



Innovate
UK

Horizon Europe

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

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Agenda

- General Introduction to the EU Framework Programme
- UK Association – what it means
- Horizon Europe Pillar 2 - Cluster 6 Food, Bioeconomy, Natural Resources, Agriculture and Environment
- Support & Consortium Building
- Q&A

Cluster 6

FOOD, BIOECONOMY, NATURAL RESOURCES, AGRICULTURE & ENVIRONMENT



European Framework Programmes

- Funding programmes created by the European Union/European Commission to support and foster research and innovation
- Began in 1984 and each last for 7 years and align to the EU's Multiannual Financial Framework (MFF)

Horizon 2020

- The previous Framework Programme (FP). It began in 2014 and had its last call for proposals in 2020. Total budget for Horizon 2020 was ~ €80bn

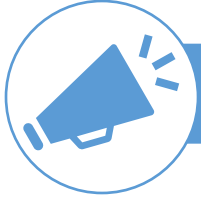
Horizon Europe

- The 9th FP and successor to Horizon 2020 will run from **2021 to 2027**
- **€95.5bn total budget** - Work Programmes published June 2021



The UK has agreed to Associate to Horizon Europe

What does UK Association mean?



The UK has agreed to Associate to Horizon Europe

- UK entities will have **equivalent participation rights** to those from Member States i.e. can lead and influence key collaborative projects
- **Continued access** to collaborative **R&I funding**, infrastructure and markets via Horizon Europe
 - *able to access funding from all parts of the Programme, including ERC, MSCA, Partnerships and the majority of EIC (except EIC Accelerator equity fund)*
 - *work programme level exclusions only in exceptional and justifiable cases (e.g. some Defence & Security)*
- **Participate in and influence** programme **governance** structures (e.g. Programme Committees)
- **UK experts** can continue to take part in project evaluations
- [Q&A on the UK's participation in Horizon Europe](#)

HORIZON 2020

EXCELLENT SCIENCE

EUROPEAN RESEARCH COUNCIL

MARIE CURIE ACTIONS

RESEARCH INFRASTRUCTURES

FUTURE AND EMERGING TECHNOLOGIES

SOCIETAL CHALLENGES

HEALTH

INCLUSIVE AND SECURE SOCIETY

DIGITAL INDUSTRY AND SPACE

CLIMATE ENERGY AND MOBILITY

FOOD AND NATURAL RESOURCES

INDUSTRIAL LEADERSHIP

LEADERSHIP IN ENABLING AND INDUSTRIAL TECHNOLOGY

ACCESS TO RISK FINANCE

INNOVATION IN SMEs

WIDENING PARTICIPATION AND SCIENCE WITH AND FOR SOCIETY

HORIZON EUROPE

OPEN SCIENCE

EUROPEAN RESEARCH COUNCIL

MARIE CURIE ACTIONS

RESEARCH INFRASTRUCTURES

GLOBAL CHALLENGES AND INDUSTRIAL COMPETITIVENESS

HEALTH

INCLUSIVE AND SECURE SOCIETY

CIVIL SECURITY FOR SOCIETY

DIGITAL INDUSTRY AND SPACE

CLIMATE ENERGY AND MOBILITY

FOOD AND NATURAL RESOURCES

MISSION

OPEN INNOVATION

EUROPEAN INNOVATION COUNCIL

EUROPEAN INNOVATION ECOSYSTEMS

EUROPEAN INSTITUTE OF INNOVATION AND TECHNOLOGY

SHARING EXCELLENCE AND REFORMING AND ENHANCING THE EUROPEAN R&I SYSTEM

Horizon Europe Structure

THREE PILLARS FOR IMPLEMENTATION



Innovate UK

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

Funding rates and main types of Action

Research and Innovation Action (RIA)

- Typically, low(ish) Technology Readiness Level
- Consortium of at least three different legal entities from three different eligible countries (all UK legal entities are classed as eligible). One consortium member must be from a Member State (MS)
- All participants receive 100% of eligible direct costs plus 25% for indirect costs

Innovation Action (IA)

- Typically, high(er) Technology Readiness Level
- Consortium of at least three different legal entities from three different eligible countries. One must be from a MS
- All not-for-profit participants receive 100% of eligible direct costs plus 25% for indirect costs
- All for-profit participants receive 70% (60% if co-programmed partnerships) of eligible direct costs plus 25% for indirect costs

Coordination and Support Action (CSA)

- As name suggests, for coordinating and supporting activities such as working groups, networking, regulation review, communications, organising EU conferences, etc
- Formally do not need a collaborative approach but frequently do to meet the scope. Must have one from a MS
- All participants receive 100% of eligible direct costs plus 25% for indirect costs

Strategic Plan for Implementing Horizon Europe

The Strategic Plan aims to provide a coherent approach for the development of the Work Programmes for the first four years of Horizon Europe (2021-2024).

It focuses in particular on the ‘Global challenges and European industrial competitiveness’ pillar and also covers relevant activities in other pillars and parts of Horizon Europe.



From the Strategic Plan to Cluster 6

KEY STRATEGIC ORIENTATIONS (KSO)	IMPACT AREAS	EXPECTED IMPACTS
KSO B: Restoring Europe's ecosystems and biodiversity, and managing sustainably natural resources	Enhancing ecosystems and biodiversity on land and in waters	27. Climate neutrality and adaptation to climate change
	Clean and healthy air, water and soil	28. Preservation and restoration of biodiversity and ecosystems
	Sustainable food systems from farm to fork on land and sea	30. Food and nutrition security for all from sustainable food systems from farm to fork
		31. Balanced development of rural, coastal and urban areas
KSO C: Making Europe the first digitally enabled circular, climate-neutral and sustainable economy	Circular and clean economy	29. Sustainable and circular management of natural resources; tackling pollution; bioeconomy
		32. Innovative governance models enabling sustainability, environmental observation



Destination Themes
Biodiversity and ecosystem services
Food systems
Circular economy and bioeconomy
Environment and pollution
Land, ocean and water
Communities
Governance, environmental observations, digital solutions



TOPICS

What this means in practice

- The Call topic description starts with “Expected outcome”
- Impact in the proposal – aspects to be taken into account:
 - Credibility of the pathways to achieve the expected outcomes and impacts specified in the work programme, and the likely scale and significance of the contributions due to the project.
 - Suitability and quality of the measures to maximise expected outcomes and impacts, as set out in the dissemination and exploitation plan, including communication activities

Cluster 6

Food, Bioeconomy, Natural Resources, Agriculture and Environment



Policy drivers

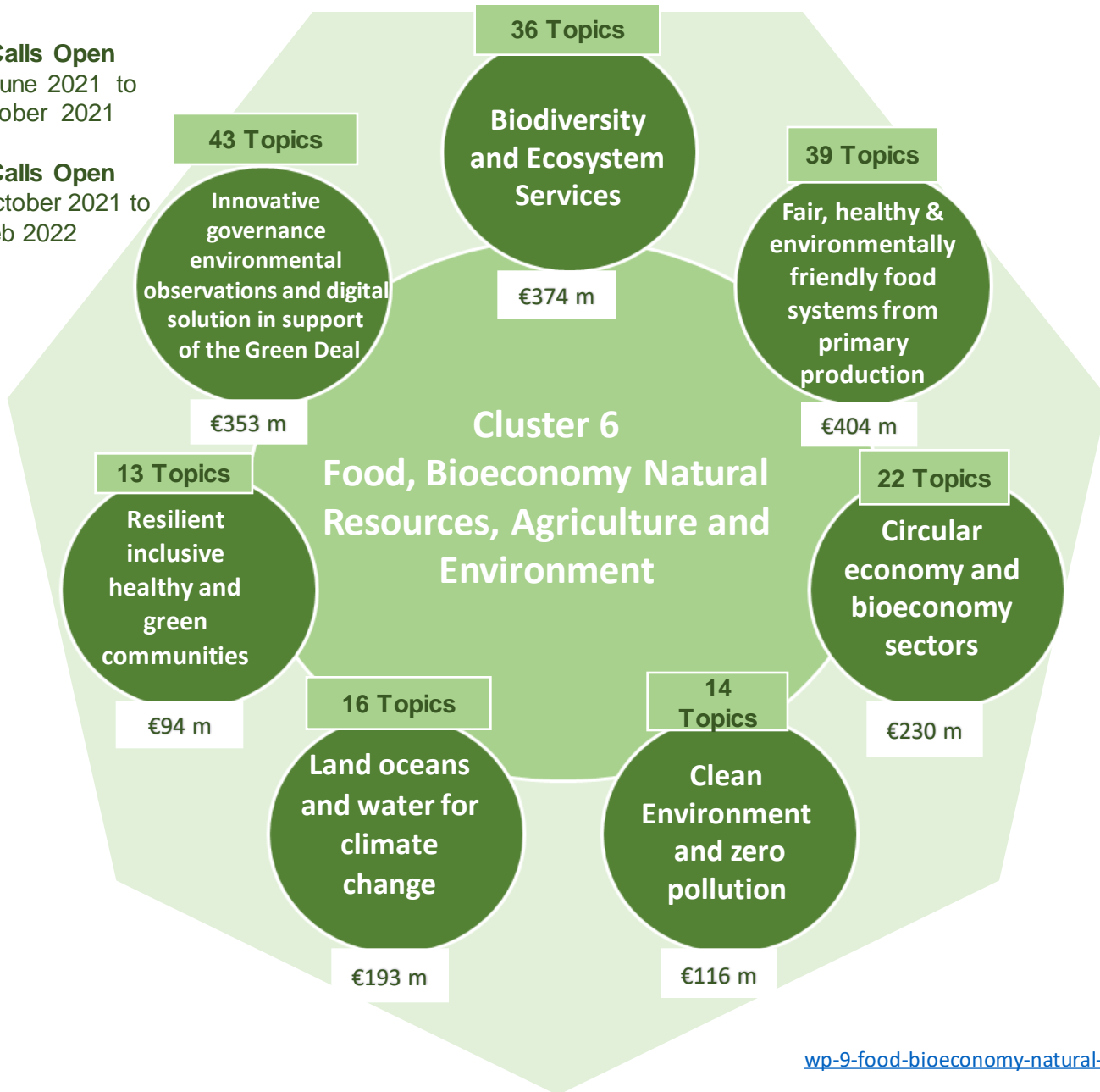


- European Green Deal
- EU Biodiversity Strategy for 2030
- EU Farm to Fork Strategy
- Circular Economy Action Plan
- EU Industrial Strategy
- Bioeconomy Strategy
- EU Forest Strategy
- Blue Growth Strategy
- Chemicals Strategy for Sustainability
- EU Plastics Strategy
- EU Climate Policy

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

2021 Calls Open
22nd June 2021 to
6th October 2021

2022 Calls Open
28th October 2021 to
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

MISSION AREAS:

Soil health and food



Adaptation to climate change, including societal transformation



Climate-neutral and smart cities



Cancer



Healthy oceans, seas, coastal and inland waters



#HorizonEU



European
Commission

[Horizon Missions link](#)
[Soils at Risk Mission Webinar](#)

Biodiversity and Environment Calls

- **Biodiversity and ecosystem services**
- **Clean environment and zero pollution**





Biodiversity and ecosystem services

Biodiversity is back on a path to recovery, and ecosystems and their services are preserved and sustainably restored on land, inland water and at sea through improved knowledge and innovation

Destination 1: Biodiversity and Ecosystem Services

Theme	Key innovations in scope	Number of topics	Indicative funding
Understanding biodiversity decline	<ul style="list-style-type: none"> • Genomics for biodiversity identification • Data, tools, models for species inventory and monitoring • Understanding biodiversity decline in marine systems 	4	€56M
Valuing and restoring biodiversity and ecosystem services	<ul style="list-style-type: none"> • Economics of nature-based solutions: cost benefit analysis; risks • Support for policy and decision making • Protection and management of ecosystems • Biodiversity, ecosystems links to pandemic/epidemic risks 	8	€62.5M
Managing biodiversity in primary production	<ul style="list-style-type: none"> • Diversity of agroecosystems: roots, crops, forestry 	3	€34M
Enabling transformative change on biodiversity	<ul style="list-style-type: none"> • Impacts on biodiversity: biomass, societal factors • Support for policy and decision making • Co-fund partnership - Rescuing Biodiversity to Safeguard Life on Earth 	6	€66M
Interconnecting biodiversity research and supporting policies	<ul style="list-style-type: none"> • Co-fund partnership - Rescuing Biodiversity to Safeguard Life on Earth • Support for policy and decision making 	4	€43M

Destination 1: Biodiversity and ecosystem services

Topic Ref Number	Topic Title	Type of Action	Budgets (No of projects)
CL6-2021-BIODIV-01-01	European participation in global biodiversity genomics endeavours aimed at identifying all biodiversity on Earth	RIA	20 (2)
CL6-2021-BIODIV-01-02	Data and technologies for the inventory, fast identification and monitoring of endangered wildlife and other species groups	RIA	10 (2)
CL6-2021-BIODIV-01-03	Understanding and valuing coastal and marine biodiversity and ecosystems services	RIA TRL 4-5	16 (1)
CL6-2021-BIODIV-01-04	Assess and predict integrated impacts of cumulative direct and indirect stressors on coastal and marine biodiversity, ecosystems and their services	RIA TRL 4-5	10 (1)
CL6-2021-BIODIV-01-05	The economics of nature-based solutions: cost- benefit analysis, market development and funding	RIA	5 (1)
CL6-2021-BIODIV-01-06	Nature-based solutions, prevention and reduction of risks and the insurance sector	CSA	5 (1)
CL6-2021-BIODIV-01-07	Ecosystems and their services for an evidence- based policy and decision-making	RIA	13 (1)
CL6-2021-BIODIV-01-08	Supporting the development of a coherent and resilient Trans-European Nature Network	IA	10 (1)
CL6-2021-BIODIV-01-09	Assessing and consolidating recent scientific advances on freshwater ecosystem restoration	CSA	0.5 (1)
CL6-2021-BIODIV-01-10	Demonstration of measures and management for coastal and marine ecosystems restoration and resilience in simplified socio-ecological systems	IA TRL 6-7	10 (1)
CL6-2021-BIODIV-01-11	What else is out there? Exploring the connection between biodiversity, ecosystems services, pandemics and epidemic risk	IA TRL 4-6	12 (2)
CL6-2021-BIODIV-01-12	Improved science based maritime spatial planning and identification of marine protected areas	RIA TRL 4-5	7 (2)

Destination 1: Biodiversity and ecosystem services

Topic Ref Number	Topic Title	Type of Action	Budgets (No of projects)
CL6-2021-BIODIV-01-13	Breeding for resilience: focus on root-based traits	RIA	16 (2)
CL6-2021-BIODIV-01-14	Fostering organic crop breeding	IA TRL 5-7	10 (2)
CL6-2021-BIODIV-01-15	Protection and sustainable management of forest genetic resources of high interest for biodiversity, climate change adaptation, and forest reproductive materials	RIA	8 (1)
CL6-2021-BIODIV-01-16	Quantify impacts of the trade in raw and processed biomass on ecosystems, for offering new leverage points for biodiversity conservation, along supply chains, to reduce leakage effects	RIA	10 (4)
CL6-2021-BIODIV-01-17	Biodiversity, water, food, energy, transport, climate and health nexus in the context of transformative change	RIA	5 (1)
CL6-2021-BIODIV-01-18	Policy mixes, governance (including financing) and decision-making tools for transformative action for biodiversity	RIA	8 (3)
CL6-2021-BIODIV-01-19	Rescuing Biodiversity to Safeguard Life on Earth	COFUND	20 (1) (165)
CL6-2021-BIODIV-01-20	A mechanism for science to inform implementation, monitoring, review and ratcheting up of the new EU Biodiversity Strategy for 2030 ("Science Service")	CSA	13 (1)
CL6-2021-BIODIV-01-21	Support to processes triggered by IPBES and IPCC	CSA	5 (1)
CL6-2021-BIODIV-01-22	Impact and dependence of business on biodiversity	RIA	5 (2)

Clean environment and zero pollution

Advance the knowledge of pollution sources and pathways to enable preventive measures, improve monitoring and control, apply planetary boundaries in practice and introduce effective remediation methods



Destination 4: Clean environment and zero pollution

Theme	Key innovations in scope	Number of topics	Indicative funding
Halting emissions of pollutants to soils and waters	<ul style="list-style-type: none"> • Pollution prevention from nutrients 	2	€13M
Protecting drinking water and managing urban water pollution	<ul style="list-style-type: none"> • Understanding, prevention and management of urban water pollution 	1	€10M
Addressing pollution on seas and oceans	<ul style="list-style-type: none"> • Understanding, prevention and management of marine pollution 	1	€3M
Increasing environmental performances and sustainability of processes and products	<ul style="list-style-type: none"> • Biological feedstock markets, trade control, impacts • Understand and improve the environmental impact of bio-based processes and industries • Bioremediation and revitalization strategies for contaminated environments 	6	€39M

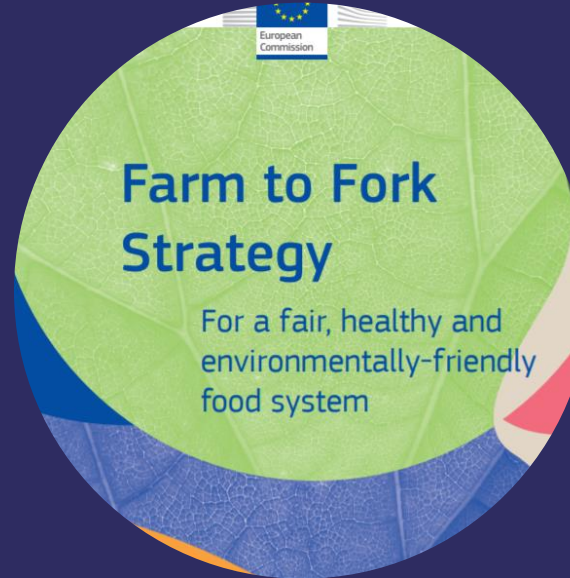
Destination 4: Clean environment and zero pollution

Topic Ref Number	Topic Title	Type of Action/TRL	Budgets EUR million (No of projects)
CL6-2021-ZERO-POLLUTION-01-01	Regional nitrogen and phosphorus load reduction approach within safe ecological boundaries	CSA	6 (3)
CL6-2021-ZERO-POLLUTION-01-02	Optimization of nutrient budget in primary production	RIA	7 (1)
CL6-2021-ZERO-POLLUTION-01-03	Preventing and managing diffuse pollution in urban water runoff	RIA TRL 5	10 (3)
CL6-2021-ZERO-POLLUTION-01-04	Achieving zero polluted seas and oceans	CSA	3 (1)
CL6-2021-ZERO-POLLUTION-01-05	Environmental sustainability criteria for biological feedstock production and trade in bio-based systems: impacts and trade-offs	IA TRL 7-8	6 (1)
CL6-2021-ZERO-POLLUTION-01-06	Increasing the environmental performance of industrial processes in bio-based sectors: construction, woodworking, textiles, pulp and paper and bio-chemicals	RIA TRL 5	7 (2)
CL6-2021-ZERO-POLLUTION-01-07	International and European sustainability certification schemes of bio-based systems	CSA	6 (3)
CL6-2021-ZERO-POLLUTION-01-08	New genomic techniques (NGT): understanding benefits and risks – focus on bio-based innovation	RIA	5 (1)
CL6-2021-ZERO-POLLUTION-01-09	Environmental impacts and trade-offs of alternative fertilising products at global/local scale	CSA	4 (2)
CL6-2021-ZERO-POLLUTION-01-10	Environmental services: improved bioremediation and revitalization strategies for soil, sediments and water	RIA TRL 4-5	11 (2)

Food Systems, Bioeconomy, Climate Action, Communities and Governance Calls



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



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

Theme	Key innovations in scope	Number of topics	Indicative funding 2021
Enabling sustainable farming	<ul style="list-style-type: none"> Organic farming and aquaculture Plant and animal health. Vaccines and diagnostics Digital Technologies Agroecology 	16	€60M
Enabling sustainable fisheries and aquaculture	<ul style="list-style-type: none"> Consumer engagement Digital Technologies Surveillance & Health and Welfare Monitoring 	5	€20M
Transforming food systems for health, sustainability and inclusion	<ul style="list-style-type: none"> Alternative proteins Zero waste Healthy and sustainable diets Microbiome Traceability 	11	€67M
Targeted international cooperation	<ul style="list-style-type: none"> African agriculture and food systems One Health Approach China international integrated pest management 	6	€24M

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

Topic Ref Number	Topic Title	Type of Action (TRL)	Budgets EUR million (No of Projects)
CL6-2021-FARM2FORK-01-08	Uncovering lock-ins and levers to encourage farmers to move to and stay in climate-neutral and sustainable food production systems: from experiments to systemic mechanisms	RIA	12 (3)
CL6-2021-FARM2FORK-01-04	Tackling outbreaks of plant pests	RIA (5)	14 (2)
CL6-2021-FARM2FORK-01-06	Vaccines and diagnostics for priority animal diseases	IA (6-7)	12 (2)
CL6-2021-FARM2FORK-01-10	Digital transition supporting inspection and control for sustainable fisheries	RIA (3-6)	10 (2)
CL6-2021-FARM2FORK-01-13	Microbes for healthy and sustainable food and diets	RIA (2-5)	11 (1)
CL6-2021-FARM2FORK-01-14	Transition to healthy and sustainable dietary behaviour	RIA (3-5)	11 (1)
CL6-2021-FARM2FORK-01-12	Evidence-based decision-making to change social norms towards zero food waste	RIA (4-5)	12 (2)
CL6-2021-FARM2FORK-01-17	One health approach for Food Nutrition Security and Sustainable Agriculture (FNSSA)	RIA	18 (3)



Circular Economy and Bioeconomy Sectors

Destination 3: Circular Economy and the Bioeconomy - Sectors

Theme	Key innovations in scope	Number of topics, yr	Indicative funding in 2021/22
Enabling a circular economy (CE) transition	<ul style="list-style-type: none"> [Part of demonstration projects for CCRI] Implement & demonstrate CE and bioeconomy solutions Circular governance models (plastics, electronics) Social and environmental benefits & challenges Regulatory issues and policy recommendations to improve CE 	4, 2021 2, 2022	€101MN
Innovating sustainable bio-based systems and the bioeconomy	<ul style="list-style-type: none"> Novel, non-plant biomass feedstocks (microorganisms, insects, fungi, algae, microbiome) for industrial applications Techno-economic, value chain viability & LCA of bio-based production platforms Industry and SME participation is requisite 	4, 2021 8, 2022	€111MN
Safeguarding the multiple functions of European forests	<ul style="list-style-type: none"> Establishing regional platforms providing innovation & support to multi-actor partnerships (farmers, foresters, business, NGO, etc) Biomass, waste and residue stream processing 	0, 2021 2, 2022	€19MN
Innovating for blue economy and biotechnology value chains	<ul style="list-style-type: none"> [Part of Green Deal's 'Blue Economy' initiative & ambition] Concepts for sustainable cultivation & processing of algae into CE products (medical, cosmetics, F&S chemicals, fuels, remediation, ...) 	1, 2021 1, 2022	€36MN

- 4 sector themes, 22 topics [~12% total Cluster 6 topic share], €267MN budget [~14% total Cluster 6 budget]
- Caveat: Based on the **draft Cluster 6 Work Programme 2021-2022** and is therefore subject to change until the Work Programme is finalised [date TBC].

Destination 3: Circular Economy and the Bioeconomy - Topics

Topic Ref Number	Topic Title	Type of Action	Budget (No. of projects)	Closing Date
HORIZON-CL6-2021-CircBio-01-04:	Novel, non-plant biomass feedstocks for industrial applications	IA TRL 7	€12MN (6)	Sep 2021
HORIZON-CL6-2021-CircBio-01-05:	Contained biomass solutions for sustainable and zero-Indirect Land Use Change (ILUC) production systems for high value applications	IA TRL 7	€10MN (6)	Sep 2021
HORIZON-CL6-2021-CircBio-01-06:	Microbiomes for bio-based innovation and environmental applications	IA TRL 6, 7	€6MN (6)	Sep 2021
HORIZON-CL6-2021-CircBio-01-08:	Unlocking the potential of algae potential for a thriving European blue bioeconomy	IA TRL 7	€18MN (2)	Sep 2021
HORIZON-CL6-2022-CircBio-01-02:	Marginal lands and climate-resilient and biodiversity-friendly crops for sustainable industrial feedstocks and related value chains	IA TRL 7, 8	€14MN (2)	Sep 2022
HORIZON-CL6-2022-CircBio-01-04:	Maximizing economic, environmental and social synergies in the provision of feedstock for bio-based sectors through diversification and increased sustainability of agricultural production systems	IA TRL 7, 8	€8MN (1)	Sep 2022

- IA = Innovation Action, TRL = Technology Readiness Level
- **NOT an exhaustive list of topics for Destination 3**
- Bio-based topics & synergies in other Destinations AND/OR Pillar 2 Clusters, for example, Cluster 1 Health (Biopharma), Cluster 4 Industry (Sustainable Manufacture), Cluster 5 Energy (Carbon Capture Utilisation & Storage)



Land, oceans and water for climate action

Destination 5: Land, oceans and water for climate action

Theme	Key innovations in scope	Number of topics	Indicative funding 2021 & 2022
Land, oceans and water for climate action	<ul style="list-style-type: none"> • European Partnership Water Security for the Planet (Water4All) • Understanding, observation and monitoring of water resources • Key polar processes • International Research Consortium on (agricultural) soil carbon • Climate-smart farming networks • Resilience of food security • Agroforestry • Forestry network of climate smart restoration pilots 	15	€193M

Destination 5: Land, oceans and water for climate action 2021

Topic Ref Number	Topic Title	Type of Action	Budgets EUR million (No of projects)
CL6-2021-CLIMATE-01-01	Improved understanding, observation and monitoring of water resources availability	RIA (5)	10 (2)
CL6-2021-CLIMATE-01-02	European Partnership Water Security for the Planet (Water4All)	Co-fund	20 (126 over 7 yrs)
CL6-2021-CLIMATE-01-03	Key polar processes driving regional & global climate change	RIA (3-5)	15 (2)
CL6-2021-CLIMATE-01-04	Demonstration network on climate-smart farming – linking pilot farms	CSA	23 (1)
CL6-2021-CLIMATE-01-05	Agroecological approaches for climate change mitigation, resilient agricultural production and enhanced biodiversity	RIA	7 (1)
CL6-2021-CLIMATE-01-06	Resilient livestock farming systems under climate change	RIA	12 (1)
CL6-2021-CLIMATE-01-07	International Research Consortium on (agricultural) soil carbon	CSA	3 (1)
CL6-2021-CLIMATE-01-08	Agroforestry to meet climate, biodiversity and farming sustainability goals	RIA	8 (2)
CL6-2021-CLIMATE-01-09	Enhancing science-based knowledge on EU forests', including old-growth forests, capacities to mitigate climate change	RIA	10 (2)
CL6-2021-CLIMATE-01-10	EU-China international cooperation on increasing the resilience of forests	RIA	10 (1)

**Resilient,
inclusive healthy
and green rural,
coastal and urban
communities**

SUSTAINABLE CITIES AND COMMUNITIES



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

Theme	Key innovations in scope	Number of topics	Indicative funding 2021 & 2022
Resilient inclusive and healthy and green rural coastal and urban communities	<ul style="list-style-type: none"> • Rural proofing • Rural connectivity • Inclusive rural innovation • Coastal areas inclusive skills and engagement • Urban food systems & resilience • Health and Safety • Nature based solutions for health and wellbeing 	13	€127M

Destination 6: Resilient inclusive and healthy and green rural coastal and urban communities 2021

Topic Ref Number	Topic Title	Type of Action	Budgets (EUR million)
CL6-2021-COMMUNITIES-01-01	Grasping rural diversity and strengthening evidence for tailored policies enhancing the contribution of rural communities to ecological, digital and social transitions	RIA	15 (2)
CL6-2021-COMMUNITIES-01-02	Expertise and training centre on rural innovation	CSA	5 (1)
CL6-2021-COMMUNITIES-01-03	Smart XG, last-mile and edge solutions for remote farming, forestry and rural areas	RIA	10 (2)
CL6-2021-COMMUNITIES-01-04	Socio-economic empowerment of the users of the sea	RIA	6 (1)
CL6-2021-COMMUNITIES-01-05	Integrated urban food system policies – how cities and towns can transform food systems for co-benefits	IA	11 (1)
CL6-2021-COMMUNITIES-01-06	Inside and outside: educational innovation with nature-based solutions	CSA	5

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



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

Theme	Key innovations in scope	Number of topics	Indicative funding 2021
Innovating with governance models and supporting policy	<ul style="list-style-type: none"> • Strategic governance • Compliance • Circular and sustainable bio-economies on land and at sea 	19	€81.5 M
Deploying and adding value to Environmental Observations	<ul style="list-style-type: none"> • Earth observation • Environmental observation • Copernicus, GEOSS and other relevant initiatives 	7	€42 M
Digital and data technologies as key enablers	<ul style="list-style-type: none"> • Improving the data economy for food systems • Assessing the impacts of digital technologies in agriculture • Data sharing 	7	€18M
Strengthening agricultural knowledge and innovation systems	<ul style="list-style-type: none"> • Supporting knowledge exchange • Thematic networks, compiling and sharing knowledge ready for practice • EU advisory networks on water use 	9	€42M

Destination 7: Innovative governance environmental observations and digital solutions in support of the Green Deal 2021

Topic Ref Number	Topic Title	Type of Action	Budgets EUR million (No of projects)
CL6-2021-GOVERNANCE-01-03	Preparatory action for the Horizon Europe Food System Partnership	CSA	2.5 (1)
CL6-2021-GOVERNANCE-01-12	EU agriculture within a safe and just operating space and planetary boundaries	RIA	10 (1)
CL6-2021-GOVERNANCE-01-13	Modelling land use and land management in the context of climate change	RIA	10 (2)
CL6-2021-GOVERNANCE-01-14	User-oriented solutions building on environmental observation to monitor critical ecosystems and biodiversity loss and vulnerability in the EU	RIA	20 (5)
CL6-2021-GOVERNANCE-01-18	Mapping and improving the data economy for food systems	RIA	10 (1)
CL6-2021-GOVERNANCE-01-19	Development of the markets and use of digital technologies and infrastructure in agriculture – State of play and foresight: Digital- and Data technologies for the agricultural sector in a fast changing regulatory, trade and technical environment	RIA	4 (1)
CL6-2021-GOVERNANCE-01-21	Broaden EIP Operational Group outcomes across borders by means of Thematic networks, compiling and sharing knowledge ready for practice	CSA	4 (2)
CL6-2021-GOVERNANCE-01-23	Improving national AKIS organisation in a co-creative process across the EU	CSA	10 (1)

Topics in other Clusters

Cluster 4 Digital Industry Space

- Copernicus service evolution for: climate change; atmosphere monitoring; cross service thematic domains (Arctic/UN Sustainable Development Goals)
- EGNSS and Copernicus applications fostering the European Green deal: Increasing the EU's climate ambition for 2030 and 2050; From "Farm to Fork": a fair, healthy and environmentally friendly food system; Preserving and restoring ecosystems and biodiversity

Cluster 5 Climate Energy and Mobility

- Restoration of natural wetlands, peatlands and floodplains as a strategy for fast mitigation benefits; pathways, trade-offs and co-benefits
- The contribution of forest management to climate action: pathways, trade-offs and co-benefits
- Let nature help do the job: rewilding landscapes for carbon sequestration, climate adaptation and biodiversity support
- Improved economic methods for decision-making on climate and environmental policies

Overview of 49 candidate European Partnerships

PILLAR II - Global challenges & European industrial competitiveness

PILLAR III - Innovative Europe

CLUSTER 1: Health	CLUSTER 4: Digital, Industry & Space	CLUSTER 5: Climate, Energy & Mobility	CLUSTER 6: Food, Bioeconomy, Agriculture, ...	EIT	SUPPORT TO INNOVATION ECOSYSTEMS
Innovative Health Initiative	Key Digital Technologies	Clean Hydrogen	Circular Bio-based Europe	InnoEnergy	Innovative SMEs
Global Health Partnership	Smart Networks & Services	Clean Aviation	Rescuing Biodiversity to Safeguard Life on Earth	Climate	
Transformation of health systems	High Performance Computing	Single European Sky ATM Research 3	Climate Neutral, Sustainable & Productive Blue Economy	Digital	
Chemicals risk assessment	European Metrology (Art. 185)	Europe's Rail	Water4All	Food	
ERA for Health	AI-Data-Robotics	Connected and Automated Mobility (CCAM)	Animal Health & Welfare*	Health	
Rare diseases*	Photonics	Batteries	Accelerating Farming Systems Transitions*	Raw Materials	
One-Health Anti Microbial Resistance*	Made in Europe	Zero-emission waterborne transport	Agriculture of Data*	Manufacturing	
Personalised Medicine*	Clean steel – low-carbon steelmaking	Zero-emission road transport	Safe & Sustainable Food System*	Urban Mobility	
Pandemic Preparedness* <i>Co-funded or co-programmed</i>	Processes4Planet	Built4People		Cultural and Creative Industries	
	Global competitive space systems**	Clean Energy Transition			
		Driving Urban Transitions			

CROSS-PILLARS II AND III

European Open Science Cloud

- Institutionalised Partnerships (Art 185/7)
- Institutionalised partnerships / EIT KICs
- Co-Programmed
- Co-Funded

* Calls with opening dates in 2023-24
 ** Calls with opening dates not before 2022



Consortium Building and Support





Find a call

Application process

It starts with finding a call - speak to the NCPs

Find partners



Write and submit
a proposal



Deliver the
project



Formal 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, Technology Platforms, Co-Programmed Partnerships, Enterprise Europe Network, UK’s KTN, NCPs from around Europe, etc will virtual hold events with e.g., Meeting Mojo, B2B and other tools

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 more useful way of finding past projects and participants and allows you to contact them



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

The best ways to form winning teams

Being an *effective networker* is much more useful than submitting a profile into a portal and awaiting contacts. Don't wait to be invited to the party, push yourself forward

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

What constitutes a winning consortium?

One that can **deliver** the expected outcomes within the stated scope and budget (and give the evaluators confidence that they can)

Common to see universities, big business, small business, research and technologies organisations, consultancies, local authorities, national authorities all within the one consortium. There is no 'typical' or 'model' consortium structure/membership

Useful to include exploitation partners – someone who is going to take the outputs of the project and actually implement them (e.g. an automotive/aerospace/marine/rail/etc., industry) to show immediate impact

Useful to include the end user community, possibly as an advisory board or associate partners (not direct beneficiaries but costs e.g. travel can be included in 'other costs'), again to demonstrate route to implementation

Eligibility criteria

There are several types of eligibility, and it does get confusing:

- Eligibility to be part of a consortium/project
- Eligibility to receive funding as part of a consortium/project
- Eligibility to be one of the minimum number of participants necessary in a consortium/project



Eligibility criteria explained

Stated in the [General Annexes](#)

- **Any legal entity**, regardless of its place of establishment, including legal entities from non-associated third countries or **international organisations** (including international European research organisations) is eligible to participate (whether it is eligible for funding or not) *although exceptions may apply in specific topics so check the text*
- To be **eligible for funding**, applicants must be established in one of the eligible countries, i.e.:
 - Member States of the European Union, including their outermost regions;
 - Overseas Countries and Territories (OCTs) linked to the Member States
 - Eligible non-EU countries:
 - Countries associated to Horizon Europe
 - Low- and middle-income countries
 - Legal entities which are established in countries not listed above will be eligible for funding if provided for in the specific call conditions, or if their participation is considered essential for implementing the action by the granting authority
- **Consortium Composition:**
 - At least one independent legal entity established in a Member State; and
 - At least two other independent legal entities, each established in different Member States or Associated Countries

How to write a successful proposal

Read everything

- Strategic Plan,
 - Underpinning strategy documents,
 - Introduction to the Work Programme
 - Introduction to the Destination
 - Call text in minute detail
-
- Watch the EC Webinar [Webinar: How to prepare a successful proposal in Horizon Europe \(24 March 2021\) \(europa.eu\)](#)

The Proposal

All proposals are submitted electronically via the Topic (competition) 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 [Template](#)

Coordination and Support Action (CSA)

- Part B - Technical proposal is maximum 30 pages [Template](#)

} Usually, but check as some IA topics say 'up to 70 pages' and some RIA topics say 'up to 60 pages'

Proposal Evaluation

- Carried out by independent experts – **you and your colleagues should register** as potential evaluators. 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 of section:
 - Excellence
 - Impact
 - Quality and efficiency of the proposal
- Evaluation forms have been published:
 - [RIA/IA](#) Standard Evaluation Form
 - [CSA](#) Standard Evaluation Form
- Standard slide deck briefing for all evaluators has been [published](#) so you can see what they are instructed to do

Additional useful information

- 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 now 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
- The Knowledge Transfer Network have created a [Meeting Mojo](#) to help people find consortium partners
- European Commission [webinars](#) on How to prepare a successful proposal in Horizon Europe

National Contact Points

UK NCP network - support for each area of Horizon Europe

International NCP network – support in Member States, Associated Countries and Third Countries

NCP services vary in each country, but typically include:



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



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



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

Other support services

- [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).

Next steps

- 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 <https://cordis.europa.eu/>
- The EC webinar recording : [Webinar: How to prepare a successful proposal in Horizon Europe \(24 March 2021\) \(europa.eu\)](#)
- Horizon Europe Consortium Building Event 21st June <https://ktn-uk.org/events/horizon-europe-consortia-building-series/>

Cluster 6 EC Information Days 7th& 8th July [Information here](#)

Cluster 6 EC Brokerage Event 9th July [Register to participate here](#)

Contact details

Cluster 6 UK National Contact Points

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Please contact us with any queries

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**Any
Questions?**



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Thank you



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