

NATIONAL INFORMATION CAMPAIGN JOIN HORIZON EUROPE



Pillar 2: Global Challenges & European Industrial Competitiveness

9 March 2021



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

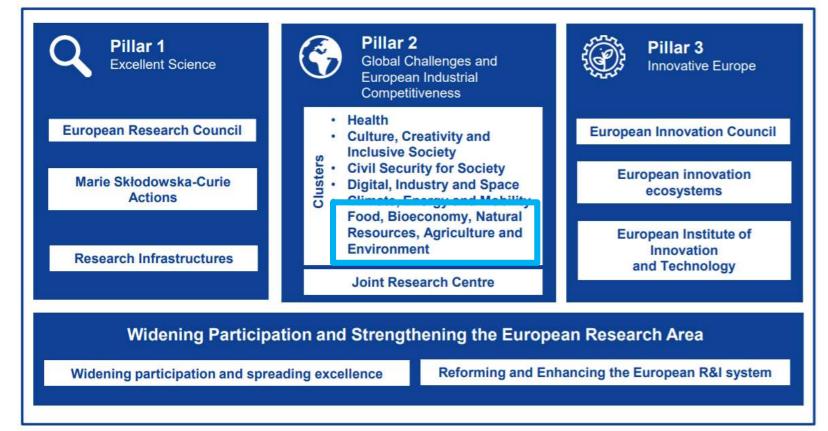
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National contact points for Food, Bioeconomy, Natural Resources, Agriculture and Environment





Name of the area





Strategic documents and initiatives

- UN's Sustainable Development Goals (SDGs) http://www.un.org/sustainabledevelopment/sustainable-development-goals/
- European Green Deal
- EU Biodiversity Strategy for 2030
- Circular economy Action Plan
- Bioeconomy Strategy
- EU Forest Strategy
- ..



Work programme

Work programme for 2021-2022

1 paradigm

- » need for a transformative change of the EU economy and society
- » aimed at reducing environmental degradation, halting and reversing the decline of biodiversity and to better manage natural resources
- » serving the EU's climate objectives and ensuring food and water security

6 impacts

- » climate neutrality
- » biodiversity aiming to recovery, ecosystems preserved
- » circular management and use of natural resources, bioeconomy
- » food and nutrition security
- » sustainable development of rural, coastal and urban areas
- » innovative governance models

7 destinations

- Separate calls for each destination (1 for 2021, 1-2 for 2022)
- Opening: 15 April 2021



Table of all topics under preparation by TC



HORIZON EUROPE

Témata "CLUSTER 6" (Food, Bioeconomy Natural Resources, Agriculture and Environment)

pro období 2021-2022

Destination 1 - Biodiversity and Ecosystem Services	Nástroj	Příspěvek EU na projekt (mil. €)	Rozpočet tématu (mil. €)	Odhad podpoř. projektů					
Výzva HORIZON-CL6-2021-BIODIV-01 pro rok 2021, uzávěrka 1.9.2021									
HORIZON-CL6-2021-BIODIV-01-01: European participation in global biodiversity genomics endeavours aimed at identifying all biodiversity on Earth	RIA	10-20	20	2					
HORIZON-CL6-2021-BIODIV-01-02: Data and technologies for the inventory, fast identification and monitoring of endangered wildlife and other species groups	RIA	3-5	10	2					
HORIZON-CL6-2021-BIODIV-01-03: Understanding and valuing coastal and marine biodiversity and ecosystems services	RIA	16	16	1					
IZON-CL6-2021-BIODIV-01-04: Assess and predict integrated impacts of cumulative direct and indirect stressors on tal and marine biodiversity, ecosystems and their services		10	10	1					
HORIZON-CL6-2021-BIODIV-01-05: The economics of nature-based solutions: cost-benefit analysis, market development and funding	RIA	5	5	1					
HORIZON-CL6-2021-BIODIV-01-06: Nature-based solutions, prevention and reduction of risks and the insurance sector	CSA	5	5	1					
HORIZON-CL6-2021-BIODIV-01-07: Ecosystems and their services for an evidence-based policy and decision-making	RIA	13	13	1					
HORIZON-CL6-2021-BIODIV-01-08: Supporting the development of a coherent and resilient Trans-European Nature Network	IA	7	10	1					
HORIZON-CL6-2021-BIODIV-01-09: Assessing and consolidating recent scientific advances on freshwater ecosystem restoration.	CSA	0,5	0,5	1					
RIZON-CL6-2021-BIODIV-01-10: Demonstration of measures and management for coastal and marine ecosystems toration and resilience in simplified socio-ecological systems		10	10	1					
HORIZON-CL6-2021-BIODIV-01-11: What else is out there? Exploring the connection between biodiversity, ecosystems services, pandemics and epidemic risk	IA	4-12	12	2					



Destination 1 - Biodiversity and Ecosystem Services

- all action should contribute to the impact = biodiversity back on path to recovery;
 ecosystems and their services preserved and sustainably restored on land, inland water
 and at sea through improved knowledge and innovation
- under HE long-term strategic research agenda for biodiversity will be developed
- for 2021
 - 1stage call
 - budget: 218,5 mil. eur; deadline: 1 September 2021
- 22 topics (13 RIA, 4, IA, 4 CSA, 1 Cofund):
 - DNA-based biodiversity identification; monitoring of endangered wildlife; impact of stressors on marine biodiversity; economics of nature-based solutions; Trans-European Nature Network; freshwater ecosystem restoration; biodiversity in primary production; crop breeding; governance and decision-making tools, ...



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

- sustainable farming systems, fisheries and aquaculture
- food systems for health, sustainability and inclusion
- for 2021
 - 1stage call
 - budget: 175 mil. eur; deadline: 1 September 2021
- 18 topics (12 RIA, 4 IA, 2 CSA):
 - organic farming and aquaculture; digitalisation in agroecological farming systems;
 plant pests; animal diseases and welfare; decision-making towards zero food waste;
 microbes for healthy food; dietary behaviour; food safety issues; EU-China pest
 management in agriculture, ...



Destination 3 - Circular economy and bioeconomy sectors

- focus on circularity aims at less waste and more value by extending the lifetime and retaining the value of products and materials
- integrated circular solutions at territorial and sectoral levels
- key bioeconomy sectors such as sustainable bio-based systems, sustainable forestry, small-scale rural bio-based solutions, and aquatic value chains
- for 2021
 - 1stage call
 - budget: 93 mil. eur; deadline: 1 September 2021
- 8 topics (6 IA, 2 CSA):
 - Circular Cities and Regions Initiative solutions and project development assistance; over-packaging and single-use plastics; non-plant biomass for industrial applications; algae potential,...



Destination 4 - Clean environment and zero pollution

- pollution must be halted and eliminated to guarantee clean and healthy soils, air, fresh and marine water
- it is crucial to advance the knowledge of pollution sources and pathways to enable preventive measures, improve monitoring and control, introduce effective remediation methods
- for 2021
 - 1stage call
 - budget: 65 mil. eur; deadline: 1 September 2021
- 10 topics (5 RIA, 1 IA, 4 CSA):
 - N and P load reduction; optimization of nutrient budget in primary production; pollution in urban waters runoff; envi performance in bio-based sectors; certification schemes for bio-based systems; impacts and trade-offs of alternative fertilising products; bioremediation for soil, sediments, water,...



Destination 5 - Land, oceans and water for climate action

- assessing the impacts of climate change on our land and marine environments, natural resources, agriculture and food systems
- identifying mitigation options and adaptation pathways
- for 2021
 - 1stage call
 - budget: 108 mil. eur; deadline: 1 September 2021
- 10 topics (7 RIA, 2 CSA, 1 Cofund):
 - water resources availability; polar processes driving climate change; network on climate-smart farming; agroecological approaches for climate change mitigation; forests including agroforestry or old-growth forests; EU-China on resilience of forests, ...



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

- better understanding of the environmental, socio-economic, behavioural, cultural and demographic drivers of change
- better preparation to achieve climate neutrality, adapt to climate change, and turn digital and ecological transitions into increased resilience
- innovative and smarter solutions
- for 2021
 - 1stage call
 - budget: 52 mil. eur; deadline: 1 September 2021
- 6 topics (3 RIA, 1 IA, 2 CSA):
 - rural diversity for tailored policies; training centre for rural innovation; smart solutions for remote farming, forestry and rural areas; urban food system policies,...



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

- activities aim at experimenting with new ways to govern the transition process and modernising the governance
- taking advantage of the use, uptake, deployment and exploitation of environmental observations
- develop innovative digital and data based solutions
- for 2021
 - 1stage call
 - budget: 183,5 mil. eur; deadline: 2 September 2021
- 25 topics (9 RIA, 2 IA, 14 CSA):
 - furthering food system science; regional governance models; education;
 environmental observations; land use; data economy, ...



Budget and instruments for 2021

Destination	Budget for 2021 (mil. €)	Number of topics for				
		IA	RIA	CSA	Cofund	
1 - Biodiversity	218,5	4	13	4	1	
2 - Food	175	4	12	2		
3 – Circular	93	6		2		
4 - Pollution	65	1	5	4		
5 - Climate	108		7	2	1	
6 - Communities	52	1	3	2		
7 - Governance	183,5	2	9	14		



Missions related to Cluster 6

- = portfolio of actions across disciplines
 - to achieve a bold and inspirational and measurable goal within a set timeframe
 - impact on society and policy making
 - relevance for the significant part of the European population
- 5 Mission areas (-> concrete missions should be achieved by 2030)
- relevant for cluster 6:
 - Soil health and food (-> 75% of soils healthy and able to provide essential ecosystem services)
 - Healthy oceans, seas, coastal and inland waters (-> restore our ocean and waters)
- specific WP for Missions; implementation in preparation







Partnerships in Cluster 6

- New architecture, simplified, more transparent
 - » Co-programmed
- » Co-funded
- » Institutionalised
- Accelerating farming systems transition
- Animal health: Fighting infectious diseases
- Environmental Observations for a sustainable EU agriculture
- Rescuing biodiversity to safeguard life on Earth (Cofund in 2021 WP)
- A climate neutral, sustainable and productive Blue Economy
- Safe and Sustainable Food System for People, Planet & Climate
- Circular bio-based Europe
- Water4All: Water security for the planet (Cofund in 2021 WP)





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