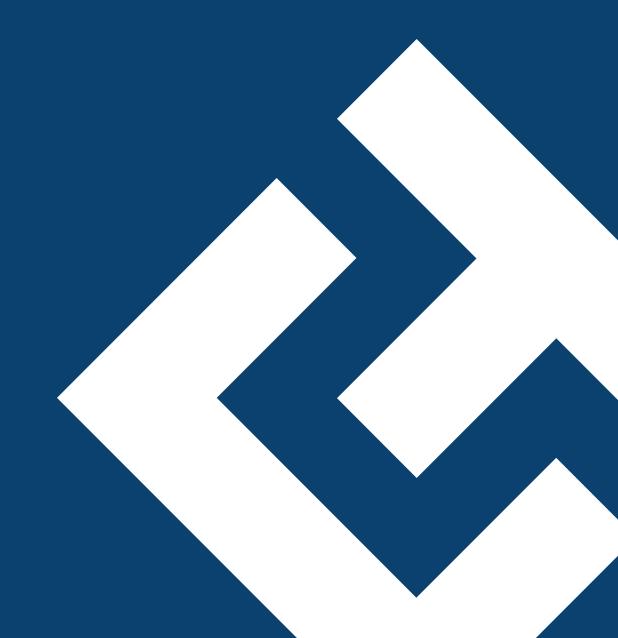


## HORIZON EUROPE CLUSTER 6 CBE JU

Jana Čejková



## **HORIZON EUROPE STRUCTURE**



#### WIDENING PARTICIPATION AND STRENGTHENING THE EUROPEAN RESEARCH AREA

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



## **CLUSTER 6 WORK PROGRAMME FOR 2023-2024**

- 7 destinations
- Separate calls for each destination
- Deadlines in February 2024
- Both one and two stage submission procedure
- Type of Instruments:
  - Research and Innovation Actions
  - Innovation Actions
  - Coordination and Support Actions
  - Cofund
- In some topics specific requirements for multi-actor approach, e.g. p. 21-23 of WP





## **CLUSTER 6 WORK PROGRAMME FOR 2024**

#### Number of topics per destination

Destination	Number of topics
1. Biodiversity and Ecosystem Services	12
2. Fair, healthy and environmentally-friendly food systems from primary production to consumption	18
3. Circular economy and bioeconomy sectors	16
4. Clean environment and zero pollution	5
5. Land, oceans and water for climate action	7
6. Resilient, inclusive, healthy and green rural, coastal and urban communities	5
7. Innovative governance, environmental observations and digital solutions in support of the Green Deal	12
Total	75

Other actions excluded



 BIODIVERSITY AND ECOSYSTEM SERVICES



### **BIODIVERSITY AND ECOSYSTEM SERVICES**

- Understand and address direct drivers of biodiversity decline
- Plan, manage and expand protected areas
- Mainstream biodiversity, ecosystem services and natural capital in the society and economy
- Develop and improve practices in agriculture, forestry, fisheries and aquaculture
- Interconnect biodiversity research and support policies and processes

- 1 and 2 stage evaluation calls
- deadline: 22 February 2024 (2 stage: 17 September 2024)
- 12 topics (8 RIA, 4 IA), examples:
- ➤ alien species; digital for nature; pollinators; macro-financial risks; reintroduction of landscape features; protection of rich forest ecosystems; organic aquaculture; sustainable management of water resources; minor crops in farming systems; ...



 FAIR, HEALTHY AND ENVIRONMENTALLY-FRIENDLY FOOD SYSTEMS FROM PRIMARY PRODUCTION TO CONSUMPTION





## FAIR, HEALTHY AND ENVIRONMENTALLY-FRIENDLY FOOD SYSTEMS FROM PRIMARY PRODUCTION TO CONSUMPTION

- Sustainable, climate neutral and biodiversity friendly farming systems
- Sustainable fisheries and aquaculture
- Sustainable, healthy and inclusive food systems

- 1 and 2 stage evaluation calls
- deadline: 22 February 2024 (2 stage: 17 September 2024)
- 18 topics (10 RIA, 7 IA, 1 CSA), examples:
- > outdoor livestock systems and wildlife management; healthy and sustainable food products; food fraud; food safety; citizens' science and food systems; alternative source of proteins; prevention and reduction of food waste; microbiome in organoleptic dietary shift; EU-Africa agroforestry management; EU-Africa fair trade food systems; organic farming; plant health; plant pests; animal nutritional requirements; minimising climate impact of fisheries / aquaculture; ...



 CIRCULAR ECONOMY AND BIOECONOMY SECTORS



## CIRCULAR ECONOMY AND BIOECONOMY SECTORS

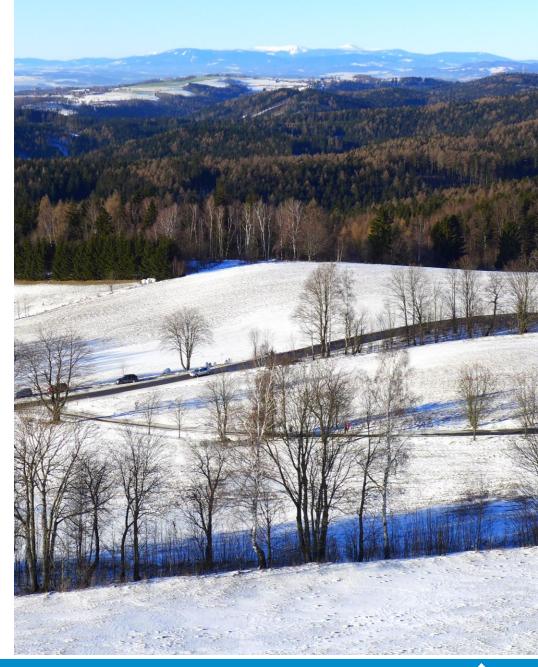


- climate-neutrality, zero pollution, fair and just circular and bioeconomy transitions
- safe, integrated circular solutions at territorial and sectoral levels
- key bioeconomy sectors such sustainable bio-based systems, forestry, small-scale rural bio-based solutions, environmental services and aquatic value chains

- 1 and 2 stage evaluation calls
- deadline: 22 February 2024 (2 stage: 17 September 2024)
- 16 topics (5 RIA, 8 IA, 3 CSA), examples:
- ➢ circular solutions for textile value chains / furniture / sustainable tourism; biodegradation capability of bio-based materials; digital systems for bio-based products; circular bioeconomy start-up villages; aquatic extremophiles for sourcing novel enzymes, drugs, metabolites and chemicals; circular solutions for plastics and electronics value chains; water and wastewater management; small-scale biobased demonstration pilots; ...



 CLEAN ENVIRONMENT AND ZERO POLLUTION





### **CLEAN ENVIRONMENT AND ZERO POLLUTION**

- Halting pollution of air, soil and water
- Improving circular bio-based systems



- 1 and 2 stage evaluation calls
- deadline: 22 February 2024 (2 stage: 17 September 2024)
- 5 topics (2 RIA, 2 IA, 2 CSA), examples:
- ➤ limiting nitrogen and phosphorus emissions at regional level; recovering or recycling fertilising products from secondary raw materials; envi impacts of food systems; monitoring of water quality in cities; zero pollution, zero-waste biorefineries



 LAND, OCEANS AND WATER FOR CLIMATE ACTION





## LAND, OCEANS AND WATER FOR CLIMATE ACTION

- adaptation and resilience of natural and managed ecosystems
- climate change mitigation in the primary sectors
- sustainable management of scarce resources

- 1 stage evaluation call
- deadline: 22 February 2024
- 7 topic (5 RIA, 2 IA), examples:
- ➤ irrigation practices and technologies in agriculture; paludiculture; land use change and local / regional climate; climate-smart use of wood in construction sector; EU-China on climate and biodiversity approaches using environmental and Earth observation...





• RESILIENT, INCLUSIVE, HEALTHY AND GREEN RURAL, COASTAL AND URBAN COMMUNITIES



## RESILIENT, INCLUSIVE, HEALTHY AND GREEN RURAL, COASTAL AND URBAN COMMUNITIES

- sustainable development of rural, coastal and urban areas
- their preparation to achieve climate-neutrality
- innovative and smarter circular solutions

- 1 and 2 stage evaluation calls
- deadline: 22 February 2024 (2 stage: 17 September 2024)
- 5 topics (3 RIA, 2 IA), examples:
- New European Bauhaus in urban food system transformation; rural life and jobs; Arctic coastal, local, and indigenous communities in environmental decision-making; business and production models for farmers and rural communities; ...



 INNOVATIVE GOVERNANCE, ENVIRONMENTAL OBSERVATIONS AND DIGITAL SOLUTIONS IN SUPPORT OF THE GREEN DEAL





# INNOVATIVE GOVERNANCE, ENVIRONMENTAL OBSERVATIONS AND DIGITAL SOLUTIONS IN SUPPORT OF THE GREEN DEAL

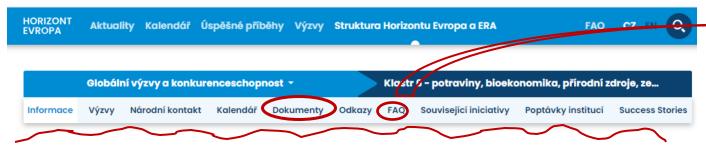
- innovative governance models enabling sustainability and resilience
- further deployment and exploitation of environmental observation data, products and "green" solutions
- strengthened Global Earth Observation System of Systems

- 1 stage evaluation call
- deadline: 28 February 2024
- 12 topics (2 RIA, 8 CSA, 1 Cofund, 1 PCP), examples:
- ➤ food systems transformation at regional level; applications to support EGD building on meteorological satellite data; potential of robotics and augmented reality in agriculture; thematic networks on organic farming and on biodiversity; EU advisory network on forestry and on sustainable livestock systems; ...



## NATIONAL PORTAL OF TC PRAGUE

#### https://www.horizontevropa.cz, Cluster 6



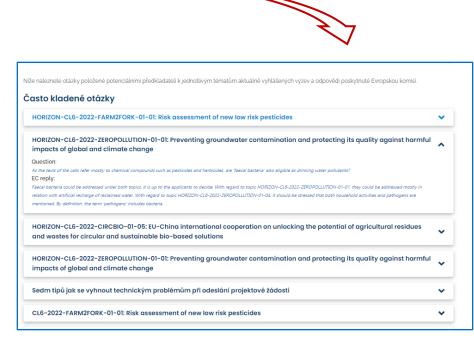
#### KLASTR 6 – POTRAVINY, BIOEKONOMIKA, PŘÍRODNÍ ZDROJE, ZEMĚDĚLSTVÍ A ŽIVOTNÍ PROSTŘEDÍ

Lidské aktivity v kombinaci se změnou klimatu vyvíjejí významný tlak na přírodní zdroje a systémy, na nichž je přímo závislá výživa rostoucí populace planety. Koncepce oběhového hospodářství, bioekonomiky a ekonomiky založené na využití potenciálu moří a oceánů (blue economics) by měla poskytnout příležitost k vyvážení ekologických, sociálních a ekonomických cílů a nasměrování k udržitelnosti.

Výzkum a inovace v tomto klastru mají přispět k urychlení dosažení cílů klíčových evropských i globálních strategií a politik. Jedná se především o cíle udržitelného rozvoje definované Organizací spojených národů, mezi kterými jsou zajištění adekvátní výživy, čisté vody, zdraví a kvality života světové populace nebo důraz na udržitelnou produkci a spotřebu. Aktivity v klastru 6 mají také přispět k dosažení klimatické neutrality do roku 2050, což je klíčovým cílem Zelené dohody pro Evropu. Další rozvoj bioekonomiky a oběhového hospodářství má plně využít potenciál biologických zdrojů pro obnovitelnou produkci, snížit závislost EU na neobnovitelných zdrojích, napomoci snížení emisí a produkce odpadů z průmyslových procesů. Ochrana a obnova ekosystémů je jedním z hlavních cílů Evropské strategie pro biodiverzity. Zamezit ztrátě biodiverzity znamená též zamezit budoucím hrozbám pro lidské zdraví.

#### Aktuality







## **TABLE OF TOPICS**



#### HORIZONT EVROPA

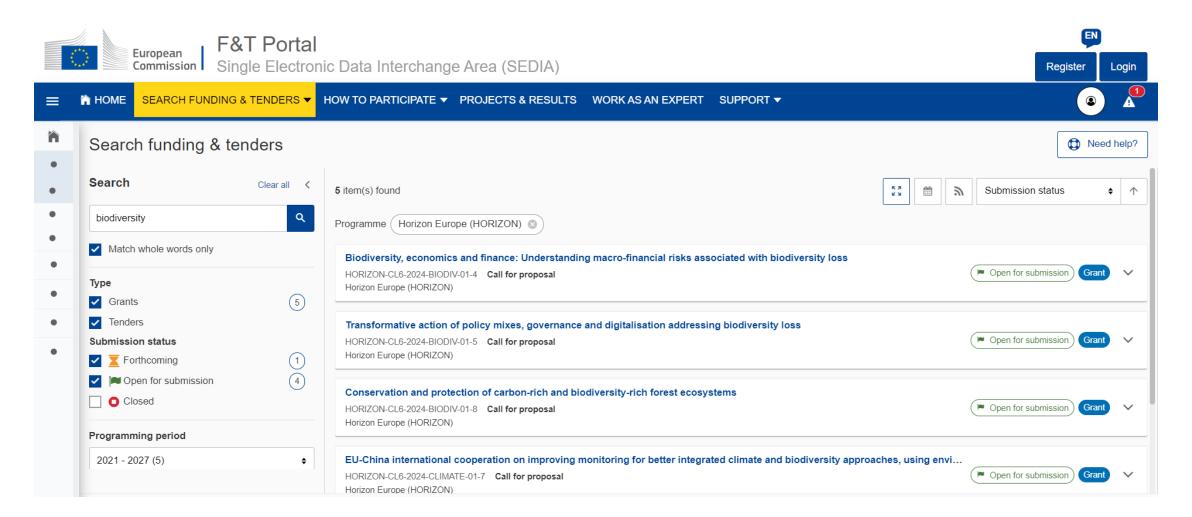
Témata "CLUSTER 6" (Food, Bioeconomy Natural Resources, Agriculture and Environment) pro období 2023-2024

Destination - Biodiversity and ecosystem services	Nástroj	Příspěvek EU na projekt (mil. €)	Rozpočet tématu (mil. €)	Odhad podpoř. projektů
Výzva HORIZON-CL6-2023-BIODIV-01 pro rok 2023, otevření 22.12.2022, uzávěrka 28.3.2023				
HORIZON-CL6-2023-BIODIV-01-1: Better understanding of routes of exposure and toxicological and ecological impacts of chemical pollution on terrestrial biodiversity	RIA	5,5	22	4
HORIZON-CL6-2023-BIODIV-01-2: Impact of light and noise pollution on biodiversity	RIA	3,5	7	2
HORIZON-CL6-2023-BIODIV-01-3: Interdisciplinary assessment of changes affecting terrestrial and freshwater ecosystems, building on observation programmes	RIA	6	6	1
HORIZON-CL6-2023-BIODIV-01-4: Nature protection: Better methods and knowledge to improve the conservation status of EU-protected species and habitats	RIA	4	8	2
HORIZON-CL6-2023-BIODIV-01-5: Understanding and reducing bycatch of protected species	RIA	9	18	1
HORIZON-CL6-2023-BIODIV-01-6: Restoration of deep-sea habitats	IA	10	10	1
HORIZON-CL6-2023-BIODIV-01-7: Demonstration of marine and coastal infrastructures as hybrid blue-grey Nature-based Solutions	IA	5	10	2
HORIZON-CL6-2023-BIODIV-01-8: Addressing biodiversity decline and promoting Nature-based Solutions in higher education Network	CSA	3	3	1
HORIZON-CL6-2023-BIODIV-01-9: Biodiversity, economics and finance: unlocking financial flows towards reversing of biodiversity loss	RIA	5	5	1
HORIZON-CL6-2023-BIODIV-01-10: Build up of knowledge on Nature Positive Economy and supporting its scale-up	RIA	5	5	1
HORIZON-CL6-2023-BIODIV-01-11: Biodiversity loss and enhancing ecosystem services in urban and peri-urban areas	RIA	5	5	1
HORIZON-CL6-2023-BIODIV-01-12: Reinforcing science policy support with IPBES and IPCC for better interconnected biodiversity and climate policies	CSA	4	4	1
HORIZON-CL6-2023-BIODIV-01-13: Crop wild relatives for sustainable agriculture	RIA	6	12	2



## **FUNDING & TENDER OPPORTUNITIES PORTAL**

https://ec.europa.eu/info/funding-tenders/opportunities/portal/screen/home





### **CBE JU**



- Institutionalised partnership, follower of BBI JU
- Launched in 2021, operates until 2031
- Similar to Horizon Europe rules, but some specific requirements
- Presentations from 2023 information day
- Annual work programmes:
  - > 18 topics in 2023, deadline in September 2023
  - > For 2024 work programme under development







## NCPs CLUSTER 6

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