcEI5P_zFLV2oKywwXzZ4Vz2l8Zu



Navigating application and award process: Practical tips and support for applicants



Chris Young
NCP for Legal and Financial Issues





UK Research
and Innovation

Proposal submission and grant negotiations – practical considerations

Chris Young
Horizon Europe UK Legal and Financial
National Contact Point

christopher.young@iuk.ukri.org

HORIZON EUROPE

THE NEXT EU RESEARCH & INNOVATION
PROGRAMME 2021 – 2027



Proposal submission - general principles

- UK organisations – **submit as a beneficiary/coordinator** – candidate Associate Country
- Complete budget tables in full (Part A and Part B)
- Note eligibility requirements – multi-beneficiary topics – 1x MS + 2x MS/AC (consider + UK)
- Topic specific issues – participants, budget etc
- Consider NDA/MoU

Roles and responsibilities – Beneficiary and Coordinator

- Organisations can participate in various roles: as **coordinator**, **beneficiaries**, affiliated entities, associated partners, in-kind contributors, subcontractors or recipients of financial support to third parties.
- Beneficiaries are entities that sign the Grant Agreement
- The **coordinator** is the beneficiary who is the central contact point for the Commission and represents the consortium (towards the Commission) – they act as the “banker” for EU funds
- Ideally, the work should be done by the beneficiaries and their affiliated entities **themselves**, but if needed, they may involve other partners and rely on outside resources (*purchase new equipment, goods, works or services, subcontract a part of the work or involve associated partners, etc*).

Roles and responsibilities – Associated partners

- **Associated partners** – they implement action tasks but do not receive EU funding
- They do not sign the Grant Agreement but are actively involved in the consortium
- The Grant Agreement mentions them and defines their role but they are NOT beneficiaries
- The consortium is responsible for the implementation of the actions tasks by the Associated partner
- They do not have to account for their costs but applicants should include their costs in the budget of their proposal under other sources of finance, financial contributions and own resources headings

Roles and responsibilities – Subcontractor

- **Subcontracts** – these concern the implementation of "action tasks" as set out in Annex I of the Grant Agreement ie part of the project/project tasks that have been outsourced.
- The price for the subcontracts will be declared as subcontracting costs in the financial statement.
- Subcontractor's motivation is financial, not the project itself and is paid by the beneficiary in exchange for its work
- Subcontracting is limited and certain tasks are excluded (eg. Coordination)

Example : Subcontract to organise a conference that is set as part of the tasks in the description of the action

Budget for the proposal

- The budget categories to be used for the call are set out in the call conditions and explained in the Annotated Model Grant Agreement
https://ec.europa.eu/info/funding-tenders/opportunities/docs/2021-2027/common/guidance/aga_en.pdf
- The budgeted costs should be based on a detailed and accurate estimation of your estimated project costs (based on the cost eligibility rules). They should include *all* your estimated costs.
- Cross-check Part A and Part B to see if you will also need to submit a detailed budget table or outline budgetary details in Part B.
- Keep your estimates on file — you may be required to produce them later on
- Only the white cells need to be filled in (the grey cells are not applicable or automatically filled by the system)

Part A - Budget for the proposal

3 – Budget for the proposal

No	Participant name	Country	Estimated expenditure						Estimated income								
			Estimated eligible costs						Requested EU contribution			Revenues	Other sources of financing		Total estimated income (k)+(n) +(o)+(p)+ (q) + (r)		
			A. Personnel costs/€ (a1)	B. Subcontracting costs/€ (b)	C. Purchase costs			D. Other cost categories D.X (specific cost category) /€ (dx)	E. Indirect costs/€ (e) = 25% * ((a1) + (c1) + (c2) + (c3) + (d7))	Total eligible costs (h) = (a1) + (b) + (c1) + (c2) + (c3) + (d) + (e)	Funding rate (U)	Maximum EU contribution to eligible costs (l) = (U) * (h)	Requested EU contribution to eligible costs/€ (Requested grant amount) (m) (n)	Income generated by the action (o)		Financial contributions (q)	Own resources (r)
					C.1 Travel and subsistence/€ (c1)	C.2 Equipment/€ (c2)	C.3 Other goods, works and services /€ (c3)										
1	Participant 1	NL															
2	Participant 2	LB															
	Affiliated Entity	LB															
3	Participant 3	DE															
	Associated Partner	AR															
Total																	



Part A - Budget for the proposal

Estimated project expenditure												
Estimated eligible costs												
D. Other cost categories												
No	Participant name	Country	D.1 Financial support to third parties (Actual costs) (d1)	D.2 Internally invoiced goods and services (Unit costs - usual accounting practices) (d2)	D.3 Transnational access to research infrastructures (Unit costs) (d3)	D.4 Virtual access to research infrastructures (Unit costs) (d4)	D.5 PCP/PPI procurement costs (Actual costs) (d5)	D.6 Euratom Cofund staff mobility costs (Unit costs) (d6)	D.7 ERC additional funding (Actual costs) (d7)	D.8 ERC additional funding (subcontracting, FSTP and internally invoiced goods and services) (Actual costs) (d8)		
1	Participant 1	NL										
2	Participant 2	LB										
	Affiliated Entity	LB										
3	Participant 3	DE										
	Associated Partner	AR										
Total												

Successful evaluation – change of status (current position)

- On successful evaluation - change from beneficiary to associated partner
- Confirm participation - Associated Partner - Letter of Intent (refer to guarantee and UK R&D roadmap 2020 p43
https://assets.publishing.service.gov.uk/government/uploads/system/uploads/attachment_data/file/896799/UK_Research_and_Development_Roadmap.pdf
- If threatened with removal:
 - inform PO; seek support (Consortium - ask for a vote)
 - Negotiate a lower budget
 - If NDA/MoU in place seek to enforce
 - Contact NCP

Standard European Commission text following successful evaluation

- Ineligible - identify new participant (minimum eligibility requirements) ie 3x MS/AC (+UK)
- Change to Associated Partner
- Redistribute tasks to existing beneficiaries and/or new participant (coordinator role)

Accordingly, your proposal will be declared ineligible and the Grant preparation terminated, unless you consider the steps suggested below.

To address the ineligibility of your proposal, I am inviting you to take the following possible actions so the Grant preparation of your proposal can continue:

Step1. Identification of new participant

Identify a new participant(s) established in a Member State or an Associated Country not present in the original proposal to make sure that the proposal complies with the minimum eligibility conditions for participation. This new participant must take over some of the tasks (possibly including the tasks of the UK participants).

The redistribution of the budget and tasks will be accepted as non-substantial change unless these changes would put into question the results of the evaluation.

Step2. Change of status of the participant from beneficiary to associated partner

Provided that the legal entities established in the United Kingdom are able to fund their tasks, their status may change from a beneficiary into an associated partner within the meaning of Article 9.1 of the Horizon Europe Model Grant Agreement. The total EU funding to the project will be reduced accordingly, except for tasks taken over by the new or existing eligible beneficiaries.

A redistribution of the remaining budget and tasks may be requested and should be accepted as non-substantial change unless it would put into question the results of the evaluation.

The entity may be later re-established as a beneficiary through a grant amendment if the association agreement with the United Kingdom becomes applicable and if requested by the consortium. If the association agreement provides for retroactive application prior to the start of the action and if the status changes to beneficiary, such conditions will apply.

Alternative step 2: Withdrawal of the legal entities from participation in the proposal

The tasks of the legal entities established in the United Kingdom are taken over either by the remaining other beneficiaries of the proposal, subject to the fulfilment of the minimum eligibility conditions for participation of the proposal, or by one or more additional new beneficiaries established in a Member State or an Associated country. The legal entity established in the United Kingdom is withdrawn from the project. The total EU funding to the project may remain unchanged.

Associated partners - overview

UK organisations post successful evaluation – third country participant

DO NOT receive EU funding – self funding

DO NOT sign the Grant Agreement – NOT beneficiaries

CANNOT be the official coordinator (but can be scientific/technical coordinator)

DO NOT account for costs to EC - self funding/government guarantee

CAN be WP leaders, implement actions tasks – fully participate

Recognised role - Grant Agreement (Article 9.1) – role and tasks (Annex 1)

Associated partners and the Consortium Agreement

- UK participants convert to Associated Partners – third country participant - note access rights on portal, no right to Grant Agreement
- No direct right of EC to enforce - Consortium is responsible for the implementation of the actions tasks by the Associated partner
- Provisions from the Grant Agreement inserted in the Consortium Agreement – DESCAs <https://www.desca-agreement.eu/desca-model-consortium-agreement/>
- Grant Agreement - Article 9.1
- Associated partners sign the Consortium Agreement – director or equivalent (not on the portal)
- Belgium law applies (insurance)

Consortium Agreement – Article 9.1

- Articles 9.1 lists the provisions that apply to Associated Partners as follows:
 - Article 11 (proper implementation)
 - Article 12 (conflict of interests)
 - Article 13 (confidentiality and security)
 - Article 14 (ethics)
 - Article 17.2 (visibility)
 - Article 18 (specific rules for carrying out action)
 - Article 19 (information)
 - Article 20 (record- keeping)
 - Article 25 (rights of various organisations).
- Above listed in the government guarantee p24/25
<https://www.ukri.org/wp-content/uploads/2021/12/UKRI-031122-HorizonEuropeGuaranteeGuidance.pdf>

Associated partner/Consortium Agreement – current UK issues – practical considerations

- Proposal submission – Beneficiary - consider NDA/MoU or simple contract re ownership
- On successful evaluation - confirm participation - Letter of Intent (refer to guarantee)
- If threatened with removal:
 - inform PO; seek support (Consortium - ask for a vote)
 - Negotiate a lower budget
 - If NDA/MoU in place seek to enforce
 - Offer indemnity (shortfall in the budget)
 - Contact NCP
- Consortium Agreement – Limit any liability (total project costs), indemnity (only if pushed), right to the Grant Agreement (and amendments), carve out from financial provisions



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Thank you



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Q&A Panel



Belen Rebollo-Garcia
Knowledge Transfer Manager



Key dates & Key Messages



Some Key dates for you

EU info days

https://research-and-innovation.ec.europa.eu/events/horizon-europe-info-days_en

- Health (Cluster 1): 19 January 2023
- Culture, Creativity and Inclusive Society (Cluster 2): 17 January 2023
- Digital, Industry and Space (Cluster 4) Info day – 12 - 14 December 2022
- Climate, Energy and Mobility (Cluster 5) Info day – 15 - 16 December 2022
- Food, Bioeconomy (Cluster 6) info day – 13 - 14 December 2022
- Research Infrastructures: 6 December 2022
- Marie Skłodowska-Curie: 7 December 2023 (*Staff exchanges*)

Horizon Europe

Horizon Europe is an opportunity for all types of UK organisations (including businesses and academia) to get funding for research and innovation. For UK businesses this is an opportunity to collaborate with partners with the right expertise to expand markets and accelerate innovation across Europe and internationally.

UK Horizon Europe Hub <https://ktn-uk.org/programme/european/>

Horizon Europe Webinar Series

- 1 December 2022, 10am-12pm GMT – Cluster 5: Climate, Energy and Mobility
- 2 December 2022, 10am-12pm GMT – Cluster 1: Health
- 6 December 2022, 10-12pm GMT – Cluster 6: Food, Bioeconomy, Natural Resources, Agriculture and Environment
- 7 December 2022, 10am-12pm GMT – Cluster 2: Culture, Creativity and Inclusive Society
- 8 December 2022, 10am-12pm GMT – Cluster 4: Digital, Industry and Space
- 15 December 2022, 10am-12pm GMT – Cluster 3: Civil Security for Society

[REGISTER HERE](#)

“UK Horizon Europe Hub” <https://ktn-uk.org/programme/european/>





UK Research and Development Roadmap (page 43)

*“.....It is our ambition to fully associate to both programmes if we can agree a fair and balanced deal, but we will make a final decision once it is clear whether such terms can be reached. If we are formally associated to Horizon Europe, the funding for UK participants will be allocated to the relevant UK organisations by the EU. In this scenario, if there were **any gap before we became formally associated, we would implement short-term alternative funding arrangements** through proven, attractive UK schemes. During any gap, we would provide funding to UK partners who are successful in bidding to programmes open to third country participation....”*



InnovateUK
KTN



UK Research and Development Roadmap (page 43)

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