

HORIZONTE EUROPA - [Programa de Trabalhos 2021-2022 do Cluster 6: “Alimentação, Bioeconomia, Recursos Naturais, Agricultura e Ambiente” – Tópicos 2021](#)

Referência tópico	Título	Tipo de projeto	M€ por projeto	Orçamento disponível (M€)	Deadline
Destination – Biodiversity and ecosystem services					
HORIZON-CL6-2021-BIODIV-01-01	European participation in global biodiversity genomics endeavours aimed at identifying all biodiversity on Earth	RIA	10-20	20	06-10-2021
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	
HORIZON-CL6-2021-BIODIV-01-03	Understanding and valuing coastal and marine biodiversity and ecosystems services	RIA	16	16	
HORIZON-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	10	10	
HORIZON-CL6-2021-BIODIV-01-05	The economics of nature-based solutions: cost-benefit analysis, market development and funding	RIA	5	5	
HORIZON-CL6-2021-BIODIV-01-06	Nature-based solutions, prevention and reduction of risks and the insurance sector	CSA	4	4	
HORIZON-CL6-2021-BIODIV-01-07	Ecosystems and their services for an evidence-based policy and decision-making	RIA	13	13	
HORIZON-CL6-2021-BIODIV-01-08	Supporting the development of a coherent and resilient Trans-European Nature Network	IA	10	10	
HORIZON-CL6-2021-BIODIV-01-09	Assessing and consolidating recent scientific advances on freshwater ecosystem restoration	CSA	0,5	0,5	
HORIZON-CL6-2021-BIODIV-01-10	Demonstration of measures and management for coastal and marine ecosystems restoration and resilience in simplified socio-ecological systems	IA	10	10	
HORIZON-CL6-2021-BIODIV-01-11	What else is out there? Exploring the connection between biodiversity, ecosystems services, pandemics and epidemic risk	RIA	4	12	
HORIZON-CL6-2021-BIODIV-01-12	Improved science based maritime spatial planning and identification of marine protected areas	RIA	3	7	
HORIZON-CL6-2021-BIODIV-01-13	Breeding for resilience: focus on root-based traits	RIA	8	16	
HORIZON-CL6-2021-BIODIV-01-14	Fostering organic crop breeding	IA	5	10	
HORIZON-CL6-2021-BIODIV-01-15	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	2-3	10	
HORIZON-CL6-2021-BIODIV-01-16	Biodiversity, water, food, energy, transport, climate and health nexus in the context of transformative change	RIA	5	5	
HORIZON-CL6-2021-BIODIV-01-17	Policy mixes, governance (including financing) and decision-making tools for transformative action on biodiversity	RIA	2-3	8	
HORIZON-CL6-2021-BIODIV-01-18	Understanding the impacts of and the opportunities offered by digital transformation, new emerging technologies and social innovation on biodiversity	RIA	2-3	5	
HORIZON-CL6-2021-BIODIV-01-19	A mechanism for science to inform implementation, monitoring, review and ratcheting up of the new EU biodiversity strategy for 2030 ('Science Service')	CSA	11-13	13	

HORIZON-CL6-2021- BIODIV-01-20	Support to processes triggered by IPBES and IPCC	CSA	5	5	
HORIZON-CL6-2021- BIODIV-01-21	Impact and dependence of business on biodiversity	RIA	2	5	

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Destination – Fair, healthy and environment-friendly food systems from primary production to consumption					
HORIZON-CL6-2021-FARM2FORK-01-01	Reaching the farm to fork target: R&I scenarios for boosting organic farming and organic aquaculture in Europe	RIA	4	4	06-10-2021
HORIZON-CL6-2021-FARM2FORK-01-02	Developing sustainable and competitive land-based protein crop systems and value chains	IA	9	9	
HORIZON-CL6-2021-FARM2FORK-01-03	Digitalisation as an enabler of agroecological farming systems	CSA	2	2	
HORIZON-CL6-2021-FARM2FORK-01-04	Tackling outbreaks of plant pests	RIA	7	14	
HORIZON-CL6-2021-FARM2FORK-01-05	Animal welfare 2.0	RIA	8	8	
HORIZON-CL6-2021-FARM2FORK-01-06	Vaccines and diagnostics for priority animal diseases	IA	6	12	
HORIZON-CL6-2021-FARM2FORK-01-07	Research & innovation roadmap for blockchain technologies in the agri-food sector	CSA	3	3	
HORIZON-CL6-2021-FARM2FORK-01-08	Uncovering lock-ins and levers to encourage farmers to move to and stay in sustainable, climate-neutral and biodiversity-friendly farming systems: from experiments to systemic mechanisms	RIA	4	12	
HORIZON-CL6-2021-FARM2FORK-01-09	Towards an EU approach to assess and internalise positive and negative externalities of food for incentivising sustainable choices	RIA	8	8	
HORIZON-CL6-2021-FARM2FORK-01-10	Sea to fork transparency and consumer engagement	IA	5	10	
HORIZON-CL6-2021-FARM2FORK-01-11	Digital transition supporting inspection and control for sustainable fisheries	IA	5	10	
HORIZON-CL6-2021-FARM2FORK-01-12	Filling knowledge gaps on the nutritional, safety, allergenicity and environmental assessment of alternative proteins and dietary shift	RIA	11	11	
HORIZON-CL6-2021-FARM2FORK-01-13	Evidence-based decision-making to change social norms towards zero food waste	RIA	6-7	12	
HORIZON-CL6-2021-FARM2FORK-01-14	Microbes for healthy and sustainable food and diets	RIA	12	12	
HORIZON-CL6-2021-FARM2FORK-01-15	Transition to healthy and sustainable dietary behaviour	RIA	12	12	
HORIZON-CL6-2021-FARM2FORK-01-16	Identification, assessment and management of existing and emerging food safety issues	RIA	6	12	
HORIZON-CL6-2021-FARM2FORK-01-17	Increasing the transparency of EU food systems to boost health, sustainability and safety of products, processes and diets	IA	11	11	
HORIZON-CL6-2021-FARM2FORK-01-18	One Health approach for Food Nutrition Security and Sustainable Agriculture (FNSSA)	RIA	6	18	
HORIZON-CL6-2021-FARM2FORK-01-19	EU-China international cooperation on integrated pest management in agriculture	RIA	6	6	

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Destination – Circular economy and bioeconomy sectors					
HORIZON-CL6-2021-CIRCBIO-01-01	Circular Cities and Regions Initiative (CCRI)'s circular systemic solutions	IA	5-10	21,5	06-10-2021
HORIZON-CL6-2021-CIRCBIO-01-02	Circular Cities and Regions Initiative's project development assistance (CCRI-PDA)	CSA	0,4-2	10	
HORIZON-CL6-2021-CIRCBIO-01-03	Innovative solutions to over-packaging and related microplastic pollution	IA	5-7	18	
HORIZON-CL6-2021-CIRCBIO-01-04	Increasing the circularity in textiles, plastics and/or electronics value chains	IA	6-8	22	
HORIZON-CL6-2021-CIRCBIO-01-05	Novel, non-plant biomass feedstocks for industrial applications	IA	6	12	
HORIZON-CL6-2021-CIRCBIO-01-06	Contained biomass solutions for sustainable and zero-Indirect Land Use Change (ILUC) production systems for high value applications	IA	5	10	
HORIZON-CL6-2021-CIRCBIO-01-07	Microbiomes for bio-based innovation and environmental applications	264	6	6	
HORIZON-CL6-2021-CIRCBIO-01-08	Mainstreaming inclusive small-scale bio-based solutions in European rural areas	CSA	3	9	
HORIZON-CL6-2021-CIRCBIO-01-09	Unlocking the potential of algae for a thriving European blue bioeconomy	IA	9	18	

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Destination – Clean environment and zero pollution					
HORIZON-CL6-2021-ZEROPOLLUTION-01-01	Regional nitrogen and phosphorus load reduction approach within safe ecological boundaries	CSA	2	6	06-10-2021
HORIZON-CL6-2021-ZEROPOLLUTION-01-02	Optimisation of nutrient budget in agriculture	RIA	7	7	
HORIZON-CL6-2021-ZEROPOLLUTION-01-03	Preventing and managing diffuse pollution in urban water runoff	RIA	2-4	10	
HORIZON-CL6-2021-ZEROPOLLUTION-01-04	Achieving zero polluted seas and ocean	CSA	3	3	
HORIZON-CL6-2021-ZEROPOLLUTION-01-05	Environmental sustainability criteria for biological resources production and trade in bio-based systems: impacts and trade-off	IA	6	6	
HORIZON-CL6-2021-ZEROPOLLUTION-01-06	Increasing the environmental performance of industrial processes in bio-based sectors: construction, woodworking, textiles, pulp and paper and bio-chemicals	RIA	3.5	7	
HORIZON-CL6-2021-ZEROPOLLUTION-01-07	International and EU sustainability certification schemes for bio-based systems	CSA	2	6	
HORIZON-CL6-2021-ZEROPOLLUTION-01-08	New genomic techniques (NGT): understanding benefits and risks – focus on bio-based innovation	RIA	5	5	
HORIZON-CL6-2021-ZEROPOLLUTION-01-09	Environmental impacts and trade-offs of alternative fertilising products at global/local scale	CSA	2	4	
HORIZON-CL6-2021-ZEROPOLLUTION-01-10	Environmental services: improved bioremediation and revitalization strategies for soil, sediments and water	RIA	5.5	11	

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<u>Destination – Land, ocean and water for climate action</u>					
HORIZON-CL6-2021-CLIMATE-01-01	Improved understanding, observation and monitoring of water resources availability	RIA	3-5	10	06-10-2021
HORIZON-CL6-2021-CLIMATE-01-03	Key oceanic and polar processes driving regional & global climate change	RIA	7-8	15	
HORIZON-CL6-2021-CLIMATE-01-04	Demonstration network on climate-smart farming – linking pilot farms	CSA	23	23	
HORIZON-CL6-2021-CLIMATE-01-05	Agroecological approaches for climate change mitigation, resilient agricultural production and enhanced biodiversity	RIA	7	7	
HORIZON-CL6-2021-CLIMATE-01-06	Resilient livestock farming systems under climate change	RIA	12	12	
HORIZON-CL6-2021-CLIMATE-01-07	International Research Consortium on (agricultural) soil carbon	CSA	3	3	
HORIZON-CL6-2021-CLIMATE-01-08	Agroforestry to meet climate, biodiversity and farming sustainability goals	RIA	4	6	
HORIZON-CL6-2021-CLIMATE-01-09	Enhancing science-based knowledge on EU forests', including old-growth forests, capacities to mitigate climate change	RIA	5	10	
HORIZON-CL6-2021-CLIMATE-01-10	EU-China international cooperation on increasing the resilience of forests	RIA	10	10	

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Destination – Resilient, inclusive, healthy and green rural, coastal and urban communities					
HORIZON-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	7-7-5	15	06-10-2021
HORIZON-CL6-2021-COMMUNITIES-01-02	Expertise and training centre on rural innovation	CSA	5	5	
HORIZON-CL6-2021-COMMUNITIES-01-03	Smart XG, last-mile and edge solutions for remote farming, forestry and rural areas	RIA	5	10	
HORIZON-CL6-2021-COMMUNITIES-01-04	Socio-economic empowerment of the users of the sea	RIA	6	6	
HORIZON-CL6-2021-COMMUNITIES-01-05	Integrated urban food system policies – how cities and towns can transform food systems for co-benefits	IA	12	12	
HORIZON-CL6-2021-COMMUNITIES-01-06	Inside and outside: educational innovation with nature-based solutions	CSA	5	5	

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Destination – Innovative governance, environmental observations and digital solutions in support of the Green Deal					
HORIZON-CL6-2021-GOVERNANCE-01-01	Mobilising the network of national contact points in Cluster 6	CSA	3.5	3.5	06-10-2021
HORIZON-CL6-2021-GOVERNANCE-01-02	Furthering food systems science and federating researchers across the European Research Area	RIA	6	17	
HORIZON-CL6-2021-GOVERNANCE-01-03	Preparatory action for the Horizon Europe Food System Partnership	CSA	5	5	
HORIZON-CL6-2021-GOVERNANCE-01-04	Strengthening bioeconomy innovation and deployment across sectors and all governance levels	CSA	4	4	
HORIZON-CL6-2021-GOVERNANCE-01-05	Fostering strategic advice and synergies between national and EU research and innovation agendas, including SCAR foresight	CSA	4	4	
HORIZON-CL6-2021-GOVERNANCE-01-06	Environmental and social cross-compliance of marine policies	RIA	2-3	8	
HORIZON-CL6-2021-GOVERNANCE-01-07	Regional governance models in the bioeconomy	CSA	2.5	5	
HORIZON-CL6-2021-GOVERNANCE-01-08	Improving understanding of and engagement in bio-based systems with training and skills development	CSA	2.5	5	
HORIZON-CL6-2021-GOVERNANCE-01-09	Revitalisation of European local communities with innovative bio-based business models and social innovation	CSA	2.5	5	
HORIZON-CL6-2021-GOVERNANCE-01-10	Raising awareness of circular and sustainable bioeconomy in support of Member States to develop bioeconomy strategies and/or action plans	CSA	4	4	
HORIZON-CL6-2021-GOVERNANCE-01-11	Education on the bioeconomy including bio-based sectors for young people in primary and secondary education in Europe	CSA	2	2	
HORIZON-CL6-2021-GOVERNANCE-01-12	EU agriculture within a safe and just operating space and planetary boundaries	RIA	10	10	
HORIZON-CL6-2021-GOVERNANCE-01-13	Modelling land use and land management in the context of climate change	RIA	5	10	
HORIZON-CL6-2021-GOVERNANCE-01-14	User-oriented solutions building on environmental observation to monitor critical ecosystems and biodiversity loss and vulnerability in the European Union	RIA	3-5	20	
HORIZON-CL6-2021-GOVERNANCE-01-15	Preparing for pre-commercial procurement (PCP) for end-user services based on environmental observation in the area of climate change adaptation and mitigation	CSA	2	2	
HORIZON-CL6-2021-GOVERNANCE-01-16	Tools to support the uptake and accessibility/exploitability of environmental observation information at European and global level	IA	13	13	
HORIZON-CL6-2021-GOVERNANCE-01-17	Common European Green Deal data space to provide more accessible and exploitable environmental observation data in support of the European Green Deal priority actions	IA	3-5	10	
HORIZON-CL6-2021-GOVERNANCE-01-18	Mapping and improving the data economy for food systems	RIA	10	10	
HORIZON-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	2-4	4	
HORIZON-CL6-2021-GOVERNANCE-01-20	Data economy in the field of agriculture – effects of data sharing and big data	RIA	2-4	4	
HORIZON-CL6-2021-GOVERNANCE-01-21	Potential of drones as multi-purpose vehicle – risks and added values	RIA	6	12	

HORIZON-CL6-2021-GOVERNANCE-01-22	Assessing the impacts of digital technologies in agriculture – cost, benefits and potential for sustainability gains	RIA	7.5	15
HORIZON-CL6-2021-GOVERNANCE-01-23	Broaden EIP Operational Group outcomes across borders by means of thematic networks, compiling and sharing knowledge ready for practice	CSA	2	4
HORIZON-CL6-2021-GOVERNANCE-01-24	Supporting knowledge exchange between all AKIS actors in the Member States by means of an EU-wide interactive knowledge reservoir	RIA	15	15
HORIZON-CL6-2021-GOVERNANCE-01-25	Improving national AKIS organisation in a co-creative process across the EU	CSA	10	10
HORIZON-CL6-2021-GOVERNANCE-01-26	Deepening the functioning of innovation support	CSA	5	5
HORIZON-CL6-2021-GOVERNANCE-01-27	Developing EU advisory networks on consumer-producer chains	CSA	4	8
HORIZON-CL6-2021-GOVERNANCE-01-28	Thematic networks to compile and share knowledge ready for practice	CSA	3	8.5

RIA - Research and Innovation Action (financiamento: 100%); Action primarily consisting of activities aiming to establish new knowledge and/or to explore the feasibility of a new or improved technology, product, process, service or solution. For this purpose they may include basic and applied research, technology development and integration, testing and validation on a small-scale prototype in a laboratory or simulated environment.

IA – Innovation Action (70% dos custos diretos elegíveis, com exceção das entidades sem fins lucrativos que podem ser reembolsadas a 100%); Action primarily consisting of activities directly aiming at producing plans and arrangements or designs for new, altered or improved products, processes or services. For this purpose they may include prototyping, testing, demonstrating, piloting, large-scale product validation and market replication.

CSA - Coordination and Support Action (financiamento: 100%); Actions consisting primarily of accompanying measures such as standardisation, dissemination, awareness-raising and communication, networking, coordination or support services, policy dialogues and mutual learning exercises and studies, including design studies for new infrastructure and may also include complementary activities of strategic planning, networking and coordination between programmes in different countries.