



GROZD 6: HRANA, BIOGOSPODARSTVO, NARAVNI VIRI, KMETIJSTVO IN OKOLJE V OBZORJU EVROPA

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Obzorje Evropa

HORIZON EUROPE

EURATOM

SPECIFIC PROGRAMME: EUROPEAN DEFENCE FUND

Exclusive focus on defence research & development

Research actions

Development actions



Fusion

Fission

Joint Research Center

Vir: Evropska komisija

^{*} The European Institute of Innovation & Technology (EIT) is not part of the Specific Programme

GROZD 6



FOOD, BIOECONOMY, NATURAL RESOURCES, AGRICULTURE & ENVIRONMENT

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Investing in OUR FUTURE

together

STRATEŠKI DOKUMENTI GROZDA 6:

- Evropski zeleni dogovor
- Pariški sporazum o podnebnih spremembah
- Cilji trajnostnega razvoja Združenih narodov
- Strategija biotske raznovrstnosti do leta 2030
- Strategija od kmetije do vilic
- Evropski podnebni pakt
- · Ostale pobude v okviru trajnostne industrije in odpravljanja onesnaževanja

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Novosti WP2023-2024 STRATEŠKI DOKUMENTI GROZDA 6:

- Nature restoration law proposal
- EU forest strategy for 2030 (1. polovica leta 2023)
- EU soil strategy for 2030 (v letu 2023)
- EU strategy for sustainable textiles
- EU industrial emission rules
- · Rules for cleaner air and water,
- Sustainable carbon cycle

Novosti WP 2023-2024 STRATEŠKI DOKUMENTI GROZDA 6:

Krožno gospodarstvo (pomladni paket, marec 2022):

- Okvir za določitev zahtev za okoljsko primerno zasnovo za trajnostne izdelke
- Predlog posodobitve Uredbe o gradbenih proizvodih
- Pobuda za opolnomočenje potrošnikov
- Dolgoročna vizija podeželja in ciljev trajnostnega razvoja

Krožno gospodarstvo (2. paket, november 2022):

- Okvir za določitev zahtev za okoljsko primerno zasnovo za trajnostne izdelke
- Predlog posodobitve Uredbe o gradbenih proizvodih
- Pobuda za opolnomočenje potrošnikov
- Dolgoročna vizija podeželja in ciljev trajnostnega razvoja

Nova skupna EU kmetijska politika: 2023-27

Strateški načrt SKP za obdobje 2023–2027 za Slovenijo





GROZD 6 - DELOVNI PROGRAM 2023-2024

From Expected Impacts to Destinations

Strategic Plan 2021-2024

Work Programme 2023-2024

Impact 1 Climate neutrality and adaptation to climate change

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



Impact 2 Preservation and restoration of biodiversity and ecosystems

Destination 1: Biodiversity and ecosystem services



Impact 3 Sustainable and circular management of natural resources; tackling pollution; bioeconomy

- Destination 3: Circular economy and bioeconomy sectors
- Destination 4: Clean environment and zero pollution



Impact 4 Food and nutrition security for all from sustainable food systems from farm to fork

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



Impact 5 Balanced development of rural, coastal and urban areas

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



Impact 6 Innovative governance models enabling sustainability, environmental observation

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





Destination 1: BIODIV

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.

☐ Understand and address the main drivers of biodiversity loss

 Impacts of chemical pollution on terrestrial biodiversity, light and noise pollution, changes of terrestrial of freshwater ecosystems, invasive alien species

■ Protect and restore biodiversity

 Improved conservation status of EU protected habitats and species, digital for nature, reducing by-catch of protected species, restoration of deep-sea habitats, marine and coastal infrastructures as nature-based solutions (NBS)

■ Mainstream biodiversity in society and economy

 Nature-positive economy, enhancing ecosystem services in urban / peri-urban areas, reinforcing science-policy support with IPCC & IPBES, NBS in higher education, biodiversity economics and finance, societal dependence on pollinators, transformative action to address biodiversity loss, NBS for sustainable water management, NBS and NEB for resilient living spaces

■ Develop and improve practices in agriculture, forestry, fisheries and aquaculture

 Pollinator friendly farming systems, landscape features in intensive agricultural areas, carbon-rich and biodiversity-rich forest ecosystems, selective breeding programme for organic aquaculture, promoting minor crops in farming systems

Understand the biodiversity and health nexus

Interlinkages of biodiversity loss, ecosystem degradation and emerging zoonotic diseases

■ Interconnection of biodiversity research and policies

☐ Biodiversa+ (co-funded partnership)







Destination 2: FARM2FORK

Fair, healthy, safe, climate- and environment-friendly, sustainable and resilient food systems from primary production to consumption, ensuring food and nutrition security for all within planetary boundaries in the EU and globally.

Enabling sustainable farming systems

Agroecology Living Labs, Animal Health and Welfare (co-funded partnerships), improving yields in organic crop systems, R&I on
pesticides beyond Farm to Fork 2030 targets, vaccine development for African swine fever, sustainable livestock systems,
innovation in plant protection, agro-pastoral & outdoor livestock systems, non-contentious input in organic farming, organic food
innovation labs, effectiveness of EU import controls for plant health, tackling outbreaks of pests, animal nutritional requirements
& nutritional value of feed



 Artificial intelligence to fight illegal fish discards and improve fisheries control, minimising climate impacts on fisheries and aquaculture

Transforming food systems for health, sustainability and inclusion

Sustainable Food Systems (co-funded partnership), eradicate micronutrient deficiencies in the EU, new detection methods on
products derived from new genomic techniques, thematic network on food safety, culture meat & seafood, marketing solutions
against food waste, European food systems in a changing world, microbiomes fighting food waste, new healthy & sustainable
food products and processes, thematic network on food frauds, climate change and food safety, healthy and sustainable cooking,
citizen science for sustainable food systems, impact of novel foods based on alternative proteins, reducing environmental
impacts of food waste, microbiome for flavour in the dietary shift

■ Targeted international cooperation

- EU African Union cooperation, Food and Nutrition Security and Sustainable Agriculture (FNSSA)
- Food safety, agroforestry cooperation, climate-neutral and fair just trade food systems







Destination 3: CIRCBIO

Achieving sustainable and circular management and use of natural resources, as well as prevention and removal of pollution, unlocking the full potential and benefits of the circular economy and the bioeconomy, with clean secondary raw materials, ensuring competitiveness and guaranteeing healthy soil, air, fresh and marine water for all, through better understanding of planetary boundaries and wide deployment and market uptake of innovative technologies and other solutions, notably in primary production (forestry) and bio-based systems.

☐ Enabling a circular economy transition

 Circular Cities and Regions Initiative (CCRI), 100 circular model households, market uptake of circular economy water projects, circular and biobased textiles, circular solutions for textile value chains, circular solutions for furniture, sustainable tourism, circularity in plastic value chains, circularity in electronics value chains, decentralized approaches on water / wastewater management

Innovating for sustainable bio-based systems and the bioeconomy



Just transition of GHG intensive economy towards circular bioeconomy, land-based bioprospecting and production of bioactive
compounds, broadening the spectrum of robust enzymes in industrial biotechnology, bio-based solutions for humanitarian
applications, symbiosis in biobased industrial ecosystems, low-toxicity construction bio-based materials, business model for
the bioeconomy, non-plant biomass feedstock for industrial applications, programmed biodegradation of bio-based materials,
digital information systems for bio-based products, bioeconomy project development assistance, circular designed of biobased
products, circular bioeconomy start-up villages

☐ Innovating for blue bioeconomy and biotechnology value chains

 Novel culturing of aquatic organisms for blue biotechnology applications, targeting aquatic extremophiles for sourcing novel enzymes, drugs, metabolites and chemicals

■ Safeguarding and sustainably innovating the multiple functions of EU forests

 Sustainable production of wood and non-wood products & new forest-based value chains, tailor-made forest ecosystem services, multi-functionality of European forests



Destination 4: ZEROPOLLUTION

Halting and eliminating pollution to guarantee clean and healthy soils, air, fresh and marine water for all and ensure a sustainable and circular management and use of natural resources

- ☐ Halting pollution of air, soil and water
 - Innovative solutions in agriculture for water availability and quality, optimization of manure to mitigate GHG and minimize nutrients and contaminant dispersion, safe ecological and regional N/P boundaries, recover and recycle fertilizing products from secondary raw materials
- Protecting drinking water and managing urban water pollution
 - Effective monitoring of water quality in urban areas
- Addressing pollution in seas and ocean
 - Integrated assessment and monitoring of emerging pollutants, pollution in the Artic
- ☐ Increasing environmental performances and sustainability of processes and products
 - Zero-waste biorefineries, safe-and-sustainable-by-design bio-based platform chemicals and materials, improved sustainability of industrial bio-based processes, biosensors and user-friendly diagnostic tools for environmental services
- Reducing the environmental impact and pollution in food systems
 - Reduce plastic packaging pollution from the food system, environmental of food systems







Destination 5: CLIMATE

Climate action on land, including forestland, grassland, cropland and wetland, ocean and water

- Water Security for the Planet (Water4All) co-funded partnership
- Alternative water resources supply systems and technologies
- Ocean and coastal waters carbon- and biodiversity-rich ecosystems and habitats in Europe and the polar regions
- Demonstration network on climate-smart farming linking research stations
- Pilot network of climate positive organic farms
- Analysing fossil-fuel dependence in agriculture
- Sustainable production of renewable energy at farm level
- Closing the research gaps on ocean essential climate variables
- Improving irrigation practices and technologies in agriculture
- Paludiculture: socio-economic aspects & environmental aspects
- Paludiculture: large-scale demonstrations
- Land use change and local / regional climate
- Climate-smart use of wood in the construction sector to support the NEB
- Ocean models for seasonal to decadal and local to regional climate impacts and feedback
- **EU-China international cooperation** on integrated monitoring approaches for climate and biodiversity using environmental and Earth observations







Destination 6: COMMUNITIES

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

- Enhancing social inclusion in rural areas: focus on vulnerable groups and social economy
- Improving rural futures through better territorial governance and rural-urban synergies
- International benchmarking of rural and territorial policies and delivery mechanisms
- Investigating the contribution of geographical indications (GIs) to sustainable development and optimising support for newly established schemes
- Assessing urban farming impacts
- Inclusive and smart ways to communicate sustainability of food
- Unlock potential of the New European Bauhaus in urban food system transformation
- Societal perceptions and benefits of rural life and jobs: will COVID generate a long-lasting shift?
- Participation and empowerment of Arctic coastal, local, and indigenous communities in environmental decision-making
- Innovating for climate-neutral rural communities by 2050
- New sustainable business and production models for farmers and rural communities





Destination 7: GOVERNANCE

Innovative governance models enabling sustainability and resilience through use of new knowledge, digital solutions and environmental observations

☐ Innovating with governance models and supporting policies



Sustainable Blue Economy, Agriculture of Data, (co-funded partnerships), analytical capacity to support EU agri-food policies after 2027, toward CAP post 2027 – nudging farmers to leverage more sustainable practices, pan-European academic network on food system science, revitalizing rural communities with innovative bio-based business models, trust-building measures for biotechnologies, integrated assessment of land use for the bioeconomy, mobilizing BIOEAST networks for national bioeconomy action programmes, regional ecosystems to foster food system transformation, the role of mainstream and social media to foster healthy diets, support to the All-Atlantic Ocean Alliance on research and innovation

■ Deploying and adding value to Environmental Observations

Support to the EuroGeo Initiative, reducing observation gaps in land-sea interface, empowering citizens in the context of environmental compliance, dissemination and exploitation of climate observations of the World Meteorological Organization, customization of prototypes for climate adaptation and mitigation, innovative applications to support the EGD building on meteorological satellite data

☐ Digital and data technologies as key enablers

 Open source, edge and cloud solutions to strengthen capacities in agriculture, digital and data technologies for livestock tracking, digitalization in agriculture and forestry, digital technologies supporting plant health, data-driven solutions for inclusive and sustainable food systems, robotics and augmented reality in agriculture to enhance working conditions

☐ Strengthening agricultural knowledge and innovation system (AKIS)

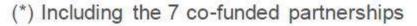
 Thematic networks (broadening EIP-AGRI) to compile/share knowledge ready for practice, advisory networks on organic agriculture, pesticide use reduction, fertilizers, organic farming thematic networks, biodiversity thematic networks, advisory networks on forestry and sustainable livestock

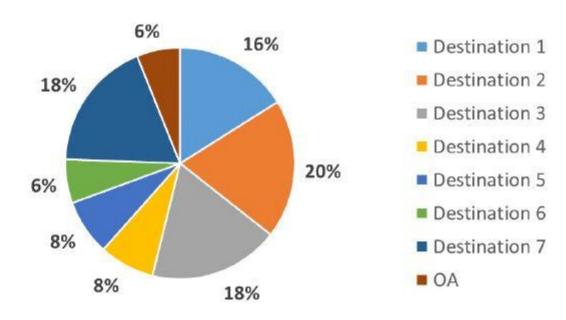
Topics per Destination





Destinations	N. topics (*)
Biodiversity and Ecosystem Services	30
Fair, healthy and environmentally-friendly food systems from primary production to consumption	38
3. Circular economy and bioeconomy sectors	33
4. Clean environment and zero pollution	14
5. Land, oceans and water for climate action	15
6. Resilient, inclusive, healthy and green rural, coastal and urban communities	11
7. Innovative governance, environmental observations and digital solutions in support of the Green Deal	35
Other Actions	10
Grand Total	186





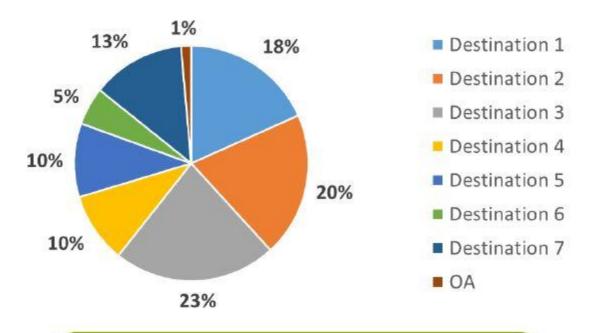
176 topics + 10 other actions non subject to call for proposals
BIODIV, FARM2FORK and
GOVERNANCE gathering the most topics

Budget per Destination





Destinations	Budget (*) [mln EUR]
Biodiversity and Ecosystem Services	266
Fair, healthy and environmentally-friendly food systems from primary production to consumption	288
3. Circular economy and bioeconomy sectors	327
4. Clean environment and zero pollution	141
5. Land, oceans and water for climate action	147
Resilient, inclusive, healthy and green rural, coastal and urban communities	76
7. Innovative governance, environmental observations and digital solutions in support of the Green Deal	187
Other Actions	20
Grand Total	1.451



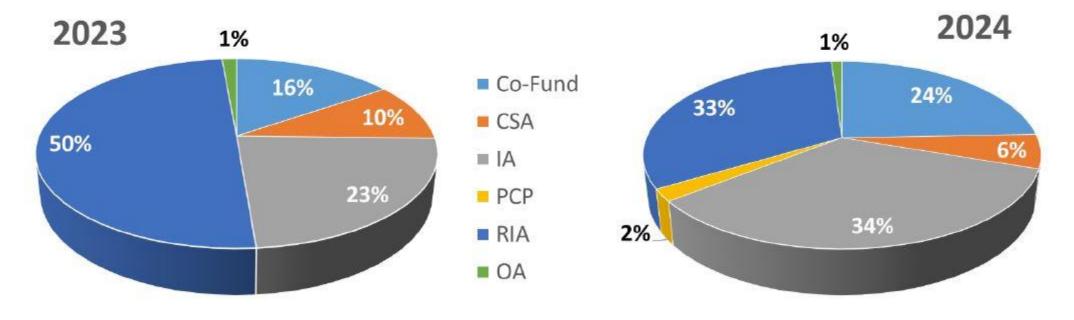
BIODIV, FARM2FORK, CIRCBIO bigger Destinations, followed by GOVERANCE Overall balanced allocation of budget, reflecting the number of topics

(*): Excluding the 7 Co-funded partnerships

Budget per Year and Type of Action







		2023		2024		Total
Co-Fund	€	140,5	€	220,5	€	361,0
CSA	€	90,5	€	53,0	€	143,5
IA	€	212,0	€	308,0	€	520,0
PCP			€	19,0	€	19,0
RIA	€	454,0	€	294,0	€	748,0
OA	€	12,7	€	9,4	€	22,1
Total	€	909,7	€	903,9	€	1.813,6

Budgetary balance between the two years
RIAs have the lion share in 2023
IAs are the relative majority in 2024

Opening date & deadlines of 2023 calls



WP adoption: 6 December 2022 / publication date: 7 December 2022 / calls opening date: 22

December 2022

Deadlines	Call(s)
23 March 2023	GOVERNANCE-01
28 March 2023	BIODIV-01, CIRCBIO-01, CIRCBIO-02 (1st stage), ZEROPOLLUTION-01 and ZEROPOLLUTION-02 (1st stage)
12 April 2023	FARM2FORK-01, CLIMATE-01 and COMMUNITIES-01
26 September 2023	CIRCBIO-02 (2 nd stage) and ZEROPOLLUTION-02 (2 nd stage)



Opening date & deadlines of 2024 calls



17 October 2023 will be the opening date of all calls

Deadlines	Call(s)
21 February 2024	ZEROPOLLUTION-02 (1st stage)
22 February 2024	BIODIV-01, BIODIV-02 (1st stage), FARM2FORK-01, FARM2FORK-02 (1st stage), CIRCBIO-01, CIRCBIO-02 (1st stage), ZEROPOLLUTION-01, CLIMATE-01, COMMUNITIES-01 and COMMUNITIES-02 (1st stage)
28 February 2024	GOVERNANCE-01
17 September 2024	BIODIV-02 (2 nd stage), FARM2FORK-02 (2 nd stage), CIRCBIO-02 (2 nd stage), ZEROPOLLUTION-02 (2 nd stage) and COMMUNITIES-02 (2 nd stage)



Single stage calls

Distribution in the WP 2023-2024

HORIZON-CL6-2023-BIODIV-01 (18 topics)

HORIZON-CL6-2023-FARM2FORK-01 (20 topics)

HORIZON-CL6-2023-CIRCBIO-01 (14 topics)

HORIZON-CL6-2023-ZEROPOLLUTION-01 (7 topics)

HORIZON-CL6-2023-CLIMATE-01 (8 topics)

HORIZON-CL6-2023-COMMUNITIES-01 (6 topics)

HORIZON-CL6-2023-GOVERNANCE-01 (22 topics)

HORIZON-CL6-2024-BIODIV-01 (9 topics)

HORIZON-CL6-2024-FARM2FORK-01 (11 topics)

HORIZON-CL6-2024-CIRCBIO-01 (10 topics)

HORIZON-CL6-2024-ZEROPOLLUTION-01 (3 topics)

HORIZON-CL6-2024-CLIMATE-01 (7 topics)

HORIZON-CL6-2024-COMMUNITIES-01 (3 topics)

HORIZON-CL6-2023-GOVERNANCE-01 (13 topics)



- 14 calls (7 in 2023, 7 in 2024)
- **151 topics** (95 in 2023, 56 in 2024)
- Less singles stage topics in 2024 matched by an increase of two stage in that year





Two-stage calls



Distribution in the CL6 WP 23-24

HORIZON-CL6-2023-CIRCBIO-02 (3 topics)

HORIZON-CL6-2024-BIODIV-02 (3 topics)

HORIZON-CL6-2024-FARM2FORK-02 (7 topics)

HORIZON-CL6-2024-CIRCBIO-02 (6 topics)

HORIZON-CL6-2023-ZEROPOLLUTION-02 (2 topics)

HORIZON-CL6-2024-ZEROPOLLUTION-02-1 (2 topics)

HORIZON-CL6-2024-COMMUNITIES-02 (2 topics)

- 7 calls (2 in 2023, 5 in 2024);
- 25 topics (5 in 2023, 20 in 2024);
- Compared to WP 21-22 (with 16 topics) 56% increase of two-stages



Blind evaluation: Anonymised proposals will be evaluated during the first stage based on the award criteria (excellence; impact; quality and efficiency of the implementation)



Co-funded partnerships in Cluster 6



Destination 1 – Biodiversity and ecosystem services

Biodiversa+

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

Agroecology

Animal Health and Welfare

Sustainable Food Systems Destination 5 – Land, ocean and water for climate action

Water 4 All

Destination 7 – Innovative governance, environmental observations & digital solutions for the Green Deal

Agriculture of Data

Sustainable Blue Economy

Biodiversa+, Water4All, SBEP → launched in WP 2021-2022

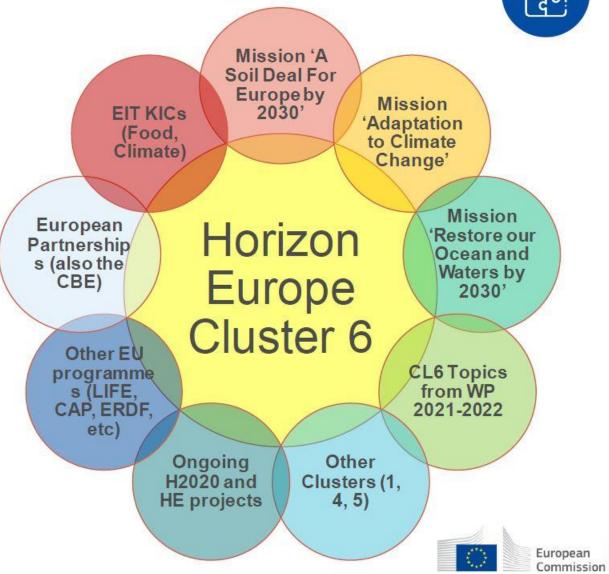
Agroecology, PAHW, Sustainable Food Systems & Agri of Data

Fostering synergies in Cluster 6

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- Approach of the Commission: 'synergies by design'
- In CL6 we pursue it in all phases of WP cocreation
- Annex IV Horizon Europe Regulation:
 - Requires seeking synergies with other EU programmes & funding instruments (e.g., LIFE, CAP, ERDF, EMFAF, Erasmus+, ESF, Innovation Fund, Just Transition Fund, Digital Europe etc.)

Factsheet on 'Boosting innovation through synergies with Horizon Europe' http://bitly.ws/x3Sf









KORISTNE POVEZAVE

- MVZI in Obzorje Evropa: www.obzorje-evropa.si
- Portal za sodelujoče v Obzorju Evropa (Funding & Tenders Portal):
 https://ec.europa.eu/info/funding-tenders/opportunities/portal/screen/programmes/horizon
- Vprašanja? Research Enquiry Service: http://ec.europa.eu/research/enquiries
- Cluster 6 e-kontakt: <u>EC-HE-NCP-CLUSTER-6@ec.europa.eu</u>
- EMDESK Academy: https://www.emdesk.com/academy







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Mrežo NKO tvorimo predstavniki









