

Calendrier des prochains appels à projet 2021-2022 Programme Horizon Europe

V.16.06.2021

Chaque appel listé ci-dessous est détaillé dans le programme de travail correspondant : <https://ec.europa.eu/info/funding-tenders/opportunities/portal/screen/how-to-participate/reference-documents> et sur le portail du participant « [Funding & Tenders Portal](#) ».

Liste des programmes de travail

European Research Council	2
Marie Skłodowska-Curie actions (MSCA) 2021-2022	2
Research infrastructures 2021-2022	3
Cluster 1 – Health	5
Cluster 2 – Culture, Creativity and Inclusive Society’	9
Cluster 3 – Civil Security for society	12
Cluster 4 - Digital, Industry and Space.....	17
Cluster 5 - Climate, Energy and Mobility	28
Cluster 6 - Food, Bioeconomy, Natural Resources, Agriculture and Environment	40
Horizon Europe Missions	53
European Innovation Council	54
European Innovation ecosystems	55
Widening participation and spreading excellence	56
Partenariats public-privé	59

Représentation à Bruxelles

21, rue Montoyer
1000 Bruxelles - Belgique
T. +32 2 318 10 45
bureau-bruxelles@nouvelle-aquitaine.fr

European Research Council

Frontier-research Grants

Starting grants

	Ouverture	Deadline
<i>ERC-2021-StG</i>	25 Feb 2021	24 mars 2021

Consolidator grants

<i>ERC-2021-CoG</i>	11 Mars 2021	20 avril 2021
---------------------	--------------	---------------

Advanced grants

<i>ERC-2021-AdG</i>	20 Mai 2021	31 août 2021
---------------------	-------------	--------------

Proof-of-Concept Grants

<i>ERC-2021-PoC</i>	tbc	tbc
---------------------	-----	-----

Synergy Grants

	2022 - tbc	
--	------------	--

+ Other actions

Evaluation, support to Open Science, support to the ERC Scientific Council, etc.

Marie Skłodowska-Curie actions (MSCA) 2021-2022

Marie Skłodowska-Curie Doctoral Networks

	Ouverture	Deadline
<i>HORIZON-MSCA-2021-DN-01</i>	22 juin 2021	16 nov 2021
<i>HORIZON-MSCA-2022-DN-01</i>	3 mai 2022	15 novembre 2022

Marie Skłodowska-Curie Postdoctoral Fellowships

<i>HORIZON-MSCA-2021-PF-01</i>	22 juin 2021	12 octobre 2021
<i>HORIZON-MSCA-2022-PF-01</i>	13 avril 2022	14 septembre 2022

Marie Skłodowska-Curie Staff Exchanges

<i>HORIZON-MSCA-2021-SE-01</i>	7 octobre 2021	09 mars 2022
<i>HORIZON-MSCA-2022-SE-01</i>	6 octobre 2022	08 mars 2023

Marie Skłodowska-Curie - Co-funding of regional, national and international programmes

<i>HORIZON-MSCA-2021-COFUND-01</i>	12 octobre 2021	10 février 2022
<i>HORIZON-MSCA-2022-COFUND-01</i>	11 octobre 2022	9 février 2023

Marie Skłodowska-Curie actions and Citizens

<i>HORIZON-MSCA-2022-CITIZENS-01</i> <i>Researchers' Night 2022-2023</i>	<i>European</i> 22 juin 2021	07 octobre 2021
---	---------------------------------	-----------------

Marie Skłodowska-Curie actions - Support

<i>HORIZON-MSCA-2021-NCP-01 Trans-national cooperation among Marie Skłodowska-Curie National Contact Points (NCP)</i>	22 juin 2021	31 août 2021
<i>HORIZON-MSCA-2021-INCO-01 MSCA International Cooperation 2021</i>	22 juin 2021	5 octobre 2021
<i>HORIZON-MSCA-2021-RR-01 MSCA Researchers at Risk 2021</i>	2 septembre 2021	6 janvier 2022

+ Other actions

Conférences (dont une conférence sous présidence française, premier semestre 2022, qui traitera notamment de l' « *advancement of the European universities project* », public procurement, etc.

Research infrastructures 2021-2022

Destination 1: Developing, consolidating and optimizing the European research infrastructures landscape, maintaining global leadership

Developing, consolidating and optimising the European Research Infrastructures landscape, maintaining global leadership

	Ouverture	Deadline
<i>HORIZON-INFRA-2021-DEV-01-01: Support to the European Strategy Forum on Research Infrastructures</i>	22 Juin 2021	23 Sep 2021
<i>HORIZON-INFRA-2021-DEV-01-02: Strengthen the bilateral cooperation on research infrastructures with Africa: improving the knowledge base on climate change in Africa</i>	22 Juin 2021	23 Sep 2021
<i>HORIZON-INFRA-2021-DEV-01-03: Transition to digital/remote research infrastructure service provision: lessons learnt, needs and best practices</i>	22 Juin 2021	23 Sep 2021
<i>HORIZON-INFRA-2021-DEV-01-04: Support to National Contact Points (NCPs) for Research Infrastructures</i>	22 Juin 2021	23 Sep 2021
<i>HORIZON-INFRA-2021-DEV-01-05: Support to the e-Infrastructure Reflection Group</i>	22 Juin 2021	23 Sep 2021

Developing and consolidating the European Research Infrastructures landscape, maintaining global leadership

<i>HORIZON-INFRA-2021-DEV-02-01: Preparatory phase of new ESFRI Research Infrastructure projects</i>	30 Sep 2021	20 Jan 2022
<i>HORIZON-INFRA-2021-DEV-02-02: Consolidation of the research infrastructure landscape – Individual support for ESFRI projects</i>	30 Sep 2021	13 Jan 2022
<i>HORIZON-INFRA-2022-DEV-01-01: Research infrastructure concept development</i>	19 Jan 2022	20 Avril 2022

Destination 2: Enabling an operational, open, and faire EOSC ecosystem

Enabling an operational, open and FAIR EOSC ecosystem

<i>HORIZON-INFRA-2021-EOSC-01-01: Supporting an EOSC-ready digitally skilled workforce</i>	22 juin 2021	23 Sept 2021
<i>HORIZON-INFRA-2021-EOSC-01-02: Supporting the development and coordination of activities of the EOSC Partnership</i>	22 juin 2021	23 Sept 2021
<i>HORIZON-INFRA-2021-EOSC-01-03: Deploying EOSC-Core components for FAIR</i>	22 juin 2021	23 Sept 2021
<i>HORIZON-INFRA-2021-EOSC-01-04: Innovative and customizable services for EOSC</i>	22 juin 2021	23 Sept 2021
<i>HORIZON-INFRA-2021-EOSC-01-05: Enabling discovery and interoperability of federated research objects across scientific communities</i>	22 juin 2021	23 Sept 2021
<i>HORIZON-INFRA-2021-EOSC-01-06: FAIR and open data sharing in support of cancer research</i>	22 juin 2021	23 Sept 2021
<i>HORIZON-INFRA-2022-EOSC-01-01: Services and tools to underpin a research assessment system that incentivises open science practices</i>	10 janv 2022	20 avril 2022
<i>HORIZON-INFRA-2022-EOSC-01-02: Improving and coordinating technical infrastructure for institutional open access publishing across Europe</i>	10 janv 2022	20 avril 2022
<i>HORIZON-INFRA-2022-EOSC-01-03: FAIR and open data sharing in support of healthy oceans, seas, coastal and inland waters</i>	10 janv 2022	20 avril 2022
<i>HORIZON-INFRA-2022-EOSC-01-04: Support for initiatives helping to generate global standards, specifications and recommendations for open sharing of FAIR research data, publications and software</i>	10 janv 2022	20 avril 2022

Destination 3: Research infrastructure services to support Health research, accelerate the green and digital transformation, and advance frontier knowledge

Research Infrastructure services to support health research, accelerate the green and digital transformation, and advance frontier knowledge

<i>HORIZON-INFRA-2021-SERV-01-01: Research infrastructures services to support research addressing cancer</i>	22 juin 2021	23 Sept 2021
<i>HORIZON-INFRA-2021-SERV-01-02: Research infrastructures services for a sustainable and resilient agriculture and agro-ecological transitions</i>	22 juin 2021	23 Sept 2021
<i>HORIZON-INFRA-2021-SERV-01-03: Research infrastructures services for responding to climate-related risks on the environment</i>	22 juin 2021	23 Sept 2021
<i>HORIZON-INFRA-2021-SERV-01-04: Research infrastructures services enabling the development of materials for a circular economy</i>	22 juin 2021	23 Sept 2021

<i>HORIZON-INFRA-2021-SERV-01-05: Research infrastructures services for sustainable and inclusive Global Value Chain and Europe recovery from socio-economic crises</i>	22 juin 2021	23 Sept 2021
<i>HORIZON-INFRA-2021-SERV-01-06: Enabling research infrastructure services for better use of imaging data to address challenges in thematic research areas</i>	22 juin 2021	23 Sept 2021
<i>HORIZON-INFRA-2021-SERV-01-07: Research Infrastructures services advancing frontier knowledge</i>	22 juin 2021	23 Sept 2021

Research Infrastructure services to support health research and accelerate the digital transformation

<i>HORIZON-INFRA-2022-SERV-01-01: Implementing digital services to empower neuroscience research for health and brain inspired technology via EBRAINS</i>	01 Jun 2022	21 Sep 2022
---	-------------	-------------

Destination 4: Next generation of scientific instrumentation, tools and methods and advanced digital solutions

Next generation of scientific instrumentation, tools and methods

<i>HORIZON-INFRA-2021-TECH-01-01: Interdisciplinary digital twins for modelling and simulating complex phenomena at the service of research infrastructure communities</i>	22 juin 2021	23 Sept 2021
<i>HORIZON-INFRA-2022-TECH-01-01: R&D for the next generation of scientific instrumentation, tools and methods</i>	19 janvier 2022	20 avril 2022

Destination 5: Network connectivity in research and education – Enabling collaboration without boundaries

Network connectivity in Research and Education - Enabling collaboration without boundaries

<i>HORIZON-INFRA-2021-NET-01-01-FPA: Framework Partnership Agreement (FPA) for Research and Education Networks</i>	22 juin 2021	2 Sept 2021
--	--------------	-------------

+ Other actions

Predefined grants, public procurement, etc.

Cluster 1 – Health

Destination 1: Staying healthy in a rapidly changing society (289 millions €)

Staying Healthy

<i>HORIZON-HLTH-2021-STAYHLTH-01-02: Towards a molecular and neurobiological understanding of mental health and mental illness for the benefit of citizens and patients</i>	22 Juin 2021	21 Sep 2021
---	--------------	-------------

<i>HORIZON-HLTH-2021-STAYHLTH-01-03: Healthy Citizens 2.0 - Supporting digital empowerment and health literacy of citizens</i>	22 Juin 2021	21 Sep 2021
<i>HORIZON-HLTH-2021-STAYHLTH-01-04: A roadmap for personalised prevention</i>	22 Juin 2021	21 Sep 2021
<i>HORIZON-HLTH-2021-STAYHLTH-01-05: Mobilising the network of National Contact Points in the Health Cluster</i>	22 Juin 2021	21 Sep 2021
<i>HORIZON-HLTH-2022-STAYHLTH-01-01-two-stage: Boosting mental Health in Europe in times of change</i>	06 Oct 2021	01 Feb 2022 (First Stage), 06 Sep 2022 (Second Stage)
<i>HORIZON-HLTH-2022-STAYHLTH-01-04-two-stage: Trustworthy AI tools to predict the risk of chronic non-communicable diseases and/or their progression</i>	06 Oct 2021	01 Feb 2022 (First Stage), 06 Sep 2022 (Second Stage)
<i>HORIZON-HLTH-2022-STAYHLTH-01-05-two-stage: Prevention of obesity through the life course</i>	06 Oct 2021	01 Feb 2022 (First Stage), 06 Sep 2022 (Second Stage)
<i>HORIZON-HLTH-2022-STAYHLTH-02-01: Personalised blue print of chronic inflammation in health-to-disease transition</i>	06 Oct 2021	21 Apr 2022

Destination 2: Living and working in a health-promoting environment (350 millions €)

Environment and health

<i>HORIZON-HLTH-2021-ENVHLTH-02-01: Exposure to electromagnetic fields (EMF) and health</i>	22 Juin 2021	21 Sep 2021
<i>HORIZON-HLTH-2021-ENVHLTH-02-02: Indoor air quality and health</i>	22 Juin 2021	21 Sep 2021
<i>HORIZON-HLTH-2021-ENVHLTH-02-03: Health impacts of climate change, costs and benefits of action and inaction</i>	22 Juin 2021	21 Sep 2021
<i>HORIZON-HLTH-2022-ENVHLTH-04-01: Methods for assessing health-related costs to environmental stressors</i>	06 Oct 2021	21 Apr 2022

Partnerships in Health

<i>HORIZON-HLTH-2021-ENVHLTH-03-01: European Partnership for the Assessment of Risks from Chemicals (PARC)</i>	22 Juin 2021	21 Sep 2021
--	--------------	-------------

Destination 3: Tackling diseases and reducing disease burden (490 millions €)

Tackling diseases

<i>HORIZON-HLTH-2021-DISEASE-04-01: Improved supportive, palliative, survivorship and end-of-life care of cancer patients</i>	22 Juin 2021	21 Sep 2021
<i>HORIZON-HLTH-2021-DISEASE-04-02: Building a European innovation platform for the repurposing of medicinal products</i>	22 Juin 2021	21 Sep 2021

<i>HORIZON-HLTH-2021-DISEASE-04-03: Innovative approaches to enhance poverty-related diseases research in sub-Saharan Africa</i>	22 Juin 2021	21 Sep 2021
<i>HORIZON-HLTH-2021-DISEASE-04-04: Clinical validation of artificial intelligence solutions for treatment and care</i>	22 Juin 2021	21 Sep 2021
<i>HORIZON-HLTH-2021-DISEASE-04-07: Personalised medicine and infectious diseases: understanding the individual host response to viruses (e.g., SARS-CoV-2)</i>	22 Juin 2021	21 Sep 2021
<i>HORIZON-HLTH-2021-DISEASE-04-05: A roadmap towards the creation of the European One Health antimicrobial resistance partnership (OH AMR)</i>	22 Juin 2021	21 Sep 2021
<i>HORIZON-HLTH-2021-DISEASE-04-06: Building a European Research and Innovation Partnership for Pandemic Preparedness</i>	22 Juin 2021	21 Sep 2021
<i>HORIZON-HLTH-2022-DISEASE-06-02-two-stage: Pre-clinical development of the next generation immunotherapies for diseases or disorders with unmet medical need</i>	06 Oct 2021	01 Feb 2022 (First Stage), 06 Sep 2022 (Second Stage)
<i>HORIZON-HLTH-2022-DISEASE-06-03-two-stage: Vaccines 2.0 - developing the next generation of vaccines</i>	06 Oct 2021	01 Feb 2022 (First Stage), 06 Sep 2022 (Second Stage)
<i>HORIZON-HLTH-2022-DISEASE-06-04-two-stage: Development of new effective therapies for rare diseases</i>	06 Oct 2021	01 Feb 2022 (First Stage), 06 Sep 2022 (Second Stage)
<i>HORIZON-HLTH-2022-DISEASE-07-02: Pandemic Preparedness</i>	12 janvier 2022	21 Apr 2022
<i>HORIZON-HLTH-2022-DISEASE-07-03: Non-communicable diseases risk reduction in adolescence and youth (Global Alliance for Chronic Diseases - GACD)</i>	12 janvier 2022	21 Apr 2022
<i>HORIZON-HLTH-2022-DISEASE-07-01: Support for the functioning of the Global Research Collaboration for Infectious Disease Preparedness (GloPID-R)</i>	12 janvier 2022	21 Apr 2022

Partnerships in Health

<i>HORIZON-HLTH-2022-DISEASE-03-01: European Partnership Fostering an ERA for Health research</i>	12 Janvier 2022	21 Apr 2022
---	-----------------	-------------

Destination 4: Ensuring access to innovative, sustainable and high-quality health care (240 millions €)

Ensuring access to innovative, sustainable and high-quality health care

<i>HORIZON-HLTH-2021-CARE-05-01: Enhancing quality of care and patient safety</i>	22 Juin 2021	21 Sep 2021
<i>HORIZON-HLTH-2021-CARE-05-02: Data-driven decision-support tools for better health and care delivery and policy-making with a focus on cancer</i>	22 Juin 2021	21 Sep 2021
<i>HORIZON-HLTH-2021-CARE-05-04: Health care innovation procurement network</i>	22 Juin 2021	21 Sep 2021

<i>HORIZON-HLTH-2022-CARE-08-02: Pre-commercial research and innovation procurement (PCP) for building the resilience of health care systems in the context of recovery</i>	06 Oct 2021	21 Apr 2022
<i>HORIZON-HLTH-2022-CARE-08-03: Public procurement of innovative solutions (PPI) for building the resilience of health care systems in the context of recovery</i>	06 Oct 2021	21 Apr 2022
<i>HORIZON-HLTH-2022-CARE-08-04: Better financing models for health systems</i>	06 Oct 2021	21 Apr 2022

Partnerships in Health

<i>HORIZON-HLTH-2022-CARE-10-01: European Partnership on Transforming Health and Care Systems</i>	06 Oct 2021	21 Apr 2022
---	-------------	-------------

Destination 5: Unlocking the full potential of new tools, technologies and digital solutions for a healthy society (270 millions €)

Tools and technologies for a healthy society

<i>HORIZON-HLTH-2021-TOOL-06-01: Smart medical devices and their surgical implantation for use in resource-constrained settings</i>	22 Juin 2021	21 Sep 2021
<i>HORIZON-HLTH-2021-TOOL-06-02: Next generation advanced therapies to treat highly prevalent and high burden diseases with unmet medical needs</i>	22 Juin 2021	21 Sep 2021
<i>HORIZON-HLTH-2021-TOOL-06-03: Innovative tools for use and re-use of health data (in particular electronic health records and/or patient registries)</i>	22 Juin 2021	21 Sep 2021
<i>HORIZON-HLTH-2022-TOOL-11-01: Optimising effectiveness in patients of existing prescription drugs for major diseases (except cancer) with the use of biomarkers</i>	06 Oct 2021	21 Apr 2022
<i>HORIZON-HLTH-2022-TOOL-11-02: New methods for the effective use of real-world data and/or synthetic data in regulatory decision-making and/or in health technology assessment</i>	06 Oct 2021	21 Apr 2022
<i>HORIZON-HLTH-2022-TOOL-12-01-two-stage: Computational models for new patient stratification strategies</i>	06 Oct 2021	01 Feb 2022 (First Stage), 06 Sep 2022 (Second Stage)

Destination 6: Maintaining an innovative, sustainable and globally competitive health industry (113 millions €)

A competitive health-related industry

<i>HORIZON-HLTH-2021-IND-07-01: pharmaceuticals</i>	<i>Green</i>	22 Juin 2021	21 Sep 2021
---	--------------	--------------	-------------

<i>HORIZON-HLTH-2021-IND-07-02: Development procurement and responsible management of new antimicrobials</i>	22 Juin 2021	21 Sep 2021
<i>HORIZON-HLTH-2021-IND-07-03: Promoting a trusted mHealth label in Europe: uptake of Technical specifications for quality and reliability of Health and Wellness Apps</i>	22 Juin 2021	21 Sep 2021
<i>HORIZON-HLTH-2022-IND-13-01: Enhancing Cybersecurity of connected Medical Devices</i>	06 Oct 2021	21 Apr 2022
<i>HORIZON-HLTH-2022-IND-13-02: Scaling up multi-party computation, data anonymisation techniques and synthetic data generation</i>	06 Oct 2021	21 Apr 2022
<i>HORIZON-HLTH-2022-IND-13-03: New pricing and payment models for cost-effective and affordable health innovations</i>	06 Oct 2021	21 Apr 2022
<i>HORIZON-HLTH-2022-IND-13-04: Setting up a European Smart Health Innovation Hub</i>	06 Oct 2021	21 Apr 2022
<i>HORIZON-HLTH-2022-IND-13-05: Setting up a European Electronic Health Record Exchange Format (EEHRxF) Ecosystem</i>	06 Oct 2021	21 Apr 2022

+ Other actions (203.7 millions €)

Studies, operating grants, etc.

Cluster 2 – Culture, Creativity and Inclusive Society'

Destination 1: Innovative Research on Democracy and Governance (130,5 millions €)

Protecting and nurturing democracies

<i>HORIZON-CL2-2021-DEMOCRACY-01-01: The future of liberal democracy in Europe</i>	22 juin 2021	7 oct 2021
<i>HORIZON-CL2-2021-DEMOCRACY-01-02: Economic models and modern democracies</i>	22 juin 2021	7 oct 2021
<i>HORIZON-CL2-2021-DEMOCRACY-01-03: Feminisms for a new age of democracy</i>	22 juin 2021	7 oct 2021
<i>HORIZON-CL2-2021-DEMOCRACY-01-04: Democratic politics in the EU's neighbourhood</i>	22 juin 2021	7 oct 2021
<i>HORIZON-CL2-2021-DEMOCRACY-01-05: Politics and governance in a post-pandemic world</i>	22 juin 2021	7 oct 2021

Reshaping democracies

<i>HORIZON-CL2-2022-DEMOCRACY-01-01: Artificial intelligence, big data and democracy</i>	20 Jan 2022	20 Apr 2022
<i>HORIZON-CL2-2022-DEMOCRACY-01-02: The future of democracy and civic participation</i>	20 Jan 2022	20 Apr 2022
<i>HORIZON-CL2-2022-DEMOCRACY-01-03: The impact of inequalities on democracy</i>	20 Jan 2022	20 Apr 2022

<i>HORIZON-CL2-2022-DEMOCRACY-01-04: Education for democracy</i>	20 Jan 2022	20 Apr 2022
<i>HORIZON-CL2-2022-DEMOCRACY-01-05: Evolution of political extremism and its influence on contemporary social and political dialogue</i>	20 Jan 2022	20 Apr 2022
<i>HORIZON-CL2-2022-DEMOCRACY-01-06: Media for democracy – democratic media</i>	20 Jan 2022	20 Apr 2022
<i>HORIZON-CL2-2022-DEMOCRACY-01-07: Politics and the impact of online social networks and new media</i>	20 Jan 2022	20 Apr 2022
<i>HORIZON-CL2-2022-DEMOCRACY-01-08: Representative democracy in flux</i>	20 Jan 2022	20 Apr 2022
<i>HORIZON-CL2-2022-DEMOCRACY-01-09: Global governance for a world in transition: Norms, institutions, actors</i>	20 Jan 2022	20 Apr 2022

Destination 2: Innovative Research on the European Cultural Heritage and the Cultural and Creative Industries
(144.5 millions €)

Research and Innovation on Cultural Heritage and CCIs

<i>HORIZON-CL2-2021-HERITAGE-01-01: Green technologies and materials for cultural heritage</i>	22 juin 2021	7 oct 2021
<i>HORIZON-CL2-2021-HERITAGE-01-02: New ways of participatory management and sustainable financing of museums and other cultural institutions</i>	22 juin 2021	7 oct 2021
<i>HORIZON-CL2-2021-HERITAGE-01-03: Cultural and creative industries as a driver of innovation and competitiveness</i>	22 juin 2021	7 oct 2021
<i>HORIZON-CL2-2021-HERITAGE-01-04: Preserving and enhancing cultural heritage with advanced digital technologies</i>	22 juin 2021	7 oct 2021

Engagement with stakeholders

<i>HORIZON-CL2-2021-HERITAGE-02-01: Mobilising the network of National Contact Points in Cluster 2</i>	22 juin 2021	7 oct 2021
<i>HORIZON-CL2-2021-HERITAGE-02-02: Coordination of European cultural heritage research and innovation among Member States</i>	22 juin 2021	7 oct 2021

Research and Innovation on Cultural Heritage and CCIs

<i>HORIZON-CL2-2022-HERITAGE-01-01: Safeguarding endangered languages in Europe</i>	20 Jan 2022	20 Apr 2022
<i>HORIZON-CL2-2022-HERITAGE-01-02: Europe's cultural heritage and arts - promoting our values at home and abroad</i>	20 Jan 2022	20 Apr 2022
<i>HORIZON-CL2-2022-HERITAGE-01-03: The role of perceptions, formed by traditions, values and beliefs, in shaping European societies and politics in the 21st century</i>	20 Jan 2022	20 Apr 2022

<i>HORIZON-CL2-2022-HERITAGE-01-04: Traditional crafts for the future: a new approach</i>	20 Jan 2022	20 Apr 2022
<i>HORIZON-CL2-2022-HERITAGE-01-05: Towards a competitive, fair and sustainable European music ecosystem</i>	20 Jan 2022	20 Apr 2022
<i>HORIZON-CL2-2022-HERITAGE-01-06: Increase the potential of the international competitiveness of the European filmmaking industry</i>	20 Jan 2022	20 Apr 2022
<i>HORIZON-CL2-2022-HERITAGE-01-07: Protection of artefacts and cultural goods from anthropogenic threats</i>	20 Jan 2022	20 Apr 2022
<i>HORIZON-CL2-2022-HERITAGE-01-08: Effects of climate change and natural hazards on cultural heritage and remediation</i>	20 Jan 2022	20 Apr 2022
<i>HORIZON-CL2-2022-HERITAGE-01-09: Games and culture shaping our society</i>	20 Jan 2022	20 Apr 2022
<i>HORIZON-CL2-2022-HERITAGE-01-10: The New European Bauhaus – shaping a greener and fairer way of life in creative and inclusive societies through Architecture, Design and Arts</i>	20 Jan 2022	20 Apr 2022

Destination 3: Innovative Research on Social and Economic Transformations (147 millions €)

Inclusiveness in times of change (2021)

<i>HORIZON-CL2-2021-TRANSFORMATIONS-01-01: Estimates of irregular migrants in Europe - stakeholder network</i>	22 juin 2021	7 oct 2021
<i>HORIZON-CL2-2021-TRANSFORMATIONS-01-02: Providing support in a changing world of work and social protection</i>	22 juin 2021	7 oct 2021
<i>HORIZON-CL2-2021-TRANSFORMATIONS-01-03: Determining key drivers of inequality trends</i>	22 juin 2021	7 oct 2021
<i>HORIZON-CL2-2021-TRANSFORMATIONS-01-04: Addressing poor learning outcomes in basic skills and early school leaving at national, regional and local level in Europe</i>	22 juin 2021	7 oct 2021
<i>HORIZON-CL2-2021-TRANSFORMATIONS-01-05: Integration of emerging new technologies into education and training</i>	22 juin 2021	7 oct 2021
<i>HORIZON-CL2-2021-TRANSFORMATIONS-01-06: Towards a new normal? Employment and social impacts of changing supply chains and declining trade intensities</i>	22 juin 2021	7 oct 2021
<i>HORIZON-CL2-2021-TRANSFORMATIONS-01-07: Upgrading Independent Knowledge on Contemporary China in Europe</i>	22 juin 2021	7 oct 2021

A sustainable future for Europe (2022)

<i>HORIZON-CL2-2022-TRANSFORMATIONS-01-01: Public policies and indicators for well-being and sustainable development</i>	20 Jan 2022	20 Apr 2022
--	-------------	-------------

<i>HORIZON-CL2-2022-TRANSFORMATIONS-01-02: The impact of spatial mobility on European demographics, society, welfare system and labour market</i>	20 Jan 2022	20 Apr 2022
<i>HORIZON-CL2-2022-TRANSFORMATIONS-01-03: Conditions of irregular migrants in Europe</i>	20 Jan 2022	20 Apr 2022
<i>HORIZON-CL2-2022-TRANSFORMATIONS-01-04: Decision-making processes of (aspiring) migrants</i>	20 Jan 2022	20 Apr 2022
<i>HORIZON-CL2-2022-TRANSFORMATIONS-01-05: Gender and social, economic and cultural empowerment</i>	20 Jan 2022	20 Apr 2022
<i>HORIZON-CL2-2022-TRANSFORMATIONS-01-06: Overcoming discrimination for an inclusive labour market</i>	20 Jan 2022	20 Apr 2022
<i>HORIZON-CL2-2022-TRANSFORMATIONS-01-07: Conditions for the successful development of skills matched to needs</i>	20 Jan 2022	20 Apr 2022
<i>HORIZON-CL2-2022-TRANSFORMATIONS-01-08: Strengthening racial, ethnic and religious equality</i>	20 Jan 2022	20 Apr 2022
<i>HORIZON-CL2-2022-TRANSFORMATIONS-01-09: Return and readmission of irregular migrants in the EU</i>	20 Jan 2022	20 Apr 2022
<i>HORIZON-CL2-2022-TRANSFORMATIONS-01-10: Socio-economic effects of ageing societies</i>	20 Jan 2022	20 Apr 2022

+ **Other actions** (0.92 million €)

Conference on cultural heritage

Cluster 3 – Civil Security for society

Destination 1: Better protect the EU and its citizens against Crime and Terrorism (87 millions €)

Modern information analysis for Law Enforcement

	Ouverture	Deadline
<i>HORIZON-CL3-2021-FCT-01-01: Terrorism and other forms of serious crime countered using travel intelligence</i>	30 juin 2021	23 nov 2021
<i>HORIZON-CL3-2021-FCT-01-02: Lawful interception using new and emerging technologies (5G & beyond, quantum computing and encryption)</i>	30 juin 2021	23 nov 2021
<i>HORIZON-CL3-2021-FCT-01-03: Disinformation and fake news are combated and trust in the digital world is raised</i>	30 juin 2021	23 nov 2021
<i>HORIZON-CL3-2021-FCT-01-04: Improved access to fighting crime and terrorism research data</i>	30 juin 2021	23 nov 2021

Improved forensics and lawful evidence collection

<i>HORIZON-CL3-2021-FCT-01-05: Modern biometrics used in forensic science and by police</i>	30 juin 2021	23 nov 2021
<i>HORIZON-CL3-2022-FCT-01-01: Improved crime scene investigations related to transfer, persistence and background abundance</i>	30 juin 2022	23 nov 2022

<i>HORIZON-CL3-2022-FCT-01-02: Better understanding the influence of organisational cultures and human interactions in the forensic context as well as a common lexicon</i>	30 juin 2022	23 nov 2022
---	--------------	-------------

Enhanced prevention, detection and deterrence of societal issues related to various forms of crime

<i>HORIZON-CL3-2021-FCT-01-06: Domestic and sexual violence are prevented and combated</i>	30 juin 2021	23 nov 2021
<i>HORIZON-CL3-2022-FCT-01-03: Enhanced fight against the abuse of online gaming culture by extremists</i>	30 juin 2022	23 nov 2022

Increased security of citizens against terrorism, including in public spaces

<i>HORIZON-CL3-2021-FCT-01-07: Improved preparedness on attacks to public spaces</i>	30 juin 2021	23 nov 2021
<i>HORIZON-CL3-2022-FCT-01-04: Public spaces are protected while respecting privacy and avoiding mass surveillance</i>	30 juin 2022	23 nov 2023

Organised crime prevented and combated

<i>HORIZON-CL3-2021-FCT-01-08: Fight against trafficking in cultural goods</i>	30 juin 2021	23 nov 2021
<i>HORIZON-CL3-2021-FCT-01-09: Fight against organised environmental crime</i>	30 juin 2021	23 nov 2021
<i>HORIZON-CL3-2021-FCT-01-10: Fight against firearms trafficking</i>	30 juin 2021	23 nov 2021
<i>HORIZON-CL3-2022-FCT-01-05: Effective fight against corruption</i>	30 juin 2022	23 nov 2022
<i>HORIZON-CL3-2022-FCT-01-06: Effective fight against illicit drugs production and trafficking</i>	30 juin 2022	23 nov 2022
<i>HORIZON-CL3-2022-FCT-01-07: Effective fight against trafficking in human beings</i>	30 juin 2022	23 nov 2022

Citizens are protected against cybercrime

<i>HORIZON-CL3-2021-FCT-01-11: Prevention of child sexual exploitation</i>	30 juin 2021	23 nov 2021
<i>HORIZON-CL3-2021-FCT-01-12: Online identity theft is countered</i>	30 juin 2021	23 nov 2021

Destination 2: Effective management of EU external borders (55,5 millions €)

Efficient border surveillance and maritime security

<i>HORIZON-CL3-2021-BM-01-01: Enhanced security and management of borders, maritime environment, activities and transport, by increased surveillance capability, including high altitude, long endurance aerial support</i>	30 juin 2021	23 nov 2021
---	--------------	-------------

<i>HORIZON-CL3-2022-BM-01-01: Improved underwater detection and control capabilities to protect maritime areas and sea harbours</i>	30 juin 2022	23 nov 2022
---	--------------	-------------

Secured and facilitated crossing of external borders

<i>HORIZON-CL3-2021-BM-01-02: Increased safety, security, performance of the European Border and Coast Guard and of European customs authorities</i>	30 juin 2021	23 nov 2021
<i>HORIZON-CL3-2021-BM-01-03: Improved border checks for travel facilitation across external borders and improved experiences for both passengers and border authorities' staff</i>	30 juin 2021	23 nov 2021
<i>HORIZON-CL3-2022-BM-01-02: Enhanced security of, and combating the frauds on, identity management and identity and travel documents</i>	30 juin 2022	23 nov 2022

Better customs and supply chain security

<i>HORIZON-CL3-2021-BM-01-04: Advanced detection of threats and illicit goods in postal and express courier flows</i>	30 juin 2021	23 nov 2021
<i>HORIZON-CL3-2021-BM-01-05: Improved detection of concealed objects on, and within the body of, persons</i>	30 juin 2021	23 nov 2021
<i>HORIZON-CL3-2022-BM-01-03: Better, more portable and quicker analysis and detection for customs</i>	30 juin 2022	23 nov 2022
<i>HORIZON-CL3-2022-BM-01-04: OPEN TOPIC</i>	30 juin 2022	23 nov 2022
<i>HORIZON-CL3-2022-BM-01-05: OPEN TOPIC</i>	30 juin 2022	23 nov 2022

Destination 3: Resilient Infrastructure (31 millions €)

Improved preparedness and response for large-scale disruptions of European infrastructures

<i>HORIZON-CL3-2021-INFRA-01-01: European infrastructures and their autonomy safeguarded against systemic risks</i>	30 juin 2021	23 nov 2021
<i>HORIZON-CL3-2021-INFRA-01-02: Ensured infrastructure resilience in case of Pandemics</i>	30 juin 2021	23 nov 2021

Resilient and secure smart cities

<i>HORIZON-CL3-2022-INFRA-01-01: Nature-based Solutions integrated to protect local infrastructure</i>	30 juin 2022	23 nov 2022
<i>HORIZON-CL3-2022-INFRA-01-02: Autonomous systems used for infrastructure protection</i>	30 juin 2022	23 nov 2022

+ Other actions

Study on Infrastructure Protection and Resilience

Destination 4: Increased Cybersecurity (134,8 millions €)

Secure and resilient digital infrastructures and interconnected systems

<i>HORIZON-CL3-2021-CS-01-01: Dynamic business continuity and recovery methodologies based on models and prediction for multi-level Cybersecurity</i>	30 juin 2021	21 oct 2021
<i>HORIZON-CL3-2022-CS-01-01: Improved monitoring of threats, intrusion detection and response in complex and heterogeneous digital systems and infrastructures</i>	30 juin 2022	16 nov 2022

Hardware, software and supply chain security

<i>HORIZON-CL3-2021-CS-01-02: Improved security in open-source and open-specification hardware for connected devices</i>	30 juin 2021	21 oct 2021
<i>HORIZON-CL3-2022-CS-01-02: Trustworthy methodologies, tools and data security "by design" for dynamic testing of potentially vulnerable, insecure hardware and software components</i>	30 juin 2022	16 nov 2022

Cybersecurity and disruptive technologies

<i>HORIZON-CL3-2021-CS-01-03: AI for cybersecurity reinforcement</i>	30 juin 2021	21 oct 2021
<i>HORIZON-CL3-2022-CS-01-03: Transition towards Quantum-Resistant Cryptography</i>	30 juin 2022	16 nov 2022

Smart and quantifiable security assurance and certification shared across Europe

<i>HORIZON-CL3-2022-CS-01-04: Development and validation of processes and tools used for agile certification of ICT products, ICT services and ICT processes</i>	30 juin 2022	16 nov 2022
--	--------------	-------------

Human-centric security, privacy and ethics

<i>HORIZON-CL3-2021-CS-01-04: Scalable privacy-preserving technologies for cross-border federated computation in Europe involving personal data</i>	30 juin 2021	21 oct 2021
---	--------------	-------------

Destination 5: A Disaster-Resilient Society for Europe (72 millions €)

Societal Resilience: Increased risk Awareness and preparedness of citizens

<i>HORIZON-CL3-2021-DRS-01-01: Improved understanding of risk exposure and its public awareness in areas exposed to multi-hazards</i>	30 juin 2021	23 nov 2021
<i>HORIZON-CL3-2022-DRS-01-01: Enhanced citizen preparedness in the event of a disaster or crisis-related emergency</i>	30 juin 2022	23 nov 2022
<i>HORIZON-CL3-2022-DRS-01-02: Enhanced preparedness and management of High-Impact Low-Probability or unexpected events</i>	30 juin 2022	23 nov 2022

<i>HORIZON-CL3-2022-DRS-01-03: Improved quality assurance / quality control of data used in decision-making related to risk management of natural hazards, accidents and CBRN events</i>	30 juin 2022	23 nov 2022
<i>HORIZON-CL3-2022-DRS-01-04: Better understanding of citizens' behavioural and psychological reactions in the event of a disaster or crisis situation</i>	30 juin 2022	23 nov 2022

Improved Disaster Risk Management and Governance

<i>HORIZON-CL3-2021-DRS-01-02: Integrated Disaster Risk Reduction for extreme climate events: from early warning systems to long term adaptation and resilience building</i>	30 juin 2021	23 nov 2021
<i>HORIZON-CL3-2021-DRS-01-03: Enhanced assessment of disaster risks, adaptive capabilities and scenario building based on available historical data and projections</i>	30 juin 2021	23 nov 2021
<i>HORIZON-CL3-2021-DRS-01-04: Developing a prioritisation mechanism for research programming in standardisation related to natural hazards and/or CBRN-E sectors</i>	30 juin 2021	23 nov 2021
<i>HORIZON-CL3-2022-DRS-01-05: Improved impact forecasting and early warning systems supporting the rapid deployment of first responders in vulnerable areas</i>	30 juin 2022	23 nov 2022
<i>HORIZON-CL3-2022-DRS-01-06: Improved disaster risk pricing assessment</i>	30 juin 2022	23 nov 2022

Strengthened capacities of first responders

<i>HORIZON-CL3-2021-DRS-01-05: Fast deployed mobile laboratories to enhance situational awareness for pandemics and emerging infectious diseases</i>	30 juin 2021	23 nov 2021
<i>HORIZON-CL3-2022-DRS-01-07: Improved international cooperation addressing first responder capability gaps</i>	30 juin 2022	23 nov 2022
<i>HORIZON-CL3-2022-DRS-01-08: Enhanced situational awareness and preparedness of first responders and improved capacities to minimise time-to-react in urban areas in the case of CBRN-E-related events</i>	30 juin 2022	23 nov 2022
<i>HORIZON-CL3-2022-DRS-01-09: Enhanced capacities of first responders more efficient rescue operations, including decontamination of infrastructures in the case of a CBRN-E event</i>	30 juin 2022	23 nov 2022

Destination 6: SSRI (Strengthened Security Research and Innovation) (25,5 millions €)

Stronger pillars of security Research and Innovation

<i>HORIZON-CL3-2021-SSRI-01-01: A maturity assessment framework for security technologies</i>	30 juin 2021	23 nov 2021
<i>HORIZON-CL3-2021-SSRI-01-02: Knowledge Networks for Security Research & Innovation</i>	30 juin 2021	23 nov 2021

<i>HORIZON-CL3-2021-SSRI-01-03: National Contact Points (NCPs) in the field of security and cybersecurity</i>	30 juin 2021	23 nov 2021
<i>HORIZON-CL3-2022-SSRI-01-01: Increased foresight capacity for security</i>	30 juin 2022	23 nov 2022
<i>HORIZON-CL3-2022-SSRI-01-02: Knowledge Networks for security Research & Innovation</i>	30 juin 2022	23 nov 2022

Increased Innovation uptake

<i>HORIZON-CL3-2021-SSRI-01-04: Demand-led innovation for situation awareness in civil protection</i>	30 juin 2021	23 nov 2021
<i>HORIZON-CL3-2022-SSRI-01-03: Stronger grounds for pre-commercial procurement of innovative security technologies</i>	30 juin 2022	23 nov 2022

Cross-cutting knowledge and value for common security solutions

<i>HORIZON-CL3-2021-SSRI-01-05: Security research technologies driven by active civil society engagement: transdisciplinary methods for societal impact assessment and impact creation</i>	30 juin 2021	23 nov 2021
<i>HORIZON-CL3-2022-SSRI-01-04: Social innovations as enablers of security solutions and increased security perception</i>	30 juin 2022	23 nov 2022

+ Other actions (6,92 millions €)

Workshops, conferences, etc.

Cluster 4 - Digital, Industry and Space

Destination 1: Climate neutral, circular and digitized production (737,5 millions €)

Twin Green and Digital transition - Green, flexible and advanced manufacturing

	Ouverture	Deadline
<i>HORIZON-CL4-2021-TWIN-TRANSITION-01-01: AI enhanced robotics systems for smart manufacturing (IA)</i>	22 Juin 2021	23 Sept 2021
<i>HORIZON-CL4-2021-TWIN-TRANSITION-01-02: Zero-defect manufacturing towards zero-waste (IA)</i>	22 Juin 2021	23 Sept 2021
<i>HORIZON-CL4-2021-TWIN-TRANSITION-01-03: Laser-based technologies for green manufacturing (RIA)</i>	22 Juin 2021	23 Sept 2021
<i>HORIZON-CL4-2021-TWIN-TRANSITION-01-05: Manufacturing technologies for bio-based materials (RIA)</i>	22 Juin 2021	23 Sept 2021
<i>HORIZON-CL4-2022-TWIN-TRANSITION-01-01: Rapid reconfigurable production process chains (IA)</i>	12 Oct 2021	13 Mars 2022
<i>HORIZON-CL4-2022-TWIN-TRANSITION-01-02: Products with complex functional surfaces (RIA)</i>	12 Oct 2021	13 Mars 2022

<i>HORIZON-CL4-2022-TWIN-TRANSITION-01-03: Excellence in distributed control and modular manufacturing (RIA)</i>	12 Oct 2021	13 Mars 2022
<i>HORIZON-CL4-2022-TWIN-TRANSITION-01-04: Intelligent work piece handling in a full production line (RIA)</i>	12 Oct 2021	13 Mars 2022

Twin Green and Digital transition - Advanced digital technologies for manufacturing

<i>HORIZON-CL4-2021-TWIN-TRANSITION-01-07: Artificial Intelligence for sustainable, agile manufacturing (IA)</i>	22 Juin 2021	23 Sept 2021
<i>HORIZON-CL4-2021-TWIN-TRANSITION-01-08: Data-driven Distributed Industrial Environments (IA)</i>	22 Juin 2021	23 Sept 2021
<i>HORIZON-CL4-2022-TWIN-TRANSITION-01-06: ICT Innovation for Manufacturing Sustainability in SMEs (I4MS2) (IA)</i>	12 Oct 2021	13 Mars 2022
<i>HORIZON-CL4-2022-TWIN-TRANSITION-01-07: Digital tools to support the engineering of a Circular Economy (RIA)</i>	12 Oct 2021	13 Mars 2022

Twin Green and Digital transition - A new way to build, accelerating disruptive change in construction

<i>HORIZON-CL4-2021-TWIN-TRANSITION-01-10: Digital permits and compliance checks for buildings and infrastructure (IA)</i>	22 Juin 2021	23 Sept 2021
<i>HORIZON-CL4-2021-TWIN-TRANSITION-01-11: Automated tools for the valorisation of construction waste (RIA)</i>	22 Juin 2021	23 Sept 2021
<i>HORIZON-CL4-2021-TWIN-TRANSITION-01-12: New breakthrough technologies for technological sovereignty in construction (IA)</i>	22 Juin 2021	23 Sept 2021
<i>HORIZON-CL4-2022-TWIN-TRANSITION-01-09: Demonstrate the use of Digital Logbook for buildings (IA)</i>	12 Oct 2021	13 Mars 2022

Twin Green and Digital transition - Hubs for circularity, a stepping stone towards climate neutrality and circularity in industry

<i>HORIZON-CL4-2021-TWIN-TRANSITION-01-14: Deploying industrial-urban symbiosis demonstrators for the utilisation of energy, water, industrial waste and by-products at regional scale (RIA)</i>	22 Juin 2021	23 Sept 2021
<i>HORIZON-CL4-2021-TWIN-TRANSITION-01-16: Hub for Circularity Community of Practice (ECoP) platform (CSA)</i>	22 Juin 2021	23 Sept 2021
<i>HORIZON-CL4-2022-TWIN-TRANSITION-01-10: Circular flows for solid waste in urban environment (IA)</i>	12 Oct 2021	13 Mars 2022

Twin Green and Digital transition - Enabling circularity of resources in the process industries, including waste, water and CO2/CO

<i>HORIZON-CL4-2021-TWIN-TRANSITION-01-17: Plastic waste as a circular carbon feedstock for industry (IA)</i>	22 Juin 2021	23 Sept 2021
---	--------------	--------------

<i>HORIZON-CL4-2021-TWIN-TRANSITION-01-18: Carbon Direct Avoidance in steel and other metals: Electricity and hydrogen-based metallurgy (IA)</i>	22 Juin 2021	23 Sept 2021
<i>HORIZON-CL4-2021-TWIN-TRANSITION-01-19: Improvement of the yield of the iron and steel making (IA)</i>	22 Juin 2021	23 Sept 2021
<i>HORIZON-CL4-2021-TWIN-TRANSITION-01-20: Reducing environmental footprint, improving circularity in extractive and processing value chains (IA)</i>	22 Juin 2021	23 Sept 2021
<i>HORIZON-CL4-2022-TWIN-TRANSITION-01-11: Valorisation of CO/CO2 streams into added-value products of market interest (IA)</i>	12 Oct 2021	13 Mars 2022
<i>HORIZON-CL4-2022-TWIN-TRANSITION-01-13: Raw material preparation for clean steel production (IA)</i>	12 Oct 2021	13 Mars 2022

Twin Green and Digital transition - Integration of Renewables and Electrification in process industry

<i>HORIZON-CL4-2021-TWIN-TRANSITION-01-21: Design and optimisation of energy flexible industrial processes (IA)</i>	22 Juin 2021	23 Sept 2021
<i>HORIZON-CL4-2021-TWIN-TRANSITION-01-22: Adjustment of Steel process production to prepare for the transition towards climate neutrality (IA)</i>	22 Juin 2021	23 Sept 2021
<i>HORIZON-CL4-2022-TWIN-TRANSITION-01-15: New electrochemical conversion routes for the production of chemicals and materials in process industries (RIA)</i>	12 Oct 2021	13 Mars 2022
<i>HORIZON-CL4-2022-TWIN-TRANSITION-01-16: Modular and hybrid heating technologies in steel production (IA)</i>	12 Oct 2021	13 Mars 2022
<i>HORIZON-CL4-2022-TWIN-TRANSITION-01-17: Integration of hydrogen for replacing fossil fuels in industrial applications (IA)</i>	12 Oct 2021	13 Mars 2022

Destination 2: Increased autonomy in key strategic value chains for resilient industry (776.4 millions €)

A digitized, resource-efficient and resilient industry - Novel paradigms to establish resilient and circular value chains

<i>HORIZON-CL4-2021-RESILIENCE-01-01: Ensuring circularity of composite materials (RIA)</i>	22 Juin 2021	23 Sept 2021
<i>HORIZON-CL4-2022-RESILIENCE-01-01: Circular and low emission value chains through digitalisation (RIA)</i>	12 Oct 2021	30 Mars 2022

A digitized, resource-efficient and resilient industry - Raw materials for EU strategic autonomy and successful transition to a climate-neutral and circular economy

<i>HORIZON-CL4-2021-RESILIENCE-01-03: Identifying future availability of secondary raw materials (RIA)</i>	22 Juin 2021	23 Sept 2021
<i>HORIZON-CL4-2021-RESILIENCE-01-04: Developing climate-neutral and circular raw materials (IA)</i>	22 Juin 2021	23 Sept 2021
<i>HORIZON-CL4-2021-RESILIENCE-01-05: Building EU-Africa partnerships on sustainable raw materials value chains (CSA)</i>	22 Juin 2021	23 Sept 2021

<i>HORIZON-CL4-2021-RESILIENCE-01-06: Innovation for responsible EU sourcing of primary raw materials, the foundation of the Green Deal (RIA)</i>	22 Juin 2021	23 Sept 2021
<i>HORIZON-CL4-2021-RESILIENCE-01-07: Building innovative value chains from raw materials to sustainable products (IA)</i>	22 Juin 2021	23 Sept 2021
<i>HORIZON-CL4-2022-RESILIENCE-01-02: Monitoring and supervising system for exploration and future exploitation activities in the deep sea (RIA)</i>	12 Oct 2021	30 Mars 2022
<i>HORIZON-CL4-2022-RESILIENCE-01-03: Streamlining cross-sectoral policy framework throughout the extractive life-cycle in environmentally protected areas (CSA)</i>	12 Oct 2021	30 Mars 2022
<i>HORIZON-CL4-2022-RESILIENCE-01-04: Developing digital platforms for the small scale extractive industry (RIA)</i>	12 Oct 2021	30 Mars 2022
<i>HORIZON-CL4-2022-RESILIENCE-01-05: Technological solutions for tracking raw material flows in complex supply chains (RIA)</i>	12 Oct 2021	30 Mars 2022
<i>HORIZON-CL4-2022-RESILIENCE-01-06: Sustainable and innovative mine of the future (IA)</i>	12 Oct 2021	30 Mars 2022
<i>HORIZON-CL4-2022-RESILIENCE-01-07: Innovative solutions for efficient use and enhanced recovery of mineral and metal by-products from processing of raw materials (IA)</i>	12 Oct 2021	30 Mars 2022
<i>HORIZON-CL4-2022-RESILIENCE-01-08: Earth observation technologies for the mining life cycle in support of EU autonomy and transition to a climate-neutral economy (RIA)</i>	12 Oct 2021	30 Mars 2022

A digitized, resource-efficient and resilient industry - Green and Sustainable Materials

<i>HORIZON-CL4-2021-RESILIENCE-01-08: Establishing EU wide sustainable-by-design materials community to support embedding sustainability criteria over the life cycle of products and processes (CSA)</i>	22 Juin 2021	23 Sept 2021
<i>HORIZON-CL4-2021-RESILIENCE-01-09: Promote Europe's availability, affordability, sustainability and security of supply of essential chemicals and materials (IA)</i>	22 Juin 2021	23 Sept 2021
<i>HORIZON-CL4-2021-RESILIENCE-01-10: Paving the way to an increased share of recycled plastics in added value products (RIA)</i>	22 Juin 2021	23 Sept 2021
<i>HORIZON-CL4-2021-RESILIENCE-01-11: Safe- and sustainable-by-design polymeric materials (RIA)</i>	22 Juin 2021	23 Sept 2021
<i>HORIZON-CL4-2021-RESILIENCE-01-12: Safe- and sustainable-by-design metallic coatings and engineered surfaces (RIA)</i>	22 Juin 2021	23 Sept 2021
<i>HORIZON-CL4-2022-RESILIENCE-01-10: Innovative materials for advanced nanoelectronic components and systems (RIA)</i>	12 Oct 2021	30 Mars 2022

<i>HORIZON-CL4-2022-RESILIENCE-01-11: Advanced lightweight materials for energy efficient structures (RIA)</i>	12 Oct 2021	30 Mars 2022
<i>HORIZON-CL4-2022-RESILIENCE-01-12: Functional multi-material components and structures (RIA)</i>	12 Oct 2021	30 Mars 2022
<i>HORIZON-CL4-2021-RESILIENCE-01-23: Safe- and sustainable-by-design organic and hybrid coatings (RIA)</i>	12 Oct 2021	30 Mars 2022

A digitized, resource-efficient and resilient industry - Materials for the benefit of society and the environment and materials for decarbonising Industry

<i>HORIZON-CL4-2021-RESILIENCE-01-14: Development of more energy efficient electrically heated catalytic reactors (IA)</i>	22 Juin 2021	23 Sept 2021
<i>HORIZON-CL4-2021-RESILIENCE-01-16: Creation of an innovation community for solar fuels and chemicals (CSA)</i>	22 Juin 2021	23 Sept 2021
<i>HORIZON-CL4-2021-RESILIENCE-01-17: Advanced materials for hydrogen storage (RIA)</i>	22 Juin 2021	23 Sept 2021
<i>HORIZON-CL4-2021-RESILIENCE-01-20: Antimicrobial, Antiviral, and Antifungal Nanocoatings (RIA)</i>	22 Juin 2021	23 Sept 2021
<i>HORIZON-CL4-2022-RESILIENCE-01-13: Smart and multifunctional biomaterials for health innovations (RIA)</i>	12 Oct 2021	30 Mars 2022
<i>HORIZON-CL4-2022-RESILIENCE-01-14: Membranes for gas separations - membrane distillation (IA)</i>	12 Oct 2021	30 Mars 2022
<i>HORIZON-CL4-2022-RESILIENCE-01-16: Building and renovating by exploiting advanced materials for energy and resources efficient management (IA)</i>	12 Oct 2021	30 Mars 2022
<i>HORIZON-CL4-2022-RESILIENCE-01-24: Novel materials for supercapacitor energy storage (RIA)</i>	12 Oct 2021	30 Mars 2022

A digitized, resource-efficient and resilient industry - Materials and data cross-cutting actions

<i>HORIZON-CL4-2021-RESILIENCE-01-25: Biomaterials database for Health Applications (CSA)</i>	22 Juin 2021	23 Sept 2021
<i>HORIZON-CL4-2021-RESILIENCE-01-26: Sustainable Industry Commons (RIA)</i>	22 Juin 2021	23 Sept 2021
<i>HORIZON-CL4-2022-RESILIENCE-01-19: Advanced materials modelling and characterization (RIA)</i>	12 Oct 2021	30 Mars 2022
<i>HORIZON-CL4-2022-RESILIENCE-01-20: Climate Neutral and Circular Innovative Materials Technologies Open Innovation Test Beds (IA)</i>	12 Oct 2021	30 Mars 2022
<i>HORIZON-CL4-2022-RESILIENCE-01-25: Optimised Industrial Systems and Lines through digitalisation (IA)</i>	12 Oct 2021	30 Mars 2022

A digitized, resource-efficient and resilient industry - Improving the resilience and preparedness of EU businesses, especially SMEs and Startups

<i>HORIZON-CL4-2021-RESILIENCE-01-27: Innovation Radar, Tech Due Diligence and Venture Building for strategic digital technologies (CSA)</i>	22 Juin 2021	23 Sept 2021
<i>HORIZON-CL4-2021-RESILIENCE-01-28: Re-opening industrial sites preparatory action – Promoting a sustainable strategy for Europe’s industrial future (CSA)</i>	22 Juin 2021	23 Sept 2021

<i>HORIZON-CL4-2021-RESILIENCE-01-29: 'Innovate to transform' support for SME's sustainability transition (IA)</i>	22 Juin 2021	23 Sept 2021
<i>HORIZON-CL4-2021-RESILIENCE-01-31: European Technological and Social Innovation Factory (RIA)</i>	22 Juin 2021	23 Sept 2021
<i>HORIZON-CL4-2021-RESILIENCE-02-32: Social and affordable housing district demonstrator (IA)</i>	16 sept 2021	25 janvier 2022
<i>HORIZON-CL4-2022-RESILIENCE-02-01-PCP: Boosting economic recovery and strategic autonomy in Strategic Digital Technologies through pre-commercial procurement (PCP action)</i>	12 Oct 2021	30 Mars 2022
<i>HORIZON-CL4-2022-RESILIENCE-01-21: Leveraging standardisation in Digital Technologies (CSA)</i>	12 Oct 2021	30 Mars 2022
<i>HORIZON-CL4-2022-RESILIENCE-01-26: 'Innovate to transform' support for SME's sustainability transition (CSA)</i>	12 Oct 2021	30 Mars 2022

Destination 3: World leading data and computing technologies (346 millions €)

Data sharing in the common European data spaces

<i>HORIZON-CL4-2021-DATA-01-01: Technologies and solutions for compliance, privacy preservation, green and responsible data operations (RIA)</i>	22 juin 2021	21 oct 2022
<i>HORIZON-CL4-2021-DATA-01-03: Technologies for data management (IA)</i>	22 juin 2021	21 oct 2022
<i>HORIZON-CL4-2022-DATA-01-04: Technologies and solutions for data trading, monetizing, exchange and interoperability (IA)</i>	23 Nov 2021	05 Avril 2022

Strengthening Europe's data analytics capacity

<i>HORIZON-CL4-2022-DATA-01-01: Methods for exploiting data and knowledge for extremely precise outcomes (analysis, prediction, decision support), reducing complexity and presenting insights in understandable way (RIA)</i>	23 Nov 2021	05 Avril 2022
<i>HORIZON-CL4-2022-DATA-01-05: Extreme data mining, aggregation and analytics technologies (RIA)</i>	23 Nov 2021	05 Avril 2022

From Cloud to Edge to IoT for European Data

<i>HORIZON-CL4-2021-DATA-01-05: Future European platforms for the Edge: Edge Operating Systems (RIA)</i>	22 juin 2021	21 oct 2022
<i>HORIZON-CL4-2021-DATA-01-07: Coordination and Support of the 'Cloud-Edge-IoT' domain (CSA)</i>	22 juin 2021	21 oct 2022
<i>HORIZON-CL4-2021-DATA-01-08: Roadmap for next generation computing and systems technologies (CSA)</i>	22 juin 2021	21 oct 2022
<i>HORIZON-CL4-2022-DATA-01-02: Cognitive Cloud: AI-enabled computing continuum from Cloud to Edge (RIA)</i>	23 Nov 2021	05 Avril 2022
<i>HORIZON-CL4-2022-DATA-01-03: Programming tools for decentralised intelligence and swarms (RIA)</i>	23 Nov 2021	05 Avril 2022

Destination 4: Digital and emerging technologies for competitiveness and fit for the Green Deal (606.4 millions €)

Ultra-low power processors

<i>HORIZON-CL4-2021-DIGITAL-EMERGING-01-01: Ultra-low-power, secure processors for edge computing (RIA)</i>	22 Juin 2021	21 Oct 2021
<i>HORIZON-CL4-2021-DIGITAL-EMERGING-01-05: Open Source Hardware for ultra-low-power, secure processors (CSA)</i>	22 Juin 2021	21 Oct 2021
<i>HORIZON-CL4-2022-DIGITAL-EMERGING-01-26: Open source for cloud-based services (RIA)</i>	23 Nov 2021	05 Apr 2022

European Innovation Leadership in Electronics

<i>HORIZON-CL4-2021-DIGITAL-EMERGING-01-31: Functional electronics for green and circular economy (RIA)</i>	22 Juin 2021	21 Oct 2021
<i>HORIZON-CL4-2022-DIGITAL-EMERGING-01-38: International cooperation in semi-conductors (CSA)</i>	23 Nov 2021	05 Apr 2022

European Innovation Leadership in Photonics

<i>HORIZON-CL4-2021-DIGITAL-EMERGING-01-06: Advanced optical communication components (IA)</i>	22 Juin 2021	21 Oct 2021
<i>HORIZON-CL4-2021-DIGITAL-EMERGING-01-07: Advanced Photonic Integrated Circuits (RIA)</i>	22 Juin 2021	21 Oct 2021
<i>HORIZON-CL4-2022-DIGITAL-EMERGING-01-03: Advanced multi-sensing systems (RIA)</i>	23 Nov 2021	05 Apr 2022

6G and foundational connectivity technologies

<i>HORIZON-CL4-2021-DIGITAL-EMERGING-01-26: Coordination of European Smart Network actions (CSA)</i>	22 Juin 2021	21 Oct 2021
<i>HORIZON-CL4-2022-DIGITAL-EMERGING-01-30: European enabling technologies for Beyond 5G/6G RAN disaggregated architectures (RIA)</i>	23 Nov 2021	05 Apr 2022
<i>HORIZON-CL4-2022-DIGITAL-EMERGING-01-39: Ultra low energy and secure networks (RIA)</i>	23 Nov 2021	05 Apr 2022

Innovation in AI, data and robotics

<i>HORIZON-CL4-2021-DIGITAL-EMERGING-01-09: AI, data and Robotics for the Green Deal (IA)</i>	22 Juin 2021	21 Oct 2021
<i>HORIZON-CL4-2021-DIGITAL-EMERGING-01-10: AI, data and Robotics at work (IA)</i>	22 Juin 2021	21 Oct 2021
<i>HORIZON-CL4-2022-DIGITAL-EMERGING-01-05: AI, data and robotics for Industry optimisation (including production and services) (IA)</i>	23 Nov 2021	05 Apr 2022

Tomorrow's deployable Robots: efficient, robust, safe, adaptive and trusted

<i>HORIZON-CL4-2021-DIGITAL-EMERGING-01-11: Pushing the limit of robotics cognition (RIA)</i>	22 Juin 2021	21 Oct 2021
---	--------------	-------------

<i>HORIZON-CL4-2021-DIGITAL-EMERGING-01-12: European Network of Excellence Centres in Robotics (RIA)</i>	22 Juin 2021	21 Oct 2021
<i>HORIZON-CL4-2022-DIGITAL-EMERGING-01-06: Pushing the limit of physical intelligence and performance (RIA)</i>	23 Nov 2021	05 Apr 2022
<i>HORIZON-CL4-2022-DIGITAL-EMERGING-01-07: Increased robotics capabilities demonstrated in key sectors (IA)</i>	23 Nov 2021	05 Apr 2022

European leadership in Emerging Enabling Technologies

<i>HORIZON-CL4-2021-DIGITAL-EMERGING-01-13: Academia-Industry Forum on Emerging Enabling Technologies (CSA)</i>	22 Juin 2021	21 Oct 2021
<i>HORIZON-CL4-2021-DIGITAL-EMERGING-01-14: Advanced spintronics: Unleashing spin in the next generation ICs (RIA)</i>	22 Juin 2021	21 Oct 2021
<i>HORIZON-CL4-2021-DIGITAL-EMERGING-01-27: Development of technologies/devices for bio-intelligent manufacturing (RIA)</i>	22 Juin 2021	21 Oct 2021
<i>HORIZON-CL4-2022-DIGITAL-EMERGING-01-35: Advanced characterisation methodologies to assess and predict the health and environmental risks of nanomaterials</i>	23 Nov 2021	05 Apr 2022

Flagship on Quantum Technologies: a Paradigm Shift

<i>HORIZON-CL4-2021-DIGITAL-EMERGING-01-21: Next generation quantum sensing technologies (RIA)</i>	22 Juin 2021	21 Oct 2021
<i>HORIZON-CL4-2021-DIGITAL-EMERGING-01-23: International cooperation with Canada (RIA)</i>	22 Juin 2021	21 Oct 2021
<i>HORIZON-CL4-2021-DIGITAL-EMERGING-01-30: Investing in new emerging quantum computing technologies (RIA)</i>	22 Juin 2021	21 Oct 2021
<i>HORIZON-CL4-2021-DIGITAL-EMERGING-01-32: Support and coordination of the Quantum Technologies Flagship Initiative (CSA)</i>	22 Juin 2021	21 Oct 2021
<i>HORIZON-CL4-2021-DIGITAL-EMERGING-02-15: Framework Partnership Agreement for developing the first large-scale quantum computers (FPA)</i>	28 Oct 2021	27 Janvier 2022
<i>HORIZON-CL4-2021-DIGITAL-EMERGING-02-16: Basic Science for Quantum Technologies</i>	28 Oct 2021	27 Janvier 2022
<i>HORIZON-CL4-2021-DIGITAL-EMERGING-02-17: Framework Partnership Agreement for developing large scale quantum simulation platform technologies (FPA)</i>	28 Oct 2021	27 Janvier 2022
<i>HORIZON-CL4-2021-DIGITAL-EMERGING-02-19: Framework Partnership Agreement in Quantum Communications (FPA)</i>	28 Oct 2021	27 Janvier 2022
<i>HORIZON-CL4-2021-DIGITAL-EMERGING-02-20: Quantum sensing technologies for market uptake (IA)</i>	28 Oct 2021	27 Janvier 2022
<i>HORIZON-CL4-2021-DIGITAL-EMERGING-02-22: Framework Partnership Agreements for open testing and</i>	28 Oct 2021	27 Janvier 2022

<i>experimentation and for pilot production capabilities for quantum technologies (FPA)</i>		
<i>HORIZON-CL4-2021-DIGITAL-EMERGING-02-10: Strengthening the quantum software ecosystem for quantum computing platforms (RIA)</i>	28 Oct 2021	27 Janvier 2022

Graphene: Europe in the lead

<i>HORIZON-CL4-2022-DIGITAL-EMERGING-02-17: New generation of advanced electronic and photonic 2D materials-based devices, systems and sensors (RIA)</i>	16 juin 2022	16 nov 2022
<i>HORIZON-CL4-2022-DIGITAL-EMERGING-02-18: 2D materials-based devices and systems for energy storage and/or harvesting (RIA)</i>	16 juin 2022	16 nov 2022
<i>HORIZON-CL4-2022-DIGITAL-EMERGING-02-19: 2D materials-based devices and systems for biomedical applications (RIA)</i>	16 juin 2022	16 nov 2022
<i>HORIZON-CL4-2022-DIGITAL-EMERGING-02-20: 2D-material-based composites, coatings and foams (IA)</i>	16 juin 2022	16 nov 2022
<i>HORIZON-CL4-2022-DIGITAL-EMERGING-02-22: Supporting the coordination of the Graphene Flagship projects (CSA)</i>	16 juin 2022	16 nov 2022

Destination 5: Open strategic autonomy in developing, deploying, and using global space-based infrastructures, services, applications and data (221.92 millions €)

Foster competitiveness of space systems

<i>HORIZON-CL4-2021-SPACE-01-11: End-to-end satellite communication systems and associated services</i>	28 Oct 2021	16 Fév 2022
<i>HORIZON-CL4-2021-SPACE-01-12: Future space ecosystems: on-orbit operations, new system concepts</i>	28 Oct 2021	16 Fév 2022
<i>HORIZON-CL4-2022-SPACE-01-11: Future space ecosystems: on-orbit operations, preparation of demonstrator mission</i>	28 Oct 2021	16 Fév 2022
<i>HORIZON-CL4-2022-SPACE-01-12: Technologies and generic building blocks for Electrical Propulsion</i>	28 Oct 2021	16 Fév 2022
<i>HORIZON-CL4-2022-SPACE-01-13: End-to-end Earth observation systems and associated services</i>	28 Oct 2021	16 Fév 2022

Reinforce EU capacity to access and use space

<i>HORIZON-CL4-2021-SPACE-01-21: Reusability for strategic space launchers - technologies and operation maturation including flight test demonstration</i>	28 Oct 2021	16 Fév 2022
<i>HORIZON-CL4-2021-SPACE-01-22: Low cost high thrust propulsion for strategic space launchers - technologies maturation including ground tests</i>	28 Oct 2021	16 Fév 2022
<i>HORIZON-CL4-2021-SPACE-01-23: New space transportation solutions and services</i>	28 Oct 2021	16 Fév 2022

<i>HORIZON-CL4-2022-SPACE-01-21: Multi sites flexible industrial platform and standardised technology for improving interoperability of EU access to space ground facilities</i>	28 Oct 2021	16 Fév 2022
--	-------------	-------------

Evolution of Copernicus services

<i>HORIZON-CL4-2021-SPACE-01-41: Copernicus Climate Change Service evolution</i>	28 Oct 2021	16 Fév 2022
<i>HORIZON-CL4-2021-SPACE-01-42: Copernicus Atmosphere Monitoring Service evolution</i>	28 Oct 2021	16 Fév 2022
<i>HORIZON-CL4-2021-SPACE-01-43: Copernicus Security and Emergency Services evolution</i>	28 Oct 2021	16 Fév 2022
<i>HORIZON-CL4-2021-SPACE-01-44: Copernicus evolution for cross-services thematic domains</i>	28 Oct 2021	16 Fév 2022
<i>HORIZON-CL4-2022-SPACE-01-41: Copernicus Marine Environment Monitoring Service evolution</i>	28 Oct 2021	16 Fév 2022
<i>HORIZON-CL4-2022-SPACE-01-42: Copernicus Anthropogenic CO₂ Emissions Monitoring & Verification Support (MVS) capacity</i>	28 Oct 2021	16 Fév 2022
<i>HORIZON-CL4-2022-SPACE-01-43: Copernicus Land Monitoring Service evolution</i>	28 Oct 2021	16 Fév 2022

Innovative space capabilities: SSA, Govsatcom, Quantum

<i>HORIZON-CL4-2021-SPACE-01-62: Quantum technologies for space gravimetry</i>	28 Oct 2021	16 Fév 2022
<i>HORIZON-CL4-2022-SPACE-01-62: Space Weather</i>	28 Oct 2021	16 Fév 2022
<i>HORIZON-CL4-2022-SPACE-01-72: Education and skills for the EU space sector</i>	28 Oct 2021	16 Fév 2022

Targeted and strategic actions supporting the EU space sector

<i>HORIZON-CL4-2021-SPACE-01-81: Space technologies for European non-dependence and competitiveness</i>	28 Oct 2021	16 Fév 2022
<i>HORIZON-CL4-2022-SPACE-01-81: Space technologies for European non-dependence and competitiveness</i>	28 Oct 2021	16 Fév 2022
<i>HORIZON-CL4-2022-SPACE-01-82: Space science and exploration technologies</i>	28 Oct 2021	16 Fév 2022

Destination 6: A human-centred and ethical development of digital and industrial technologies (327 millions €)

Leadership in AI based on trust

<i>HORIZON-CL4-2021-HUMAN-01-01: Verifiable robustness, energy efficiency and transparency for Trustworthy AI: Scientific excellence boosting industrial competitiveness (RIA)</i>	22 Juin 2021	21 Oct 2021
<i>HORIZON-CL4-2021-HUMAN-01-02: European coordination, awareness, standardisation & adoption of trustworthy European AI, Data and Robotics (CSA)</i>	22 Juin 2021	21 Oct 2021

<i>HORIZON-CL4-2021-HUMAN-01-03: European Network of AI Excellence Centres: Pillars of the European AI lighthouse (RIA)</i>	22 Juin 2021	21 Oct 2021
<i>HORIZON-CL4-2021-HUMAN-01-24: Tackling gender, race and other biases in AI (RIA)</i>	22 Juin 2021	21 Oct 2021
<i>HORIZON-CL4-2021-HUMAN-01-27: AI to fight disinformation (RIA)</i>	22 Juin 2021	21 Oct 2021
<i>HORIZON-CL4-2022-HUMAN-01-01: AI for human empowerment (RIA)</i>	23 Nov 2021	05 Apr 2022
<i>HORIZON-CL4-2022-HUMAN-01-02: European Network of AI Excellence Centres: Expanding the European AI lighthouse (RIA)</i>	23 Nov 2021	05 Apr 2022

An Internet of Trust

<i>HORIZON-CL4-2021-HUMAN-01-04: Trust & data sovereignty on the Internet (RIA)</i>	22 Juin 2021	21 Oct 2021
<i>HORIZON-CL4-2021-HUMAN-01-05: Trustworthy open search and discovery (RIA)</i>	22 Juin 2021	21 Oct 2021
<i>HORIZON-CL4-2021-HUMAN-01-07: Next Generation Internet community-building and outreach (CSA)</i>	22 Juin 2021	21 Oct 2021
<i>HORIZON-CL4-2021-HUMAN-01-08: NGI International Collaboration - Transatlantic fellowship programme (CSA)</i>	22 Juin 2021	21 Oct 2021
<i>HORIZON-CL4-2021-HUMAN-01-09: NGI Tech Review (CSA)</i>	22 Juin 2021	21 Oct 2021
<i>HORIZON-CL4-2022-HUMAN-01-03: Internet architecture and decentralised technologies (RIA)</i>	23 Nov 2021	05 Apr 2022
<i>HORIZON-CL4-2022-HUMAN-01-05: Next Generation Safer Internet: Technologies to identify digital Child Sexual Abuse Material (CSAM)</i>	23 Nov 2021	05 Apr 2022
<i>HORIZON-CL4-2022-HUMAN-01-07: NGI International Collaboration – USA and Canada (RIA)</i>	23 Nov 2021	05 Apr 2022

eXtended Reality (XR)

<i>HORIZON-CL4-2021-HUMAN-01-13: eXtended Reality Modelling (RIA)</i>	22 Juin 2021	21 Oct 2021
<i>HORIZON-CL4-2021-HUMAN-01-14: eXtended Reality for All – Haptics (RIA)</i>	22 Juin 2021	21 Oct 2021
<i>HORIZON-CL4-2021-HUMAN-01-25: eXtended Collaborative Telepresence (IA - FSTP)</i>	22 Juin 2021	21 Oct 2021
<i>HORIZON-CL4-2021-HUMAN-01-06: Innovation for Media, including eXtended Reality (IA)</i>	22 Juin 2021	21 Oct 2021
<i>HORIZON-CL4-2021-HUMAN-01-28: eXtended Reality Ethics, Interoperability and Impact (CSA)</i>	22 Juin 2021	21 Oct 2021
<i>HORIZON-CL4-2022-HUMAN-01-14: eXtended Reality Technologies (RIA)</i>	23 Nov 2021	05 Apr 2022
<i>HORIZON-CL4-2022-HUMAN-01-19: eXtended Reality Learning - Engage and Interact</i>	23 Nov 2021	05 Apr 2022

Systemic approaches to make the most of the technologies within society and industry

<i>HORIZON-CL4-2021-HUMAN-01-17: Awareness raising on Intellectual property (IP) management for European R&I (CSA)</i>	22 Juin 2021	21 Oct 2021
<i>HORIZON-CL4-2021-HUMAN-01-18: Fostering standardisation to boost European industry's competitiveness (CSA)</i>	22 Juin 2021	21 Oct 2021
<i>HORIZON-CL4-2021-HUMAN-01-19: Testing innovative solutions on local communities'-demand (IA)</i>	22 Juin 2021	21 Oct 2021
<i>HORIZON-CL4-2021-HUMAN-01-20: Piloting a new industry-academy knowledge exchange focussing on companies' needs (CSA)</i>	22 Juin 2021	21 Oct 2021
<i>HORIZON-CL4-2021-HUMAN-01-21: Art-driven use experiments and design (RIA)</i>	22 Juin 2021	21 Oct 2021
<i>HORIZON-CL4-2021-HUMAN-01-29: Support for National Contact Points in the thematic area of Digital</i>	22 Juin 2021	21 Oct 2021
<i>HORIZON-CL4-2021-HUMAN-01-30: Support for National Contact Points in the thematic area of Industry</i>	22 Juin 2021	21 Oct 2021
<i>HORIZON-CL4-2021-HUMAN-01-31: Support for National Contact Points in the thematic area of Space</i>	22 Juin 2021	21 Oct 2021
<i>HORIZON-CL4-2021-HUMAN-01-26: Workforce skills for industry 5.0 (RIA)</i>	22 Juin 2021	21 Oct 2021

+ Other actions

Quantum technologies, Prizes for space applications, space technology products and services (calls managed by ESA or EUSPA on EGNSS, GOVSATCOM, CASSINI, etc.), public procurement, support to conferences, etc.

Cluster 5 - Climate, Energy and Mobility

Destination 1: Climate sciences and responses for the transformation towards climate neutrality (274 millions €)

	Ouverture	Deadline
<i>HORIZON-CL5-2021-D1-01-01: Improved understanding of greenhouse gas fluxes and radiative forcers, including carbon dioxide removal technologies</i>	24 Juin 2021	14 Sep 2021
<i>HORIZON-CL5-2021-D1-01-02: Modelling the role of the circular economy for climate change mitigation</i>	24 Juin 2021	14 Sep 2021
<i>HORIZON-CL5-2021-D1-01-03: Maximising the impact and synergy of European climate change research and innovation</i>	24 Juin 2021	14 Sep 2021
<i>HORIZON-CL5-2021-D1-01-04: Enhanced integrated assessment in pursuit of global climate goals</i>	24 Juin 2021	14 Sep 2021
<i>HORIZON-CL5-2021-D1-01-05: Better understanding of the interactions between climate change impacts and risks, mitigation and adaptation options</i>	24 Juin 2021	14 Sep 2021
<i>HORIZON-CL5-2021-D1-01-06: Supporting and standardising climate services</i>	24 Juin 2021	14 Sep 2021

<i>HORIZON-CL5-2021-D1-01-07: Improved economic methods for decision-making on climate and environmental policies</i>	24 Juin 2021	14 Sep 2021
<i>HORIZON-CL5-2021-D1-01-08: Restoration of natural wetlands, peatlands and floodplains as a strategy for fast mitigation benefits; pathways, trade-offs and co-benefits</i>	24 Juin 2021	14 Sep 2021
<i>HORIZON-CL5-2021-D1-01-09: The contribution of forest management to climate action: pathways, trade-offs and co-benefits</i>	24 Juin 2021	14 Sep 2021
<i>HORIZON-CL5-2022-D1-01-01-two-stage: Carbon Dioxide Removal (CDR) approaches</i>	12 Oct 2021	10 Feb 2022 (First Stage), 27 Sep 2022 (Second Stage)
<i>HORIZON-CL5-2022-D1-01-02-two-stage: Socio-economic risks of climate change in Europe</i>	12 Oct 2021	10 Feb 2022 (First Stage), 27 Sep 2022 (Second Stage)
<i>HORIZON-CL5-2022-D1-01-03-two-stage: Social science for land-use strategies in the context of climate change and biodiversity challenges</i>	12 Oct 2021	10 Feb 2022 (First Stage), 27 Sep 2022 (Second Stage)
<i>HORIZON-CL5-2022-D1-02-01: Verification and reconciliation of estimates of climate forcers</i>	12 Oct 2021	10 Feb 2022
<i>HORIZON-CL5-2022-D1-02-02: Development of high-resolution Earth system models for global and regional climate change projections</i>	12 Oct 2021	10 Feb 2022
<i>HORIZON-CL5-2022-D1-02-03: Improvement of Integrated Assessment Models in support of climate policies</i>	12 Oct 2021	10 Feb 2022
<i>HORIZON-CL5-2022-D1-02-04: Supporting the formulation of adaptation strategies through improved climate predictions in Europe and beyond</i>	12 Oct 2021	10 Feb 2022
<i>HORIZON-CL5-2022-D1-02-05: Let nature help do the job: Rewilding landscapes for carbon sequestration, climate adaptation and biodiversity support</i>	12 Oct 2021	10 Feb 2022

Destination 2: Cross-sectoral solutions for the climate transition (388.5 millions €)

Batteries

<i>HORIZON-CL5-2021-D2-01-01: Sustainable processing, refining and recycling of raw materials (Batteries Partnership)</i>	24 Juin 2021	19 Oct 2021
<i>HORIZON-CL5-2021-D2-01-02: Advanced high-performance Generation 3b (high capacity / high voltage) Li-ion batteries supporting electro mobility and other applications (Batteries Partnership)</i>	24 Juin 2021	19 Oct 2021
<i>HORIZON-CL5-2021-D2-01-03: Advanced high-performance Generation 4a, 4b (solid-state) Li-ion batteries supporting electro mobility and other applications (Batteries Partnership)</i>	24 Juin 2021	19 Oct 2021
<i>HORIZON-CL5-2021-D2-01-04: Environmentally sustainable processing techniques applied to large scale</i>	24 Juin 2021	19 Oct 2021

<i>electrode and cell component manufacturing for Li ion batteries (Batteries Partnership)</i>		
<i>HORIZON-CL5-2021-D2-01-05: Manufacturing technology development for solid-state batteries (SSB, Generations 4a - 4b batteries) (Batteries Partnership)</i>	24 Juin 2021	19 Oct 2021
<i>HORIZON-CL5-2021-D2-01-06: Sustainable, safe and efficient recycling processes (Batteries Partnership)</i>	24 Juin 2021	19 Oct 2021
<i>HORIZON-CL5-2021-D2-01-07: Support for establishment of R&I ecosystem, developing strategic forward-looking orientations to ensure future skills development, knowledge and technological leadership for accelerated disruptive technology exploration and uptake (Batteries Partnership)</i>	24 Juin 2021	19 Oct 2021
<i>HORIZON-CL5-2022-D2-01-01: Sustainable processing and refining of battery grade graphite (Batteries Partnership)</i>	28 Apr 2022	06 Sep 2022
<i>HORIZON-CL5-2022-D2-01-02: Interface and electron monitoring for the engineering of new and emerging battery technologies (Batteries Partnership)</i>	28 Apr 2022	06 Sep 2022
<i>HORIZON-CL5-2022-D2-01-03: Furthering the development of a materials acceleration platform for sustainable batteries (combining AI, big data, autonomous synthesis robotics, high throughput testing) (Batteries Partnership)</i>	28 Apr 2022	06 Sep 2022
<i>HORIZON-CL5-2022-D2-01-04: Towards creating an integrated manufacturing value chain in Europe: from machinery development to plant and site integrated design (Batteries Partnership)</i>	28 Apr 2022	06 Sep 2022
<i>HORIZON-CL5-2022-D2-01-05: Next generation technologies for High-performance and safe-by-design battery systems for transport and mobile applications (Batteries Partnership)</i>	28 Apr 2022	06 Sep 2022
<i>HORIZON-CL5-2022-D2-01-06: Embedding smart functionalities into battery cells (embedding sensing and self-healing functionalities to monitor and self-repair battery cells) (Batteries Partnership)</i>	28 Apr 2022	06 Sep 2022
<i>HORIZON-CL5-2022-D2-01-07: Digitalisation of battery testing, from cell to system level, including lifetime assessment (Batteries Partnership)</i>	28 Apr 2022	06 Sep 2022
<i>HORIZON-CL5-2022-D2-01-08: Coordination of large-scale initiative on future battery technologies (Batteries Partnership)</i>	28 Apr 2022	06 Sep 2022
<i>HORIZON-CL5-2022-D2-01-09: Physics and data-based battery management for optimised battery utilisation (Batteries Partnership)</i>	28 Apr 2022	06 Sep 2022
<i>HORIZON-CL5-2022-D2-01-10: Streamlined collection and reversed logistics, fully automated, safe and cost-efficient sorting, dismantling and second use before recycling (Batteries Partnership)</i>	28 Apr 2022	06 Sep 2022

Emerging breakthrough technologies and climate solutions

<i>HORIZON-CL5-2021-D2-01-08: Emerging technologies for a climate neutral Europe</i>	24 Juin 2021	19 Oct 2021
<i>HORIZON-CL5-2021-D2-01-09: Methane cracking to usable hydrogen and carbon</i>	24 Juin 2021	19 Oct 2021
<i>HORIZON-CL5-2021-D2-01-10: Technologies for non-CO2 greenhouse gases removal</i>	24 Juin 2021	19 Oct 2021
<i>HORIZON-CL5-2021-D2-01-11: Direct atmospheric carbon capture and conversion</i>	24 Juin 2021	19 Oct 2021

Citizens and stakeholder engagement

<i>HORIZON-CL5-2021-D2-01-12: Fostering a just transition in Europe</i>	24 Juin 2021	19 Oct 2021
<i>HORIZON-CL5-2021-D2-01-13: Strengthening Social Sciences and Humanities (SSH) research communities in climate, energy and mobility disciplines</i>	24 Juin 2021	19 Oct 2021
<i>HORIZON-CL5-2021-D2-01-14: Accelerating the climate transition in difficult contexts: transition super-labs (pilot)</i>	24 Juin 2021	19 Oct 2021
<i>HORIZON-CL5-2021-D2-01-15: Fostering cooperation between Horizon Europe cluster 5 National Contact Points (NCPs)</i>	24 Juin 2021	19 Oct 2021

Communities and cities

<i>HORIZON-CL5-2021-D2-01-16: Co-Funded Partnership: Driving Urban Transitions to a sustainable future (DUT)</i>	24 Juin 2021	19 Oct 2021
<i>HORIZON-CL5-2022-D2-01-11: CIVITAS 2030 – Coordination and support for EU funded urban mobility innovation</i>	28 Apr 2022	06 Sep 2022

Destination 3: Sustainable, secure and competitive energy supply -2021-2024 (1 226.3 million €)

Global leadership in renewable energy

<i>HORIZON-CL5-2021-D3-02-01: Demonstration of wave energy devices to increase experience in real sea condition</i>	24 Juin 2021	5 Janv 2021
<i>HORIZON-CL5-2021-D3-02-02: Sustainability and educational aspects for renewable energy and fuel technologies</i>	24 Juin 2021	5 Janv 2021
<i>HORIZON-CL5-2021-D3-02-03: Market Uptake Measures of renewable energy systems</i>	24 Juin 2021	5 Janv 2021
<i>HORIZON-CL5-2021-D3-02-04: Novel tandem, high efficiency Photovoltaic technologies targeting low cost production with earth abundant materials</i>	24 Juin 2021	5 Janv 2021
<i>HORIZON-CL5-2021-D3-03-01: AU-EU Water Energy Food Nexus</i>	02 Sep 2021	23 Février 2022
<i>HORIZON-CL5-2021-D3-03-02: Next generation of renewable energy technologies</i>	02 Sep 2021	23 Février 2022

<i>HORIZON-CL5-2021-D3-03-03: Hybrid catalytic conversion of renewable energy to carbon-neutral fuels</i>	02 Sep 2021	23 Février 2022
<i>HORIZON-CL5-2021-D3-03-04: Physics and aerodynamics of atmospheric flow of wind for power production</i>	02 Sep 2021	23 Février 2022
<i>HORIZON-CL5-2021-D3-03-05: Wind energy in the natural and social environment</i>	02 Sep 2021	23 Février 2022
<i>HORIZON-CL5-2021-D3-03-06: Novel approaches to concentrated solar power (CSP)</i>	02 Sep 2021	23 Février 2022
<i>HORIZON-CL5-2021-D3-03-07: Stable high performance Perovskite Photovoltaics</i>	02 Sep 2021	23 Février 2022
<i>HORIZON-CL5-2021-D3-03-08: Cost-effective micro-CHP and hybrid heating systems</i>	02 Sep 2021	23 Février 2022
<i>HORIZON-CL5-2021-D3-03-09: Carbon-negative sustainable biofuel production</i>	02 Sep 2021	23 Février 2022
<i>HORIZON-CL5-2021-D3-03-10: Innovative foundations, floating substructures and connection systems for floating PV and ocean energy devices</i>	02 Sep 2021	23 Février 2022
<i>HORIZON-CL5-2021-D3-03-11: Development of hydropower equipment for hidden hydropower</i>	02 Sep 2021	23 Février 2022
<i>HORIZON-CL5-2021-D3-03-12: Innovation on floating wind energy deployment optimized for deep waters and different sea basins (Mediterranean Sea, Black Sea, Baltic Sea, North-east Atlantic Ocean)</i>	02 Sep 2021	23 Février 2022
<i>HORIZON-CL5-2021-D3-03-13: Demonstration pilot lines for alternative and innovative PV technologies (Novel c-Si tandem, thin film tandem, bifacial, CPV, etc.)</i>	02 Sep 2021	23 Février 2022
<i>HORIZON-CL5-2021-D3-03-14: Demonstration of large-scale CHP technologies for a shift to the use of biogenic residues and wastes</i>	02 Sep 2021	23 Février 2022
<i>HORIZON-CL5-2021-D3-03-15: Solutions for more sustainable geothermal energy</i>	02 Sep 2021	23 Février 2022
<i>HORIZON-CL5-2021-D3-03-16: Innovative biomethane production as an energy carrier and a fuel</i>	02 Sep 2021	23 Février 2022
<i>HORIZON-CL5-2022-D3-01-01: Demonstration of cost-effective advanced biofuel technologies utilizing existing industrial plants</i>	14 Oct 2021	26 Avril 2022
<i>HORIZON-CL5-2022-D3-01-02: Demonstration of innovative materials, supply cycles, recycling technologies to increase the overall circularity of wind energy technology and to reduce the primary use of critical raw materials</i>	14 Oct 2021	26 Avril 2022
<i>HORIZON-CL5-2022-D3-01-03: Advanced manufacturing of Integrated PV</i>	14 Oct 2021	26 Avril 2022
<i>HORIZON-CL5-2022-D3-01-04: Demonstrate the use of high temperature geothermal reservoirs to provide energy storage for the energy system</i>	14 Oct 2021	26 Avril 2022
<i>HORIZON-CL5-2022-D3-01-05: Demonstration of innovative plug-and play solutions for system</i>	14 Oct 2021	26 Avril 2022

<i>management and renewables storage in off-grid applications</i>		
<i>HORIZON-CL5-2022-D3-01-06: Novel Agro-Photovoltaic systems</i>	14 Oct 2021	26 Avril 2022
<i>HORIZON-CL5-2022-D3-01-07: Demonstration of innovative rotor, blades and control systems for tidal energy devices</i>	14 Oct 2021	26 Avril 2022
<i>HORIZON-CL5-2022-D3-02-01: Digital solutions for defining synergies in international renewable energy value chains</i>	26 May 2022	27 Oct 2022
<i>HORIZON-CL5-2022-D3-02-02: AU-EU Energy System Modelling</i>	26 May 2022	27 Oct 2022
<i>HORIZON-CL5-2022-D3-02-03: Innovative renewable energy carrier production for heating from renewable energies</i>	26 May 2022	27 Oct 2022
<i>HORIZON-CL5-2022-D3-02-04: Technological interfaces between solar fuel technologies and other renewables</i>	26 May 2022	27 Oct 2022
<i>HORIZON-CL5-2022-D3-02-05: Renewable energy carriers from variable renewable electricity surplus and carbon emissions from energy consuming sectors</i>	26 May 2022	27 Oct 2022
<i>HORIZON-CL5-2022-D3-02-06: Direct renewable energy integration into process energy demands of the chemical industry</i>	26 May 2022	27 Oct 2022
<i>HORIZON-CL5-2022-D3-02-07: Renewable energy incorporation in agriculture and forestry</i>	26 May 2022	27 Oct 2022
<i>HORIZON-CL5-2022-D3-02-08: Demonstration of complete value chains for advanced biofuel and non-biological renewable fuel production</i>	26 May 2022	27 Oct 2022
<i>HORIZON-CL5-2022-D3-03-01: Innovative components and/or sub-systems for CSP plants and/or concentrating solar thermal installations</i>	06 Sep 2022	10 Jan 2023
<i>HORIZON-CL5-2022-D3-03-02: Best international practice for scaling up sustainable biofuels</i>	06 Sep 2022	10 Jan 2023
<i>HORIZON-CL5-2022-D3-03-03: Efficient and circular artificial photosynthesis</i>	06 Sep 2022	10 Jan 2023
<i>HORIZON-CL5-2022-D3-03-04: Integrated wind farm control</i>	06 Sep 2022	10 Jan 2023
<i>HORIZON-CL5-2022-D3-03-05: Novel Thin Film (TF) technologies targeting high efficiencies</i>	06 Sep 2022	10 Jan 2023
<i>HORIZON-CL5-2022-D3-03-06: Efficient and low-emission technologies for industrial use of combustion and gasification systems from low-value biogenic residues and wastes</i>	06 Sep 2022	10 Jan 2023
<i>HORIZON-CL5-2022-D3-03-07: Development of algal and renewable fuels of non-biological origin</i>	06 Sep 2022	10 Jan 2023
<i>HORIZON-CL5-2022-D3-03-08: Development of digital solutions for existing hydropower operation and maintenance</i>	06 Sep 2022	10 Jan 2023
<i>HORIZON-CL5-2022-D3-03-09: Recycling end of life PV module</i>	06 Sep 2022	10 Jan 2023

Energy systems, grids and storage

<i>HORIZON-CL5-2021-D3-01-01: Establish the grounds for a common European energy data space</i>	24 Juin 2021	19 Oct 2021
<i>HORIZON-CL5-2021-D3-01-02: Laying down the basis for the demonstration of a Real Time Demonstrator of Multi-Vendor Multi-Terminal HVDC with Grid Forming Capability: Coordinated action)</i>	24 Juin 2021	19 Oct 2021
<i>HORIZON-CL5-2021-D3-01-03: Interoperability community</i>	24 Juin 2021	19 Oct 2021
<i>HORIZON-CL5-2021-D3-02-05: Energy Sector Integration: Integrating and combining energy systems to a cost-optimised and flexible energy system of systems</i>	24 Juin 2021	5 Janv 2021
<i>HORIZON-CL5-2021-D3-02-06: Increasing energy system flexibility based on sector-integration services to consumers (that benefits system management by DSOs and TSOs)</i>	24 Juin 2021	5 Janv 2021
<i>HORIZON-CL5-2021-D3-02-07: Reliability and resilience of the grid: Measures for cybersecurity, vulnerabilities, failures, risks and privacy</i>	24 Juin 2021	5 Janv 2021
<i>HORIZON-CL5-2021-D3-02-08: Electricity system reliability and resilience by design: High-Voltage, Direct Current (HVDC)-based systems and solutions</i>	24 Juin 2021	5 Janv 2021
<i>HORIZON-CL5-2021-D3-02-09: Demonstration of superconducting systems and elpipes</i>	24 Juin 2021	5 Janv 2021
<i>HORIZON-CL5-2021-D3-02-10: Demonstration of advanced Power Electronics for application in the energy sector</i>	24 Juin 2021	5 Janv 2021
<i>HORIZON-CL5-2021-D3-02-11: Reinforcing digitalisation related know how of local energy ecosystems</i>	24 Juin 2021	5 Janv 2021
<i>HORIZON-CL5-2022-D3-01-08: Supporting the action of consumers in the energy market and guide them to act as prosumers, communities and other active forms of active participation in the energy activities</i>	14 Oct 2021	26 Avril 2022
<i>HORIZON-CL5-2022-D3-01-09: Real Time Demonstrator of Multi-Vendor Multi-Terminal VSC-HVDC with Grid Forming Capability (in support of the offshore strategy)</i>	14 Oct 2021	26 Avril 2022
<i>HORIZON-CL5-2022-D3-01-10: Interoperable solutions for flexibility services using distributed energy storage</i>	14 Oct 2021	26 Avril 2022
<i>HORIZON-CL5-2022-D3-01-11: Demonstration of innovative forms of storage and their successful operation and integration into innovative energy systems and grid architectures</i>	14 Oct 2021	26 Avril 2022
<i>HORIZON-CL5-2022-D3-01-12: Replicable solutions for a cross sector compliant energy ecosystem</i>	14 Oct 2021	26 Avril 2022
<i>HORIZON-CL5-2022-D3-01-13: Energy system modelling, optimisation and planning tools</i>	14 Oct 2021	26 Avril 2022
<i>HORIZON-CL5-2022-D3-01-14: Thermal energy storage solutions</i>	14 Oct 2021	26 Avril 2022

Carbon capture, utilisation and storage (CCUS)

<i>HORIZON-CL5-2021-D3-02-12: Integration of CCUS in hubs and clusters, including knowledge sharing activities</i>	24 Juin 2021	5 Janv 2021
<i>HORIZON-CL5-2021-D3-02-13: Cost reduction of CO2 capture (new or improved technologies)</i>	24 Juin 2021	5 Janv 2021
<i>HORIZON-CL5-2022-D3-01-15: Decarbonising industry with CCUS</i>	14 Oct 2021	26 Avril 2022

Cross-cutting issues

<i>HORIZON-CL5-2021-D3-01-04: Clean Energy Transition</i>	24 Juin 2021	19 Oct 2021
<i>HORIZON-CL5-2021-D3-02-14: Support to the activities of the European Geological Services</i>	24 Juin 2021	5 Janv 2021
<i>HORIZON-CL5-2021-D3-02-15: Support to the activities of the ETIPs and technology areas of the SET-Plan</i>	24 Juin 2021	5 Janv 2021

Destination 4: Efficient, sustainable and inclusive energy use (244 million €)

Highly energy-efficient and climate neutral EU building stock

<i>HORIZON-CL5-2021-D4-01-01: Advanced energy performance assessment and certification</i>	24 Juin 2021	19 Oct 2021
<i>HORIZON-CL5-2021-D4-01-02: Industrialisation of deep renovation workflows for energy-efficient buildings</i>	26 Avril 2022	26 Avril 2022
<i>HORIZON-CL5-2021-D4-01-03: Advanced data-driven monitoring of building stock energy performance</i>	26 Avril 2022	26 Avril 2022
<i>HORIZON-CL5-2021-D4-02-01: Demonstrating integrated technology solutions for buildings with performance guarantees (Built4People)</i>	02 Sep 2021	25 Jan 2022
<i>HORIZON-CL5-2021-D4-02-02: Cost-effective, sustainable multi-functional and/or prefabricated holistic renovation packages, integrating RES and including re-used and recycled materials (Built4People)</i>	02 Sep 2021	25 Jan 2022
<i>HORIZON-CL5-2021-D4-02-03: Strengthening European coordination and exchange for innovation uptake towards sustainability, quality, circularity and social inclusion in the built environment as a contribution to the new European Bauhaus (Built4People)</i>	02 Sep 2021	25 Jan 2022
<i>HORIZON-CL5-2022-D4-01-01: Demand response in energy-efficient residential buildings</i>	28 Apr 2022	06 Sep 2022
<i>HORIZON-CL5-2022-D4-01-02: Renewable-intensive, energy positive homes</i>	28 Apr 2022	06 Sep 2022
<i>HORIZON-CL5-2022-D4-01-03: Smarter buildings for better energy performance</i>	28 Apr 2022	06 Sep 2022
<i>HORIZON-CL5-2022-D4-02-01: Designs, materials and solutions to improve resilience, preparedness & responsiveness of the built environment for climate adaptation (Built4People)</i>	06 Sep 2022	24 Jan 2023
<i>HORIZON-CL5-2022-D4-02-02: Solutions for the sustainable, resilient, inclusive and accessible</i>	06 Sep 2022	24 Jan 2023

<i>regeneration of neighbourhoods enabling low carbon footprint lifestyles and businesses (Built4People)</i>		
<i>HORIZON-CL5-2022-D4-02-03: Sustainable and resource-efficient solutions for an open, accessible, inclusive, resilient and low-emission cultural heritage: prevention, monitoring, management, maintenance, and renovation (Built4People)</i>	06 Sep 2022	24 Jan 2023
<i>HORIZON-CL5-2022-D4-02-04: Smart-grid ready and smart-network ready buildings, acting as active utility nodes (Built4People)</i>	06 Sep 2022	24 Jan 2023
<i>HORIZON-CL5-2022-D4-02-05: More sustainable buildings with reduced embodied energy / carbon, high life-cycle performance and reduced life-cycle costs (Built4People)</i>	06 Sep 2022	24 Jan 2023

Industrial facilities in the energy transition

<i>HORIZON-CL5-2021-D4-01-04: Full-scale demonstration of heat upgrade technologies with supply temperature in the range 90 - 160°C</i>	26 Avril 2022	26 Avril 2022
<i>HORIZON-CL5-2021-D4-01-05: Industrial excess (waste) Heat-to-Power conversion based on organic Rankine cycles</i>	26 Avril 2022	26 Avril 2022
<i>HORIZON-CL5-2022-D4-01-04: Development and pilot demonstration of heat upgrade technologies with supply temperature in the range 150-250°C</i>	28 Apr 2022	06 Sep 2022
<i>HORIZON-CL5-2022-D4-01-05: Development of high temperature thermal storage for industrial applications</i>	28 Apr 2022	06 Sep 2022

Destination 5: Clean and competitive solutions for all transport modes (511 million €)

Zero-emission road transport

<i>HORIZON-CL5-2021-D5-01-01: Nextgen vehicles: Innovative zero emission BEV architectures for regional medium freight haulage (2ZERO)</i>	24 Juin 2021	14 Sep 2021
<i>HORIZON-CL5-2021-D5-01-02: Nextgen EV components: Integration of advanced power electronics and associated controls (2ZERO)</i>	24 Juin 2021	14 Sep 2021
<i>HORIZON-CL5-2021-D5-01-03: System approach to achieve optimised Smart EV Charging and V2G flexibility in mass-deployment conditions (2ZERO)</i>	24 Juin 2021	14 Sep 2021
<i>HORIZON-CL5-2021-D5-01-04: LCA and design for sustainable circularity - holistic approach for zero-emission mobility solutions and related battery value chain (2ZERO & Batteries Partnership)</i>	24 Juin 2021	14 Sep 2021
<i>HORIZON-CL5-2022-D5-01-08: Modular multi-powertrain zero-emission systems for HDV (BEV and FCEV) for efficient and economic operation (2ZERO)</i>	02 Dec 2021	26 Apr 2022

<i>HORIZON-CL5-2022-D5-01-09: Nextgen EV components: High efficiency and low cost electric motors for circularity and low use of rare resources (2ZERO)</i>	02 Dec 2021	26 Apr 2022
<i>HORIZON-CL5-2022-D5-01-10: New generation of full electric urban and peri-urban Bus Rapid Transit systems to strengthen climate-friendly mass transport (2ZERO)</i>	02 Dec 2021	26 Apr 2022
<i>HORIZON-CL5-2022-D5-01-11: Stimulating Road Transport research and innovation dissemination and implementation in Europe and around the World</i>	02 Dec 2021	26 Apr 2022

Aviation

<i>HORIZON-CL5-2021-D5-01-05: Greenhouse gas aviation emissions reduction technologies towards climate neutrality by 2050</i>	24 Juin 2021	14 Sep 2021
<i>HORIZON-CL5-2021-D5-01-06: Next generation digital aircraft transformation in design, manufacturing, integration and maintenance</i>	24 Juin 2021	14 Sep 2021
<i>HORIZON-CL5-2022-D5-01-12: Towards a silent and ultra-low local air pollution aircraft</i>	02 Dec 2021	26 Apr 2022
<i>HORIZON-CL5-2022-D5-01-13: Digital aviation technologies for new aviation business models, services, emerging global threats and industrial competitiveness</i>	02 Dec 2021	26 Apr 2022
<i>HORIZON-CL5-2022-D5-01-14: European Aviation Research Policy in support to EU policies and initiatives</i>	02 Dec 2021	26 Apr 2022

Enabling low-carbon, clean, smart, and competitive waterborne transport

<i>HORIZON-CL5-2021-D5-01-07: Enabling the safe and efficient on-board storage and integration within ships of large quantities of ammonia and hydrogen fuels (ZEWT Partnership)</i>	24 Juin 2021	14 Sep 2021
<i>HORIZON-CL5-2021-D5-01-08: Enabling the full integration of very high power fuel cells in ship design using co-generation and combined cycle solutions for increased efficiency with multiple fuels (ZEWT Partnership)</i>	24 Juin 2021	14 Sep 2021
<i>HORIZON-CL5-2021-D5-01-09: CSA identifying waterborne sustainable fuel deployment scenarios (ZEWT Partnership)</i>	24 Juin 2021	14 Sep 2021
<i>HORIZON-CL5-2021-D5-01-10: Innovative on-board energy saving solutions (ZEWT Partnership)</i>	24 Juin 2021	14 Sep 2021
<i>HORIZON-CL5-2021-D5-01-11: Hyper powered vessel battery charging system (ZEWT Partnership)</i>	24 Juin 2021	14 Sep 2021
<i>HORIZON-CL5-2021-D5-01-12: Assessing and preventing methane slip from LNG engines in all conditions within both existing and new vessels (ZEWT Partnership)</i>	24 Juin 2021	14 Sep 2021
<i>HORIZON-CL5-2021-D5-01-13: Digital Twin models to enable green ship operations (ZEWT Partnership)</i>	24 Juin 2021	14 Sep 2021
<i>HORIZON-CL5-2021-D5-01-14: Proving the feasibility of a large clean ammonia marine engine (ZEWT Partnership)</i>	24 Juin 2021	14 Sep 2021

<i>HORIZON-CL5-2022-D5-01-01: Exploiting electrical energy storage systems and better optimising large battery electric power within fully battery electric and hybrid ships (ZEWT Partnership)</i>	02 Dec 2021	26 Apr 2022
<i>HORIZON-CL5-2022-D5-01-02: Innovative non-battery electric energy storage systems on-board vessels (ZEWT Partnership)</i>	02 Dec 2021	26 Apr 2022
<i>HORIZON-CL5-2022-D5-01-03: Exploiting renewable energy for shipping, in particular focusing on the potential of wind energy (ZEWT Partnership)</i>	02 Dec 2021	26 Apr 2022
<i>HORIZON-CL5-2022-D5-01-04: Transformation of the existing fleet towards greener operations through retrofitting (ZEWT Partnership)</i>	02 Dec 2021	26 Apr 2022
<i>HORIZON-CL5-2022-D5-01-05: Seamless safe logistics through an autonomous waterborne freight feeder loop service</i>	02 Dec 2021	26 Apr 2022
<i>HORIZON-CL5-2022-D5-01-06: Computational tools for shipbuilding</i>	02 Dec 2021	26 Apr 2022

Impact of transport on environment and human health

<i>HORIZON-CL5-2021-D5-01-15: Development and demonstration of cost affordable and adaptable retrofit solutions for tailpipe and brake polluting emissions</i>	24 Juin 2021	14 Sep 2021
<i>HORIZON-CL5-2021-D5-01-16: Assessment of noise and particle emissions of L category vehicles from real driving conditions</i>	24 Juin 2021	14 Sep 2021
<i>HORIZON-CL5-2022-D5-01-07: Prevent smog episodes in Europe: Air quality impact of engine-emitted volatile, semi volatile and secondary particles</i>	02 Dec 2021	26 Apr 2022

Cross-cutting issues

<i>HORIZON-CL5-2021-D5-01-17: Support for dissemination events in the field of Transport Research</i>	24 Juin 2021	14 Sep 2021
---	--------------	-------------

Destination 6: Safe, Resilient Transport and Smart Mobility services for passengers and goods (380 million €)

Connected, Cooperative and Automated Mobility (CCAM)

<i>HORIZON-CL5-2021-D6-01-01: More powerful and reliable on-board perception and decision-making technologies addressing complex environmental conditions (CCAM Partnership)</i>	24 Juin 2021	19 Oct 2021
<i>HORIZON-CL5-2021-D6-01-02: Common approaches for the safety validation of CCAM systems (CCAM Partnership)</i>	24 Juin 2021	19 Oct 2021
<i>HORIZON-CL5-2021-D6-01-03: Physical and Digital Infrastructure (PDI), connectivity and cooperation enabling and supporting CCAM (CCAM Partnership)</i>	24 Juin 2021	19 Oct 2021

<i>HORIZON-CL5-2021-D6-01-04: Cyber secure and resilient CCAM (CCAM Partnership)</i>	24 Juin 2021	19 Oct 2021
<i>HORIZON-CL5-2021-D6-01-05: Analysis of socio-economic and environmental impacts and assessment of societal, citizen and user aspects for needs based CCAM solutions (CCAM Partnership)</i>	24 Juin 2021	19 Oct 2021
<i>HORIZON-CL5-2021-D6-01-06: Framework for better coordination of large-scale demonstration pilots in Europe and EU-wide knowledge base (CCAM Partnership)</i>	24 Juin 2021	19 Oct 2021
<i>HORIZON-CL5-2022-D6-01-01: European demonstrators for integrated shared automated mobility solutions for people and goods (CCAM Partnership)</i>	14 Oct 2021	12 Jan 2022
<i>HORIZON-CL5-2022-D6-01-02: Reliable occupant protection technologies and HMI solutions to ensure the safety of highly automated vehicles (CCAM Partnership)</i>	14 Oct 2021	12 Jan 2022
<i>HORIZON-CL5-2022-D6-01-03: Human behavioural model to assess the performance of CCAM solutions compared to human driven vehicles (CCAM Partnership)</i>	14 Oct 2021	12 Jan 2022
<i>HORIZON-CL5-2022-D6-01-04: Integrate CCAM services in fleet and traffic management systems (CCAM Partnership)</i>	14 Oct 2021	12 Jan 2022
<i>HORIZON-CL5-2022-D6-01-05: Artificial Intelligence (AI): Explainable and trustworthy concepts, techniques and models for CCAM (CCAM Partnership)</i>	14 Oct 2021	12 Jan 2022

Multimodal and sustainable transport systems for passengers and goods

<i>HORIZON-CL5-2021-D6-01-07: More efficient and effective multimodal freight transport nodes to increase flexibility, service visibility and reduce the average cost of freight transport</i>	24 Juin 2021	19 Oct 2021
<i>HORIZON-CL5-2021-D6-01-08: New delivery methods and business/operating models to green the last mile and optimise road transport</i>	24 Juin 2021	19 Oct 2021
<i>HORIZON-CL5-2021-D6-01-09: Climate resilient and environmentally sustainable transport infrastructure, with a focus on inland waterways</i>	24 Juin 2021	19 Oct 2021
<i>HORIZON-CL5-2022-D6-02-01: Logistics networks integration and harmonisation through operational connectivity to optimise freight flows and drive logistics to climate neutrality</i>	28 Apr 2022	06 Sep 2022
<i>HORIZON-CL5-2022-D6-02-02: Urban logistics and planning: anticipating urban freight generation and demand including digitalisation of urban freight</i>	28 Apr 2022	06 Sep 2022
<i>HORIZON-CL5-2022-D6-02-03: Smart enforcement for resilient, sustainable and more efficient transport operations</i>	28 Apr 2022	06 Sep 2022
<i>HORIZON-CL5-2022-D6-02-04: Accelerating the deployment of new and shared mobility services for the next decade</i>	28 Apr 2022	06 Sep 2022

<i>HORIZON-CL5-2022-D6-02-05: Advanced multimodal network and traffic management for seamless door-to-door mobility of passengers and freight transport</i>	28 Apr 2022	06 Sep 2022
<i>HORIZON-CL5-2022-D6-02-06: Smart and efficient ways to construct, maintain and decommission with zero emissions from transport infrastructure</i>	28 Apr 2022	06 Sep 2022
<i>HORIZON-CL5-2022-D6-02-07: New concepts and approaches for resilient freight transport and logistics networks against disruptive events (including pandemics)</i>	28 Apr 2022	06 Sep 2022

Safety and resilience - per mode and across all transport modes

<i>HORIZON-CL5-2021-D6-01-10: Testing safe lightweight vehicles and improved safe human-technology interaction in the future traffic system</i>	24 Juin 2021	19 Oct 2021
<i>HORIZON-CL5-2021-D6-01-11: Radical improvement of road safety in low and medium income countries in Africa</i>	24 Juin 2021	19 Oct 2021
<i>HORIZON-CL5-2021-D6-01-12: Controlling infection on large passenger ships</i>	24 Juin 2021	19 Oct 2021
<i>HORIZON-CL5-2021-D6-01-13: Safe automation and human factors in aviation – intelligent integration and assistance</i>	24 Juin 2021	19 Oct 2021
<i>HORIZON-CL5-2022-D6-01-06: Predictive safety assessment framework and safer urban environment for vulnerable road users</i>	14 Oct 2021	12 Jan 2022
<i>HORIZON-CL5-2022-D6-01-07: More resilient aircraft and increased survivability</i>	14 Oct 2021	12 Jan 2022
<i>HORIZON-CL5-2022-D6-01-08: Safer navigation and tackling containership fires</i>	14 Oct 2021	12 Jan 2022

+ Other actions

Studies (development of outlook for the necessary means to build industrial capacity for drop-in advanced biofuels, using pre-commercial procurements for drop-in advanced biofuel for commercial cargo-shipping and aviation, Prize development for renewable energy systems), technical assistance, standards, support to SET plan conferences, etc.

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

Destination 1: Biodiversity and Ecosystem Services (375.5 millions €)

Understanding biodiversity decline

	Ouverture	Deadline
<i>HORIZON-CL6-2021-BIODIV-01-01: European participation in global biodiversity genomics endeavours aimed at identifying all biodiversity on Earth</i>	22 Juin 2021	06 Oct 2021

<i>HORIZON-CL6-2021-BIODIV-01-02: Data and technologies for the inventory, fast identification and monitoring of endangered wildlife and other species groups</i>	22 Juin 2021	06 Oct 2021
<i>HORIZON-CL6-2021-BIODIV-01-03: Understanding and valuing coastal and marine biodiversity and ecosystems services</i>	22 Juin 2021	06 Oct 2021
<i>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</i>	22 Juin 2021	06 Oct 2021
<i>HORIZON-CL6-2022-BIODIV-01-01: Observing and mapping biodiversity and ecosystems, with particular focus on coastal and marine ecosystems</i>	28 Oct 2021	15 Février 2022
<i>HORIZON-CL6-2022-BIODIV-01-02: Building taxonomic research capacity near biodiversity hotspots and for protected areas by networking natural history museums and other taxonomic facilities</i>	28 Oct 2021	15 Février 2022

Valuing and restoring biodiversity and ecosystem services

<i>HORIZON-CL6-2021-BIODIV-01-05: The economics of nature-based solutions: cost-benefit analysis, market development and funding</i>	22 Juin 2021	06 Oct 2021
<i>HORIZON-CL6-2021-BIODIV-01-06: Nature-based solutions, prevention and reduction of risks and the insurance sector</i>	22 Juin 2021	06 Oct 2021
<i>HORIZON-CL6-2021-BIODIV-01-07: Ecosystems and their services for an evidence-based policy and decision-making</i>	22 Juin 2021	06 Oct 2021
<i>HORIZON-CL6-2021-BIODIV-01-08: Supporting the development of a coherent and resilient Trans-European Nature Network</i>	22 Juin 2021	06 Oct 2021
<i>HORIZON-CL6-2021-BIODIV-01-09: Assessing and consolidating recent scientific advances on freshwater ecosystem restoration.</i>	22 Juin 2021	06 Oct 2021
<i>HORIZON-CL6-2021-BIODIV-01-10: Demonstration of measures and management for coastal and marine ecosystems restoration and resilience in simplified socio-ecological systems.</i>	22 Juin 2021	06 Oct 2021
<i>HORIZON-CL6-2021-BIODIV-01-11: What else is out there? Exploring the connection between biodiversity, ecosystems services, pandemics and epidemic risk</i>	22 Juin 2021	06 Oct 2021
<i>HORIZON-CL6-2021-BIODIV-01-12: Improved science based maritime spatial planning and identification of marine protected areas</i>	22 Juin 2021	06 Oct 2021
<i>HORIZON-CL6-2022-BIODIV-01-03: Network for nature: multi-stakeholder dialogue platform to promote nature-based solutions</i>	28 Oct 2021	15 Février 2022

<i>HORIZON-CL6-2022-BIODIV-01-04: Natural capital accounting: Measuring the biodiversity footprint of products and organizations</i>	28 Oct 2021	15 Février 2022
--	-------------	-----------------

Managing biodiversity in primary production

<i>HORIZON-CL6-2021-BIODIV-01-13: Breeding for resilience: focus on root-based traits</i>	22 Juin 2021	06 Oct 2021
<i>HORIZON-CL6-2021-BIODIV-01-14: Fostering organic crop breeding</i>	22 Juin 2021	06 Oct 2021
<i>HORIZON-CL6-2022-BIODIV-01-05: Intercropping – understanding and using the benefits of complexity in farming and value chains</i>	28 Oct 2021	15 Février 2022
<i>HORIZON-CL6-2022-BIODIV-01-06: Monitoring and effective measures for agrobiodiversity</i>	28 Oct 2021	15 Février 2022
<i>HORIZON-CL6-2022-BIODIV-01-07: Protection and sustainable management of forest genetic resources of high interest for biodiversity, climate change adaptation, and forest reproductive materials</i>	28 Oct 2021	15 Février 2022
<i>HORIZON-CL6-2022-BIODIV-02-01-two-stage: Maintaining and restoring pollinators and pollination services in European agricultural landscapes</i>	28 Oct 2021	15 Feb 2022 (First Stage), 01 Sep 2022 (Second Stage)
<i>HORIZON-CL6-2022-BIODIV-02-02-two-stage: Boosting breeding for a sustainable, resilient and competitive European legume sector</i>	28 Oct 2021	15 Feb 2022 (First Stage), 01 Sep 2022 (Second Stage)
<i>HORIZON-CL6-2022-BIODIV-02-03-two-stage: Resilient beekeeping</i>	28 Oct 2021	15 Feb 2022 (First Stage), 01 Sep 2022 (Second Stage)

Enabling transformative change on biodiversity

<i>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</i>	22 Juin 2021	06 Oct 2021
<i>HORIZON-CL6-2021-BIODIV-01-16: Biodiversity, water, food, energy, transport, climate and health nexus in the context of transformative change</i>	22 Juin 2021	06 Oct 2021
<i>HORIZON-CL6-2021-BIODIV-01-17: Policy mixes, governance (including financing) and decision-making tools for transformative action for biodiversity</i>	22 Juin 2021	06 Oct 2021
<i>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</i>	22 Juin 2021	06 Oct 2021
<i>HORIZON-CL6-2022-BIODIV-01-08: Assessing the nexus of extraction, production, consumption, trade and behaviour patterns and of climate change action on biodiversity in the context of transformative change</i>	28 Oct 2021	15 Février 2022
<i>HORIZON-CL6-2022-BIODIV-01-09: Understanding the role of behaviour, gender specifics, lifestyle, religious and</i>	28 Oct 2021	15 Février 2022

<i>cultural values, and addressing the role of enabling players (civil society, policy makers, financing and business leaders, retailers) in decision making</i>		
--	--	--

Interconnecting biodiversity research and supporting policies

<i>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')</i>	22 Juin 2021	06 Oct 2021
<i>HORIZON-CL6-2021-BIODIV-01-20: Support to processes triggered by IPBES and IPCC</i>	22 Juin 2021	06 Oct 2021
<i>HORIZON-CL6-2021-BIODIV-01-21: Impact and dependence of business on biodiversity</i>	22 Juin 2021	06 Oct 2021
<i>HORIZON-CL6-2022-BIODIV-01-10: Cooperation with the Convention on Biological Diversity</i>	28 Oct 2021	15 Février 2022

<i>HORIZON-CL6-2021-BIODIV-02-01: European partnership rescuing biodiversity to safeguard life on Earth</i>	22 Juin 2021	22 Juillet 2021
---	--------------	-----------------

Destination 2: Fair, healthy and environmentally-friendly food systems from primary production to consumption (416,5 millions €)

Enabling sustainable farming

<i>HORIZON-CL6-2021-FARM2FORK-01-01: Reaching the Farm to Fork target: R&I scenarios for boosting organic farming and organic aquaculture in Europe</i>	22 Juin 2021	06 Oct 2021
<i>HORIZON-CL6-2021-FARM2FORK-01-02: Developing sustainable and competitive land-based protein crop systems and value chains</i>	22 Juin 2021	06 Oct 2021
<i>HORIZON-CL6-2021-FARM2FORK-01-03: Digitalisation as an enabler of agroecological farming systems</i>	22 Juin 2021	06 Oct 2021
<i>HORIZON-CL6-2021-FARM2FORK-01-04: Tackling outbreaks of plant pests</i>	22 Juin 2021	06 Oct 2021
<i>HORIZON-CL6-2021-FARM2FORK-01-05: Animal welfare 2.0</i>	22 Juin 2021	06 Oct 2021
<i>HORIZON-CL6-2021-FARM2FORK-01-06: Vaccines and diagnostics for priority animal diseases</i>	22 Juin 2021	06 Oct 2021
<i>HORIZON-CL6-2021-FARM2FORK-01-07: Research & innovation roadmap for blockchain technologies in the agri-food sector</i>	22 Juin 2021	06 Oct 2021
<i>HORIZON-CL6-2021-FARM2FORK-01-08: Uncovering lock-ins and levers to encourage farmers to move to and stay in climate-neutral and sustainable food production systems: from experiments to systemic mechanisms</i>	22 Juin 2021	06 Oct 2021
<i>HORIZON-CL6-2021-FARM2FORK-01-09: Towards an EU approach to assess and internalise positive and negative</i>	22 Juin 2021	06 Oct 2021

<i>externalities of agri-food products for incentivising sustainable choices</i>		
<i>HORIZON-CL6-2022-FARM2FORK-01-01: Risk assessment of new low risk pesticides</i>	28 Oct 2021	15 Feb 2022
<i>HORIZON-CL6-2022-FARM2FORK-01-02: Socio-economics of pesticide use in agriculture</i>	28 Oct 2021	15 Feb 2022
<i>HORIZON-CL6-2022-FARM2FORK-01-03: Enhancing biosecurity in terrestrial livestock production</i>	28 Oct 2021	15 Feb 2022
<i>HORIZON-CL6-2022-FARM2FORK-01-04: Innovative solutions to prevent adulteration of food bearing quality labels: focus on organic food and geographical indications</i>	28 Oct 2021	15 Feb 2022
<i>HORIZON-CL6-2022-FARM2FORK-02-01-two-stage: Agroecological approaches for sustainable weed management</i>	28 Oct 2021	15 Feb 2022 (First Stage), 06 Sep 2022 (Second Stage)
<i>HORIZON-CL6-2022-FARM2FORK-02-02-two-stage: Emerging and future risks to plant health</i>	28 Oct 2021	15 Feb 2022 (First Stage), 06 Sep 2022 (Second Stage)
<i>HORIZON-CL6-2022-FARM2FORK-02-03-two-stage: Ecology of animal diseases</i>	28 Oct 2021	15 Feb 2022 (First Stage), 06 Sep 2022 (Second Stage)
<i>HORIZON-CL6-2022-FARM2FORK-02-04-two-stage: Smart solutions for the use of digital technologies for small- and medium-sized, farms and farm structures</i>	28 Oct 2021	15 Feb 2022 (First Stage), 06 Sep 2022 (Second Stage)

Enabling sustainable fisheries and aquaculture

<i>HORIZON-CL6-2021-FARM2FORK-01-10: Sea to Fork transparency and consumer engagement</i>	22 Juin 2021	06 Oct 2021
<i>HORIZON-CL6-2021-FARM2FORK-01-11: Digital transition supporting inspection and control for sustainable fisheries</i>	22 Juin 2021	06 Oct 2021
<i>HORIZON-CL6-2022-FARM2FORK-01-05: Integrated and sustainable freshwater bioeconomy: Combining aquaculture, biodiversity preservation, biotechnology and other uses</i>	28 Oct 2021	15 Feb 2022
<i>HORIZON-CL6-2022-FARM2FORK-01-06: Biosecurity, hygiene, disease prevention and animal welfare in aquaculture</i>	28 Oct 2021	15 Feb 2022
<i>HORIZON-CL6-2022-FARM2FORK-02-05-two-stage: Innovative food from marine and freshwater ecosystems</i>	28 Oct 2021	15 Feb 2022 (First Stage), 06 Sep 2022 (Second Stage)

Transforming food systems for health, sustainability and inclusion

<i>HORIZON-CL6-2021-FARM2FORK-01-12: Filling knowledge gaps on nutritional, safety, allergenicity and environmental assessment of alternative proteins and dietary shift</i>	22 Juin 2021	06 Oct 2021
<i>HORIZON-CL6-2021-FARM2FORK-01-13: Evidence-based decision-making to change social norms towards zero food waste</i>	22 Juin 2021	06 Oct 2021

<i>HORIZON-CL6-2021-FARM2FORK-01-14: Microbes for healthy and sustainable food and diets</i>	22 Juin 2021	06 Oct 2021
<i>HORIZON-CL6-2021-FARM2FORK-01-15: Transition to healthy and sustainable dietary behaviour</i>	22 Juin 2021	06 Oct 2021
<i>HORIZON-CL6-2021-FARM2FORK-01-16: Identification, assessment and management of existing and emerging food safety issues</i>	22 Juin 2021	06 Oct 2021
<i>HORIZON-CL6-2021-FARM2FORK-01-17: Increasing the transparency of EU food systems to boost health, sustainability and safety of products, processes and diets</i>	22 Juin 2021	06 Oct 2021
<i>HORIZON-CL6-2022-FARM2FORK-01-07: Building alternative protein-friendly sustainable and healthy food environments</i>	28 Oct 2021	15 Feb 2022
<i>HORIZON-CL6-2022-FARM2FORK-01-08: Research and innovation for food loss and waste prevention and reduction through harmonised measurement and monitoring</i>	28 Oct 2021	15 Feb 2022
<i>HORIZON-CL6-2022-FARM2FORK-01-09: Microbiomes in food production systems</i>	28 Oct 2021	15 Feb 2022
<i>HORIZON-CL6-2022-FARM2FORK-01-10: Integrated surveillance system to prevent and reduce diet-related Non Communicable Diseases (NCDs)</i>	28 Oct 2021	15 Feb 2022
<i>HORIZON-CL6-2022-FARM2FORK-01-11: Effective systems for authenticity and traceability in the food system</i>	28 Oct 2021	15 Feb 2022

Targeted international cooperation

<i>HORIZON-CL6-2021-FARM2FORK-01-18: One health approach for Food Nutrition Security and Sustainable Agriculture (FNSSA)</i>	22 Juin 2021	06 Oct 2021
<i>HORIZON-CL6-2021-FARM2FORK-01-19: EU-China international cooperation on integrated pest management in agriculture</i>	22 Juin 2021	06 Oct 2021
<i>HORIZON-CL6-2022-FARM2FORK-01-12: Agro-ecological approaches in African agriculture systems</i>	28 Oct 2021	15 Feb 2022
<i>HORIZON-CL6-2022-FARM2FORK-01-13: AU-EU Combatting all forms of malnutrition</i>	28 Oct 2021	15 Feb 2022
<i>HORIZON-CL6-2022-FARM2FORK-01-14: African Food cities</i>	28 Oct 2021	15 Feb 2022
<i>HORIZON-CL6-2022-FARM2FORK-01-15: Support for international research on infectious animal diseases</i>	28 Oct 2021	15 Feb 2022

Destination 3: Circular economy and bioeconomy sectors (268,5 millions €)

Enabling a circular economy transition

<i>HORIZON-CL6-2021-CircBio-01-01: Circular Cities and Regions Initiative (CCRI)'s circular systemic solutions</i>	22 Juin 2021	06 Oct 2021
--	--------------	-------------

<i>HORIZON-CL6-2021-CircBio-01-02: Circular Cities and Regions Initiative's Project Development Assistance (CCRI-PDA)</i>	22 Juin 2021	06 Oct 2021
<i>HORIZON-CL6-2021-CircBio-01-03: Innovative solutions to over-packaging and single-use plastics, and related microplastic pollution</i>	22 Juin 2021	06 Oct 2021
<i>HORIZON-CL6-2021-CircBio-01-04: Increasing the circularity in textiles, plastics and/or electronics value chains</i>	22 Juin 2021	06 Oct 2021
<i>HORIZON-CL6-2022-CircBio-01-01: Circular Cities and Regions Initiative's Project Development Assistance (CCRI-PDA)</i>	28 Oct 2021	15 Feb 2022
<i>HORIZON-CL6-2022-CircBio-02-01-two-stage: Integrated solutions for circularity in buildings and the construction sector</i>	28 Oct 2021	15 Feb 2022 (First Stage), 01 Sep 2022 (Second Stage)

Innovating sustainable bio-based systems and the bioeconomy

<i>HORIZON-CL6-2021-CircBio-01-05: Novel, non-plant biomass feedstocks for industrial applications</i>	22 Juin 2021	06 Oct 2021
<i>HORIZON-CL6-2021-CircBio-01-06: Contained biomass solutions for sustainable and zero-Indirect Land Use Change (ILUC) production systems for high value applications</i>	22 Juin 2021	06 Oct 2021
<i>HORIZON-CL6-2021-CircBio-01-07: Microbiomes for bio-based innovation and environmental applications</i>	22 Juin 2021	06 Oct 2021
<i>HORIZON-CL6-2021-CircBio-01-08: Mainstreaming inclusive small-scale bio-based solutions in European rural areas</i>	22 Juin 2021	06 Oct 2021
<i>HORIZON-CL6-2022-CircBio-01-02: Marginal lands and climate-resilient and biodiversity-friendly crops for sustainable industrial feedstocks and related value chains</i>	28 Oct 2021	15 Feb 2022
<i>HORIZON-CL6-2022-CircBio-01-03: Benefits of the transition towards sustainable circular bio-based systems from linear fossil-based</i>	28 Oct 2021	15 Feb 2022
<i>HORIZON-CL6-2022-CircBio-01-04: Maximizing economic, environmental and social synergies in the provision of feedstock for bio-based sectors through diversification and increased sustainability of agricultural production systems</i>	28 Oct 2021	15 Feb 2022
<i>HORIZON-CL6-2022-CircBio-01-05: EU-China international cooperation on unlocking the potential of agricultural residues and wastes for circular and sustainable bio-based solutions</i>	28 Oct 2021	15 Feb 2022
<i>HORIZON-CL6-2022-CircBio-02-02-two-stage: Exploring extreme environments: novel adaptation strategies at molecular level for bio-based innovation</i>	28 Oct 2021	15 Feb 2022 (First Stage), 01 Sep 2022 (Second Stage)
<i>HORIZON-CL6-2022-CircBio-02-03-two-stage: Sustainable biodegradable novel bio-based plastics:</i>	28 Oct 2021	15 Feb 2022 (First Stage), 01 Sep 2022 (Second Stage)

<i>innovation for sustainability and end-of-life options of plastics</i>		
<i>HORIZON-CL6-2022-CircBio-02-04-two-stage: Photosynthesis revisited: climate emergency, “no pollution and zero-emission” challenge and industrial application</i>	28 Oct 2021	15 Feb 2022 (First Stage), 01 Sep 2022 (Second Stage)
<i>HORIZON-CL6-2022-CircBio-02-05-two-stage: Life sciences and their convergence with digital technologies for prospecting, understanding and sustainably using biological resources</i>	28 Oct 2021	15 Feb 2022 (First Stage), 01 Sep 2022 (Second Stage)

Safeguarding the multiple functions of European forests

<i>HORIZON-CL6-2022-CircBio-01-06: Strengthening the European forest-based research and innovation ecosystem</i>	28 Oct 2021	15 Feb 2022
<i>HORIZON-CL6-2022-CircBio-02-06-two-stage: Harnessing the digital revolution in the forest-based sector</i>	28 Oct 2021	15 Feb 2022 (First Stage), 01 Sep 2022 (Second Stage)

Innovating for blue bioeconomy and biotechnology value chains

<i>HORIZON-CL6-2021-CircBio-01-09: Unlocking the potential of algae potential for a thriving European blue bioeconomy</i>	22 Juin 2021	06 Oct 2021
<i>HORIZON-CL6-2022-CircBio-01-07: Marine microbiome for healthy oceans and a sustainable blue bioeconomy</i>	28 Oct 2021	15 Feb 2022

Destination 4: Clean environment and zero pollution (116 millions €)

Halting emissions of pollutants to soils and waters

<i>HORIZON-CL6-2021-ZEROPOLLUTION-01-01: Regional nitrogen and phosphorus load reduction approach within safe ecological boundaries</i>	22 Juin 2021	06 Oct 2021
<i>HORIZON-CL6-2021-ZEROPOLLUTION-01-02: Optimization of nutrient budget in primary production</i>	22 Juin 2021	06 Oct 2021
<i>HORIZON-CL6-2022-ZEROPOLLUTION-01-01: Preventing groundwater contamination and protecting its quality against harmful impacts of global and climate change</i>	28 Oct 2021	15 Feb 2022
<i>HORIZON-CL6-2022-ZEROPOLLUTION-01-02: Piloting innovative governance solutions to limit nitrogen and phosphorus emissions at the interface of rural/coastal and urban/industrial environments</i>	28 Oct 2021	15 Feb 2022
<i>HORIZON-CL6-2022-ZEROPOLLUTION-01-03: EU-China international cooperation on nature-based solutions for nutrient management in agriculture</i>	28 Oct 2021	15 Feb 2022

Protecting drinking water and managing urban water pollution

<i>HORIZON-CL6-2021-ZEROPOLLUTION-01-03: Preventing and managing diffuse pollution in urban water runoff</i>	22 Juin 2021	06 Oct 2021
--	--------------	-------------

<i>HORIZON-CL6-2022-ZEROPOLLUTION-01-04: Securing drinking water quality by protecting water sources against pollution, providing innovative monitoring and treatment solutions and ensuring safe distribution</i>	28 Oct 2021	15 Feb 2022
--	-------------	-------------

Addressing pollution on seas and oceans

<i>HORIZON-CL6-2021-ZEROPOLLUTION-01-04: Achieving zero polluted seas and oceans</i>	22 Juin 2021	06 Oct 2021
--	--------------	-------------

Increasing environmental performances and sustainability of processes and products

<i>HORIZON-CL6-2021-ZEROPOLLUTION-01-05: Environmental sustainability criteria for biological feedstock production and trade in bio-based systems: impacts and trade-offs</i>	22 Juin 2021	06 Oct 2021
<i>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</i>	22 Juin 2021	06 Oct 2021
<i>HORIZON-CL6-2021-ZEROPOLLUTION-01-07: International and EU sustainability certification schemes for bio-based systems</i>	22 Juin 2021	06 Oct 2021
<i>HORIZON-CL6-2021-ZEROPOLLUTION-01-08: New genomic techniques (NGT): understanding benefits and risks – focus on bio-based innovation</i>	22 Juin 2021	06 Oct 2021
<i>HORIZON-CL6-2021-ZEROPOLLUTION-01-09: Environmental impacts and trade-offs of alternative fertilising products at global/local scale.</i>	22 Juin 2021	06 Oct 2021
<i>HORIZON-CL6-2021-ZEROPOLLUTION-01-10: Environmental services: improved bioremediation and revitalization strategies for soil, sediments and water</i>	22 Juin 2021	06 Oct 2021

Destination 5: Land, oceans and water for climate action (193 millions €)

<i>HORIZON-CL6-2021-CLIMATE-01-01: Improved understanding, observation and monitoring of water resources availability.</i>	22 Juin 2021	06 Oct 2021
<i>HORIZON-CL6-2021-CLIMATE-01-02: European Partnership Water Security for the Planet (Water4All)</i>	22 Juin 2021	06 Oct 2021
<i>HORIZON-CL6-2021-CLIMATE-01-03: Key oceanic and polar processes driving regional & global climate change</i>	22 Juin 2021	06 Oct 2021
<i>HORIZON-CL6-2021-CLIMATE-01-04: Demonstration network on climate-smart farming – linking pilot farms</i>	22 Juin 2021	06 Oct 2021
<i>HORIZON-CL6-2021-CLIMATE-01-05: Agroecological approaches for climate change mitigation, resilient agricultural production and enhanced biodiversity</i>	22 Juin 2021	06 Oct 2021
<i>HORIZON-CL6-2021-CLIMATE-01-06: Resilient livestock farming systems under climate change</i>	22 Juin 2021	06 Oct 2021

<i>HORIZON-CL6-2021-CLIMATE-01-07: International Research Consortium on (agricultural) soil carbon</i>	22 Juin 2021	06 Oct 2021
<i>HORIZON-CL6-2021-CLIMATE-01-08: Agroforestry to meet climate, biodiversity and farming sustainability goals</i>	22 Juin 2021	06 Oct 2021
<i>HORIZON-CL6-2021-CLIMATE-01-09: Enhancing science-based knowledge on EU forests', including old-growth forests, capacities to mitigate climate change</i>	22 Juin 2021	06 Oct 2021
<i>HORIZON-CL6-2021-CLIMATE-01-10: EU-China international cooperation on increasing the resilience of forests</i>	22 Juin 2021	06 Oct 2021
<i>HORIZON-CL6-2022-CLIMATE-01-01: Climate sensitive water allocation systems and economic instruments.</i>	28 Oct 2021	15 Feb 2022
<i>HORIZON-CL6-2022-CLIMATE-01-02: Understanding the oceanic carbon cycle</i>	28 Oct 2021	15 Feb 2022
<i>HORIZON-CL6-2022-CLIMATE-01-03: Demonstration network on climate-smart farming – boosting the role of advisory services</i>	28 Oct 2021	15 Feb 2022
<i>HORIZON-CL6-2022-CLIMATE-01-04: Fostering the resilience of agricultural production: from observation of changes to the development of resilience strategies</i>	28 Oct 2021	15 Feb 2022
<i>HORIZON-CL6-2022-CLIMATE-01-05: Forestry - European observatory of climate change impacts and demonstration network of climate smart restoration pilots</i>	28 Oct 2021	15 Feb 2022

Destination 6: Resilient, inclusive, healthy and green rural, coastal and urban communities (128 millions €)

<i>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</i>	22 Juin 2021	06 Oct 2021
<i>HORIZON-CL6-2021-COMMUNITIES-01-02: Expertise and training centre on rural innovation</i>	22 Juin 2021	06 Oct 2021
<i>HORIZON-CL6-2021-COMMUNITIES-01-03: Smart XG, last-mile and edge solutions for remote farming, forestry and rural areas</i>	22 Juin 2021	06 Oct 2021
<i>HORIZON-CL6-2021-COMMUNITIES-01-04: Socio-economic empowerment of the users of the sea</i>	22 Juin 2021	06 Oct 2021
<i>HORIZON-CL6-2021-COMMUNITIES-01-05: Integrated urban food system policies – how cities and towns can transform food systems for co-benefits</i>	22 Juin 2021	06 Oct 2021
<i>HORIZON-CL6-2021-COMMUNITIES-01-06: Inside and outside: educational innovation with nature-based solutions</i>	22 Juin 2021	06 Oct 2021
<i>HORIZON-CL6-2022-COMMUNITIES-01-01: Boosting women-led innovation in farming and rural areas</i>	28 Oct 2021	15 Feb 2022

<i>HORIZON-CL6-2022-COMMUNITIES-01-02: Assessing and improving labour conditions and health and safety at work in farming</i>	28 Oct 2021	15 Feb 2022
<i>HORIZON-CL6-2022-COMMUNITIES-01-03: Integration of marine ecosystem service valuation, conservation and restoration in socio-economic models</i>	28 Oct 2021	15 Feb 2022
<i>HORIZON-CL6-2022-COMMUNITIES-01-04: Social innovation in food sharing to strengthen urban communities' food resilience</i>	28 Oct 2021	15 Feb 2022
<i>HORIZON-CL6-2022-COMMUNITIES-01-05: Assessing the socio-politics of nature-based solutions for more inclusive and resilient communities</i>	28 Oct 2021	15 Feb 2022
<i>HORIZON-CL6-2022-COMMUNITIES-02-01-two-stage: Smart solutions for smart rural communities: empowering rural communities and smart villages to innovate for societal change</i>	28 Oct 2021	15 Feb 2022 (First Stage), 06 Sep 2022 (Second Stage)
<i>HORIZON-CL6-2022-COMMUNITIES-02-02-two-stage: Developing nature-based therapy for health and well-being</i>	28 Oct 2021	15 Feb 2022 (First Stage), 06 Sep 2022 (Second Stage)

Destination 7: Innovative governance, environmental observations and digital solutions in support of the Green Deal (370 millions €)

Innovating with governance models and supporting policies

<i>HORIZON-CL6-2021-GOVERNANCE-01-01: Mobilising the network of National Contact Points in Cluster 6</i>	22 Jun 2021	06 Oct 2021
<i>HORIZON-CL6-2021-GOVERNANCE-01-02: Furthering food systems science and federating researchers across the European Research area</i>	22 Jun 2021	06 Oct 2021
<i>HORIZON-CL6-2021-GOVERNANCE-01-03: Preparatory action for the Horizon Europe Food System Partnership</i>	22 Jun 2021	06 Oct 2021
<i>HORIZON-CL6-2021-GOVERNANCE-01-04: Strengthening bioeconomy innovation and deployment across sectors and all governance levels</i>	22 Jun 2021	06 Oct 2021
<i>HORIZON-CL6-2021-GOVERNANCE-01-05: Fostering strategic advice and synergies between national and EU Research and Innovation agendas, including SCAR foresight</i>	22 Jun 2021	06 Oct 2021
<i>HORIZON-CL6-2021-GOVERNANCE-01-06: Environmental and social cross-compliance of marine policies</i>	22 Jun 2021	06 Oct 2021
<i>HORIZON-CL6-2021-GOVERNANCE-01-07: Regional governance models in the bioeconomy</i>	22 Jun 2021	06 Oct 2021
<i>HORIZON-CL6-2021-GOVERNANCE-01-08: Improving understanding of and engagement in bio-based systems with training and skills development</i>	22 Jun 2021	06 Oct 2021
<i>HORIZON-CL6-2021-GOVERNANCE-01-09: Revitalisation of European local communities with innovative bio-based business models and social innovation</i>	22 Jun 2021	06 Oct 2021

<i>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</i>	22 Juin 2021	06 Oct 2021
<i>HORIZON-CL6-2021-GOVERNANCE-01-11: Education on the bioeconomy including bio-based sectors for young people in primary and secondary education in Europe</i>	22 Juin 2021	06 Oct 2021
<i>HORIZON-CL6-2021-GOVERNANCE-01-12: EU agriculture within a safe and just operating space and planetary boundaries</i>	22 Juin 2021	06 Oct 2021
<i>HORIZON-CL6-2021-GOVERNANCE-01-13: Modelling land use and land management in the context of climate change</i>	22 Juin 2021	06 Oct 2021
<i>HORIZON-CL6-2022-GOVERNANCE-01-01: Mobilization of society to transform food systems for co-benefits</i>	28 Oct 2021	15 Feb 2022
<i>HORIZON-CL6-2022-GOVERNANCE-01-02: European Partnership for a climate neutral, sustainable and productive Blue Economy</i>	28 Oct 2021	15 Feb 2022
<i>HORIZON-CL6-2022-GOVERNANCE-01-03: Multi-layer governance performance of marine policies</i>	28 Oct 2021	15 Feb 2022
<i>HORIZON-CL6-2022-GOVERNANCE-01-04: Consumer-focused labelling options for bio-based products</i>	28 Oct 2021	15 Feb 2022
<i>HORIZON-CL6-2022-GOVERNANCE-01-05: Innovative tools and methods to evaluate the design and support, monitoring and implementation of effective CAP Strategic Plans</i>	28 Oct 2021	15 Feb 2022
<i>HORIZON-CL6-2022-GOVERNANCE-01-06: Water governance, economic and financial sustainability of water systems</i>	28 Oct 2021	15 Feb 2022 (First Stage), 06 Sep 2022 (Second Stage)

Deploying and adding value to Environmental Observations

<i>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</i>	22 Juin 2021	06 Oct 2021
<i>HORIZON-CL6-2021-GOVERNANCE-01-15: Preparing for pre-commercial procurement (PCP) for end-user services based on Environmental Observation in the area Climate Change Adaptation and Mitigation</i>	22 Juin 2021	06 Oct 2021
<i>HORIZON-CL6-2021-GOVERNANCE-01-16: Tools to support the uptake and accessibility/exploitability of environmental observation information at European and global level</i>	22 Juin 2021	06 Oct 2021
<i>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</i>	22 Juin 2021	06 Oct 2021

<i>HORIZON-CL6-2022-GOVERNANCE-01-07: New technologies for acquiring in-situ observation datasets to address climate change effects</i>	28 Oct 2021	15 Feb 2022
<i>HORIZON-CL6-2022-GOVERNANCE-01-08: Uptake and validation of citizen observations to complement authoritative measurement within the urban environment and boost related citizen engagement</i>	28 Oct 2021	15 Feb 2022
<i>HORIZON-CL6-2022-GOVERNANCE-01-09: Environmental observations solutions contributing to meeting “One Health” challenges</i>	28 Oct 2021	15 Feb 2022

Digital and data technologies as key enablers

<i>HORIZON-CL6-2021-GOVERNANCE-01-18: Mapping and improving the data economy for food systems</i>	22 Juin 2021	06 Oct 2021
<i>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</i>	22 Juin 2021	06 Oct 2021
<i>HORIZON-CL6-2021-GOVERNANCE-01-20: Data economy in the field of agriculture – Effects of data sharing and big data</i>	22 Juin 2021	06 Oct 2021
<i>HORIZON-CL6-2021-GOVERNANCE-01-21: Potential of drones as multi-purpose vehicle – risks and added values</i>	22 Juin 2021	06 Oct 2021
<i>HORIZON-CL6-2021-GOVERNANCE-01-22: Assessing the impacts of digital technologies in agriculture – cost, benefits and potential for sustainability gains</i>	22 Juin 2021	06 Oct 2021
<i>HORIZON-CL6-2022-GOVERNANCE-01-10: Piloting approaches and tools to empower citizens to exercise their “data rights” in the area of food and nutrition</i>	28 Oct 2021	15 Feb 2022
<i>HORIZON-CL6-2022-GOVERNANCE-01-11: Upscaling (real-time) sensor data for EU-wide monitoring of production and agri-environmental conditions</i>	28 Oct 2021	15 Feb 2022

Strengthening agricultural knowledge and innovation systems

<i>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</i>	22 Juin 2021	06 Oct 2021
<i>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</i>	22 Juin 2021	06 Oct 2021
<i>HORIZON-CL6-2021-GOVERNANCE-01-25: Improving national AKIS organisation in a co-creative process across the EU</i>	22 Juin 2021	06 Oct 2021
<i>HORIZON-CL6-2021-GOVERNANCE-01-26: Deepening the functioning of innovation support</i>	22 Juin 2021	06 Oct 2021

<i>HORIZON-CL6-2021-GOVERNANCE-01-27: Developing EU advisory networks on consumer-producer chains</i>	22 Juin 2021	06 Oct 2021
<i>HORIZON-CL6-2021-GOVERNANCE-01-28 : Thematic networks to compile and share knowledge ready for practice</i>	22 Juin 2021	06 Oct 2021
<i>HORIZON-CL6-2022-GOVERNANCE-01-12: Thematic networks to compile and share knowledge ready for practice</i>	28 Oct 2021	15 Feb 2022
<i>HORIZON-CL6-2022-GOVERNANCE-01-13: Broaden EIP Operational Group outcomes across borders by means of Thematic networks, compiling and sharing knowledge ready for practice</i>	28 Oct 2021	15 Feb 2022
<i>HORIZON-CL6-2022-GOVERNANCE-01-14: Improving preparation of multi-actor projects to enable the relevant actors to work in a co-creative way</i>	28 Oct 2021	15 Feb 2022
<i>HORIZON-CL6-2022-GOVERNANCE-01-15: Developing EU advisory networks on water use</i>	28 Oct 2021	15 Feb 2022

+ Other actions

Support to IPBES, circular cities/EIB, OECD, public procurements, studies, etc.

Horizon Europe Missions

Adaptation to climate change (5 millions €)

	Ouverture	Deadline
<i>HORIZON-MISS-2021-CLIMA-01-01: Better prepared regional and local authorities to adapt to climate change</i>	22 Juin 2021	14 Sept 2021

Cancer (3 millions €)

<i>HORIZON-MISS-CAN-2021-01-01: Preparing UNCAN.eu, a European initiative to better understand cancer</i>	22 Juin 2021	20 Oct 2021
---	--------------	-------------

Ocean, seas and waters (5 millions €)

<i>HORIZON-MISS-2021-OCEAN-01-01: Preparation for deployment of lighthouse demonstrators and solution scale ups and cross-cutting citizen and stakeholder involvement</i>	22 Juin 2021	14 Sept 2021
---	--------------	--------------

Climate Neutral and Smart Cities (4 millions €)

<i>HORIZON-CIT- 2021-01-01: Supporting national, regional and local authorities across Europe to prepare for the transition towards climate neutrality within cities</i>	22 Juin 2021	14 Sept 2021
<i>HORIZON-MISS-2021-CIT-01-02: Collaborative local governance models to accelerate the emblematic transformation of urban environment and contribute to the New European Bauhaus initiative and the objectives of the European Green Deal</i>	22 Juin 2021	14 Sept 2021

Soil health and Food (5 millions €)

<i>HORIZON-MISS-SOIL-2021-01-01: Preparing the ground for healthy soils: building capacities for engagement, outreach and knowledge</i>	22 Juin 2021	20 Oct 2021
---	--------------	-------------

Complementing missions through national missions (2 millions €)

<i>HORIZON-MISS-2021-COOR-01-01: Coordination of complementary actions for missions</i>	22 Juin 2021	14 Sept 2021
---	--------------	--------------

Deployment of NEB lighthouse demonstrators in the context of missions (25 millions €)

<i>HORIZON-MISS-2021-NEB-01-01: Support the deployment of lighthouse demonstrators for the New European Bauhaus initiative in the context of Horizon Europe missions</i>	28 Sept 2021	25 Janvier 2022
--	--------------	-----------------

+ Other actions (min 8,65 millions €)

Cooperation with EIB (EIB Innovation Finance Advisory to support the implementation of EU Missions), with OECD, information to citizens (procurement), expertise

European Innovation Council

Open funding

EIC Pathfinder Open (168 millions €)

	Ouverture	Deadline
<i>HORIZON-EIC-2021-PATHFINDEROPEN-01</i>	8 avril 2021	25 Mai 2021

EIC Transition Open (59.60 millions €)

<i>HORIZON-EIC-2021-TRANSITIONOPEN-01</i>	8 avril 2021	22 September 2021
---	--------------	-------------------

EIC Accelerator Open (592.5 millions €)

	Short application	Full application deadline
<i>HORIZON-EIC-2021-ACCELERATOROPEN-01</i>	Anytime	16 June 2021 6 October 2021

Strategic challenges

EIC pathfinder challenges (132 millions €)

<i>EIC Pathfinder Challenge – Awareness Inside</i>	8 avril 2021	27 October 2021
<i>EIC Pathfinder Challenge – Tools to measure and stimulate activity in brain tissue</i>	8 avril 2021	27 October 2021
<i>EIC Pathfinder Challenge – Emerging Technologies in Cell and Gene therapy</i>	8 avril 2021	27 October 2021

<i>EIC Pathfinder Challenge – Novel routes to green hydrogen production</i>	8 avril 2021	27 October 2021
<i>EIC Pathfinder Challenge – Engineered Living Materials</i>	8 avril 2021	27 October 2021

EIC transition challenges (40.50 millions €)

<i>EIC Transition Challenge – Medical and Devices</i>	8 avril 2021	22 September 2021
<i>EIC Transition Challenge – Energy harvesting and storage technologies</i>	8 avril 2021	22 September 2021

EIC accelerator challenges (495.10 millions €)

	<i>Short application</i>	<i>Full application deadline</i>
<i>EIC Accelerator Challenge – Strategic Digital and Health Technologies</i>	Anytime	9 June 2021 6 October 2021
<i>EIC Accelerator Challenge – Green Deal innovations for the Economic Recovery</i>	Anytime	9 June 2021 6 October 2021

EIC prizes (2.65 millions €)

<i>EU prize for Women innovators</i>	18 mars 2021	30 juin 2021
<i>The European Capital of Innovation Awards (iCapital)</i>	18 mars 2021	15 juillet 2021
<i>The European Innovation Procurement Awards : Procurement Leadership Award</i>	14 avril 2021	29 juillet 2021
<i>The European Innovation Procurement Awards : Innovation Procurement Strategy Award</i>	14 avril 2021	29 juillet 2021
<i>The European Innovation Procurement Awards : Facing societal Challenges ahead</i>	14 avril 2021	29 juillet 2021
<i>The European Social Innovation Competition</i>		12 mai 2021

EIC Community and Business Acceleration Services (22.6 millions €)

<i>EIC Business Acceleration Services global offer</i>		
--	--	--

+ Other actions

Communication, Support to EIC Board, EIC market place, Co-Creation with Public Buyers of Innovations, etc.

European Innovation ecosystems

Destination 1: CONNECT Interconnected innovation ecosystems (27.5 millions €)

	<i>Ouverture</i>	<i>Deadline</i>
<i>HORIZON-EIE-2021-CONNECT-01-01: Preparatory action for setting up joint programmes among innovation ecosystems actors</i>	06 Juillet 2021	26 octobre 2021

<i>HORIZON-EIE-2021-CONNECT-01-02: Building capabilities in innovation procurement</i>	<i>Building</i>	06 Juillet 2021	26 octobre 2021
<i>HORIZON-EIE-2022-CONNECT-01-01: Towards more inclusive networks and initiatives in European innovation ecosystems</i>		11 Jan 2022	26 Apr 2022
<i>HORIZON-EIE-2022-CONNECT-01-02: Integration of social innovation actors in innovation ecosystems</i>		11 Jan 2022	26 Apr 2022
<i>HORIZON-EIE-2022-CONNECT-02-01: Implementing co-funded action plans for interconnection of innovation ecosystems</i>		14 Jun 2022	27 Sep 2022
<i>HORIZON-EIE-2022-CONNECT-02-02: Stimulating innovation procurement</i>	<i>Stimulating</i>	14 Jun 2022	27 Sep 2022

Destination 2: SCALE-UP – Elevating the scalability potential of business (23.75 millions €)

<i>HORIZON-EIE-2021-SCALEUP-01-01: Expanding Acceleration Ecosystems</i>		13 juillet 2021	10 Nov 2021
<i>HORIZON-EIE-2021-SCALEUP-01-02: Scaling up deep tech ecosystems</i>		13 juillet 2021	10 Nov 2021
<i>HORIZON-EIE-2021-SCALEUP-01-03: Women TechEU</i>		13 juillet 2021	10 Nov 2021
<i>HORIZON-EIE-2022-SCALEUP-01-01: Expanding Entrepreneurial Ecosystems</i>	<i>Expanding</i>	25 Jan 2022	10 May 2022
<i>HORIZON-EIE-2022-SCALEUP-02-01: Expanding Investments Ecosystems</i>		21 Jun 2022	04 Oct 2022

Destination: INNOVSMES - Partnership on Innovative SMES (72.88 millions €)

<i>HORIZON-EIE-2021-INNOVSMES-01-01: Partnership on Innovative SMEs</i>	<i>European</i>	22 Juin 2021	01 Sep 2021
---	-----------------	--------------	-------------

+ Other actions (5.3 millions €)

EIC Forum, Etudes, Echanges de bonnes pratiques, législation, cartographies, IP helpdesk, etc.

Widening participation and spreading excellence

Destination 1: Improving access to excellence

Teaming for excellence

<i>HORIZON-WIDERA-2022-ACCESS-01-01-two-stage: Teaming for Excellence</i>		29 Juin 2021	05 Oct 2021 (First Stage) 08 Sept 2022 (Second Stage)
---	--	--------------	--

Twinning

<i>HORIZON-WIDERA-2021-ACCESS-02-01: Western Balkans Special</i>	<i>Twinning</i>	29 Juin 2021	05 Oct 2021
--	-----------------	--------------	-------------

<i>HORIZON-WIDERA-2021-ACCESS-03-01: Twinning</i>	20 Juillet 2021	18 Janvier 2022
---	-----------------	-----------------

Excellence hubs

<i>HORIZON-WIDERA-2022-ACCESS-04-01: Excellence Hubs</i>	03 Nov 2021	15 Mar 2022
--	-------------	-------------

Strengthening capacity for excellence in universities and surrounding ecosystems (European Excellence Initiative (EEI))

<i>HORIZON-WIDERA-2021-ACCESS-05-01: Capacity building to strengthen networks of higher education institutions and cooperation with surrounding ecosystems</i>	29 Juin 2021	04 Nov 2021
--	--------------	-------------

Support for R&I policy making in the Western Balkans

<i>HORIZON-WIDERA-2021-ACCESS-06-01: Support for R&I policy making in the Western Balkans</i>	29 Juin 2021	29 Sep 2021
---	--------------	-------------

Hop On Facility

<i>HORIZON-WIDERA-2022-HOPON-01-01: Hop On Facility</i>	04 Jan 2022	20 Apr 2022, 10 Nov 2022
---	-------------	--------------------------

Destination 2: Attracting and mobilising the best talents

ERA Chairs

<i>HORIZON-WIDERA-2022-TALENTS-01-01: ERA Chairs</i>	29 Juin 2021	15 Mar 2022
--	--------------	-------------

Fostering balanced brain circulation (BBC)

<i>HORIZON-WIDERA-2022-TALENTS-02-01: Fostering balanced brain circulation – ERA Fellowships</i>	29 Juin 2021	12 Oct 2021
<i>HORIZON-WIDERA-2022-TALENTS-03-01: Fostering balanced brain circulation – ERA Talents</i>	01 Dec 2021	12 Apr 2022
<i>HORIZON-WIDERA-2022-TALENTS-04-01: Fostering balanced brain circulation – ERA Fellowships</i>	29 Juin 2021	29 Sep 2021

+ Other actions

Programme COST, réseau PCN, etc.

Destination 3: Reforming and enhancing the EU research and innovation system

European Research Area

<i>HORIZON-WIDERA-2021-ERA-01-09: Support for policy makers – Programme level collaboration between national R&I programmes</i>	22 Jun 2021	23 Sep 2021
<i>HORIZON-WIDERA-2021-ERA-01-20: Towards a Europe-wide training and networking scheme for research managers</i>	22 Jun 2021	23 Sep 2021
<i>HORIZON-WIDERA-2021-ERA-01-30: Implementation of a new macro-economic modelling concept</i>	22 Jun 2021	23 Sep 2021

<i>HORIZON-WIDERA-2021-ERA-01-32: Standardisation Booster for fostering exploitation of FP-funded research results</i>	22 Jun 2021	23 Sep 2021
<i>HORIZON-WIDERA-2021-ERA-01-33: R&I intensive IP management: Scenarios for the future</i>	22 Jun 2021	23 Sep 2021
<i>HORIZON-WIDERA-2021-ERA-01-40: Modelling and quantifying the impacts of open science practice</i>	22 Jun 2021	23 Sep 2021
<i>HORIZON-WIDERA-2021-ERA-01-41: Global cooperation on FAIR data policy and practice</i>	22 Jun 2021	23 Sep 2021
<i>HORIZON-WIDERA-2021-ERA-01-43: Capacity-building for institutional open access publishing across Europe</i>	22 Jun 2021	23 Sep 2021
<i>HORIZON-WIDERA-2021-ERA-01-44: Societal trust in science, research and innovation</i>	22 Jun 2021	23 Sep 2021
<i>HORIZON-WIDERA-2021-ERA-01-45: Support to changes in the assessment of research and researchers to reward the practice of open science</i>	22 Jun 2021	23 Sep 2021
<i>HORIZON-WIDERA-2021-ERA-01-50: Protection of Higher Education Institutions and research organisations against conventional and non-conventional threats</i>	22 Jun 2021	23 Sep 2021
<i>HORIZON-WIDERA-2021-ERA-01-60: A capacity-building and brokering network to make citizen science an integral part of the European Research Area</i>	22 Jun 2021	23 Sep 2021
<i>HORIZON-WIDERA-2021-ERA-01-61: Supporting and giving recognition to citizen science in the European Research Area</i>	22 Jun 2021	23 Sep 2021
<i>HORIZON-WIDERA-2021-ERA-01-70: Developing a STE(A)M roadmap for Science Education in Horizon Europe</i>	22 Jun 2021	23 Sep 2021
<i>HORIZON-WIDERA-2021-ERA-01-80: Centre of excellence on inclusive gender equality in Research & Innovation</i>	22 Jun 2021	23 Sep 2021
<i>HORIZON-WIDERA-2021-ERA-01-81: Policy coordination to advance the implementation of the ERA gender equality and inclusiveness objectives within Member States</i>	22 Jun 2021	23 Sep 2021
<i>HORIZON-WIDERA-2021-ERA-01-90: The challenges of research ethics and integrity in response to crisis: the coronavirus pandemic and beyond</i>	22 Jun 2021	23 Sep 2021
<i>HORIZON-WIDERA-2021-ERA-01-91: Ensuring reliability and trust in quality of Research Ethics expertise in the context of new/emerging technologies</i>	22 Jun 2021	23 Sep 2021
<i>HORIZON-WIDERA-2022-ERA-01-10: Support for policy makers – Programme level collaboration between national R&I programmes</i>	19 Jan 2022	20 Apr 2022
<i>HORIZON-WIDERA-2022-ERA-01-30: Testing of the ERA Hub concept – pilot phase</i>	19 Jan 2022	20 Apr 2022
<i>HORIZON-WIDERA-2022-ERA-01-31: Innowwide Bridging Facility</i>	19 Jan 2022	20 Apr 2022
<i>HORIZON-WIDERA-2022-ERA-01-32: An experimentation space for the uptake and use of R&I results for EU resilience and future preparedness</i>	19 Jan 2022	20 Apr 2022

<i>HORIZON-WIDERA-2022-ERA-01-40: Stepping-up institutional and territorial changes towards open and responsible research and innovation</i>	19 Jan 2022	20 Apr 2022
<i>HORIZON-WIDERA-2022-ERA-01-41: Increasing the reproducibility of scientific results</i>	19 Jan 2022	20 Apr 2022
<i>HORIZON-WIDERA-2022-ERA-01-42: Supporting the development of aligned policies for open access books and monographs</i>	19 Jan 2022	20 Apr 2022
<i>HORIZON-WIDERA-2022-ERA-01-44: Developing and piloting training on the practice of open and responsible research and innovation</i>	19 Jan 2022	20 Apr 2022
<i>HORIZON-WIDERA-2022-ERA-01-50: Developing an effective ERA talent pipeline</i>	19 Jan 2022	20 Apr 2022
<i>HORIZON-WIDERA-2022-ERA-01-51: Acceleration Services in support of the institutional transformation of Higher Education Institutions</i>	19 Jan 2022	20 Apr 2022
<i>HORIZON-WIDERA-2022-ERA-01-60: A European competence centre for science communication</i>	19 Jan 2022	20 Apr 2022
<i>HORIZON-WIDERA-2022-ERA-01-70: Open schooling for science education and a learning continuum for all</i>	19 Jan 2022	20 Apr 2022
<i>HORIZON-WIDERA-2022-ERA-01-80: Living Lab for gender-responsive innovation</i>	19 Jan 2022	20 Apr 2022
<i>HORIZON-WIDERA-2022-ERA-01-81: Support to the implementation of inclusive gender equality plans</i>	19 Jan 2022	20 Apr 2022
<i>HORIZON-WIDERA-2022-ERA-01-91: The empirical and behavioural approach to research ethics and integrity</i>	19 Jan 2022	20 Apr 2022

Prizes

<i>EU Award for (Academic) Gender Equality Champions</i>	Q1 2022	Q3 or Q4 2022
<i>Horizon impact award</i>	Q1-Q2 2021	Q3-Q4 2021
<i>Horizon impact award</i>	Q1-Q2 2022	Q3-Q4 2022

+ Other actions

ESOF, Cooperation with OECD, Support to partnerships, indicators development, Prize for dissemination and valorization of research results, public procurement, data policy, studies, communication, etc.

Partenariats public-privé

Dans le cadre du programme Horizon Europe, la Commission a lancé 10 partenariats institutionnalisés avec des acteurs privés et/ou de la recherche, afin de définir ensemble les priorités stratégiques de RDI. Des appels à projets, qui ne sont pas attendus avant fin 2021-début 2022, sont ensuite publiés sur le « *Funding and Tenders Portal* » et sur les sites de ces partenariats.

Innovative Health Initiative

<https://www.imi.europa.eu/about-imi/innovative-health-initiative>

Prévention, diagnostic, traitement et gestion des maladies

Transforming Europe's rail system

<https://shift2rail.org/shift2rail-successor/>

Développement et déploiement de technologies innovantes, notamment numériques et d'automatisation, afin de réaliser une transformation radicale du système ferroviaire.

Integrated Air Traffic Management

www.sesarju.eu

Transformation technologique de la gestion du trafic aérien en Europe, en l'alignant sur l'ère numérique

Clean Aviation

<https://www.clean-aviation.eu/>

Développement et le déploiement de solutions de recherche et d'innovation de rupture pour mettre l'aviation sur la voie de la neutralité climatique

Clean Hydrogen

<https://www.fch.europa.eu/news/eu-proposal-set-clean-hydrogen-partnership-europe-1>

Technologies de l'hydrogène propre, mise en place de systèmes énergétiques durables, décarbonisés et pleinement intégrés

Circular bio-based Europe: sustainable innovation for new local value from waste and biomass

<https://www.bbi-europe.eu/>

Développement et accroissement de l'approvisionnement durable et la conversion de la biomasse en bioproduits, ainsi que le soutien au déploiement de la bioinnovation au niveau régional

Key Digital Technologies

<https://www.ecsel.eu/>

Composants électroniques, leur conception, leur fabrication et leur intégration dans les systèmes, ainsi que sur les logiciels qui définissent leur mode de fonctionnement

Smart Networks and Services

Souveraineté technologique des réseaux et services intelligents, capacités technologiques pour des systèmes 6G

European Metrology

Recherche en métrologie

Global Health EDCTP3

Conduite d'essais cliniques en Afrique subsaharienne sur les maladies prioritaires (listées) et pour renforcer les capacités en réponse aux maladies infectieuses. Projets de 4 à 6 millions d'euros.

EuroHPC (appels attendus courant 2021)

<https://eurohpc-ju.europa.eu/>

Calcul de haute performance