

PERIN Portugal in Europe Research and Innovation Network

SESSÃO NACIONAL CLUSTER 6

Pontos-chave e desafios dos concursos 2023-2024 do Cluster 6



Online, 05/12/2022

Horizon Europe Work programme Cluster 6 2023-2024 (draft)

Pre-publication: 28 November 2022

Expected adoption: 6 December 2022

Expected publication: 7 December
2022

Opening of 2023: as early as possible
after adoption & publication



#HorizonEU

INFO DAYS

CLUSTER 6
**FOOD, BIOECONOMY, NATURAL
RESOURCES, AGRICULTURE
& ENVIRONMENT**
13-14 December 2022

BROKERAGE
19 December 2022

The poster features a light blue to green gradient background. At the top, there is an illustration of a person skydiving. Below that, the text is centered. At the bottom, there is an illustration of a fishing boat with people on board, and a reflection of the boat and people in the water below.



Horizon Europe - Work Programme 2023-2024
Food, Bioeconomy, Natural Resources, Agriculture and Environment

EN

Annex 9

Horizon Europe

Work Programme 2023-2024

9. Food, Bioeconomy, Natural Resources, Agriculture and Environment

IMPORTANT NOTICE

This draft has not been adopted or endorsed by the European Commission. Any views expressed are the views of the Commission services and may not in any circumstances be regarded as stating an official position of the Commission.

This draft is made public before the adoption of the work programme to provide potential participants with the currently expected main lines of this work programme. Only the adopted work programme will have legal value.

The adoption of the work programme will be announced on the Horizon Europe website and on the Funding and Tenders Portal.

Information and topic descriptions indicated in this draft may not appear in the final work programme; and likewise, new elements may be introduced at a later stage. Any information disclosed by any other party shall not be construed as having been endorsed by or affiliated to the Commission.

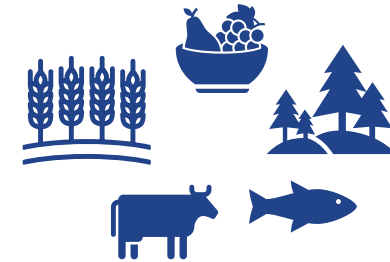
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Cluster 6

Food, Bioeconomy, Natural Resources, Agriculture and Environment

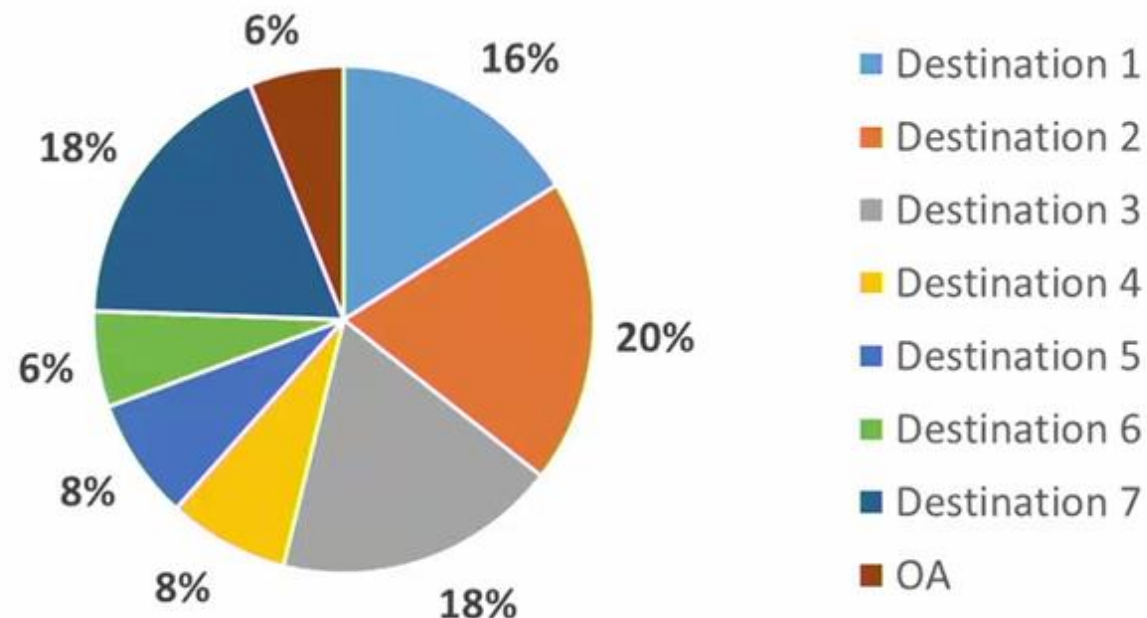


- **Impact-driven: read introduction to Work Programme and to each destination**
- **Find the topic you want to apply for** (may search by key-word all WP): read very carefully and understand terminology

Topics per Destination

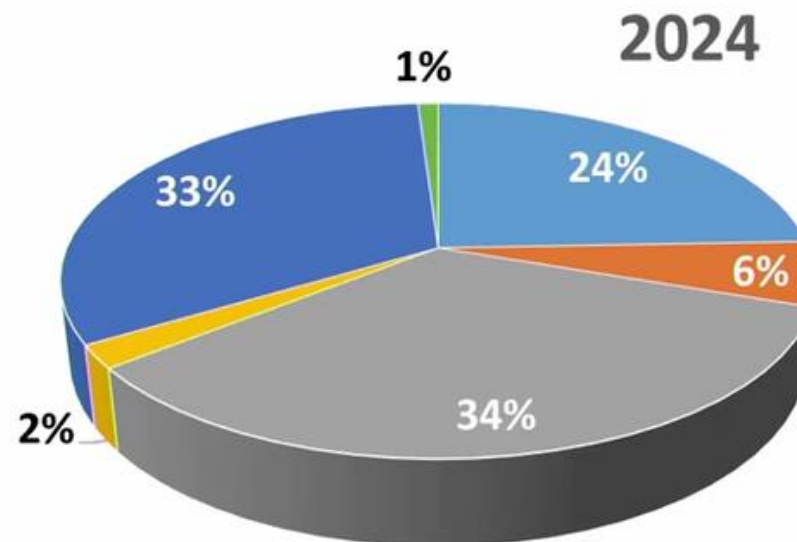
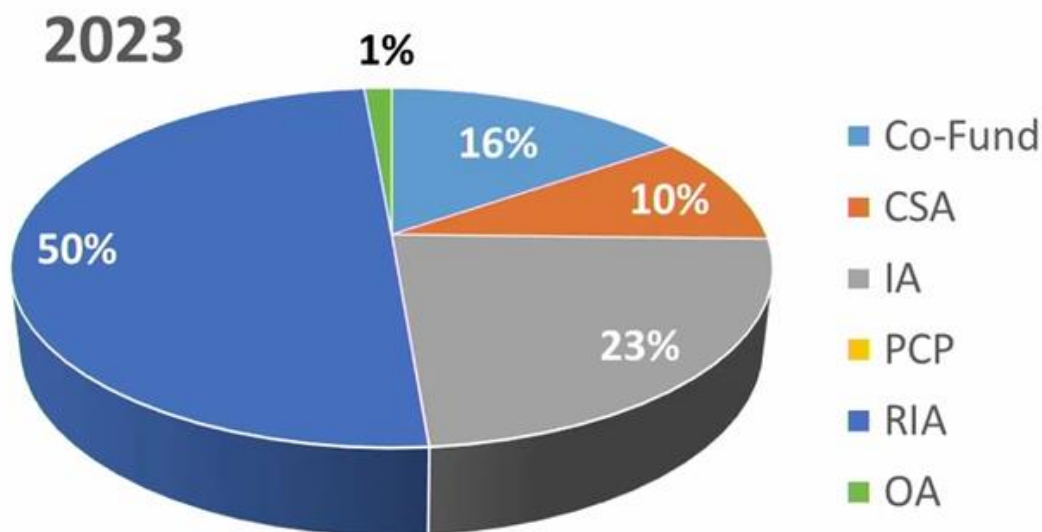
Destinations	N. topics (*)
1. Biodiversity and Ecosystem Services	30
2. Fair, healthy and environmentally-friendly food systems from primary production to consumption	38
3. Circular economy and bioeconomy sectors	33
4. Clean environment and zero pollution	14
5. Land, oceans and water for climate action	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

(*) Including the 7 co-funded partnerships



- Destination 1
- Destination 2
- Destination 3
- Destination 4
- Destination 5
- Destination 6
- Destination 7
- OA

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

Main Types of Actions and funding rates

Action	Funding*	Technology Readiness Level (TRL)	Main Characteristics
RIA – Research & Innovation Action	100% + 25%	Low TRL (4-6)	Basic and applied research , technology development and integration, testing and validation on small-scale prototype in laboratory or simulated environment
IA – Innovation Action*	70% + 25%	High TRL (6-8)	Prototyping , testing, demonstrating, piloting, large-scale product validation and market replication
CSA - Coordination & Support Action	100% + 25%		Networking , coordination or support services , policy dialogues and mutual learning exercises and studies

*always 100% for non-profit
25% for indirect costs

Opening date & deadlines of 2023 calls

Opening date as early as possible after the expected WP adoption (6 December 2022) / publication date (7 December 2022)

Deadlines	Call(s)
23 March 2023	GOVERNANCE-01
28 March 2023	BIODIV-01, CIRCBIO-01, CIRCBIO-02 (1 st stage), ZEROPOLLUTION-01 and ZEROPOLLUTION-02 (1 st 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 (1 st stage)
22 February 2024	BIODIV-01, BIODIV-02 (1 st stage), FARM2FORK-01, FARM2FORK-02 (1 st stage), CIRCBIO-01, CIRCBIO-02 (1 st stage), ZEROPOLLUTION-01, CLIMATE-01, COMMUNITIES-01 and COMMUNITIES-02 (1 st 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)

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
for all two-stage calls***

Key facts

- It will be launched in the WP 2023-24
- **All two-stage calls** in 2023 and 2024 should take part in the pilot (except justified cases)
- It will only concern the **first stage application** of two-stage calls
- **NEW** **admissibility criterion**: Applicants submitting a proposal under the blind evaluation pilot must not disclose their **organisation names, acronyms, logos nor names of personnel** in Part B of their first-stage application.



No identification data can be mentioned by applicants in the proposal's **Part B**, otherwise **inadmissible proposal**

Blind evaluation for all two-stage calls

Process

The concept of Blind evaluation requires that experts in the SEP evaluation session do not know the consortium structure and the applicant(s) involved. To accomplish this, the following safeguards are in place:

Part A

- **Will not be transmitted to evaluators.**

Part B

- If proposals **include any identification** of the applicant in Part B, the proposal will be declared **inadmissible** and will be **rejected**.

Reading and understanding the topics

- **Specific conditions:** (table)

- Expected EU contribution per project (M€)
- Indicative budget (budget line, M€)
- Type of Action: RIA/IA/CSA/Other
- Technology Readiness Level (TRL)
- Eligibility conditions

HORIZON-CL6-2023-BIODIV-01-16: Valorisation of ecosystem services provided by legume crops

Specific conditions	
<i>Expected EU contribution per project</i>	The Commission estimates that an EU contribution of around <u>EUR 5.00 million</u> would allow these outcomes to be addressed appropriately. Nonetheless, this does not preclude submission and selection of a proposal requesting different amounts.
<i>Indicative budget</i>	The total indicative budget for the topic is <u>EUR 10.00 million</u> .
<i>Type of Action</i>	<u>Research and Innovation Actions</u>
<i>Eligibility conditions</i>	The conditions are described in General Annex B. The following exceptions apply: The following additional eligibility criteria apply: the proposals must apply the <u>multi-actor approach</u> . See definition of the multi-actor approach in the introduction to this work programme part.

Multi-actor approach



Eligibility condition in 84 topics

Definition UPDATED

p21-p23 WP

“(...) meet all requirements” in definition

“(...) end-users involved in all parts of the project”

“(...) composition of the consortium reflects a balanced choice of relevant key actors who have complementary types of knowledge (scientific, practical, etc.), and must ensure that project results which should be ready for practice are broadly implemented”

HORIZON-CL6-2023-BIODIV-01-15: Integrative forest management for multiple ecosystem services and enhanced biodiversity

- Specific conditions: (table)

- Expected EU contribution per project (M€)
- Indicative budget (budget line, M€)
- Type of Action: RIA/IA/CSA/Other
- Technology Readiness Level (TRL)
- Eligibility conditions
- Legal and financial set-up of the Grant Agreements

Specific conditions	
<i>Expected EU contribution per project</i>	The Commission estimates that an EU contribution of around EUR 7.00 million would allow these outcomes to be addressed appropriately. Nonetheless, this does not preclude submission and selection of a proposal requesting different amounts.
<i>Indicative budget</i>	The total indicative budget for the topic is EUR 7.00 million.
<i>Type of Action</i>	Coordination and Support Actions
<i>Eligibility conditions</i>	<p>The conditions are described in General Annex B. The following exceptions apply:</p> <p>Legal entities established in non-associated third countries may exceptionally participate in this Coordination and support action in a capacity other than as an associated partner.</p> <p>The following additional eligibility criteria apply: the proposals must apply the multi-actor approach. See definition of the multi-actor approach in the introduction to this work programme part.</p> <p>The Joint Research Centre (JRC) may participate as member of the consortium selected for funding.</p>
<i>Legal and financial set-up of the Grant Agreements</i>	<p>The rules are described in General Annex G. The following exceptions apply:</p> <p>Eligible costs will take the form of a lump sum as defined in the Decision of 7 July 2021 authorising the use of lump sum contributions under the Horizon Europe Programme – the Framework Programme for Research and Innovation (2021-2027) – and in actions under the Research and Training Programme of the European Atomic Energy Community (2021-2025).</p>



Writing a lump sum proposal

- To write a lump sum proposal, applicants:
 - Use the standard Horizon Europe application form
 - Present the objectives and methodology of their project and address the expected outcomes and impacts as in any Horizon Europe proposal
 - Describe in detail the activities covered by each work package.
- To define and justify the lump sum, applicants must provide a **detailed budget table** with cost estimations.
- The cost estimations must be an **approximation of their actual costs**. They:
 - are subject to the same eligibility rules as in actual costs grants
 - must be in line with applicants' normal practices
 - must be reasonable / non-excessive
 - must be in line with and necessary for the proposed activities.
- The cost estimations are used to generate in the detailed budget table a **breakdown of lump sum shares** per work package and per participant.

Lump sum topics



- 56 topics requiring lump sum as a specific call condition
- ≈ 32% of total WP topics



Destination	N. topics
D1	4
D2	11
D3	10
D4	2
D5	6
D6	4
D7	19

Resources available

One dedicated [lump sum page](#) on the Funding & Tenders Portal with:

Guidance documents	<ul style="list-style-type: none"> • What do I need to know? & Quick guide • Frequently asked questions • Detailed guidance for applicants and beneficiaries • Lump sum briefing slides for experts
Reference documents	<ul style="list-style-type: none"> • Model Grant Agreement Lump Sum • Decision authorising the use of lump sum contributions under the Horizon Europe Programme
Studies	<ul style="list-style-type: none"> • European Commission assessment (October 2021) • European Parliament (STOA) study on lump sums in Horizon 2020 (May 2022)
Events	<ul style="list-style-type: none"> • Future events • Past events and recordings
Funding opportunities	<ul style="list-style-type: none"> • List of Horizon Europe topics using lump sum funding



Reading and understanding the topics

TOPIC DESCRIPTION:

- **Specific conditions:** (table)
- **Expected outcome:** consequential effects of project's outputs, such as uptake, use, and/or deployment of HEU project's outputs by direct target groups
- **Scope:** sets the context, delineates the problem and specifies the focus
- **Other instructions** (topic specific)

HORIZON-CL6-2023-BIODIV-01-16: Valorisation of ecosystem services provided by legume crops

Expected Outcome: In line with the European Green Deal priorities, the farm to fork strategy, the EU biodiversity strategy for 2030 and the EU zero pollution ambition, the successful proposal will promote sustainable, productive, climate-neutral, environment-friendly and resilient farming systems, which would provide consumers with affordable, safe, traceable, healthy and sustainable food while increasing the provision of ecosystem services.

The farm to fork strategy states that '[a] key area of research will relate to (...) increasing the availability and source of alternative proteins such as plant, microbial, marine and insect-based proteins and meat substitutes'. The ambitious targets in the farm to fork strategy on the reduction of fertilizer use by at least 20% by 2030 and on reaching at least 25% of EU agricultural land under organic farming by 2030 will also create a favourable environment for the development of EU-grown protein plants which naturally enrich the soil reducing the need for synthetic fertilisers. Most recently, the Versailles declaration⁹¹ also highlighted the importance of increasing EU plant-based proteins as a means of reducing the EU's dependency on key imported agricultural products and inputs and improving food security.

The new common agricultural policy (CAP) put into practice eco-schemes that can provide support for longer rotation cycles with environmentally beneficial crops such as leguminous crops. Other instruments that benefit protein crops under the new CAP are sectoral interventions, investment subsidies under rural development programmes and coupled income supports.

Activities will also support the implementation of the action plan for the development of organic production.

Proposals results are expected to contribute to all of the following expected outcomes:

- Improved quantification, in environmental and economic terms, of the ecosystem services provided by legume crops, including those related to soil biodiversity and fertility.
- Increased knowledge and capacity of farmers and agricultural advisers to include minor and major legume crops in their cropping schemes with a positive ecological and economic impact.
- Diversified farming practices throughout the EU and Associated Countries, where legume crops contribute to healthier and sustainable diets, resilience to climate change and increase of agrobiodiversity.

Scope: The European Union and Associated Countries' arable agricultural systems are often characterised by short rotations or monocultures, leading to problems such as higher pest pressure, soil erosion, loss of soil fertility or loss of biodiversity. As a result, there is an imperative need to reveal the full potential of diversification of cropping systems, with the aim of improving productivity, and supporting the development of resource-efficient and sustainable value chains. Protein-rich plants, and in particular legumes, play a key role in cross-cutting issues related to crop rotation, sustainable soil management and closing nutrient cycles. They have the potential to enable the environmental sustainability, productivity, climate neutrality and resilience of farming systems, by increasing the provision of ecosystem services while restoring and enhancing biodiversity and generating fair economic returns for farmers.

The environmental, nutritional and economic benefits that leguminous crops bring to all players of the value chain, provide an opportunity for further developing the leguminous crop sector in the EU and Associated Countries. This could eventually contribute to reducing the EU's dependency on imports of nitrogen fertilisers and protein crops for feed, while support meeting the objectives of farm to fork strategy.

While the direct benefits of legume crops as food and feed are usually recognized, their environmental and economic benefits derived from the increase of the provision of the ecosystem services they provide, are less understood and not valorised. The focus of this proposal is on the economic and environmental benefits of the production of legume crops, regardless their cultivation purpose is for food or for feed uses.

Proposals should:

- Increase knowledge on the different and complementary benefits from the use of legume crops (both annual and perennials) in the provision of ecosystem and environmental services, such as the value of the nitrogen transfer to succeeding or companion crops (including in grassland systems), the efficiency of different legume varieties to fix nitrogen in the soil in function of specific conditions (e.g., soil type, established rhizobia consortia), the role of legume crops for wind protection, water runoff or other erosion control strategies.
- Explore new synergies between combinations of legume crops and other crops that can benefit from nitrogen fixation, in systems like crop rotations, intercropping, mixed cropping, cover cropping or agroforestry.
- Evaluate the global competitiveness of legume crops cultivation in different contexts of the EU and Associated Countries (considering relevant economic, social or environmental aspects) through a cost-benefit analyses and life-cycle environmental assessment, versus imports from third countries.
- Develop tools or methods that allow to measure and quantify in economic terms the value of the nitrogen transfer between various crops, for different crop combinations, in relation to environmental aspects such as the reduction of use of nitrogen fertiliser,

carbon emissions, pollution, nitrogen losses, reduced GHG emissions, pest/weed/disease management and increased crop and microbial diversity.

- Identify and remove the barriers to crop diversification or to crop rotation. Provide indicators so that farmers and advisors are better equipped to evaluate the benefits of growing legumes, including for weed management, as well as recommendations to strengthen crop diversification and longer rotation cycles with environmentally beneficial crops.
- Promote the engagement of downstream actors in new value chains based on crop diversification. This should facilitate the market penetration of leguminous crops, linked to market outlets and consumers demand and influence the transition towards more sustainable and healthy food and feed systems.
- Include minor or underutilised legume crops (mostly perennial but also annual varieties) that are not the frequent objects of research activities. Consider their potential for enhancing the ecosystem and economic services not only due to their key role in sustainable soil management and closing nutrient cycles (likewise major legume crops) but also due to their adaptation to agroecological niches/marginal area and capability to withstand abiotic and abiotic stress and climate change.
- Generate capacity building material, organize trainings or knowledge sharing activities, including the development of guidelines (e.g. booklets, decision-support tools) to foment the dissemination, uptake and upscale of results.

Proposals should include a dedicated task, appropriate resources and a plan on how they will collaborate with other projects funded under this or other topics (i.e. but not limited to projects funded under topic HORIZON-CL6-2021-FARM2FORK-01-02 and HORIZON-CL6-2022-BIODIV-02-02-two-stage), and ensure synergy with relevant activities carried out under other initiatives in Horizon Europe such as the upcoming partnership on agroecology⁹² and the Mission "A Soil Deal for Europe"⁹³. Proposals should also seek potential synergies with and capitalise on the results of past or ongoing projects both in the EU and beyond (e.g., Horizon 2020 projects LegValue⁹⁴ and TRUE⁹⁵, the thematic network 'Legumes Translated'⁹⁶ or SusCrop ERA-NET project⁹⁷).

Each word counts from beginning to end!

Proposals should benefit both the conventional and the organic farming sectors.

In order to achieve the expected outcomes, international cooperation is encouraged. This topic should involve the effective contribution of social sciences and humanities (SSH) disciplines.

In this topic the integration of the gender dimension (sex and gender analysis) in research and innovation content is not a mandatory requirement.

HORIZON-CL6-2023-BIODIV-01-15: Integrative forest management for multiple ecosystem services and enhanced biodiversity

Specific conditions	
<i>Expected EU contribution per project</i>	The Commission estimates that an EU contribution of around EUR 7.00 million would allow these outcomes to be addressed appropriately. Nonetheless, this does not preclude submission and selection of a proposal requesting different amounts.
<i>Indicative budget</i>	The total indicative budget for the topic is EUR 7.00 million.
<i>Type of Action</i>	Coordination and Support Actions
<i>Eligibility conditions</i>	<p>The conditions are described in General Annex B. The following exceptions apply:</p> <p>Legal entities established in non-associated third countries may exceptionally participate in this Coordination and support action in a capacity other than as an associated partner.</p> <p>The following additional eligibility criteria apply: the proposals must apply the multi-actor approach. See definition of the multi-actor approach in the introduction to this work programme part.</p> <p>The Joint Research Centre (JRC) may participate as member of the consortium selected for funding.</p>
<i>Legal and financial set-up of the Grant Agreements</i>	<p>The rules are described in General Annex G. The following exceptions apply:</p> <p>Eligible costs will take the form of a lump sum as defined in the Decision of 7 July 2021 authorising the use of lump sum contributions under the Horizon Europe Programme – the Framework Programme for Research and Innovation (2021-2027) – and in actions under the Research and Training Programme of the European Atomic Energy Community (2021-2025).</p>

International cooperation is always welcomed in HE, but eligibility of countries for funding varies a lot: see text topic

Associated countries apply in the same conditions as member states

- 16 Countries associated to HE: Albania, Armenia, Bosnia and Herzegovina, Faroe Islands, Georgia, Iceland, Israel, Kosovo, Moldova, Montenegro, North Macedonia, Norway, Serbia, Tunisia, Turkey, Ukraine
- “In the process of Association”: Morocco, UK

Co-funding mechanisms

- E.g. Canada, Monaco, China, Switzerland...



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

Enabling sustainable fisheries and aquaculture

- 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



▲ HORIZON-CL6-2023-FARM2FORK-01-17: EU-African Union cooperation – linking the activities of the Food and Nutrition Security and Sustainable Agriculture (FNSSA) partnership and those of the Pan-African Network for Economic Analysis of Policies (PANAP)



Specific conditions	
<i>Expected EU contribution per project</i>	The Commission estimates that an EU contribution of around EUR 4.00 million would allow these outcomes to be addressed appropriately. Nonetheless, this does not preclude submission and selection of a proposal requesting different amounts.
<i>Indicative budget</i>	The total indicative budget for the topic is EUR 4.00 million.
<i>Type of Action</i>	Coordination and Support Actions
<i>Eligibility conditions</i>	<p>The conditions are described in General Annex B. The following exceptions apply:</p> <p>If eligible for funding, legal entities established in all African Union Member States* may exceptionally participate in this Coordination and support action as a beneficiary or affiliated entity. * "African Union member states" includes countries whose membership has been temporarily suspended.</p> <p>Due to the scope of this topic, legal entities established in all African Union member states* are exceptionally eligible for Union <u>funding</u>. * "African Union member states" includes countries whose membership has been temporarily suspended.</p> <p>International organisations with headquarters in a Member State or associated country are exceptionally eligible for funding.</p> <p>The following additional eligibility criteria <u>apply</u>: due to the specific challenge of this topic, in addition to the minimum number of participants set out in the General Annexes, consortia must include at least five independent legal entities established in Africa.</p> <p>The Joint Research Centre (JRC) may participate as member of the consortium selected for funding.</p>

Proposal templates: always download from topic page (may change or differ, e.g. lump-sum app. 10% more pages)



Part A

Through online submission system

- 1 General information, including abstract
- 2 Participants
- 3 Budget for the proposal
- 4 Ethics and Security



Part B

Proposal plan, to be uploaded as PDF (max **45** pages)

- 1 Excellence
- 2 Impact
- 3 Quality and efficiency of the implementation



Horizon Europe (HORIZON)

Friday 18 June 2021 between 20:00 and 22:00 & Saturday 19 June 2021 between 8:00 and 16:00 CET
 All documents will be unavailable in the Grants and Audits Management Services, in the Participant Register Services and in 'My Expert Area'. Please refrain from launching any document-related process, since these will not work and will have to be restored by the Service Desk. We apologise for any inconvenience this may cause.

Type your Keywords...

Match whole words only

GRANTS TENDERS

Submission status

Forthcoming (160) Open for submission Closed

Programming period

2021 - 2027 (160)

Horizon Europe (HORIZON)

Programme part

Digital, Industry and Space

Mission

Select a Mission...

Funding and tenders (160)

Grant	Coordination of complementary actions for missions	Deadline mode
Forthcoming		
Programme	Horizon Europe (HORIZON)	Deadline mode
ID	HORIZON-MISS-2021-DOOR-01-01	Opening date
Types of action	HORIZON Coordination and Support Actions	Deadline date
Grant	Better prepared regional and local authorities to adapt to climate change	Deadline mode
Forthcoming		
Programme	Horizon Europe (HORIZON)	Deadline mode
ID	HORIZON-MISS-2021-CLIMA-01-01	Opening date
Types of action	HORIZON Coordination and Support Actions	Deadline date
Grant	Advanced spintronics: Unleashing spin in the next generation ICs (RIA)	Deadline mode
Forthcoming		
Programme	Horizon Europe (HORIZON)	Deadline mode
ID	HORIZON-CL4-2021-DIGITAL-EMERGING-01-14	Opening date
Types of action	HORIZON Research and Innovation Actions	Deadline date

European Commission | Funding: Submission Service | Welcome Joao RIBAU

Login | Topic selection | **Create proposal** | Participants | Proposal Forms | Submit

Create proposal

Deadline
19 May 2021 17:00:00 Brussels Local Time

Call data:
 Call: HORIZON-EIC-2021-PATHFINDEROPEN-01
 Topic: HORIZON-EIC-2021-PATHFINDEROPEN-01-01
 Type of action: HORIZON-EIC
 Type of MGA: HORIZON-AG

Find your organisation

PIC: [input] Short name: [input]

Search for your organisation

Organisations you have been previously associated with. (Click to select)

PIC: 999488680
 WELDING AND QUALITY INSTITUTE
 INSTITUT DU SOUDAGE ET QUALITE-
 ISQ
 TAGUSPARK AVENIDA PROFESSOR
 DR CAVACO SILVA 33 TALAIDE
 PORTO SALVO,PT
 VAT: PT500140022

Your role

Please indicate your role in this proposal

Main contact
 Contact person

Your proposal

Please choose an acronym for your proposal.
 It will appear also in the "General Information" section of the Application Form Part A and can also be updated there.

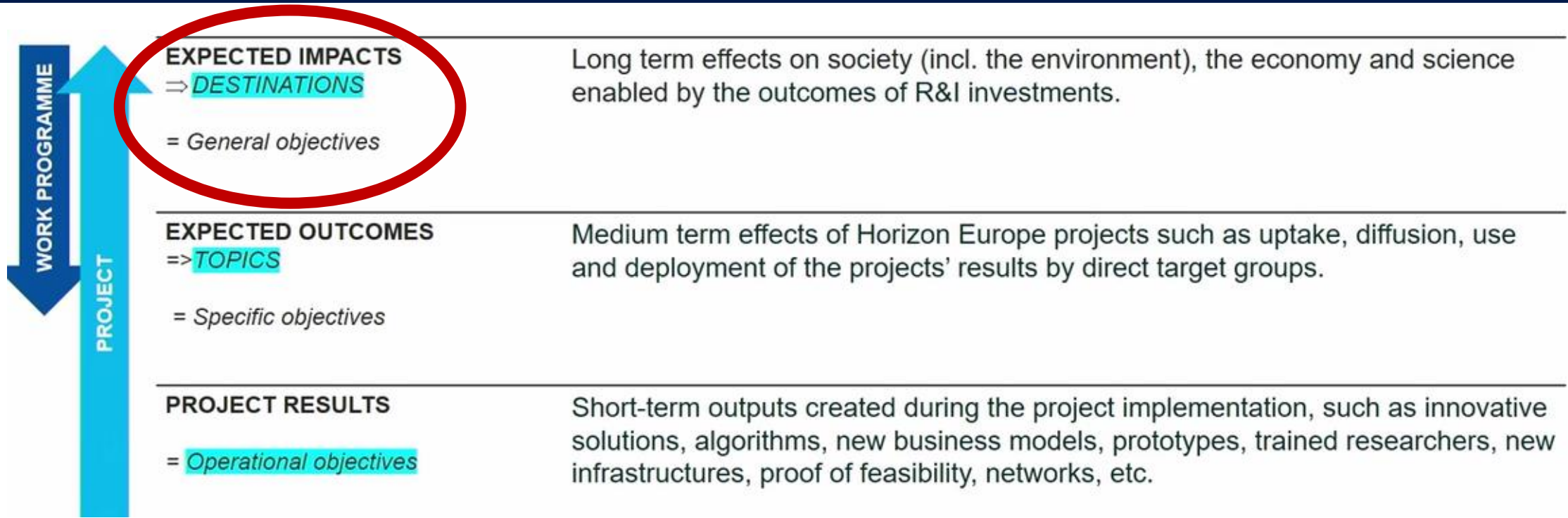
Acronym: [input]

Short Summary: [input]

SAVE AND GO TO NEXT STEP

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1. Select a call/topic
2. Read instruction
3. Access button to portal



Projects pathways to impact

The narrative should include:

- specific results, outcomes and impacts to be produced
- target groups that should uptake the results of the project,
- indication of the scale and significance of their contribution to the WP outcomes and impacts.

Take-home message



Find your topic(s)

Get more information
form the selected one(s)

Contact your NCP whenever needed 😊

Home > Events > Horizon Europe info days

Horizon Europe info days (europa.eu)

Brokerage Events (virtual):

- Cluster 1:** - Health: 20/01/2023
- Cluster 2:** Culture & Society: 18-19/01/2023
- Cluster 4:** 8, 14 & 15/12/2022
- Cluster 5:** 15/12/2022
- Cluster 6:** 19/12/2022
- EU Missions:** 17-18/01/2023

Excellent opportunities for HE proposers to establish future collaborations and consortia!!



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 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 Arctic

□ 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