



August 2021

## HORIZON EUROPE

### Pillar I Excellent Science

European Research Council  
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MSCA-Actions  
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→

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- Civil Security for Society →
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### Widening Participation and Strengthening the European Research Area

Widening participation and spreading excellence →

Reforming and Enhancing the European R&I System →



## Anschubfinanzierung & Informationen

### **MWK & UHOH | Anschubfinanzierung für die Vorbereitung von EU-Anträgen**

Das MWK und die Universitätsleitung unterstützen Sie bei der Vorbereitung eines durch sie koordinierten EU-Antrags (auch von ERC-Grants) durch die Bereitstellung von Finanzmitteln. Finanziert werden können Personal-, Sachmittel oder Reisekosten, die im Vorfeld der Antragsstellung anfallen.

Je nach Auswahlverfahren können folgende Anschubmittel beantragt werden:

- 1-stufige Calls: max. 7.000 €
- 2-stufige Calls: max. 7.000 € (1. Stufe: 3.500 €; 2. Stufe: weitere 3.500 €)  
Bei Erreichen der 2. Stufe ist keine erneute Antragstellung auf Anschubfinanzierung nötig. Es genügt eine formlose E-Mail.
- ERC-Grants: max. 15.000 €

Die Mittel müssen zwingend für eine Antragsvorbereitung eingesetzt werden. Wird kein Antrag eingereicht, kann gewährte Anschubfinanzierung wieder zurückgefordert werden.

Bitte melden Sie sich bei Interesse möglichst frühzeitig bei Frau Valentyna Zimmermann, 24614 [valentyna.zimmermann@verwaltung.uni-hohenheim.de](mailto:valentyna.zimmermann@verwaltung.uni-hohenheim.de) oder Frau Mara Lucic, 22819, [mara.lucic@verwaltung.uni-hohenheim.de](mailto:mara.lucic@verwaltung.uni-hohenheim.de).

[Antragsformular EU Koordination](#) oder [Antragsformular ERC](#) finden Sie hier.

### **EU-Büro des BMBF | Deutsches Internetportal zu Horizon Europe**

Das Portal bündelt und verlinkt alle relevanten Informationen zu Hintergründen, zur Antragstellung und zu den Beratungsstellen und Informationsveranstaltungen zu Horizon Europe in Deutschland. **Sie finden es [hier](#).**

### **Kooperationsstelle EU der Wissenschaftsorganisationen | KOWI-Webseite**

Die KoWi-Website ist ein umfassendes Informationsportal rund um das Rahmenprogramm Horizon Europe. Hier finden Sie aktuelle Nachrichten, alle wichtigen Basisinformationen sowie die passenden Ansprechpartner/innen zu den verschiedenen EU-Förderlinien.

Darüber hinaus steht das KOWI-Team für alle Fragen rund um die EU-Forschungsförderung immer gerne zur Verfügung.

**Weitere Informationen finden Sie [hier](#).**

### **EU Horizon Europe | Info's zur Antragstellung**

Wenn Sie eine EU-Antragstellung planen, gibt es einige Besonderheiten zu beachten. Wir unterstützen Sie sehr gerne – beispielsweise bei der richtigen Kalkulation Ihres Vorhabens, administrativen Angaben, formalen Fragen oder auch bei jeder Art von anderen Unklarheiten.

**Bitte melden Sie sich unbedingt frühzeitig bei uns - vermeiden Sie gerade bei EU-Anträgen eine Einreichung auf den ‚letzten Drücker‘.**



**Pillar I: Excellent Science**

ERC European Research Council	Budget (Mio. €) 2021-2022	Deadline	Number of projects
ERC – Starting Grant			
ERC-2021-StG	619	24.03.21	413
ERC-2022-StG	749	13.01.22	502
ERC – Consolidator Grant			
ERC-2021-CoG	633	20.04.21	317
ERC-2022-CoG	776	17.03.22	388
ERC – Advanced Grant			
ERC-2021-AdG	626	31.08.21	250
ERC-2022-AdG	555	28.04.22	223
ERC – Synergy Grant			
ERC-2022-SyG	297	10.11.21	33
Total	4.255		

[Further information 2021](#)

[Further information 2022](#)



MSCA Marie Skłodowska-Curie actions	Budget (Mio. €) 2021-2022	Deadline	Number of projects
<b>Call - MSCA Doctoral Networks</b>			
HORIZON-MSCA-2021-DN-01-01	402,95	16.11.21	-
HORIZON-MSCA-2022-DN-01-01	427,28	15.11.22	
<b>Call - MSCA Postdoctoral Fellowships</b>			
HORIZON-MSCA-2021-PF-01-01	242,00	12.10.21	-
HORIZON-MSCA-2022-PF-01-01	257,00	14.09.22	
<b>Call - MSCA Staff Exchanges</b>			
HORIZON-MSCA-2021-SE-01-01	72,50	09.03.22	-
HORIZON-MSCA-2022-SE-01-01	77,50	08.03.23	
<b>Call – MSCA Co-funding of regional, national and international programmes</b>			
HORIZON-MSCA-2021-COFUND-01-01	89,00	10.02.22	-
HORIZON-MSCA-2022-COFUND-01-01	95,00	09.02.23	
<b>Call – MSCA and Citizens</b>			
HORIZON-MSCA-2022-CITIZENS-01-01: European Researchers' Night 2022-2023	15,50	07.10.21	50
<b>MSCA Support</b>			
HORIZON-MSCA-2021-NCP-01-01: Trans-national cooperation among Marie Skłodowska-Curie National Contact Points	2,00	31.08.21	1
HORIZON-MSCA-2021-INCO-01-01: International Cooperation 2021	2,00	05.10.21	1
HORIZON-MSCA-2021-RR-01-01: MSCA for Researchers at Risk 2021	1,50	06.01.22	1
<b>MSCA Total</b>	<b>1.684,23</b>		

[Further information](#)



Research infrastructures	Budget (Mio. €) 2021-2022	Deadline	Number of projects
<b>DESTINATION – DEVELOPING, CONSOLIDATING AND OPTIMISING THE EUROPEAN RESEARCH INFRASTRUCTURES LANDSCAPE, MAINTAINING GLOBAL LEADERSHIP (INFRADEV)</b>			
Call - Developing, consolidating and optimising the European research infrastructures landscape, maintaining global leadership (2021)			
HORIZON-INFRA-2021-DEV-01-01: Support to the European Strategy Forum on Research Infrastructures	2,50	23.09.21	1
HORIZON-INFRA-2021-DEV-01-02: Strengthen the bilateral cooperation on research infrastructures with Africa: improving the knowledge base on climate change in Africa	1,50	23.09.21	1
HORIZON-INFRA-2021-DEV-01-03: Transition to digital/remote research infrastructure service provision: lessons learnt, needs and best practices	1,50	23.09.21	1
HORIZON-INFRA-2021-DEV-01-04: Support to National Contact Points (NCPs) for Research Infrastructures	2,00	23.09.21	1
HORIZON-INFRA-2021-DEV-01-05: Support to the e-Infrastructure Reflection Group (e-IRG)	0,30	23.09.21	1
Call - Developing and consolidating the European research infrastructures landscape, maintaining global leadership (2021)			
HORIZON-INFRA-2021-DEV-02-01: Preparatory phase of new ESFRI research infrastructure projects	36,00	20.01.22	12
HORIZON-INFRA-2021-DEV-02-02: Consolidation of the research infrastructure landscape –Individual support for ESFRI projects	7,50	20.01.22	5
Call - Developing the European research infrastructures landscape, maintaining global leadership (2022)			
HORIZON-INFRA-2022-DEV-01-01: Research infrastructure concept development	21,80	20.04.22	7
<b>DESTINATION – ENABLING AN OPERATIONAL, OPEN AND FAIR EOSC ECOSYSTEM (INFRAEOSC)</b>			
Call - Enabling an operational, open and FAIR EOSC ecosystem (2021)			
HORIZON-INFRA-2021-EOSC-01-01: Supporting an EOSC-ready digitally skilled workforce	7,00	23.09.21	1
HORIZON-INFRA-2021-EOSC-01-02: Supporting the development and coordination of activities of the EOSC Partnership	4,00	23.09.21	1
HORIZON-INFRA-2021-EOSC-01-03: Deploying EOSC-Core components for FAIR	10,00	23.09.21	1
HORIZON-INFRA-2021-EOSC-01-04: Innovative and customizable services for EOSC	20,00	23.09.21	1
HORIZON-INFRA-2021-EOSC-01-05: Enabling discovery and interoperability of federated research objects across scientific communities	10,00	23.09.21	1
HORIZON-INFRA-2021-EOSC-01-06: FAIR and open data sharing in support of cancer research	8,00	23.09.21	1
Call - Enabling an operational, open and FAIR EOSC ecosystem (2022)			
HORIZON-INFRA-2022-EOSC-01-01: Services and tools to underpin a research assessment system that incentivises open science practices	6,00	20.04.22	3
HORIZON-INFRA-2022-EOSC-01-02: Improving and coordinating technical infrastructure for institutional open access publishing across Europe	5,00	20.04.22	1
HORIZON-INFRA-2022-EOSC-01-03: FAIR and open data	16,00	20.04.22	2



Research infrastructures	Budget (Mio. €) 2021-2022	Deadline	Number of projects
sharing in support of healthy oceans, seas, coastal and inland waters			
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	3,00	20.04.22	1
<b>DESTINATION – RESEARCH INFRASTRUCTURE SERVICES TO SUPPORT HEALTH RESEARCH, ACCELERATE THE GREEN AND DIGITAL TRANSFORMATION, AND ADVANCE FRONTIER KNOWLEDGE (INFRASERV)</b>			
Call - Research infrastructure services to support health research, accelerate the green and digital transformation, and advance frontier knowledge (2021)			
HORIZON-INFRA-2021-SERV-01-01: Research infrastructures services to support research addressing cancer	70,00	23.09.21	1
HORIZON-INFRA-2021-SERV-01-02: Research infrastructures services for a sustainable and resilient agriculture and agro-ecological transitions		23.09.21	1
HORIZON-INFRA-2021-SERV-01-03: Research infrastructures services for responding to climate-related risks on the environment		23.09.21	1
HORIZON-INFRA-2021-SERV-01-04: Research infrastructures services enabling the development of materials for a circular economy		23.09.21	1
HORIZON-INFRA-2021-SERV-01-05: Research infrastructures services for sustainable and inclusive Global Value Chain and Europe recovery from socio-economic crises		23.09.21	1
HORIZON-INFRA-2021-SERV-01-06: Enabling research infrastructure services for better use of imaging data to address challenges in thematic research areas	9,00	23.09.21	3
HORIZON-INFRA-2021-SERV-01-07: Research infrastructures services advancing frontier knowledge	33,20	23.09.21	3
Call - Research infrastructure services to support health research and accelerate the digital transformation (2022)			
HORIZON-INFRA-2022-SERV-01-01: Implementing digital services to empower neuroscience research for health and brain inspired technology via EBRAINS	38,00	21.09.22	1
<b>DESTINATION – NEXT GENERATION OF SCIENTIFIC INSTRUMENTATION, TOOLS AND METHODS AND ADVANCED DIGITAL SOLUTIONS (INFRATECH)</b>			
Call -Next generation of scientific instrumentation, tools and methods (2021)			
HORIZON-INFRA-2021-TECH-01-01: Interdisciplinary digital twins for modelling and simulating complex phenomena at the service of research infrastructure communities	36,00	23.09.21	4
Call -Next generation of scientific instrumentation, tools and methods (2022)			
HORIZON-INFRA-2022-TECH-01-01: R&D for the next generation of scientific instrumentation, tools and methods	110,00	20.04.22	11
<b>DESTINATION – NETWORK CONNECTIVITY IN RESEARCH AND EDUCATION - ENABLING COLLABORATION WITHOUT BOUNDARIES (INFRANET)</b>			
Call -Network connectivity in Research and Education -Enabling collaboration without boundaries (2021)			
HORIZON-INFRA-2021-NET-01-01-FPA	-	02.09.21	1
European research infrastructures Total	454,30		

[Further information](#)



**Pillar II: Global Challenges and European Industrial Competitiveness**

Cluster: Health	Budget (Mio. €) 2021-2022	Deadline	Number of projects
<b>Destination 1 –Staying healthy in a rapidly changing society</b>			
<b>Call -Staying Healthy (2021)</b>			
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	60,00	21.09.21	6
HORIZON-HLTH-2021-STAYHLTH-01-03: Healthy Citizens 2.0 -Supporting digital empowerment and health literacy of citizens	3,00	21.09.21	1
HORIZON-HLTH-2021-STAYHLTH-01-04: A roadmap for personalised prevention	3,00	21.09.21	1
HORIZON-HLTH-2021-STAYHLTH-01-05: Mobilising a network of National Contact Points (NCPs) for the Health Cluster	3,00	21.09.21	1
<b>Call -Staying healthy (Two stage -2022)</b>			
HORIZON-HLTH-2022-STAYHLTH-01-01-two-stage: Boosting mental health in Europe in times of change	50,00	01.02.22 <sup>1)</sup> 06.09.22 <sup>2)</sup>	7
HORIZON-HLTH-2022-STAYHLTH-01-04-two-stage: Trustworthy artificial intelligence (AI) tools to predict the risk of chronic non-communicable diseases and/or their progression	60,00	01.02.22 <sup>1)</sup> 06.09.22 <sup>2)</sup>	10
HORIZON-HLTH-2022-STAYHLTH-01-05-two-stage: Prevention of obesity throughout the life course	60,00	01.02.22 <sup>1)</sup> 06.09.22 <sup>2)</sup>	6
<b>Call - Staying healthy (Single stage, 2022)</b>			
HORIZON-HLTH-2022-STAYHLTH-02-01: Personalised blueprint of chronic inflammation in health-to-disease transition	50,00	21.04.22	7
<b>Destination 2. Living and working in a health-promoting environment</b>			
<b>Call - Environment and health (2021)</b>			
HORIZON-HLTH-2021-ENVHLTH-02-01: Exposure to electromagnetic fields (EMF) and health	30,00	21.09.21	4
HORIZON-HLTH-2021-ENVHLTH-02-02: Indoor air quality and health	40,00	21.09.21	5
HORIZON-HLTH-2021-ENVHLTH-02-03: Health impacts of climate change, costs and benefits of action and inaction	60,00	21.09.21	6
<b>Call -Partnerships in Health (2021)</b>			
HORIZON-HLTH-2021-ENVHLTH-03-01: European partnership for the assessment of risks from chemicals (PARC)	200,00	21.09.21	1
<b>Call -Environment and health (Single Stage -2022)</b>			
HORIZON-HLTH-2022-ENVHLTH-04-01: Methods for assessing health-related costs of environmental stressors	20,00	21.04.22	5
<b>Destination 3. Tackling diseases and reducing disease burden</b>			
<b>Call -Tackling diseases (2021)</b>			
HORIZON-HLTH-2021-DISEASE-04-01: Improved supportive, palliative, survivorship and end-of-life care of cancer patients	50,00	21.09.21	8
HORIZON-HLTH-2021-DISEASE-04-02: Building a European innovation platform for the repurposing of medicinal products	50,00	21.09.21	2
HORIZON-HLTH-2021-DISEASE-04-03: Innovative approaches to enhance poverty-related diseases research in sub-Saharan Africa	40,00	21.09.21	5
HORIZON-HLTH-2021-DISEASE-04-04: Clinical validation of artificial intelligence (AI) solutions for treatment and care	60,00	21.09.21	10
HORIZON-HLTH-2021-DISEASE-04-05: roadmap towards	1,00	21.09.21	1



Cluster: Health	Budget (Mio. €) 2021-2022	Deadline	Number of projects
the creation of the European partnership on One Health antimicrobial resistance (OH AMR)			
HORIZON-HLTH-2021-DISEASE-04-06: Building a European partnership for pandemic preparedness	2,00	21.09.21	1
HORIZON-HLTH-2021-DISEASE-04-07: Personalised medicine and infectious diseases: understanding the individual host response to viruses (e.g. SARS-CoV-2)	60,00	21.09.21	9
Call -Tackling diseases (Two Stage -2022)			
HORIZON-HLTH-2022-DISEASE-06-02-two-stage: Pre-clinical development of the next generation of immunotherapies for diseases or disorders with unmet medical needs	60,00	01.02.22 <sup>1</sup> ) 06.09.22 <sup>2</sup> )	10
HORIZON-HLTH-2022-DISEASE-06-03-two-stage: Vaccines 2.0 -developing the next generation of vaccines	40,00	01.02.22 <sup>1</sup> ) 06.09.22 <sup>2</sup> )	5
HORIZON-HLTH-2022-DISEASE-06-04-two-stage: Development of new effective therapies for rare diseases	60,00	01.02.22 <sup>1</sup> ) 06.09.22 <sup>2</sup> )	8
Call -Tackling diseases (Single Stage -2022)			
HORIZON-HLTH-2022-DISEASE-07-01: Support for the functioning of the Global Research Collaboration for Infectious Disease Preparedness (GloPID-R)	2,00	21.04.22	1
HORIZON-HLTH-2022-DISEASE-07-02: Pandemic preparedness	10,00	21.04.22	3
HORIZON-HLTH-2022-DISEASE-07-03: Non-communicable diseases risk reduction in adolescence and youth (Global Alliance for Chronic Diseases -GACD)	25,00	21.04.22	8
Call -Partnerships in Health (2022)			
HORIZON-HLTH-2022-DISEASE-03-01: European partnership fostering a European Research Area (ERA) for health research	30,00	21.04.22	1
Destination 4. Ensuring access to innovative, sustainable and high-quality health care			
Call -Ensuring access to innovative, sustainable and high-quality health care (2021)			
HORIZON-HLTH-2021-CARE-05-01: Enhancing quality of care and patient safety	25,00	21.09.21	5
HORIZON-HLTH-2021-CARE-05-02: Data-driven decision-support tools for better health care delivery and policy-making with a focus on cancer	40,00	21.09.21	4
HORIZON-HLTH-2021-CARE-05-04: Health care innovation procurement network	5,00	21.09.21	1
Call - Ensuring access to innovative, sustainable and high-quality health care (Single Stage -2022)			
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	25,00	21.04.22	5
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	15,00	21.04.22	3
HORIZON-HLTH-2022-CARE-08-04: Better financing models for health systems	30,00	21.04.22	6
Call -Partnerships in Health (2022)			
HORIZON-HLTH-2022-CARE-10-01: European partnership on transforming health and care systems	100,00	21.04.22	1
Destination 5. Unlocking the full potential of new tools, technologies and digital solutions for a healthy society			
Call -Tools and technologies for a healthy society (2021)			
HORIZON-HLTH-2021-TOOL-06-01: Smart medical devices	25,00	21.09.21	4





Cluster: Health	Budget (Mio. €) 2021-2022	Deadline	Number of projects
and their surgical implantation for use in resource-constrained settings			
HORIZON-HLTH-2021-TOOL-06-02: Next generation advanced therapies to treat highly prevalent and high burden diseases with unmet medical needs	60,00	21.09.21	10
HORIZON-HLTH-2021-TOOL-06-03: Innovative tools for use and re-use of health data (in particular of electronic health records and/or patient registries)	30,00	21.09.21	4
<b>Call -Tools and technologies for a healthy society (Single Stage -2022)</b>			
HORIZON-HLTH-2022-TOOL-11-01: Optimising effectiveness in patients of existing prescription drugs for major diseases (except cancer) with the use of biomarkers	60,00	21.04.22	6
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	35,00	21.04.22	5
<b>Call -Tools and technologies for a healthy society (two-stages -2022)</b>			
HORIZON-HLTH-2022-TOOL-12-01-two-stage: Computational models for new patient stratification strategies	60,00	01.02.22 <sup>1)</sup> 06.09.22 <sup>2)</sup>	10
<b>Destination 6. Maintaining an innovative, sustainable and globally competitive health industry</b>			
<b>Call -A competitive health-related industry (2021)</b>			
HORIZON-HLTH-2021-IND-07-01: Green pharmaceuticals	40,00	21.09.21	5
HORIZON-HLTH-2021-IND-07-02: Development, procurement and responsible management of new antimicrobials	2,00	21.09.21	1
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	2,00	21.09.21	1
<b>Call -A competitive health-related industry (2022)</b>			
HORIZON-HLTH-2022-IND-13-01: Enhancing cybersecurity of connected medical devices	20,00	21.04.22	3
HORIZON-HLTH-2022-IND-13-02: Scaling up multi-party computation, data anonymisation techniques, and synthetic data generation	30,00	21.04.22	4
HORIZON-HLTH-2022-IND-13-03: New pricing and payment models for cost-effective and affordable health innovations	15,00	21.04.22	3
HORIZON-HLTH-2022-IND-13-04: Setting up a European Smart Health Innovation Hub	2,00	21.04.22	1
HORIZON-HLTH-2022-IND-13-05: Setting up a European Electronic Health Record Exchange Format (EEHRxF) Ecosystem	2,00	21.04.22	1
<b>Total</b>	<b>1.652,00</b>		

[Further information](#)



Cluster: Culture, Creativity and Inclusive Society	Budget (Mio. €) 2021-2022	Deadline	Number of projects
<b>DESTINATION INNOVATIVE RESEARCH on DEMOCRACY and GOVERNANCE</b>			
<b>Call -Protecting and nurturing democracies</b>			
HORIZON-CL2-2021-DEMOCRACY-01-01: The future of liberal democracy in Europe	9,90	07.10.21	3
HORIZON-CL2-2021-DEMOCRACY-01-02: Economic models and modern democracies	9,90	07.10.21	3
HORIZON-CL2-2021-DEMOCRACY-01-03: Feminisms for a new age of democracy	9,90	07.10.21	3
HORIZON-CL2-2021-DEMOCRACY-01-04: Democratic politics in the EU's neighbourhood	9,90	07.10.21	3
HORIZON-CL2-2021-DEMOCRACY-01-05: Politics and governance in a post-pandemic world	9,90	07.10.21	3
<b>Call -Reshaping democracies</b>			
HORIZON-CL2-2022-DEMOCRACY-01-01: Artificial intelligence, big data and democracy	9,00	20.04.22	3
HORIZON-CL2-2022-DEMOCRACY-01-02: The future of democracy and civic participation	9,00	20.04.22	3
HORIZON-CL2-2022-DEMOCRACY-01-03: The impact of inequalities on democracy	9,00	20.04.22	3
HORIZON-CL2-2022-DEMOCRACY-01-04: Education for democracy	9,00	20.04.22	3
HORIZON-CL2-2022-DEMOCRACY-01-05: Evolution of political extremism and its influence on contemporary social and political dialogue	9,00	20.04.22	3
HORIZON-CL2-2022-DEMOCRACY-01-06: Media for democracy –democratic media	9,00	20.04.22	3
HORIZON-CL2-2022-DEMOCRACY-01-07: Politics and the impact of online social networks and new media	9,00	20.04.22	3
HORIZON-CL2-2022-DEMOCRACY-01-08: Representative democracy in flux	9,00	20.04.22	3
HORIZON-CL2-2022-DEMOCRACY-01-09: Global governance for a world in transition: Norms, institutions, actors	9,00	20.04.22	3
<b>DESTINATION: INNOVATIVE RESEARCH on the EUROPEAN CULTURAL HERITAGE and the CULTURAL and CREATIVE INDUSTRIES</b>			
<b>Call -Research and innovation on cultural heritage and CCIs -2021</b>			
HORIZON-CL2-2021-HERITAGE-01-01: Green technologies and materials for cultural heritage	12,00	07.10.21	3
HORIZON-CL2-2021-HERITAGE-01-02: New ways of participatory management and sustainable financing of museums and other cultural institutions	9,00	07.10.21	3
HORIZON-CL2-2021-HERITAGE-01-03: Cultural and creative industries as a driver of innovation and competitiveness	12,00	07.10.21	3
HORIZON-CL2-2021-HERITAGE-01-04: Preserving and enhancing cultural heritage with advanced digital technologies	12,00	07.10.21	3
<b>Call -Engagement with stakeholders</b>			
HORIZON-CL2-2021-HERITAGE-02-01: Mobilising the network of National Contact Points in Cluster 2	3,50	07.10.21	1
HORIZON-CL2-2021-HERITAGE-02-02: Coordination of European cultural heritage research and innovation among Member States	3,00	07.10.21	1
<b>Call -Research and innovation on cultural heritage and CCIs -2022</b>			
HORIZON-CL2-2022-HERITAGE-01-01: Safeguarding endangered languages in Europe	3,00	20.04.22	1
HORIZON-CL2-2022-HERITAGE-01-02: Europe's cultural	9,00	20.04.22	3



Cluster: Culture, Creativity and Inclusive Society	Budget (Mio. €) 2021-2022	Deadline	Number of projects
heritage and arts -promoting our values at home and abroad			
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	9,00	20.04.22	3
HORIZON-CL2-2022-HERITAGE-01-04: Traditional crafts for the future: a new approach	12,00	20.04.22	3
HORIZON-CL2-2022-HERITAGE-01-05: Towards a competitive, fair and sustainable European music ecosystem	9,00	20.04.22	3
HORIZON-CL2-2022-HERITAGE-01-06: Increase the potential of the international competitiveness of the European filmmaking industry	12,00	20.04.22	3
HORIZON-CL2-2022-HERITAGE-01-07: Protection of artefacts and cultural goods from anthropogenic threats	12,00	20.04.22	3
HORIZON-CL2-2022-HERITAGE-01-08: Effects of climate change and natural hazards on cultural heritage and remediation	12,00	20.04.22	3
HORIZON-CL2-2022-HERITAGE-01-09: Games and culture shaping our society	9,00	20.04.22	3
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	6,00	20.04.22	2
<b>DESTINATION: INNOVATIVE RESEARCH on SOCIAL and ECONOMIC TRANSFORMATIONS</b>			
<b>Call -Inclusiveness in times of change</b>			
HORIZON-CL2-2021-TRANSFORMATIONS-01-01: Estimates of irregular migrants in Europe -stakeholder network	3,00	07.10.21	1
HORIZON-CL2-2021-TRANSFORMATIONS-01-02: Providing support in a changing world of work and social protection	9,00	07.10.21	3
HORIZON-CL2-2021-TRANSFORMATIONS-01-03: Determining key drivers of inequality trends	10,00	07.10.21	3
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	9,00	07.10.21	3
HORIZON-CL2-2021-TRANSFORMATIONS-01-05: Integration of emerging new technologies into education and training	9,00	07.10.21	3
HORIZON-CL2-2021-TRANSFORMATIONS-01-06: Towards a new normal? Employment and social impacts of changing supply chains and declining trade intensities	9,00	07.10.21	3
HORIZON-CL2-2021-TRANSFORMATIONS-01-07: Upgrading Independent Knowledge on Contemporary China in Europe	8,00	07.10.21	2
<b>Call -A sustainable future for Europe</b>			
HORIZON-CL2-2022-TRANSFORMATIONS-01-01: Public policies and indicators for well-being and sustainable development	9,00	20.04.22	3
HORIZON-CL2-2022-TRANSFORMATIONS-01-02: The impact of spatial mobility on European demographics, society, welfare system and labour market	9,00	20.04.22	3
HORIZON-CL2-2022-TRANSFORMATIONS-01-03: Conditions of irregular migrants in Europe	9,00	20.04.22	3
HORIZON-CL2-2022-TRANSFORMATIONS-01-04: Decision-making processes of (aspiring) migrants	9,00	20.04.22	3
HORIZON-CL2-2022-TRANSFORMATIONS-01-05: Gender and social, economic and cultural empowerment	9,00	20.04.22	3
HORIZON-CL2-2022-TRANSFORMATIONS-01-06: Overcoming discrimination for an inclusive labour market	9,00	20.04.22	3



Cluster: Culture, Creativity and Inclusive Society	Budget (Mio. €) 2021-2022	Deadline	Number of projects
HORIZON-CL2-2022-TRANSFORMATIONS-01-07: Conditions for the successful development of skills matched to needs	9,00	20.04.22	3
HORIZON-CL2-2022-TRANSFORMATIONS-01-08: Strengthening racial, ethnic and religious equality	9,00	20.04.22	3
HORIZON-CL2-2022-TRANSFORMATIONS-01-09: Return and readmission of irregular migrants in the EU	9,00	20.04.22	3
HORIZON-CL2-2022-TRANSFORMATIONS-01-10: Socio-economic effects of ageing societies	9,00	20.04.22	3
<b>Total</b>	<b>422,00</b>		

[Further information](#)



Cluster: Civil Security for Society	Budget (Mio. €) 2021-2022	Deadline	Number of projects
<b>Destination: Better protect the EU and its citizens against Crime and Terrorism</b>			
<b>Call -Fighting Crime and Terrorism 2021</b>			
HORIZON-CL3-2021-FCT-01-01: Terrorism and other forms of serious crime countered using travel intelligence	16,00	23.11.21	1
HORIZON-CL3-2021-FCT-01-02: Lawful interception using new and emerging technologies (5G & beyond, quantum computing and encryption)		23.11.21	1
HORIZON-CL3-2021-FCT-01-03: Disinformation and fake news are combated and trust in the digital world is raised		23.11.21	1
HORIZON-CL3-2021-FCT-01-04: Improved access to fighting crime and terrorism research data	5,00	23.11.21	1
HORIZON-CL3-2021-FCT-01-05: Modern biometrics used in forensic science and by police	5,00	23.11.21	1
HORIZON-CL3-2021-FCT-01-06: Domestic and sexual violence are prevented and combated	6,00	23.11.21	2
HORIZON-CL3-2021-FCT-01-07: Improved preparedness on attacks to public spaces	3,00	23.11.21	1
HORIZON-CL3-2021-FCT-01-08: Fight against trafficking in cultural goods	5,00	23.11.21	1
HORIZON-CL3-2021-FCT-01-09: Fight against organised environmental crime	10,00	23.11.21	1
HORIZON-CL3-2021-FCT-01-10: Fight against firearms trafficking		23.11.21	1
HORIZON-CL3-2021-FCT-01-11: Prevention of child sexual exploitation	6,00	23.11.21	1
HORIZON-CL3-2021-FCT-01-12: Online identity theft is countered		23.11.21	1
<b>Call -Fighting Crime and Terrorism 2022</b>			
HORIZON-CL3-2022-FCT-01-01: Improved crime scene investigations related to transfer, persistence and background abundance	7,00	23.11.22	1
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	3,00	23.11.22	1
HORIZON-CL3-2022-FCT-01-03: Enhanced fight against the abuse of online gaming culture by extremists	3,00	23.11.22	1
HORIZON-CL3-2022-FCT-01-04: Public spaces are protected while respecting privacy and avoiding mass surveillance	3,00	23.11.22	1
HORIZON-CL3-2022-FCT-01-05: Effective fight against corruption	15,00	23.11.22	1
HORIZON-CL3-2022-FCT-01-06: Effective fight against illicit drugs production and trafficking		23.11.22	1
HORIZON-CL3-2022-FCT-01-07: Effective fight against trafficking in human beings		23.11.22	1
<b>Destination: Effective management of EU external borders</b>			
<b>Call -Border Management 2021</b>			
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	20,00	23.11.21	1
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		23.11.21	2
HORIZON-CL3-2021-BM-01-05: Improved detection of concealed objects on, and within the body of, persons		23.11.21	1



Cluster: Civil Security for Society	Budget (Mio. €) 2021-2022	Deadline	Number of projects
HORIZON-CL3-2021-BM-01-02: Increased safety, security, performance of the European Border and Coast Guard and of European customs authorities	2,50	23.11.21	1
HORIZON-CL3-2021-BM-01-04: Advanced detection of threats and illicit goods in postal and express courier flows	8,00	23.11.21	2
<b>Call -Border Management 2022</b>			
HORIZON-CL3-2022-BM-01-01: Improved underwater detection and control capabilities to protect maritime areas and sea harbours	6,00	23.11.22	1
HORIZON-CL3-2022-BM-01-02: Enhanced security of, and combating the frauds on, identity management and identity and travel documents	6,00	23.11.22	1
HORIZON-CL3-2022-BM-01-03: Better, more portable and quicker analysis and detection for customs	6,00	23.11.22	2
HORIZON-CL3-2022-BM-01-04: OPEN TOPIC	3,50	23.11.22	1
HORIZON-CL3-2022-BM-01-05: OPEN TOPIC	3,50	23.11.22	1
<b>Destination: Resilient Infrastructure</b>			
<b>Call -Resilient Infrastructure 2021</b>			
HORIZON-CL3-2021-INFRA-01-01: European infrastructures and their autonomy safeguarded against systemic risks	20,00	23.11.21	1
HORIZON-CL3-2021-INFRA-01-02: Ensured infrastructure resilience in case of Pandemics		23.11.21	1
<b>Call -Resilient Infrastructure 2022</b>			
HORIZON-CL3-2022-INFRA-01-01: Nature-based Solutions integrated to protect local infrastructure	5,00	23.11.22	1
HORIZON-CL3-2022-INFRA-01-02: Autonomous systems used for infrastructure protection	6,00	23.11.22	1
<b>Destination: Increased Cybersecurity</b>			
<b>Call -Increased cybersecurity 2021</b>			
HORIZON-CL3-2021-CS-01-01: Dynamic business continuity and recovery methodologies based on models and prediction for multi-level Cybersecurity	21,50	21.10.21	5
HORIZON-CL3-2021-CS-01-02: Improved security in open-source and open-specification hardware for connected devices	18,00	21.10.21	4
HORIZON-CL3-2021-CS-01-03: AI for cybersecurity reinforcement	11,00	21.10.21	3
HORIZON-CL3-2021-CS-01-04: Scalable privacy-preserving technologies for cross-border federated computation in Europe involving personal data	17,00	21.10.21	4
<b>Call -Increased cybersecurity 2022</b>			
HORIZON-CL3-2022-CS-01-01: Improved monitoring of threats, intrusion detection and response in complex and heterogeneous digital systems and infrastructures	21,00	16.11.22	4
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	17,30	16.11.22	4
HORIZON-CL3-2022-CS-01-03: Transition towards Quantum-Resistant Cryptography	11,00	16.11.22	2
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	18,00	16.11.22	4



Cluster: Civil Security for Society	Budget (Mio. €) 2021-2022	Deadline	Number of projects
Destination: Disaster-Resilient Society for Europe			
Call -Disaster-Resilient Society 2021			
HORIZON-CL3-2021-DRS-01-01: Improved understanding of risk exposure and its public awareness in areas exposed to multi-hazards	5,00	23.11.21	1
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	6,00	23.11.21	1
HORIZON-CL3-2021-DRS-01-03: Enhanced assessment of disaster risks, adaptive capabilities and scenario building based on available historical data and projections	5,00	23.11.21	1
HORIZON-CL3-2021-DRS-01-04: Developing a prioritisation mechanism for research programming in standardisation related to natural hazards and/or CBRN-E sectors	2,00	23.11.21	1
HORIZON-CL3-2021-DRS-01-05: Fast deployed mobile laboratories to enhance situational awareness for pandemics and emerging infectious diseases	8,00	23.11.21	2
Call -Disaster-Resilient Society 2022			
HORIZON-CL3-2022-DRS-01-01: Enhanced citizen preparedness in the event of a disaster or crisis-related emergency	10,00	23.11.22	1
HORIZON-CL3-2022-DRS-01-03: Improved quality assurance / quality control of data used in decision-making related to riskmanagement of natural hazards, accidents and CBRN events		23.11.22	1
HORIZON-CL3-2022-DRS-01-02: Enhanced preparedness and management of High-Impact Low-Probability or unexpected events	10,00	23.11.22	1
HORIZON-CL3-2022-DRS-01-04: Better understanding of citizens' behavioural and psychological reactions in the event of a disaster or crisis situation		23.11.22	1
HORIZON-CL3-2022-DRS-01-05: Improved impact forecasting and early warning systems supporting the rapid deployment of first responders in vulnerable areas	10,00	23.11.22	1
HORIZON-CL3-2022-DRS-01-06: Improved disaster risk pricing assessment		23.11.22	1
HORIZON-CL3-2022-DRS-01-07: Improved international cooperation addressing first responder capability gaps	5,00	23.11.22	1
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	11,00	23.11.22	1
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		23.11.22	1
Destination: Strengthened Security Research and Innovation			
Call -Support to Security Research and Innovation 2021			
HORIZON-CL3-2021-SSRI-01-01: A maturity assessment framework for security technologies	1,50	23.11.21	1
HORIZON-CL3-2021-SSRI-01-02: Knowledge Networks for Security Research & Innovation	4,00	23.11.21	2
HORIZON-CL3-2021-SSRI-01-03: National Contact Points (NCPs) in the field of security and cybersecurity	2,50	23.11.21	1
HORIZON-CL3-2021-SSRI-01-04: Demand-led innovation for	6,00	23.11.21	1



Cluster: Civil Security for Society	Budget (Mio. €) 2021-2022	Deadline	Number of projects
situation awareness in civil protection			
HORIZON-CL3-2021-SSRI-01-05: Security research technologies driven by active civil society engagement: transdisciplinary methods for societal impact assessment and impact creation	2,00	23.11.21	1
<b>Call -Support to Security Research and Innovation 2022</b>			
HORIZON-CL3-2022-SSRI-01-01: Increased foresight capacity for security	1,50	23.11.22	1
HORIZON-CL3-2022-SSRI-01-02: Knowledge Networks for security Research & Innovation	4,00	23.11.22	2
HORIZON-CL3-2022-SSRI-01-03: Stronger grounds for pre-commercial procurement of innovative security technologies	2,00	23.11.22	2
HORIZON-CL3-2022-SSRI-01-04: Social innovations as enablers of security solutions and increased security perception	2,00	23.11.22	1
<b>Total</b>	<b>405,80</b>		

[Further information](#)





Cluster: Digital, Industry and Space	Budget (Mio. €) 2021-2022	Deadline	Number of projects
<b>DESTINATION –CLIMATE NEUTRAL, CIRCULAR AND DIGITISED PRODUCTION</b>			
<b>Call -TWIN GREEN AND DIGITAL TRANSITION 2021</b>			
HORIZON-CL4-2021-TWIN-TRANSITION-01-01: AI enhanced robotics systems for smart manufacturing (AI, Data and Robotics -Made in Europe Partnerships) (IA)	28,00	23.09.21	3
HORIZON-CL4-2021-TWIN-TRANSITION-01-02: Zero-defect manufacturing towards zero-waste (Made in Europe Partnership) (IA)	27,00	23.09.21	3
HORIZON-CL4-2021-TWIN-TRANSITION-01-03: Laser-based technologies for green manufacturing (Photonics -Made in Europe Partnerships) (RIA)	26,00	23.09.21	4
HORIZON-CL4-2021-TWIN-TRANSITION-01-05: Manufacturing technologies for bio-based materials (Made in Europe Partnership) (RIA)	20,00	23.09.21	4
HORIZON-CL4-2021-TWIN-TRANSITION-01-07: Artificial Intelligence for sustainable, agile manufacturing (AI, Data and Robotics -Made in Europe Partnerships) (IA)	18,00	23.09.21	3
HORIZON-CL4-2021-TWIN-TRANSITION-01-08: Data-driven Distributed Industrial Environments (Made in Europe Partnership) (IA)	24,00	23.09.21	3
HORIZON-CL4-2021-TWIN-TRANSITION-01-10: Digital permits and compliance checks for buildings and infrastructure (IA)	15,00	23.09.21	3
HORIZON-CL4-2021-TWIN-TRANSITION-01-11: Automated tools for the valorisation of construction waste (RIA)	21,00	23.09.21	3
HORIZON-CL4-2021-TWIN-TRANSITION-01-12: Breakthrough technologies supporting technological sovereignty in construction (RIA)	24,00	23.09.21	3
HORIZON-CL4-2021-TWIN-TRANSITION-01-14: Deploying industrial-urban symbiosis solutions for the utilization of energy, water, industrial waste and by-products at regional scale (Processes4Planet Partnership) (RIA)	28,00	23.09.21	3
HORIZON-CL4-2021-TWIN-TRANSITION-01-16: Hubs for Circularity European Community of Practice (ECOP) platform (Processes4Planet Partnership) (CSA)	2,00	23.09.21	1
HORIZON-CL4-2021-TWIN-TRANSITION-01-17: Plastic waste as a circular carbon feedstock for industry (Processes4Planet Partnership) (IA)	39,00	23.09.21	3
HORIZON-CL4-2021-TWIN-TRANSITION-01-18: Carbon Direct Avoidance in steel: Electricity and hydrogen-based metallurgy (Clean Steel Partnership) (IA)	28,00	23.09.21	3
HORIZON-CL4-2021-TWIN-TRANSITION-01-19: Improvement of the yield of the iron and steel making (Clean Steel Partnership) (IA)	14,00	23.09.21	4
HORIZON-CL4-2021-TWIN-TRANSITION-01-20: Reducing environmental footprint, improving circularity in extractive and processing value chains (IA)	36,00	23.09.21	3
HORIZON-CL4-2021-TWIN-TRANSITION-01-21: Design and optimisation of energy flexible industrial processes (Processes4Planet Partnership) (IA)	39,00	23.09.21	3
HORIZON-CL4-2021-TWIN-TRANSITION-01-22: Adjustment of Steel process production to prepare for the transition towards climate neutrality (Clean Steel Partnership) (IA)	14,00	23.09.21	3
<b>Call -CLIMATE NEUTRAL, CIRCULAR AND DIGITISED PRODUCTION 2022</b>			



Cluster: Digital, Industry and Space	Budget (Mio. €) 2021-2022	Deadline	Number of projects
HORIZON-CL4-2022-TWIN-TRANSITION-01-01: Rapid reconfigurable production process chains (Made in Europe Partnership) (IA)	27,50	30.03.22	3
HORIZON-CL4-2022-TWIN-TRANSITION-01-02: Products with complex functional surfaces (Made in Europe Partnership) (RIA)	21,50	30.03.22	4
HORIZON-CL4-2022-TWIN-TRANSITION-01-03: Excellence in distributed control and modular manufacturing (Made in Europe Partnership) (RIA)	21,50	30.03.22	4
HORIZON-CL4-2022-TWIN-TRANSITION-01-04: Intelligent work piece handling in a full production line (Made in Europe Partnership) (RIA)	21,50	30.03.22	4
HORIZON-CL4-2022-TWIN-TRANSITION-01-06: ICT Innovation for Manufacturing Sustainability in SMEs (I4MS2) (Made in Europe Partnership) (IA)	30,00	30.03.22	4
HORIZON-CL4-2022-TWIN-TRANSITION-01-07: Digital tools to support the engineering of a Circular Economy (Made in Europe Partnership) (RIA)	22,00	30.03.22	3
HORIZON-CL4-2022-TWIN-TRANSITION-01-09: Demonstrate the use of Digital Logbook for buildings (IA)	9,00	30.03.22	2
HORIZON-CL4-2022-TWIN-TRANSITION-01-10: Circular flows for solid waste in urban environment (Processes4Planet Partnership) (IA)	42,50	30.03.22	3
HORIZON-CL4-2022-TWIN-TRANSITION-01-11: Valorisation of CO/CO2 streams into added-value products of market interest (Processes4Planet Partnership) (IA)	42,50	30.03.22	3
HORIZON-CL4-2022-TWIN-TRANSITION-01-13: Raw material preparation for clean steel production (Clean Steel Partnership) (IA)	14,00	30.03.22	3
HORIZON-CL4-2022-TWIN-TRANSITION-01-15: New electrochemical conversion routes for the production of chemicals and materials in process industries (Processes4Planet Partnership) (RIA)	30,00	30.03.22	3
HORIZON-CL4-2022-TWIN-TRANSITION-01-16: Modular and hybrid heating technologies in steel production (Clean Steel Partnership) (IA)	10,00	30.03.22	3
HORIZON-CL4-2022-TWIN-TRANSITION-01-17: Integration of hydrogen for replacing fossil fuels in industrial applications (Processes4Planet Partnership) (IA)	42,50	30.03.22	3
<b>DESTINATION –INCREASED AUTONOMY IN KEY STRATEGIC VALUE CHAINS FOR RESILIENT INDUSTRY</b>			
<b>Call -A DIGITISED, RESOURCE-EFFICIENT AND RESILIENT INDUSTRY 2021</b>			
HORIZON-CL4-2021-RESILIENCE-01-01: Ensuring circularity of composite materials (Processes4Planet Partnership) (RIA)	24,70	23.09.21	3
HORIZON-CL4-2021-RESILIENCE-01-03: Identifying future availability of secondary raw materials (RIA)	13,50	23.09.21	1
HORIZON-CL4-2021-RESILIENCE-01-04: Developing climate-neutral and circular raw materials (IA)	36,00	23.09.21	3
HORIZON-CL4-2021-RESILIENCE-01-05: Building EU-Africa partnerships on sustainable raw materials value chains (CSA)	8,00	23.09.21	1
HORIZON-CL4-2021-RESILIENCE-01-06: Innovation for responsible EU sourcing of primary raw materials, the foundation of the Green Deal (RIA)	30,00	23.09.21	4
HORIZON-CL4-2021-RESILIENCE-01-07: Building innovative value chains from raw materials to sustainable products (IA)	36,00	23.09.21	3



Cluster: Digital, Industry and Space	Budget (Mio. €) 2021-2022	Deadline	Number of projects
HORIZON-CL4-2021-RESILIENCE-01-08: Establishing EU led international community on safe-and sustainable-by-design materials to support embedding sustainability criteria over the life cycle of products and processes (CSA)	4,00	23.09.21	1
HORIZON-CL4-2021-RESILIENCE-01-09: Promote Europe's availability, affordability, sustainability and security of supply of essential chemicals and materials (IA)	28,00	23.09.21	3
HORIZON-CL4-2021-RESILIENCE-01-10: Paving the way to an increased share of recycled plastics in added value products (RIA)	23,00	23.09.21	3
HORIZON-CL4-2021-RESILIENCE-01-11: Safe-and sustainable-by-design polymeric materials (RIA)	19,00	23.09.21	5
HORIZON-CL4-2021-RESILIENCE-01-12: Safe-and sustainable-by-design metallic coatings and engineered surfaces (RIA)	19,00	23.09.21	4
HORIZON-CL4-2021-RESILIENCE-01-14: Development of more energy efficient electrically heated catalytic reactors (IA)	33,00	23.09.21	8
HORIZON-CL4-2021-RESILIENCE-01-16: Creation of an innovation community for solar fuels and chemicals (CSA)	4,00	23.09.21	1
HORIZON-CL4-2021-RESILIENCE-01-17: Advanced materials for hydrogen storage (RIA)	21,00	23.09.21	4
HORIZON-CL4-2021-RESILIENCE-01-20: Antimicrobial, Antiviral, and Antifungal Nanocoatings (RIA)	23,00	23.09.21	4
HORIZON-CL4-2021-RESILIENCE-01-25: Biomaterials database for Health Applications (CSA)	6,00	23.09.21	2
HORIZON-CL4-2021-RESILIENCE-01-26: Sustainable Industry Commons (RIA)	6,00	23.09.21	2
HORIZON-CL4-2021-RESILIENCE-01-27: Innovation Radar, Tech Due Diligence and Venture Building for strategic digital technologies (CSA)	4,00	23.09.21	1
HORIZON-CL4-2021-RESILIENCE-01-28: Re-opening industrial sites preparatory action –Promoting a sustainable strategy for Europe's industrial future (CSA)	2,00	23.09.21	1
HORIZON-CL4-2021-RESILIENCE-01-29: 'Innovate to transform' support for SME's sustainability transition (CSA)	10,00	23.09.21	2
HORIZON-CL4-2021-RESILIENCE-01-31: European Technological and Social Innovation Factory (RIA)	5,00	23.09.21	1
<b>Call -A DIGITISED, RESOURCE-EFFICIENT AND RESILIENT INDUSTRY 2022</b>			
HORIZON-CL4-2022-RESILIENCE-01-01: Circular and low emission value chains through digitalisation (Processes4Planet Partnership) (RIA)	25,30	30.03.22	4
HORIZON-CL4-2022-RESILIENCE-01-02: Monitoring and supervising system for exploration and future exploitation activities in the deep sea (RIA)	14,00	30.03.22	1
HORIZON-CL4-2022-RESILIENCE-01-03: Streamlining cross-sectoral policy framework throughout the extractive life-cycle in environmentally protected areas (CSA)	2,40	30.03.22	1
HORIZON-CL4-2022-RESILIENCE-01-04: Developing digital platforms for the small scale extractive industry (IA)	15,00	30.03.22	3
HORIZON-CL4-2022-RESILIENCE-01-05: Technological solutions for tracking raw material flows in complex supply chains (RIA)	13,50	30.03.22	1
HORIZON-CL4-2022-RESILIENCE-01-06: Sustainable and innovative mine of the future (IA)	36,00	30.03.22	3
HORIZON-CL4-2022-RESILIENCE-01-07: Innovative solutions	36,00	30.03.22	3



Cluster: Digital, Industry and Space	Budget (Mio. €) 2021-2022	Deadline	Number of projects
for efficient use and enhanced recovery of mineral and metal by-products from processing of raw materials (IA)			
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)	13,50	30.03.22	3
HORIZON-CL4-2022-RESILIENCE-01-10: Innovative materials for advanced (nano)electronic components and systems (RIA)	20,00	30.03.22	4
HORIZON-CL4-2022-RESILIENCE-01-11: Advanced lightweight materials for energy efficient structures (RIA)	20,00	30.03.22	5
HORIZON-CL4-2022-RESILIENCE-01-12: Functional multi-material components and structures (RIA)	20,00	30.03.22	4
HORIZON-CL4-2022-RESILIENCE-01-13: Smart and multifunctional biomaterials for health innovations (RIA)	20,00	30.03.22	3
HORIZON-CL4-2022-RESILIENCE-01-14: Membranes for gas separations -membrane distillation (IA)	21,00	30.03.22	6
HORIZON-CL4-2022-RESILIENCE-01-16: Building and renovating by exploiting advanced materials for energy and resources efficient management (IA)	21,00	30.03.22	3
HORIZON-CL4-2022-RESILIENCE-01-19: Advanced materials modelling and characterisation (RIA)	18,00	30.03.22	3
HORIZON-CL4-2022-RESILIENCE-01-20: Climate Neutral and Circular Innovative Materials Technologies Open Innovation Test Beds (IA)	34,00	30.03.22	3
HORIZON-CL4-2022-RESILIENCE-01-21: Leveraging standardisation in Digital Technologies (CSA)	4,50	30.03.22	1
HORIZON-CL4-2022-RESILIENCE-01-23: Safe-and sustainable-by-design organic and hybrid coatings (RIA)	20,00	30.03.22	4
HORIZON-CL4-2022-RESILIENCE-01-24: Novel materials for supercapacitor energy storage (RIA)	23,00	30.03.22	4
HORIZON-CL4-2022-RESILIENCE-01-25: Optimised Industrial Systems and Lines through digitalisation (IA)	15,00	30.03.22	1
HORIZON-CL4-2022-RESILIENCE-01-26: 'Innovate to transform' support for SME's sustainability transition (CSA)	10,00	30.03.22	2
<b>Call -A DIGITISED, RESOURCE-EFFICIENT AND RESILIENT INDUSTRY 2021 (PCP)</b>			
HORIZON-CL4-2022-RESILIENCE-02-01-PCP: Boosting green economic recovery and open strategic autonomy in Strategic Digital Technologies through pre-commercial procurement (PCP action)	9,00	30.03.22	1
<b>DESTINATION –WORLD LEADING DATA AND COMPUTING TECHNOLOGIES</b>			
<b>Call -WORLD LEADING DATA AND COMPUTING TECHNOLOGIES 2021</b>			
HORIZON-CL4-2021-DATA-01-01: Technologies and solutions for compliance, privacy preservation, green and responsible data operations (AI, Data and Robotics Partnership) (RIA)	52,00	21.10.21	5
HORIZON-CL4-2021-DATA-01-03: Technologies for data management (AI, Data and Robotics Partnership) (IA)	30,00	21.10.21	6
HORIZON-CL4-2021-DATA-01-05: Future European platforms for the Edge: Meta Operating Systems (RIA)	54,00	21.10.21	5
HORIZON-CL4-2021-DATA-01-07: Coordination and Support of the 'Cloud-Edge-IoT' domain (CSA)	3,00	21.10.21	2
HORIZON-CL4-2021-DATA-01-08: Roadmap for next generation computing and systems technologies (CSA)	2,00	21.10.21	1
<b>Call -WORLD LEADING DATA AND COMPUTING TECHNOLOGIES 2022</b>			
HORIZON-CL4-2022-DATA-01-01: Methods for exploiting data and knowledge for extremely precise outcomes (analysis,	33,00	05.04.22	3



Cluster: Digital, Industry and Space	Budget (Mio. €) 2021-2022	Deadline	Number of projects
prediction, decision support), reducing complexity and presenting insights in understandable way (RIA)			
HORIZON-CL4-2022-DATA-01-02: Cognitive Cloud: AI-enabled computing continuum from Cloud to Edge (RIA)	50,00	05.04.22	10
HORIZON-CL4-2022-DATA-01-03: Programming tools for decentralised intelligence and swarms (RIA)	40,00	05.04.22	5
HORIZON-CL4-2022-DATA-01-04: Technologies and solutions for data trading, monetizing, exchange and interoperability (AI, Data and Robotics Partnership) (IA)	52,00	05.04.22	4
HORIZON-CL4-2022-DATA-01-05: Extreme data mining, aggregation and analytics technologies and solutions (RIA)	30,00	05.04.22	6
<b>DESTINATION –DIGITAL AND EMERGING TECHNOLOGIES FORCOMPETITIVENESS AND FIT FOR THE GREEN DEAL</b>			
<b>Call -Digital and emerging technologies for competitiveness and fit for the green deal</b>			
HORIZON-CL4-2021-DIGITAL-EMERGING-01-01: Ultra-low-power, secure processors for edge computing (RIA)	26,00	21.10.21	3
HORIZON-CL4-2021-DIGITAL-EMERGING-01-05: Open Source Hardware for ultra-low-power, secure processors (CSA)	2,00	21.10.21	1
HORIZON-CL4-2021-DIGITAL-EMERGING-01-06: Advanced optical communicationcomponents (Photonics Partnership) (IA)	26,00	21.10.21	6
HORIZON-CL4-2021-DIGITAL-EMERGING-01-07: Advanced Photonic Integrated Circuits (Photonics Partnership) (RIA)	39,00	21.10.21	8
HORIZON-CL4-2021-DIGITAL-EMERGING-01-09: AI, Data and Robotics for the Green Deal (AI, Data and Robotics Partnership) (IA)	27,00	21.10.21	7
HORIZON-CL4-2021-DIGITAL-EMERGING-01-10: AI, Data and Robotics at work (AI, Data and Robotics Partnership) (IA)	22,00	21.10.21	6
HORIZON-CL4-2021-DIGITAL-EMERGING-01-11: Pushing the limit of robotics cognition (AI, Data and Robotics Partnership) (RIA)	44,50	21.10.21	9
HORIZON-CL4-2021-DIGITAL-EMERGING-01-12: European Network of Excellence Centres in Robotics (RIA)	11,50	21.10.21	1
HORIZON-CL4-2021-DIGITAL-EMERGING-01-13: Academia-Industry Forum on Emerging Enabling Technologies (CSA)	2,50	21.10.21	1
HORIZON-CL4-2021-DIGITAL-EMERGING-01-14: Advanced spintronics: Unleashing spin in the next generation ICs (RIA)	17,00	21.10.21	6
HORIZON-CL4-2021-DIGITAL-EMERGING-01-21: Next generation quantum sensing technologies (RIA)	13,50	21.10.21	2
HORIZON-CL4-2021-DIGITAL-EMERGING-01-23: International cooperation with Canada (RIA)	4,00	21.10.21	4
HORIZON-CL4-2021-DIGITAL-EMERGING-01-26: Coordination of European Smart Network actions (CSA)	3,00	21.10.21	1
HORIZON-CL4-2021-DIGITAL-EMERGING-01-27: Development of technologies/devices for bio-intelligent manufacturing (RIA)	22,50	21.10.21	4
HORIZON-CL4-2021-DIGITAL-EMERGING-01-30: Investing in new emerging quantum computing technologies (RIA)	10,00	21.10.21	2
HORIZON-CL4-2021-DIGITAL-EMERGING-01-31: Functional electronics for green and circular economy (RIA)	35,00	21.10.21	9
HORIZON-CL4-2021-DIGITAL-EMERGING-01-32: Support and coordination of the Quantum Technologies Flagship Initiative (CSA)	6,40	21.10.21	1
<b>Call -Digital and emerging technologies for competitiveness and fit for the green deal</b>			
HORIZON-CL4-2021-DIGITAL-EMERGING-02-10: Strengthening the quantum software ecosystem for	12,00	27.01.22	2



Cluster: Digital, Industry and Space	Budget (Mio. €) 2021-2022	Deadline	Number of projects
quantum computing platforms (RIA)			
HORIZON-CL4-2021-DIGITAL-EMERGING-02-15: Framework Partnership Agreement for developing the first large-scale quantum computers (FPA)		27.01.22	0
HORIZON-CL4-2021-DIGITAL-EMERGING-02-16: Basic Science for Quantum Technologies (RIA)	16,00	27.01.22	5
HORIZON-CL4-2021-DIGITAL-EMERGING-02-17: Framework Partnership Agreement for developing large scale quantum simulation platform technologies (FPA)		27.01.22	0
HORIZON-CL4-2021-DIGITAL-EMERGING-02-19: Framework Partnership Agreements in Quantum Communications (FPA)		27.01.22	0
HORIZON-CL4-2021-DIGITAL-EMERGING-02-20: Quantum sensing technologies for market uptake (IA)	23,00	27.01.22	3
HORIZON-CL4-2021-DIGITAL-EMERGING-02-22: Framework Partnership Agreements for open testing and experimentation and for pilot production capabilities for quantum technologies (FPA)		27.01.22	0
<b>Call -Digital and emerging technologies for competitiveness and fit for the green deal</b>			
HORIZON-CL4-2022-DIGITAL-EMERGING-01-03: Advanced multi-sensing systems (Photonics Partnership) (RIA)	48,00	05.04.22	10
HORIZON-CL4-2022-DIGITAL-EMERGING-01-05: AI, Data and Robotics for Industry optimisation (including production and services) (AI, Data and Robotics Partnership) (IA)	19,00	05.04.22	5
HORIZON-CL4-2022-DIGITAL-EMERGING-01-06: Pushing the limit of physical intelligence and performance (RIA)	29,50	05.04.22	7
HORIZON-CL4-2022-DIGITAL-EMERGING-01-07: Increased robotics capabilities demonstrated in key sectors (AI, Data and Robotics Partnership) (IA)	36,00	05.04.22	6
HORIZON-CL4-2022-DIGITAL-EMERGING-01-26: Open source for cloud-based services (RIA)	22,00	05.04.22	4
HORIZON-CL4-2022-DIGITAL-EMERGING-01-30: European Enabling technologies for Beyond 5G/6G RAN disaggregated architectures (RIA)	13,00	05.04.22	1
HORIZON-CL4-2022-DIGITAL-EMERGING-01-35: Advanced characterisation methodologies to assess and predict the health and environmental risks of nanomaterials (RIA)	17,50	05.04.22	5
HORIZON-CL4-2022-DIGITAL-EMERGING-01-38: International cooperation in semiconductors (CSA)	3,00	05.04.22	1
HORIZON-CL4-2022-DIGITAL-EMERGING-01-39: Ultra low energy and secure networks (RIA)	13,00	05.04.22	1
<b>Call -Digital and emerging technologies for competitiveness and fit for the green deal</b>			
HORIZON-CL4-2022-DIGITAL-EMERGING-02-17: New generation of advanced electronic and photonic 2D materials-based devices, systems and sensors (RIA)	16,50	16.11.22	1
HORIZON-CL4-2022-DIGITAL-EMERGING-02-18: 2D materials-based devices and systems for energy storage and/or harvesting (RIA)	9,00	16.11.22	1
HORIZON-CL4-2022-DIGITAL-EMERGING-02-19: 2D materials-based devices and systems for biomedical applications (RIA)	6,00	16.11.22	1
HORIZON-CL4-2022-DIGITAL-EMERGING-02-20: 2D-material-based composites, coatings and foams (IA)	9,00	16.11.22	1
HORIZON-CL4-2022-DIGITAL-EMERGING-02-22: Supporting the coordination of the Graphene Flagship projects (CSA)	3,00	16.11.22	1



Cluster: Digital, Industry and Space	Budget (Mio. €) 2021-2022	Deadline	Number of projects
<b>DESTINATION –OPEN STRATEGIC AUTONOMY IN DEVELOPING, DEPLOYING AND USING GLOBAL SPACE-BASED INFRASTRUCTURES, SERVICES, APPLICATIONS AND DATA</b>			
<b>Call -STRATEGIC AUTONOMY IN DEVELOPING, DEPLOYING AND USING GLOBAL SPACE-BASED INFRASTRUCTURES, SERVICES, APPLICATIONS AND DATA 2021</b>			
HORIZON-CL4-2021-SPACE-01-11: End-to-end satellite communication systems and associated services	12,00	16.02.22	2
HORIZON-CL4-2021-SPACE-01-12: Future space ecosystems: on-orbit operations, new system concepts	6,00	16.02.22	3
HORIZON-CL4-2021-SPACE-01-21: Reusability for European strategic space launchers -technologies and operation maturation including flight test demonstration	39,00	16.02.22	1
HORIZON-CL4-2021-SPACE-01-22: Low cost high thrust propulsion for European strategic space launchers -technologies maturation including ground tests	19,80	16.02.22	1
HORIZON-CL4-2021-SPACE-01-23: New space transportation solutions and services	3,00	16.02.22	2
HORIZON-CL4-2021-SPACE-01-41: Copernicus Climate Change Service evolution	11,00	16.02.22	1
HORIZON-CL4-2021-SPACE-01-42: Copernicus Atmosphere Monitoring Service evolution	7,50	16.02.22	1
HORIZON-CL4-2021-SPACE-01-43: Copernicus Security and Emergency Services evolution	5,00	16.02.22	1
HORIZON-CL4-2021-SPACE-01-44: Copernicus evolution for cross-services thematic domains	5,60	16.02.22	2
HORIZON-CL4-2021-SPACE-01-62: Quantum technologies for space gravimetry	17,00	16.02.22	1
HORIZON-CL4-2021-SPACE-01-81: Space technologies for European non-dependence and competitiveness	10,32	16.02.22	4
<b>Call -STRATEGIC AUTONOMY IN DEVELOPING, DEPLOYING AND USING GLOBAL SPACE-BASED INFRASTRUCTURES, SERVICES, APPLICATIONS AND DATA 2022</b>			
HORIZON-CL4-2022-SPACE-01-11: Future space ecosystems: on-orbit operations, preparation of orbital demonstration mission	26,00	16.02.22	1
HORIZON-CL4-2022-SPACE-01-12: Technologies and generic building blocks for Electrical Propulsion	5,10	16.02.22	3
HORIZON-CL4-2022-SPACE-01-13: End-to-end Earth observation systems and associated services	8,10	16.02.22	3
HORIZON-CL4-2022-SPACE-01-21: Multi sites flexible industrial platform and standardised technology for improving interoperability of European access to space ground facilities	2,00	16.02.22	1
HORIZON-CL4-2022-SPACE-01-41: Copernicus Marine Environment Monitoring Service evolution	10,00	16.02.22	1
HORIZON-CL4-2022-SPACE-01-42: Copernicus Anthropogenic CO <sub>2</sub> Emissions Monitoring & Verification Support (MVS) capacity	6,00	16.02.22	1
HORIZON-CL4-2022-SPACE-01-43: Copernicus Land Monitoring Service evolution	5,00	16.02.22	1
HORIZON-CL4-2022-SPACE-01-62: Space Weather	2,00	16.02.22	2
HORIZON-CL4-2022-SPACE-01-72: Education and skills for the EU space sector	3,00	16.02.22	1
HORIZON-CL4-2022-SPACE-01-81: Space technologies for European non-dependence and competitiveness	10,50	16.02.22	4



Cluster: Digital, Industry and Space	Budget (Mio. €) 2021-2022	Deadline	Number of projects
HORIZON-CL4-2022-SPACE-01-82: Space science and exploration technologies	8,00	16.02.22	6
<b>DESTINATION –A HUMAN-CENTRED AND ETHICAL DEVELOPMENT OF DIGITAL AND INDUSTRIAL TECHNOLOGIES</b>			
<b>Call -A HUMAN-CENTRED AND ETHICAL DEVELOPMENT OF DIGITAL AND INDUSTRIAL TECHNOLOGIES 2021</b>			
HORIZON-CL4-2021-HUMAN-01-01: Verifiable robustness, energy efficiency and transparency for Trustworthy AI: Scientific excellence boosting industrial competitiveness (AI, Data and Robotics Partnership) (RIA)	36,00	21.10.21	9
HORIZON-CL4-2021-HUMAN-01-02: European coordination, awareness, standardisation & adoption of trustworthy European AI, Data and Robotics (AI, Data and Robotics Partnership) (CSA)	13,00	21.10.21	2
HORIZON-CL4-2021-HUMAN-01-03: European Network of AI Excellence Centres: Pillars of the European AI lighthouse (RIA)	9,00	21.10.21	1
HORIZON-CL4-2021-HUMAN-01-04: Trust & data sovereignty on the Internet (RIA)	12,00	21.10.21	1
HORIZON-CL4-2021-HUMAN-01-05: Trustworthy open search and discovery (RIA)	17,00	21.10.21	2
HORIZON-CL4-2021-HUMAN-01-06: Innovation for Media, including eXtended Reality (IA)	26,00	21.10.21	3
HORIZON-CL4-2021-HUMAN-01-07: Next Generation Internet community-building and outreach (CSA)	2,00	21.10.21	1
HORIZON-CL4-2021-HUMAN-01-08: NGI International Collaboration -Transatlantic fellowship programme (CSA)	2,00	21.10.21	1
HORIZON-CL4-2021-HUMAN-01-09: NGI Tech Review (CSA)	1,50	21.10.21	1
HORIZON-CL4-2021-HUMAN-01-13: eXtended Reality Modelling (RIA)	14,50	21.10.21	3
HORIZON-CL4-2021-HUMAN-01-14: eXtended Reality for All – Haptics (RIA)	6,00	21.10.21	1
HORIZON-CL4-2021-HUMAN-01-17: Awareness raising on Intellectual property (IP) management for European R&I (CSA)	1,00	21.10.21	1
HORIZON-CL4-2021-HUMAN-01-18: Fostering standardisation to boost European industry's competitiveness (CSA)	1,00	21.10.21	1
HORIZON-CL4-2021-HUMAN-01-19: Testing innovative solutions on local communities' demand (CSA)	5,00	21.10.21	1
HORIZON-CL4-2021-HUMAN-01-20: Piloting a new industry-academia knowledge exchange focussing on companies' needs (CSA)	2,00	21.10.21	1
HORIZON-CL4-2021-HUMAN-01-21: Art-driven use experiments and design (RIA)	8,50	21.10.21	3
HORIZON-CL4-2021-HUMAN-01-24: Tackling gender, race and other biases in AI (RIA)	10,00	21.10.21	3
HORIZON-CL4-2021-HUMAN-01-25: eXtended Collaborative Telepresence (IA)	14,00	21.10.21	2
HORIZON-CL4-2021-HUMAN-01-26: Workforce skills for industry 5.0 (RIA)	5,00	21.10.21	1
HORIZON-CL4-2021-HUMAN-01-27: AI to fight disinformation (RIA)	13,00	21.10.21	2
HORIZON-CL4-2021-HUMAN-01-28: eXtended Reality Ethics, Interoperability and Impact (CSA)	2,50	21.10.21	1
HORIZON-CL4-2021-HUMAN-01-29: Support for transnational activities of National Contact Points in the thematic area of	2,50	21.10.21	1





Cluster: Digital, Industry and Space	Budget (Mio. €) 2021-2022	Deadline	Number of projects
Digital (CSA)			
HORIZON-CL4-2021-HUMAN-01-30: Support for transnational activities of National Contact Points in the thematic area of Industry (CSA)	1,50	21.10.21	1
HORIZON-CL4-2021-HUMAN-01-31: Support for transnational activities of National Contact Points in the thematic area of Space (CSA)	1,00	21.10.21	1
<b>Call -A HUMAN-CENTRED AND ETHICAL DEVELOPMENT OF DIGITAL AND INDUSTRIAL TECHNOLOGIES 2022</b>			
HORIZON-CL4-2022-HUMAN-01-01: AI for human empowerment (AI, Data and Robotics Partnership) (RIA)	16,00	05.04.22	4
HORIZON-CL4-2022-HUMAN-01-02: European Network of AI Excellence Centres: Expanding the European AI lighthouse (RIA)	34,50	05.04.22	3
HORIZON-CL4-2022-HUMAN-01-03: Internet architecture and decentralised technologies (RIA)	22,00	05.04.22	2
HORIZON-CL4-2022-HUMAN-01-05: Next Generation Safer Internet: Technologies to identify digital Child Sexual Abuse Material (CSAM) (RIA)	2,00	05.04.22	1
HORIZON-CL4-2022-HUMAN-01-07: NGI International Collaboration -USA and Canada (RIA)	6,00	05.04.22	1
HORIZON-CL4-2022-HUMAN-01-14: eXtended Reality Technologies (RIA)	19,00	05.04.22	3
HORIZON-CL4-2022-HUMAN-01-19: eXtended Reality Learning -Engage and Interact(IA)	21,50	05.04.22	3
<b>Total</b>	<b>3.006,22</b>		

[Further information](#)



Cluster: Climate, Energy and Mobility	Budget (Mio. €) 2021-2022	Deadline	Number of projects
Destination –Climate sciences and responses for the transformation towards climate neutrality			
Call -Climate sciences and responses			
HORIZON-CL5-2021-D1-01-01: Improved understanding of greenhouse gas fluxes and radiative forcers, including carbon dioxide removal technologies	24,00	14.09.21	3
HORIZON-CL5-2021-D1-01-02: Modelling the role of the circular economy for climate change mitigation	15,00	14.09.21	3
HORIZON-CL5-2021-D1-01-03: Maximising the impact and synergy of European climate change research and innovation	9,00	14.09.21	2
HORIZON-CL5-2021-D1-01-04: Enhanced integrated assessment in pursuit of global climate goals	15,00	14.09.21	3
HORIZON-CL5-2021-D1-01-05: Better understanding of the interactions between climate change impacts and risks, mitigation and adaptation options	20,00	14.09.21	3
HORIZON-CL5-2021-D1-01-06: Supporting and standardising climate services	9,00	14.09.21	1
HORIZON-CL5-2021-D1-01-07: Improved economic methods for decision-making on climate and environmental policies	6,00	14.09.21	2
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	20,00	14.09.21	3
HORIZON-CL5-2021-D1-01-09: The contribution of forest management to climate action: pathways, trade-offs and co-benefits	18,00	14.09.21	3
Call -Climate sciences and responses			
HORIZON-CL5-2022-D1-01-01-two-stage: Carbon Dioxide Removal (CDR) approaches	21,00	22.02.22 <sup>1)</sup> 27.09.22 <sup>2)</sup>	3
HORIZON-CL5-2022-D1-01-02-two-stage: Socio-economic risks of climate change in Europe	10,00	22.02.22 <sup>1)</sup> 27.09.22 <sup>2)</sup>	2
HORIZON-CL5-2022-D1-01-03-two-stage: Social science for land-use strategies in the context of climate change and biodiversity challenges	20,00	22.02.22 <sup>1)</sup> 27.09.22 <sup>2)</sup>	3
Call -Climate sciences and responses			
HORIZON-CL5-2022-D1-02-01: Verification and reconciliation of estimates of climate forcers	15,00	10.02.22	3
HORIZON-CL5-2022-D1-02-02: Development of high-resolution Earth system models for global and regional climate change projections	20,00	10.02.22	2
HORIZON-CL5-2022-D1-02-03: Improvement of Integrated Assessment Models in support of climate policies	15,00	10.02.22	3
HORIZON-CL5-2022-D1-02-04: Supporting the formulation of adaptation strategies through improved climate predictions in Europe and beyond	20,00	10.02.22	2
HORIZON-CL5-2022-D1-02-05: Let nature help do the job: Rewilding landscapes for carbon sequestration, climate adaptation and biodiversity support	17,00	10.02.22	2
Destination –Cross-sectoral solutions for the climate transition			
Call -Cross-sectoral solutions for the climate transition			
HORIZON-CL5-2021-D2-01-01: Sustainable processing, refining and recycling of raw materials (Batteries Partnership)	21,00	19.10.21	3
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)	24,00	19.10.21	3
HORIZON-CL5-2021-D2-01-03: Advanced high-performance	36,00	19.10.21	4



Cluster: Climate, Energy and Mobility	Budget (Mio. €) 2021-2022	Deadline	Number of projects
Generation 4a, 4b (solid-state) Li-ion batteries supporting electro mobility and other applications (Batteries Partnership)			
HORIZON-CL5-2021-D2-01-04: Environmentally sustainable processing techniques applied to large scale electrode and cell component manufacturing for Li ion batteries (Batteries Partnership)	20,00	19.10.21	4
HORIZON-CL5-2021-D2-01-05: Manufacturing technology development for solid-state batteries (SSB, Generations 4a -4b batteries) (Batteries Partnership)	26,00	19.10.21	3
HORIZON-CL5-2021-D2-01-06: Sustainable, safe and efficient recycling processes (Batteries Partnership)	30,00	19.10.21	3
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)	3,00	19.10.21	1
HORIZON-CL5-2021-D2-01-08: Emerging technologies for a climate neutral Europe	20,00	19.10.21	8
HORIZON-CL5-2021-D2-01-09: Methane cracking to usable hydrogen and carbon		19.10.21	2
HORIZON-CL5-2021-D2-01-10: Technologies for non-CO2 greenhouse gases removal	15,00	19.10.21	2
HORIZON-CL5-2021-D2-01-11: Direct atmospheric carbon capture and conversion		19.10.21	2
HORIZON-CL5-2021-D2-01-12: Fostering a just transition in Europe	10,00	19.10.21	3
HORIZON-CL5-2021-D2-01-13: Strengthening Social Sciences and Humanities (SSH) research communities in climate, energy and mobility disciplines	3,00	19.10.21	1
HORIZON-CL5-2021-D2-01-14: Accelerating the climate transition in difficult contexts: transition super-labs (pilot)	2,00	19.10.21	1
HORIZON-CL5-2021-D2-01-15: Fostering cooperation between Horizon Europe cluster 5 National Contact Points (NCPs)	3,50	19.10.21	1
HORIZON-CL5-2021-D2-01-16: Co-Funded Partnership: Driving Urban Transitions to a sustainable future (DUT)	18,50	19.10.21	1
<b>Call -Cross-sectoral solutions for the climate transition</b>			
HORIZON-CL5-2022-D2-01-01: Sustainable processing and refining of battery grade graphite (Batteries Partnership)	10,00	6.09.22	2
HORIZON-CL5-2022-D2-01-02: Interface and electron monitoring for the engineering of new and emerging battery technologies (Batteries Partnership)	10,00	6.09.22	2
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)	20,00	6.09.22	1
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)	15,00	6.09.22	2
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)	15,00	6.09.22	2
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)	15,00	6.09.22	3



Cluster: Climate, Energy and Mobility	Budget (Mio. €) 2021-2022	Deadline	Number of projects
(Batteries Partnership)			
HORIZON-CL5-2022-D2-01-07: Digitalisation of battery testing, from cell to system level, including lifetime assessment (Batteries Partnership)	15,00	6.09.22	3
HORIZON-CL5-2022-D2-01-08: Coordination of large-scale initiative on future battery technologies (Batteries Partnership)	3,00	6.09.22	1
HORIZON-CL5-2022-D2-01-09: Physics and data-based battery management for optimised battery utilisation (Batteries Partnership)	15,00	6.09.22	3
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)	15,00	6.09.22	3
HORIZON-CL5-2022-D2-01-11: CIVITAS 2030 –Coordination and support for EU funded urban mobility innovation	5,00	6.09.22	1
Destination –Sustainable, secure and competitive energy supply			
Call -Sustainable, secure and competitive energy supply			
HORIZON-CL5-2021-D3-01-01: Establish the grounds for a common European energy data space	32,00	19.10.21	4
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	1,00	19.10.21	1
HORIZON-CL5-2021-D3-01-03: Interoperability community	5,00	19.10.21	1
HORIZON-CL5-2021-D3-01-04: Clean Energy Transition	35,00	19.10.21	1
Call -Sustainable, secure and competitive energy supply			
HORIZON-CL5-2021-D3-02-01: Demonstration of wave energy devices to increase experience in real sea condition	15,00	05.01.22	1
HORIZON-CL5-2021-D3-02-02: Sustainability and educational aspects for renewable energy and renewable fuel technologies	10,00	05.01.22	4
HORIZON-CL5-2021-D3-02-03: Market Uptake Measures of renewable energy systems	10,00	05.01.22	5
HORIZON-CL5-2021-D3-02-04: Novel tandem, high efficiency Photovoltaic technologies targeting low cost production with earth abundant materials	20,00	05.01.22	4
HORIZON-CL5-2021-D3-02-05: Energy Sector Integration: Integrating and combining energy systems to a cost-optimised and flexible energy system of systems	30,00	05.01.22	3
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)	25,00	05.01.22	3
HORIZON-CL5-2021-D3-02-07: Reliability and resilience of the grid: Measures for vulnerabilities, failures, risks and privacy	15,00	05.01.22	2
HORIZON-CL5-2021-D3-02-08: Electricity system reliability and resilience by design: High-Voltage, Direct Current (HVDC)-based systems and solutions	15,00	05.01.22	2
HORIZON-CL5-2021-D3-02-09: Demonstration of superconducting systems and elpipes	15,00	05.01.22	1
HORIZON-CL5-2021-D3-02-10: Demonstration of advanced Power Electronics for application in the energy sector	10,00	05.01.22	2
HORIZON-CL5-2021-D3-02-11: Reinforcing digitalisation related know how of local energy ecosystems	4,00	05.01.22	1
HORIZON-CL5-2021-D3-02-12: Integration of CCUS in hubs and clusters, including knowledge sharing activities	2,00	05.01.22	1
HORIZON-CL5-2021-D3-02-13: Cost reduction of CO2 capture	30,00	05.01.22	2



Cluster: Climate, Energy and Mobility	Budget (Mio. €) 2021-2022	Deadline	Number of projects
(new or improved technologies)			
HORIZON-CL5-2021-D3-02-14: Support to the activities of the European Geological Services	20,00	05.01.22	1
HORIZON-CL5-2021-D3-02-15: Support to the activities of the ETIPs and technology areas of the SET Plan	9,80	05.01.22	10
<b>Call -Sustainable, secure and competitive energy supply</b>			
HORIZON-CL5-2021-D3-03-01: AU-EU Water Energy Food Nexus	5,00	23.02.22	2
HORIZON-CL5-2021-D3-03-02: Next generation of renewable energy technologies	33,00	23.02.22	11
HORIZON-CL5-2021-D3-03-03: Hybrid catalytic conversion of renewable energy to carbon-neutral fuels	10,00	23.02.22	3
HORIZON-CL5-2021-D3-03-04: Physics and aerodynamics of atmospheric flow of wind for power production	18,00	23.02.22	3
HORIZON-CL5-2021-D3-03-05: Wind energy in the natural and social environment	10,00	23.02.22	3
HORIZON-CL5-2021-D3-03-06: Novel approaches to concentrated solar power (CSP)	9,00	23.02.22	3
HORIZON-CL5-2021-D3-03-07: Stable high-performance Perovskite Photovoltaics	15,00	23.02.22	3
HORIZON-CL5-2021-D3-03-08: Cost-effective micro-CHP and hybrid heating systems	10,00	23.02.22	2
HORIZON-CL5-2021-D3-03-09: Carbon-negative sustainable biofuel production	15,00	23.02.22	3
HORIZON-CL5-2021-D3-03-10: Innovative foundations, floating substructures and connection systems for floating PV and ocean energy devices	10,00	23.02.22	3
HORIZON-CL5-2021-D3-03-11: Development of hydropower equipment for hidden hydropower	10,00	23.02.22	2
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)	50,00	23.02.22	3
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.)	45,00	23.02.22	3
HORIZON-CL5-2021-D3-03-14: Demonstration of large-scale CHP technologies for a shift to the use of biogenic residues and wastes	10,00	23.02.22	1
HORIZON-CL5-2021-D3-03-15: Solutions for more sustainable geothermal energy	10,00	23.02.22	2
HORIZON-CL5-2021-D3-03-16: Innovative biomethane production as an energy carrier and a fuel	20,00	23.02.22	2
<b>Call -Sustainable, secure and competitive energy supply</b>			
HORIZON-CL5-2022-D3-01-01: Demonstration of cost-effective advanced biofuel technologies utilizing existing industrial plants	20,00	26.04.22	2
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	40,00	26.04.22	3
HORIZON-CL5-2022-D3-01-03: Advanced manufacturing of Integrated PV	32,00	26.04.22	2
HORIZON-CL5-2022-D3-01-04: Demonstrate the use of high temperature geothermal reservoirs to provide energy storage for	20,00	26.04.22	1



Cluster: Climate, Energy and Mobility	Budget (Mio. €) 2021-2022	Deadline	Number of projects
the energy system			
HORIZON-CL5-2022-D3-01-05: Demonstration of innovative plug-and play solutions for system management and renewables storage in off-grid applications	10,00	26.04.22	1
HORIZON-CL5-2022-D3-01-06: Novel Agro-Photovoltaic systems	10,00	26.04.22	2
HORIZON-CL5-2022-D3-01-07: Demonstration of innovative rotor, blades and control systems for tidal energy devices	10,00	26.04.22	1
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	18,00	26.04.22	3
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)	55,00	26.04.22	1
HORIZON-CL5-2022-D3-01-10: Interoperable solutions for flexibility services using distributed energy storage	7,00	26.04.22	3
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	30,00	26.04.22	4
HORIZON-CL5-2022-D3-01-12: Replicable solutions for a cross sector compliant energy ecosystem	35,00	26.04.22	4
HORIZON-CL5-2022-D3-01-13: Energy system modelling, optimisation and planning tools	6,00	26.04.22	1
HORIZON-CL5-2022-D3-01-14: Thermal energy storage solutions	30,00	26.04.22	4
HORIZON-CL5-2022-D3-01-15: Decarbonising industry with CCUS	58,00	26.04.22	2
<b>Call -Sustainable, secure and competitive energy supply</b>			
HORIZON-CL5-2022-D3-02-01: Digital solutions for defining synergies in international renewable energy value chains	9,00	27.10.22	3
HORIZON-CL5-2022-D3-02-02: AU-EU Energy System Modelling	5,00	27.10.22	2
HORIZON-CL5-2022-D3-02-03: Innovative renewable energy carrier production for heating from renewable energies	10,00	27.10.22	1
HORIZON-CL5-2022-D3-02-04: Technological interfaces between solar fuel technologies and other renewables	10,00	27.10.22	2
HORIZON-CL5-2022-D3-02-05: Renewable energy carriers from variable renewable electricity surplus and carbon emissions from energy consuming sectors	20,00	27.10.22	2
HORIZON-CL5-2022-D3-02-06: Direct renewable energy integration into process energy demands of the chemical industry	10,00	27.10.22	2
HORIZON-CL5-2022-D3-02-07: Renewable energy incorporation in agriculture and forestry	15,00	27.10.22	2
HORIZON-CL5-2022-D3-02-08: Demonstration of complete value chains for advanced biofuel and non-biological renewable fuel production	20,00	27.10.22	2
<b>Call -Sustainable, secure and competitive energy supply</b>			
HORIZON-CL5-2022-D3-03-01: Innovative components and/or sub-systems for CSP plants and/or concentrating solar thermal installations	16,50	10.01.23	3
HORIZON-CL5-2022-D3-03-02: Best international practice for scaling up sustainable biofuels	9,00	10.01.23	3
HORIZON-CL5-2022-D3-03-03: Efficient and circular artificial photosynthesis	10,00	10.01.23	2



Cluster: Climate, Energy and Mobility	Budget (Mio. €) 2021-2022	Deadline	Number of projects
HORIZON-CL5-2022-D3-03-04: Integrated wind farm control	18,00	10.01.23	3
HORIZON-CL5-2022-D3-03-05: Novel Thin Film (TF) technologies targeting high efficiencies	20,00	10.01.23	4
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	10,00	10.01.23	2
HORIZON-CL5-2022-D3-03-07: Development of algal and renewable fuels of non-biological origin	15,00	10.01.23	3
HORIZON-CL5-2022-D3-03-08: Development of digital solutions for existing hydropower operation and maintenance	9,00	10.01.23	3
HORIZON-CL5-2022-D3-03-09: Recycling end of life PV modules	20,00	10.01.23	3
Destination –Efficient, sustainable and inclusive energy use			
Call -Efficient, sustainable and inclusive energy use			
HORIZON-CL5-2021-D4-01-01: Advanced energy performance assessment and certification	10,00	19.10.21	2
HORIZON-CL5-2021-D4-01-02: Industrialisation of deeprenovation workflows for energy-efficient buildings	16,00	19.10.21	2
HORIZON-CL5-2021-D4-01-03: Advanced data-driven monitoring of building stock energy performance	10,00	19.10.21	2
HORIZON-CL5-2021-D4-01-04: Full-scale demonstration of heat upgrade technologies with supply temperature in the range 90 -160°C	16,00	19.10.21	2
HORIZON-CL5-2021-D4-01-05: Industrial excess (waste) Heat-to-Power conversion based on organic Rankine cycles	14,00	19.10.21	1
Call -Efficient, sustainable and inclusive energy use			
HORIZON-CL5-2021-D4-02-01: Demonstrating integrated technology solutions for buildings with performance guarantees (Built4People)	15,00	25.01.22	2
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)	22,00	25.01.22	2
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)	1,00	25.01.22	1
Call -Efficient, sustainable and inclusive energy use			
HORIZON-CL5-2022-D4-01-01: Demand response in energy-efficient residential buildings	12,00	06.09.22	2
HORIZON-CL5-2022-D4-01-02: Renewable-intensive, energy positive homes	12,00	06.09.22	2
HORIZON-CL5-2022-D4-01-03: Smarter buildings for better energy performance	12,00	06.09.22	2
HORIZON-CL5-2022-D4-01-04: Development and pilot demonstration of heat upgrade technologies with supply temperature in the range 150-250°C	10,00	06.09.22	2
HORIZON-CL5-2022-D4-01-05: Development of high temperature thermal storage for industrial applications	8,00	06.09.22	2
Call -Efficient, sustainable and inclusive energy use			
HORIZON-CL5-2022-D4-02-01: Designs, materials and solutions to improve resilience, preparedness & responsiveness of the built environment for climate adaptation (Built4People)	15,00	24.01.23	2
HORIZON-CL5-2022-D4-02-02: Solutions for the sustainable,	15,00	24.01.23	2



Cluster: Climate, Energy and Mobility	Budget (Mio. €) 2021-2022	Deadline	Number of projects
resilient, inclusive and accessible regeneration of neighbourhoods enabling low carbon footprint lifestyles and businesses (Built4People)			
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)	20,00	24.01.23	4
HORIZON-CL5-2022-D4-02-04: Smart-grid ready and smart-network ready buildings, acting as active utility nodes (Built4People)	18,00	24.01.23	2
HORIZON-CL5-2022-D4-02-05: More sustainable buildings with reduced embodied energy / carbon, high life-cycle performance and reduced life-cycle costs (Built4People)	18,00	24.01.23	2
<b>Destination –Clean and competitive solutions for all transport modes</b>			
<b>Call -Clean and competitive solutions for all transport modes</b>			
HORIZON-CL5-2021-D5-01-01: Nextgen vehicles: Innovative zero emission BEV architectures for regional medium freight haulage (ZZERO)	45,00	14.09.21	3
HORIZON-CL5-2021-D5-01-02: Nextgen EV components: Integration of advanced power electronics and associated controls (ZZERO)	20,00	14.09.21	4
HORIZON-CL5-2021-D5-01-03: System approach to achieve optimised Smart EV Charging and V2G flexibility in mass-deployment conditions (ZZERO)	25,00	14.09.21	3
HORIZON-CL5-2021-D5-01-04: LCA and design for sustainable circularity -holistic approach for zero-emission mobility solutions and related battery value chain (ZZERO & Batteries Partnership)	4,00	14.09.21	1
HORIZON-CL5-2021-D5-01-05: Greenhouse gas aviation emissions reduction technologies towards climate neutrality by 2050	25,00	14.09.21	6
HORIZON-CL5-2021-D5-01-06: Next generation digital aircraft transformation in design, manufacturing, integration and maintenance	29,00	14.09.21	5
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)	20,00	14.09.21	2
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)	15,00	14.09.21	1
HORIZON-CL5-2021-D5-01-09: CSA identifying waterborne sustainable fuel deployment scenarios (ZEWT Partnership)	0,50	14.09.21	1
HORIZON-CL5-2021-D5-01-10: Innovative on-board energy saving solutions (ZEWT Partnership)	20,00	14.09.21	4
HORIZON-CL5-2021-D5-01-11: Hyper powered vessel battery charging system (ZEWT Partnership)	14,00	14.09.21	2
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)	7,00	14.09.21	1
HORIZON-CL5-2021-D5-01-13: Digital Twin models to enable green ship operations (ZEWT Partnership)	7,00	14.09.21	1
HORIZON-CL5-2021-D5-01-14: Proving the feasibility of a large clean ammonia marine engine (ZEWT Partnership)	10,00	14.09.21	1





Cluster: Climate, Energy and Mobility	Budget (Mio. €) 2021-2022	Deadline	Number of projects
HORIZON-CL5-2021-D5-01-15: Development and demonstration of cost affordable and adaptable retrofit solutions for tailpipe and brake polluting emissions	10,00	14.09.21	2
HORIZON-CL5-2021-D5-01-16: Assessment of noise and particle emissions of L category vehicles from real driving conditions	5,00	14.09.21	1
HORIZON-CL5-2021-D5-01-17: Support for dissemination events in the field of Transport Research	1,50	14.09.21	1
<b>Call -Clean and competitive solutions for all transport modes</b>			
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)	16,00	26.04.22	2
HORIZON-CL5-2022-D5-01-02: Innovative energy storage systems on-board vessels (ZEWT Partnership)	15,00	26.04.22	3
HORIZON-CL5-2022-D5-01-03: Exploiting renewable energy for shipping, in particular focusing on the potential of wind energy (ZEWT Partnership)	18,00	26.04.22	2
HORIZON-CL5-2022-D5-01-04: Transformation of the existing fleet towards greener operations through retrofitting (ZEWT Partnership)	25,00	26.04.22	5
HORIZON-CL5-2022-D5-01-05: Seamless safe logistics through an autonomous waterborne freight feeder loop service	15,00	26.04.22	1
HORIZON-CL5-2022-D5-01-06: Computational tools for shipbuilding	7,00	26.04.22	1
HORIZON-CL5-2022-D5-01-07: Prevent smog episodes in Europe: Air quality impact of engine-emitted volatile, semi volatile and secondary particles	7,00	26.04.22	3
HORIZON-CL5-2022-D5-01-08: Modular multi-powertrain zero-emission systems for HDV (BEV and FCEV) for efficient and economic operation (2ZERO)	58,00	26.04.22	3
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)	20,00	26.04.22	4
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)	25,00	26.04.22	1
HORIZON-CL5-2022-D5-01-11: Stimulating Road Transport research and innovation dissemination and implementation in Europe and around the World	2,00	26.04.22	1
HORIZON-CL5-2022-D5-01-12: Towards a silent and ultra-low local air pollution aircraft	20,00	26.04.22	5
HORIZON-CL5-2022-D5-01-13: Digital aviation technologies for new aviation business models, services, emerging global threats and industrial competitiveness	20,00	26.04.22	5
HORIZON-CL5-2022-D5-01-14: European Aviation Research Policy in support to EU policies and initiatives	5,00	26.04.22	3
<b>Destination –Safe, Resilient Transport and Smart Mobility services for passengers and goods</b>			
<b>Call -Safe, Resilient Transport and Smart Mobility services for passengers and goods</b>			
HORIZON-CL5-2021-D6-01-01: More powerful and reliable on-board perception and decision-making technologies addressing complex environmental conditions (CCAM Partnership)	15,00	19.10.21	2
HORIZON-CL5-2021-D6-01-02: Common approaches for the safety validation of CCAM systems (CCAM Partnership)	15,00	19.10.21	1
HORIZON-CL5-2021-D6-01-03: Physical and Digital	18,00	19.10.21	2



Cluster: Climate, Energy and Mobility	Budget (Mio. €) 2021-2022	Deadline	Number of projects
Infrastructure (PDI), connectivity and cooperation enabling and supporting CCAM (CCAM Partnership)			
HORIZON-CL5-2021-D6-01-04: Cyber secure and resilient CCAM (CCAM Partnership)	12,00	19.10.21	2
HORIZON-CL5-2021-D6-01-015: Analysis of socio-economic and environmental impacts and assessment of societal, citizen and user aspects for needs based CCAM solutions (CCAM Partnership)	8,00	19.10.21	2
HORIZON-CL5-2021-D6-01-06: Framework for better coordination of large-scale demonstration pilots in Europe and EU-wide knowledge base (CCAM Partnership)	6,00	19.10.21	1
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	15,00	19.10.21	2
HORIZON-CL5-2021-D6-01-08: New delivery methods and business/operating models to green the last mile and optimise road transport	15,00	19.10.21	2
HORIZON-CL5-2021-D6-01-09: Climate resilient and environmentally sustainable transport infrastructure, with a focus on inland waterways	23,00	19.10.21	3
HORIZON-CL5-2021-D6-01-10: Testing safe lightweight vehicles and improved safe human-technology interaction in the future traffic system	12,00	19.10.21	3
HORIZON-CL5-2021-D6-01-11: Radical improvement of road safety in low and medium income countries in Africa	8,00	19.10.21	2
HORIZON-CL5-2021-D6-01-12: Controlling infection on large passenger ships	8,00	19.10.21	2
HORIZON-CL5-2021-D6-01-13: Safe automation and human factors in aviation –intelligent integration and assistance	12,00	19.10.21	2
<b>Call -Safe, Resilient Transport and Smart Mobility services for passengers and goods</b>			
HORIZON-CL5-2022-D6-01-01: European demonstrators for integrated shared automated mobility solutions for people and goods (CCAM Partnership)	50,00	12.01.22	2
HORIZON-CL5-2022-D6-01-02: Reliable occupant protection technologies and HMI solutions to ensure the safety of highly automated vehicles (CCAM Partnership)	8,00	12.01.22	14
HORIZON-CL5-2022-D6-01-03: Human behavioural model to assess the performance ofCCAM solutions compared to human driven vehicles (CCAM Partnership)	8,00	12.01.22	1
HORIZON-CL5-2022-D6-01-04: Integrate CCAM services in fleet and traffic management systems (CCAM Partnership)	10,00	12.01.22	2
HORIZON-CL5-2022-D6-01-05: Artificial Intelligence (AI): Explainable and trustworthy concepts, techniques and models for CCAM (CCAM Partnership)	12,00	12.01.22	2
HORIZON-CL5-2022-D6-01-06: Predictive safety assessment framework and safer urban environment for vulnerable road users	13,00	12.01.22	3
HORIZON-CL5-2022-D6-01-07: More resilient aircraft and increased survivability	9,00	12.01.22	1
HORIZON-CL5-2022-D6-01-08: Safer navigation and tackling containership fires	12,00	12.01.22	2
<b>Call -Safe, Resilient Transport and Smart Mobility services for passengers and goods</b>			
HORIZON-CL5-2022-D6-02-01: Logistics networks integration and harmonisation through operational connectivity to	15,00	06.09.22	2



Cluster: Climate, Energy and Mobility	Budget (Mio. €) 2021-2022	Deadline	Number of projects
optimise freight flows and drive logistics to climate neutrality			
HORIZON-CL5-2022-D6-02-02: Urban logistics and planning: anticipating urban freight generation and demand including digitalisation of urban freight	15,00	06.09.22	2
HORIZON-CL5-2022-D6-02-03: Smart enforcement for resilient, sustainable and more efficient transport operations	8,00	06.09.22	2
HORIZON-CL5-2022-D6-02-04: Accelerating the deployment of new and shared mobility services for the next decade	20,00	06.09.22	2
HORIZON-CL5-2022-D6-02-05: Advanced multimodal network and traffic management for seamless door-to-door mobility of passengers and freight transport	15,00	06.09.22	3
HORIZON-CL5-2022-D6-02-06: Smart and efficient ways to construct, maintain and decommission with zero emissions from transport infrastructure	10,00	06.09.22	2
HORIZON-CL5-2022-D6-02-07: New concepts and approaches for resilient and green freight transport and logistics networks against disruptive events (including pandemics)	8,00	06.09.22	2
<b>Total</b>	<b>2.970,30</b>		

[Further information](#)



Cluster: Food, Bioeconomy, Natural Resources, Agriculture and Environment	Budget (Mio. €) 2021-2022	Deadline	Number of projects
Destination –Biodiversity and ecosystem services			
Call -Biodiversity and ecosystem services			
HORIZON-CL6-2021-BIODIV-01-01: European participation in global biodiversity genomics endeavours aimed at identifying all biodiversity on Earth	20,00	06.10.21	2
HORIZON-CL6-2021-BIODIV-01-02: Data and technologies for the inventory, fast identification and monitoring of endangered wildlife and other species groups	10,00	06.10.21	2
HORIZON-CL6-2021-BIODIV-01-03: Understanding and valuing coastal and marine biodiversity and ecosystems services	16,00	06.10.21	1
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	10,00	06.10.21	1
HORIZON-CL6-2021-BIODIV-01-05: The economics of nature-based solutions: cost-benefit analysis, market development and funding	5,00	06.10.21	1
HORIZON-CL6-2021-BIODIV-01-06: Nature-based solutions, prevention and reduction of risks and the insurance sector	4,00	06.10.21	1
HORIZON-CL6-2021-BIODIV-01-07: Ecosystems and their services for an evidence-based policy and decision-making	13,00	06.10.21	1
HORIZON-CL6-2021-BIODIV-01-08: Supporting the development of a coherent and resilient Trans-European Nature Network	10,00	06.10.21	1
HORIZON-CL6-2021-BIODIV-01-09: Assessing and consolidating recent scientific advances on freshwater ecosystem restoration	0,50	06.10.21	1
HORIZON-CL6-2021-BIODIV-01-10: Demonstration of measures and management for coastal and marine ecosystems restoration and resilience in simplified socio-ecological systems	10,00	06.10.21	1
HORIZON-CL6-2021-BIODIV-01-11: What else is out there? Exploring the connection between biodiversity, ecosystems services, pandemics and epidemic risk	12,00	06.10.21	2
HORIZON-CL6-2021-BIODIV-01-12: Improved science based maritimespatial planning and identification of marine protected areas	7,00	06.10.21	2
HORIZON-CL6-2021-BIODIV-01-13: Breeding for resilience: focus on root-based traits	16,00	06.10.21	2
HORIZON-CL6-2021-BIODIV-01-14: Fostering organic crop breeding	10,00	06.10.21	2
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	10,00	06.10.21	4
HORIZON-CL6-2021-BIODIV-01-16: Biodiversity, water, food, energy, transport, climate and health nexus in the context of transformativechange	5,00	06.10.21	1
HORIZON-CL6-2021-BIODIV-01-17: Policy mixes, governance (including financing) and decision-making tools for transformative action on biodiversity	8,00	06.10.21	3
HORIZON-CL6-2021-BIODIV-01-18: Understanding the impacts of and the opportunities offered by digital transformation, new emerging technologies and social	5,00	06.10.21	2



Cluster: Food, Bioeconomy, Natural Resources, Agriculture and Environment	Budget (Mio. €) 2021-2022	Deadline	Number of projects
innovation on biodiversity			
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')	13,00	06.10.21	1
HORIZON-CL6-2021-BIODIV-01-20: Support to processes triggered by IPBES and IPCC	5,00	06.10.21	1
HORIZON-CL6-2021-BIODIV-01-21: Impact and dependence of business on biodiversity	5,00	06.10.21	2
Call -Biodiversity and ecosystem services			
HORIZON-CL6-2021-BIODIV-02-01: European partnership rescuing biodiversity to safeguard life on Earth	20,00	22.07.21	1
Call -Biodiversity and ecosystem services			
HORIZON-CL6-2022-BIODIV-01-01: Observing and mapping biodiversity and ecosystems, with particular focus on coastal and marine ecosystems	14,00	15.02.22	2
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	6,00	15.02.22	1
HORIZON-CL6-2022-BIODIV-01-03: Network for nature: multi-stakeholder dialogue platform to promote nature-based solutions	6,00	15.02.22	1
HORIZON-CL6-2022-BIODIV-01-04: Natural capital accounting: Measuring the biodiversity footprint of products and organizations	10,00	15.02.22	1
HORIZON-CL6-2022-BIODIV-01-05: Intercropping – understanding and using the benefits of complexity in farming and value chains	16,00	15.02.22	2
HORIZON-CL6-2022-BIODIV-01-06: Monitoring and effective measures for agrobiodiversity	8,00	15.02.22	1
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	8,00	15.02.22	1
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	12,00	15.02.22	4
HORIZON-CL6-2022-BIODIV-01-09: Understanding the role of behaviour, gender specifics, lifestyle, religious and cultural values, and addressing the role of enabling players (civil society, policy makers, financing and business leaders, retailers) in decision making	10,00	15.02.22	3
HORIZON-CL6-2022-BIODIV-01-10: Cooperation with the Convention on Biological Diversity	5,00	15.02.22	1
Call -Biodiversity and ecosystem services			
HORIZON-CL6-2022-BIODIV-02-01-two-stage: Maintaining and restoring pollinators and pollination services in European agricultural landscapes	20,00	15.02.22 <sup>1)</sup> 01.09.22 <sup>2)</sup>	3
HORIZON-CL6-2022-BIODIV-02-01-two-stage: Boosting breeding for a sustainable, resilient and competitive European legume sector	14,00	15.02.22 <sup>1)</sup> 01.09.22 <sup>2)</sup>	2
HORIZON-CL6-2022-BIODIV-02-01-two-stage: Resilient beekeeping	12,00	15.02.22 <sup>1)</sup> 01.09.22 <sup>2)</sup>	2
Destination –Fair, healthy and environment-friendly food systems from primary production to			



Cluster: Food, Bioeconomy, Natural Resources, Agriculture and Environment	Budget (Mio. €) 2021-2022	Deadline	Number of projects
consumption			
Call -Fair, healthy and environmentally-friendly food systems from primary production to consumption			
HORIZON-CL6-2021-FARM2FORK-01-01: Reaching the farm to fork target: R&I scenarios for boosting organic farming and organic aquaculture in Europe	4,00	06.10.21	1
HORIZON-CL6-2021-FARM2FORK-01-02: Developing sustainable and competitive land-based protein crop systems and value chains	9,00	06.10.21	1
HORIZON-CL6-2021-FARM2FORK-01-03: Digitalisation as an enabler of agroecological farming systems	2,00	06.10.21	1
HORIZON-CL6-2021-FARM2FORK-01-04: Tackling outbreaks of plant pests	14,00	06.10.21	2
HORIZON-CL6-2021-FARM2FORK-01-05: Animal welfare 2.0	8,00	06.10.21	1
HORIZON-CL6-2021-FARM2FORK-01-06: Vaccines and diagnostics for priority animal diseases	12,00	06.10.21	2
HORIZON-CL6-2021-FARM2FORK-01-07: Research & innovation roadmap for blockchain technologies in the agri-food sector	3,00	06.10.21	1
HORIZON-CL6-2021-FARM2FORK-01-08: Uncovering lock-ins and levers to encourage farmers to move to and stay in sustainable, climate-neutral and biodiversity-friendly farming systems: from experiments to systemic mechanisms	12,00	06.10.21	3
HORIZON-CL6-2021-FARM2FORK-01-09: Towards an EU approach to assess and internalise positive and negative externalities of food for incentivising sustainable choices	8,00	06.10.21	1
HORIZON-CL6-2021-FARM2FORK-01-10: Sea to fork transparency and consumer engagement	10,00	06.10.21	2
HORIZON-CL6-2021-FARM2FORK-01-11: Digital transition supporting inspection and control for sustainable fisheries	10,00	06.10.21	2
HORIZON-CL6-2021-FARM2FORK-01-12: Filling knowledge gaps on the nutritional, safety, allergenicity and environmental assessment of alternative proteins and dietary shift	11,00	06.10.21	1
HORIZON-CL6-2021-FARM2FORK-01-13: Evidence-based decision-making to change social norms towards zero food waste	12,00	06.10.21	2
HORIZON-CL6-2021-FARM2FORK-01-14: Microbes for healthy and sustainable food and diets	12,00	06.10.21	1
HORIZON-CL6-2021-FARM2FORK-01-15: Transition to healthy and sustainable dietary behaviour	12,00	06.10.21	1
HORIZON-CL6-2021-FARM2FORK-01-16: Identification, assessment and management of existing and emerging food safety issues	12,00	06.10.21	2
HORIZON-CL6-2021-FARM2FORK-01-17: Increasing the transparency of EU food systems to boost health, sustainability and safety of products, processes and diets	11,00	06.10.21	1
HORIZON-CL6-2021-FARM2FORK-01-18: One Health approach for Food Nutrition Security and Sustainable Agriculture (FNSSA)	18,00	06.10.21	3
HORIZON-CL6-2021-FARM2FORK-01-19: EU-China international cooperation on integrated pest management in agriculture	6,00	06.10.21	1
Call -Fair, healthy and environmentally-friendly food systems from primary production to consumption			
HORIZON-CL6-2022-FARM2FORK-01-01: Risk assessment of new low risk pesticides	7,00	15.02.22	1
HORIZON-CL6-2022-FARM2FORK-01-02: Socio-economics of pesticide use in agriculture	6,00	15.02.22	1



Cluster: Food, Bioeconomy, Natural Resources, Agriculture and Environment	Budget (Mio. €) 2021-2022	Deadline	Number of projects
HORIZON-CL6-2022-FARM2FORK-01-03: Enhancing biosecurity in terrestrial livestock production	10,00	15.02.22	2
HORIZON-CL6-2022-FARM2FORK-01-04: Innovative solutions to prevent adulteration of food bearing quality labels: focus on organic food and geographical indications	8,00	15.02.22	2
HORIZON-CL6-2022-FARM2FORK-01-05: Integrated and sustainable freshwater bioeconomy: Combining aquaculture, biodiversity preservation, biotechnology and other uses	10,00	15.02.22	2
HORIZON-CL6-2022-FARM2FORK-01-06: Biosecurity, hygiene, disease prevention and animal welfare in aquaculture	12,00	15.02.22	2
HORIZON-CL6-2022-FARM2FORK-01-07: Building alternative protein-friendly sustainable and healthy food environments	12,00	15.02.22	1
HORIZON-CL6-2022-FARM2FORK-01-08: Research and innovation for food losses and waste prevention and reduction through harmonised measurement and monitoring	14,00	15.02.22	2
HORIZON-CL6-2022-FARM2FORK-01-09: Microbiomes in food production systems	10,00	15.02.22	2
HORIZON-CL6-2022-FARM2FORK-01-10: Integrated surveillance system to prevent and reduce diet-related non communicable diseases (NCDs)	11,00	15.02.22	1
HORIZON-CL6-2022-FARM2FORK-01-11: Effective systems for authenticity and traceability in the food system	10,00	15.02.22	1
HORIZON-CL6-2022-FARM2FORK-01-12: Agro-ecological approaches in African agriculture systems	28,00	15.02.22	4
HORIZON-CL6-2022-FARM2FORK-01-13: AU-EU Combatting all forms of malnutrition	11,00	15.02.22	1
HORIZON-CL6-2022-FARM2FORK-01-14: African food cities	12,00	15.02.22	2
HORIZON-CL6-2022-FARM2FORK-01-15: Support for international research on infectious animal diseases	3,00	15.02.22	1
<b>Call -Fair, healthy and environmentally-friendly food systems from primary production to consumption</b>			
HORIZON-CL6-2022-FARM2FORK-02-01-two-stage: Agroecological approaches for sustainable weed management	14,50	15.02.22 <sup>1)</sup> 06.09.22 <sup>2)</sup>	3
HORIZON-CL6-2022-FARM2FORK-02-02-two-stage: Emerging and future risks to plant health	7,00	15.02.22 <sup>1)</sup> 06.09.22 <sup>2)</sup>	1
HORIZON-CL6-2022-FARM2FORK-02-03-two-stage: Ecology of infectious animal diseases	12,00	15.02.22 <sup>1)</sup> 06.09.22 <sup>2)</sup>	2
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	15,00	15.02.22 <sup>1)</sup> 06.09.22 <sup>2)</sup>	3
HORIZON-CL6-2022-FARM2FORK-02-05-two-stage: Innovative food from marine and freshwater ecosystems	18,00	15.02.22 <sup>1)</sup> 06.09.22 <sup>2)</sup>	3
<b>Destination –Circular economy and bioeconomy sectors</b>			
<b>Call -Circular economy and bioeconomy sectors</b>			
HORIZON-CL6-2021-CIRCBIO-01-01: Circular Cities and Regions Initiative (CCRI)'s circular systemic solutions	21,50	06.10.21	3
HORIZON-CL6-2021-CIRCBIO-01-02: Circular Cities and Regions Initiative's project development assistance (CCRI-PDA)	10,00	06.10.21	6
HORIZON-CL6-2021-CIRCBIO-01-03: Innovative solutions to over-packaging and single-use plastics, and related microplastic pollution	18,00	06.10.21	3
HORIZON-CL6-2021-CIRCBIO-01-04: Increasing the circularity in textiles, plastics and/or electronics value chains	22,00	06.10.21	3
HORIZON-CL6-2021-CIRCBIO-01-05: Novel, non-plant biomass feedstocks for industrial applications	12,00	06.10.21	2
HORIZON-CL6-2021-CIRCBIO-01-06: Contained biomass	10,00	06.10.21	2



Cluster: Food, Bioeconomy, Natural Resources, Agriculture and Environment	Budget (Mio. €) 2021-2022	Deadline	Number of projects
solutions for sustainable and zero-Indirect Land Use Change (ILUC) production systems for high value applications			
HORIZON-CL6-2021-CIRCBIO-01-07: Microbiomes for bio-based innovation and environmental applications	6,00	06.10.21	1
HORIZON-CL6-2021-CIRCBIO-01-08: Mainstreaming inclusive small-scale bio-based solutions in European rural areas	9,00	06.10.21	3
HORIZON-CL6-2021-CIRCBIO-01-09: Unlocking the potential of algae for a thriving European blue bioeconomy	18,00	06.10.21	2
<b>Call -Circular economy and bioeconomy sectors</b>			
HORIZON-CL6-2022-CIRCBIO-01-01: Circular Cities and Regions Initiative's project development assistance (CCRI-PDA)	10,00	15.02.22	6
HORIZON-CL6-2022-CIRCBIO-01-02: Marginal lands and climate-resilient and biodiversity-friendly crops for sustainable industrial feedstocks and related value chains	14,00	15.02.22	2
HORIZON-CL6-2022-CIRCBIO-01-03: Benefits of the transition towards sustainable circular bio-based systems from linear fossil-based	4,00	15.02.22	2
HORIZON-CL6-2022-CIRCBIO-01-04: Maximising economic, environmental and social synergies in the provision of feedstock for bio-based sectors through diversification and increased sustainability of agricultural production systems	8,00	15.02.22	1
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	8,00	15.02.22	1
HORIZON-CL6-2022-CIRCBIO-01-06: Strengthening the European forest-based research and innovation ecosystem	4,00	15.02.22	1
HORIZON-CL6-2022-CIRCBIO-01-07: Marine microbiome for a healthy ocean and a sustainable blue bioeconomy	18,00	15.02.22	2
<b>Call -Circular economy and bioeconomy sectors</b>			
HORIZON-CL6-2022-CIRCBIO-02-01-two-stage: Integrated solutions for circularity in buildings and the construction sector	21,00	15.02.22 <sup>1)</sup> 01.09.22 <sup>2)</sup>	3
HORIZON-CL6-2022-CIRCBIO-02-02-two-stage: Exploring extreme environments: novel adaptation strategies at molecular level for bio-based innovation	10,00	15.02.22 <sup>1)</sup> 01.09.22 <sup>2)</sup>	2
HORIZON-CL6-2022-CIRCBIO-02-03-two-stage: Sustainable biodegradable novel bio-based plastics: innovation for sustainability and end-of-life options of plastics	12,00	15.02.22 <sup>1)</sup> 01.09.22 <sup>2)</sup>	2
HORIZON-CL6-2022-CIRCBIO-02-04-two-stage: Photosynthesis revisited: climate emergency, "no pollution and zero-emission" challenge and industrial application	6,00	15.02.22 <sup>1)</sup> 01.09.22 <sup>2)</sup>	1
HORIZON-CL6-2022-CIRCBIO-02-05-two-stage: Life sciences and their convergence with digital technologies for prospecting, understanding and sustainably using biological resources	12,00	15.02.22 <sup>1)</sup> 01.09.22 <sup>2)</sup>	2
HORIZON-CL6-2022-CIRCBIO-02-06-two-stage: Harnessing the digital revolution in the forest-based sector	15,00	15.02.22 <sup>1)</sup> 01.09.22 <sup>2)</sup>	2
<b>Destination –Clean environment and zero pollution</b>			
<b>Call -Clean environment and zero pollution</b>			
HORIZON-CL6-2021-ZEROPOLLUTION-01-01: Regional nitrogen and phosphorus load reduction approach within safe ecological boundaries	6,00	06.10.21	3
HORIZON-CL6-2021-ZEROPOLLUTION-01-02: Optimisation of nutrient budget in agriculture	7,00	06.10.21	1
HORIZON-CL6-2021-ZEROPOLLUTION-01-03: Preventing and	10,00	06.10.21	3





Cluster: Food, Bioeconomy, Natural Resources, Agriculture and Environment	Budget (Mio. €) 2021-2022	Deadline	Number of projects
managing diffuse pollution in urban water runoff			
HORIZON-CL6-2021-ZEROPOLLUTION-01-04: Achieving zero polluted seas and ocean	3,00	06.10.21	1
HORIZON-CL6-2021-ZEROPOLLUTION-01-05: Environmental sustainability criteria for biological resources production and trade in bio-based systems: impacts and trade-offs	6,00	06.10.21	1
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	7,00	06.10.21	2
HORIZON-CL6-2021-ZEROPOLLUTION-01-07: International and EU sustainability certification schemes for bio-based systems	6,00	06.10.21	3
HORIZON-CL6-2021-ZEROPOLLUTION-01-08: Newgenomic techniques (NGT): understanding benefits and risks –focus on bio-based innovation	5,00	06.10.21	1
HORIZON-CL6-2021-ZEROPOLLUTION-01-09: Environmental impacts and trade-offs of alternative fertilising products at global/local scale	4,00	06.10.21	2
HORIZON-CL6-2021-ZEROPOLLUTION-01-10: Environmental services: improved bioremediation and revitalization strategies for soil, sediments and water	11,00	06.10.21	2
<b>Call -Clean environment and zero pollution</b>			
HORIZON-CL6-2022-ZEROPOLLUTION-01-01: Preventing groundwater contamination and protecting its quality against harmful impacts of global and climate change	12,00	15.02.22	3
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	12,00	15.02.22	2
HORIZON-CL6-2022-ZEROPOLLUTION-01-03: EU-China international cooperation on nature-based solutions for nutrient management in agriculture	12,00	15.02.22	2
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	15,00	15.02.22	4
<b>Destination –Land, ocean and water for climate action</b>			
<b>Call -Land, ocean and water for climate action</b>			
HORIZON-CL6-2021-CLIMATE-01-01: Improved understanding, observation and monitoring of water resources availability	10,00	06.10.21	3
HORIZON-CL6-2021-CLIMATE-01-02: European Partnership Water Security for the Planet (Water4All)	10,00	06.10.21	1
HORIZON-CL6-2021-CLIMATE-01-03: Key oceanic and polar processes driving regional & global climate change	15,00	06.10.21	2
HORIZON-CL6-2021-CLIMATE-01-04: Demonstration network on climate-smart farming –linking pilot farms	23,00	06.10.21	1
HORIZON-CL6-2021-CLIMATE-01-05: Agroecological approaches for climate change mitigation, resilient agricultural production and enhanced biodiversity	7,00	06.10.21	1
HORIZON-CL6-2021-CLIMATE-01-06: Resilient livestock farming systems under climate change	12,00	06.10.21	1
HORIZON-CL6-2021-CLIMATE-01-07: International Research Consortium on (agricultural) soil carbon	3,00	06.10.21	1
HORIZON-CL6-2021-CLIMATE-01-08: Agroforestry to meet	8,00	06.10.21	2



Cluster: Food, Bioeconomy, Natural Resources, Agriculture and Environment	Budget (Mio. €) 2021-2022	Deadline	Number of projects
climate, biodiversity and farming sustainability goals			
HORIZON-CL6-2021-CLIMATE-01-09: Enhancing science-based knowledge on EU forests', including old-growth forests, capacities to mitigate climate change	10,00	06.10.21	2
HORIZON-CL6-2021-CLIMATE-01-10: EU-China international cooperation on increasing the resilience of forests	10,00	06.10.21	1
<b>Call -Land, ocean and water for climate action</b>			
HORIZON-CL6-2022-CLIMATE-01-01: Climate sensitive water allocation systems and economic instruments	10,00	15.02.22	2
HORIZON-CL6-2022-CLIMATE-01-02: Understanding the oceanic carbon cycle	15,00	15.02.22	1
HORIZON-CL6-2022-CLIMATE-01-03: Demonstration network on climate-smart farming –boosting the role of advisory services	20,00	15.02.22	1
HORIZON-CL6-2022-CLIMATE-01-04: Fostering the resilience of agricultural production: from observation of changes to the development of resilience strategies	15,00	15.02.22	1
HORIZON-CL6-2022-CLIMATE-01-05: Forestry -European observatory of climate change impacts and demonstration network of climate smart restoration pilots	15,00	15.02.22	1
<b>Destination –Resilient, inclusive, healthy and green rural, coastal and urban communities</b>			
<b>Call -Resilient, inclusive, healthy and green rural, coastal and urban communities</b>			
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	15,00	06.10.21	2
HORIZON-CL6-2021-COMMUNITIES-01-02: Expertise and training centre on rural innovation	5,00	06.10.21	1
HORIZON-CL6-2021-COMMUNITIES-01-03: Smart XG, last-mile and edge solutions for remote farming, forestry and rural areas	10,00	06.10.21	2
HORIZON-CL6-2021-COMMUNITIES-01-04: Socio-economic empowerment of the users of the sea	6,00	06.10.21	1
HORIZON-CL6-2021-COMMUNITIES-01-05: Integrated urban food system policies –how cities and towns can transform food systems for co-benefits	12,00	06.10.21	1
HORIZON-CL6-2021-COMMUNITIES-01-06: Inside and outside: educational innovation with nature-based solutions	5,00	06.10.21	1
<b>Call -Resilient, inclusive, healthy and green rural, coastal and urban communities</b>			
HORIZON-CL6-2022-COMMUNITIES-01-01: Boosting women-led innovation in farming and rural areas	6,00	15.02.22	2
HORIZON-CL6-2022-COMMUNITIES-01-02: Assessing and improving labour conditions and health and safety at work in farming	5,00	15.02.22	1
HORIZON-CL6-2022-COMMUNITIES-01-03: Integration of marine ecosystem service valuation, conservation and restoration in socio-economic models	9,00	15.02.22	1
HORIZON-CL6-2022-COMMUNITIES-01-04: Social innovation in food sharing to strengthen urban communities' food resilience	10,00	15.02.22	1
HORIZON-CL6-2022-COMMUNITIES-01-05: Assessing the socio-politics of nature-based solutions for more inclusive and resilient communities	12,00	15.02.22	2
<b>Call -Resilient, inclusive, healthy and green rural, coastal and urban communities</b>			
HORIZON-CL6-2022-COMMUNITIES-02-01-two-stage: Smart solutions for smart rural communities: empowering rural communities and smart villages to innovate for societal	14,00	15.02.22 <sup>1)</sup> 06.09.22 <sup>2)</sup>	2



Cluster: Food, Bioeconomy, Natural Resources, Agriculture and Environment	Budget (Mio. €) 2021-2022	Deadline	Number of projects
change			
HORIZON-CL6-2022-COMMUNITIES-02-02-two-stage: Developing nature-based therapy for health and well-being	19,00	15.02.22 <sup>1)</sup> 06.09.22 <sup>2)</sup>	3
Destination –Innovative governance, environmental observations and digital solutions in support of the Green Deal			
Call -Innovative governance, environmental observations and digital solutions in support of the Green Deal			
HORIZON-CL6-2021-GOVERNANCE-01-01: Mobilising the network of national contact points in Cluster 6	3,50	06.10.21	1
HORIZON-CL6-2021-GOVERNANCE-01-02: Furthering food systems science and federating researchers across the European Research Area	17,00	06.10.21	3
HORIZON-CL6-2021-GOVERNANCE-01-03: Preparatory action for the Horizon EuropeFood System Partnership	5,00	06.10.21	1
HORIZON-CL6-2021-GOVERNANCE-01-04: Strengthening bioeconomy innovation and deployment across sectors and all governance levels	4,00	06.10.21	1
HORIZON-CL6-2021-GOVERNANCE-01-05: Fostering strategic advice and synergies between national and EU research and innovation agendas, including SCAR foresight	4,00	06.10.21	1
HORIZON-CL6-2021-GOVERNANCE-01-06: Environmental and social cross-compliance of marine policies	8,00	06.10.21	3
HORIZON-CL6-2021-GOVERNANCE-01-07: Regional governance models in the bioeconomy	5,00	06.10.21	2
HORIZON-CL6-2021-GOVERNANCE-01-08: Improving understanding of and engagement in bio-based systems with training and skills development	5,00	06.10.21	2
HORIZON-CL6-2021-GOVERNANCE-01-09: Revitalisation of European local communities with innovative bio-based business models and social innovation	5,00	06.10.21	2
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	4,00	06.10.21	1
HORIZON-CL6-2021-GOVERNANCE-01-11: Education on the bioeconomy including bio-based sectors for young people in primary and secondary education in Europe	2,00	06.10.21	1
HORIZON-CL6-2021-GOVERNANCE-01-12: EU agriculture within a safe and just operating space and planetary boundaries	10,00	06.10.21	1
HORIZON-CL6-2021-GOVERNANCE-01-13: Modelling land use and land management in the context of climate change	10,00	06.10.21	2
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	20,00	06.10.21	4
HORIZON-CL6-2021-GOVERNANCE-01-15: Preparing for pre-commercial procurement (PCP) for end-user services based on environmental observation in the area of climate change adaptation and mitigation	2,00	06.10.21	1
HORIZON-CL6-2021-GOVERNANCE-01-16: Tools to support the uptake and accessibility/exploitability of environmental observation information at European and global level	13,00	06.10.21	1
HORIZON-CL6-2021-GOVERNANCE-01-17: Common European Green Deal data space to provide more	10,00	06.10.21	2



Cluster: Food, Bioeconomy, Natural Resources, Agriculture and Environment	Budget (Mio. €) 2021-2022	Deadline	Number of projects
accessible and exploitable environmental observation data in support of the European Green Deal priority actions			
HORIZON-CL6-2021-GOVERNANCE-01-18: Mapping and improving the data economy for food systems	10,00	06.10.21	1
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	4,00	06.10.21	1
HORIZON-CL6-2021-GOVERNANCE-01-20: Data economy in the field of agriculture –effects of datasharing and big data	4,00	06.10.21	1
HORIZON-CL6-2021-GOVERNANCE-01-21: Potential of drones as multi-purpose vehicle –risks and added values	12,00	06.10.21	2
HORIZON-CL6-2021-GOVERNANCE-01-22: Assessing the impacts of digital technologies in agriculture –cost, benefits and potential for sustainability gains	15,00	06.10.21	2
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	4,00	06.10.21	2
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	15,00	06.10.21	1
HORIZON-CL6-2021-GOVERNANCE-01-25: Improving national AKIS organisation in a co-creative process across the EU	10,00	06.10.21	1
HORIZON-CL6-2021-GOVERNANCE-01-26: Deepening the functioning of innovation support	5,00	06.10.21	1
HORIZON-CL6-2021-GOVERNANCE-01-27: Developing EU advisory networks on consumer-producer chains	8,00	06.10.21	2
HORIZON-CL6-2021-GOVERNANCE-01-28: Thematic networks to compile and share knowledge ready for practice	8,50	06.10.21	3
Call -Innovative governance, environmental observations and digital solutions in support of the Green Deal			
HORIZON-CL6-2022-GOVERNANCE-01-01: Mobilisation of society to transform food systems for co-benefits	8,00	15.02.22	1
HORIZON-CL6-2022-GOVERNANCE-01-02: European Partnership for a climate neutral, sustainable and productive Blue Economy	23,00	15.02.22	1
HORIZON-CL6-2022-GOVERNANCE-01-03: Multi-layer governance performance of marine policies	6,00	15.02.22	1
HORIZON-CL6-2022-GOVERNANCE-01-04: Consumer-focused labelling options for bio-based products	3,00	15.02.22	1
HORIZON-CL6-2022-GOVERNANCE-01-05: Innovative tools and methods to evaluate the design and support, monitoring and implementation of effective CAP strategic plans	4,00	15.02.22	1
HORIZON-CL6-2022-GOVERNANCE-01-06: Water governance, economic and financial sustainability of water systems	10,00	15.02.22	3
HORIZON-CL6-2022-GOVERNANCE-01-07: New technologies for acquiring in-situ observation datasets to address climate change effects	20,00	15.02.22	6
HORIZON-CL6-2022-GOVERNANCE-01-08: Uptake and validation of citizen observations to complement authoritative measurement within the urban environment and	14,00	15.02.22	3



Cluster: Food, Bioeconomy, Natural Resources, Agriculture and Environment	Budget (Mio. €) 2021-2022	Deadline	Number of projects
boost related citizen engagement			
HORIZON-CL6-2022-GOVERNANCE-01-09: Environmental observations solutions contributing to meeting "One Health" challenges	10,00	15.02.22	2
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	8,00	15.02.22	2
HORIZON-CL6-2022-GOVERNANCE-01-11: Upscaling (real-time) sensor data for EU-wide monitoring of production and agri-environmental conditions	15,00	15.02.22	3
HORIZON-CL6-2022-GOVERNANCE-01-12: Thematic networks to compile and share knowledge ready for practice	9,00	15.02.22	3
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	4,00	15.02.22	2
HORIZON-CL6-2022-GOVERNANCE-01-14: Improving preparation of multi-actor projects to enable the relevant actors to work in a co-creative way	5,00	15.02.22	1
HORIZON-CL6-2022-GOVERNANCE-01-15: Developing EU advisory networks on water use	8,00	15.02.22	2
<b>Total</b>	<b>1.837,50</b>		

[Further information](#)



## Pillar III: Innovative Europe

European Innovation Ecosystems (EIE)	Budget (Mio. €) 2021-2022	Deadline	Number of projects
Destination: CONNECT -Interconnected Innovation Ecosystems			
Call -Interconnected Innovation Ecosystems (2021)			
HORIZON-EIE-2021-CONNECT-01-01: Preparatory action for setting up joint programmes among innovation ecosystems actors	4,00	26.10.21	8
HORIZON-EIE-2021-CONNECT-01-02: Building capabilities in innovation procurement	4,00	26.10.21	8
Call -Interconnected Innovation Ecosystems (2022.1)			
HORIZON-EIE-2022-CONNECT-01-01: Towards more inclusive networks and initiatives in European innovation ecosystems	4,00	26.04.22	8
HORIZON-EIE-2022-CONNECT-01-02: Integration of social innovation actors in innovation ecosystems	3,00	26.04.22	6
Call -Interconnected Innovation Ecosystems (2022.2)			
HORIZON-EIE-2022-CONNECT-02-01: Implementing co-funded action plans for interconnection of innovation ecosystems	8,00	27.09.22	4
HORIZON-EIE-2022-CONNECT-02-02: Stimulating innovation procurement	4,50	27.09.22	3
Destination: SCALEUP -Elevating the scalability potential of European business			
Call -Elevating the scalability potential of European business (2021)			
HORIZON-EIE-2021-SCALEUP-01-01: Expanding Acceleration Ecosystems	5,00	10.11.21	5
HORIZON-EIE-2021-SCALEUP-01-02: Scaling up deep tech ecosystems	5,00	10.11.21	1
HORIZON-EIE-2021-SCALEUP-01-03: Women TechEU	3,75	10.11.21	50
Call -Elevating the scalability potential of European business (2022.1)			
HORIZON-EIE-2022-SCALEUP-01-01: Expanding Entrepreneurial Ecosystems	5,00	10.05.22	5
Call -Elevating the scalability potential of European business (2022.2)			
HORIZON-EIE-2022-SCALEUP-02-01: Expanding Investments Ecosystems	5,00	04.10.22	5
Destination: INNOVSMES -Partnership on Innovative SMEs			
Call -Partnership on Innovative SMEs			
HORIZON-EIE-2021-INNOVSMES-01-01: European Partnership on Innovative SMEs	34,99	01.09.21	1
Total	86,24		

[Further information](#)



## Widening Participation and Strengthening the European Research Area

Widening participation and spreading excellence & Reforming and Enhancing the European R&I System	Budget (Mio. €) 2021-2022	Deadline	Number of projects
<b>DESTINATION 1: IMPROVED ACCESS TO EXCELLENCE</b>			
Call -Teaming for Excellence			
HORIZON-WIDERA-2022-ACCESS-01-01-two-stage: Teaming for Excellence	180,00	05.10.21 <sup>1)</sup> 08.09.22 <sup>2)</sup>	12
Call -Twinning Western Balkans			
HORIZON-WIDERA-2021-ACCESS-02-01: Twinning Western Balkans Special	21,00	05.10.21	14
Call -Twinning			
HORIZON-WIDERA-2021-ACCESS-03-01: Twinning	149,00	18.01.22	100
Call -Excellence Hubs			
HORIZON-WIDERA-2022-ACCESS-04-01: Excellence Hubs	50,00	15.03.22	10
Call -European Excellence Initiative (EEL): Strengthening capacity for excellence in higher education institutions and surrounding ecosystems			
HORIZON-WIDERA-2021-ACCESS-05-01: Capacity building to strengthen networks of higher education institutions and cooperation with surrounding ecosystems	30,00	04.11.21	15
Call -Support for R&I policy making in the Western Balkans			
HORIZON-WIDERA-2021-ACCESS-06-01: Support for R&I policy making in the Western Balkans	5,00	29.09.21	1
Call -Hop On Facility			
HORIZON-WIDERA-2022-ACCESS-07-01: Hop On Facility	40,00	20.04.22 10.11.22	80
<b>DESTINATION 2: ATTRACTING AND MOBILISING THE BEST TALENTS</b>			
Call -ERA Chairs			
HORIZON-WIDERA-2022-TALENTS-01-01: ERA Chairs	80,00	15.03.22	32
Call -Fostering balanced brain circulation (BBC) -ERA Fellowships			
HORIZON-WIDERA-2022-TALENTS-02-01: Fostering balanced brain circulation –ERA Fellowships	8,00	12.10.21	50
Call -Fostering balanced brain circulation (BBC) -ERA Talents			
HORIZON-WIDERA-2022-TALENTS-03-01: Fostering balanced brain circulation –ERA Talents	24,00	12.04.22	40
Call -Fostering balanced brain circulation –ERA Fellowships			
HORIZON-WIDERA-2022-TALENTS-04-01: Fostering balanced brain circulation –ERA Fellowships	8,00	29.09.22	50
<b>DESTINATION 3: REFORMING AND ENHANCING THE EU RESEARCH AND INNOVATION SYSTEM</b>			
Call -European Research Area			
HORIZON-WIDERA-2021-ERA-01-09: Support for policy makers –Programme level collaboration between national R&I programmes	10,50	23.09.21	4
HORIZON-WIDERA-2021-ERA-01-20: Towards a Europe-wide training and networking scheme for research managers	3,00	23.09.21	2
HORIZON-WIDERA-2021-ERA-01-30: Implementation of a new macro-economic modelling concept	1,00	23.09.21	1
HORIZON-WIDERA-2021-ERA-01-32: Standardisation Booster for fostering exploitation of FP-funded research results	2,00	23.09.21	1
HORIZON-WIDERA-2021-ERA-01-33: R&I intensive IP	1,00	23.09.21	1



Widening participation and spreading excellence & Reforming and Enhancing the European R&I System	Budget (Mio. €) 2021-2022	Deadline	Number of projects
management: Scenarios for the future			
HORIZON-WIDERA-2021-ERA-01-40: Modelling and quantifying the impacts of open science practice	2,00	23.09.21	1
HORIZON-WIDERA-2021-ERA-01-41: Global cooperation on FAIR data policy and practice	2,00	23.09.21	2
HORIZON-WIDERA-2021-ERA-01-43: Capacity-building for institutional open access publishing across Europe	3,00	23.09.21	1
HORIZON-WIDERA-2021-ERA-01-44: Societal trust in science, research and innovation	2,00	23.09.21	1
HORIZON-WIDERA-2021-ERA-01-45: Support to changes in the assessment of research and researchers to reward the practice of open science	2,00	23.09.21	1
HORIZON-WIDERA-2021-ERA-01-50: Protection of Higher Education Institutions and research organisations against conventional and non-conventional threats	2,00	23.09.21	2
HORIZON-WIDERA-2021-ERA-01-60: A capacity-building and brokering network to make citizen science an integral part of the European Research Area	4,00	23.09.21	1
HORIZON-WIDERA-2021-ERA-01-61: Supporting and giving recognition to citizen science in the European Research Area	5,00	23.09.21	1
HORIZON-WIDERA-2021-ERA-01-70: Developing a STE(A)M roadmap for Science Education in Horizon Europe	5,00	23.09.21	3
HORIZON-WIDERA-2021-ERA-01-80: Centre of excellence on inclusive gender equality in Research & Innovation	5,00	23.09.21	1
HORIZON-WIDERA-2021-ERA-01-81: Policy coordination to advance the implementation of the ERA gender equality and inclusiveness objectives within Member States	3,00	23.09.21	1
HORIZON-WIDERA-2021-ERA-01-90: The challenges of research ethics and integrity in response to crisis: the coronavirus pandemic and beyond	4,50	23.09.21	1
HORIZON-WIDERA-2021-ERA-01-91: Ensuring reliability and trust in quality of Research Ethics expertise in the context of new/emerging technologies	4,50	23.09.21	1
Call -European Research Area			
HORIZON-WIDERA-2022-ERA-01-10: Support for policy makers –Programme level collaboration between national R&I programmes	7,50	20.04.22	3
HORIZON-WIDERA-2022-ERA-01-30: Testing of the ERA Hub concept –pilot phase	3,00	20.04.22	2
HORIZON-WIDERA-2022-ERA-01-31: Innowwide Bridging Facility	1,50	20.04.22	1
HORIZON-WIDERA-2022-ERA-01-32: An experimentation space for the uptake and use of R&I results for EU resilience and future preparedness	3,00	20.04.22	1
HORIZON-WIDERA-2022-ERA-01-40: Stepping-up institutional and territorial changes towards open and responsible research and innovation	5,00	20.04.22	1
HORIZON-WIDERA-2022-ERA-01-41: Increasing the reproducibility of scientific results	4,00	20.04.22	2





Widening participation and spreading excellence & Reforming and Enhancing the European R&I System	Budget (Mio. €) 2021-2022	Deadline	Number of projects
HORIZON-WIDERA-2022-ERA-01-42: Supporting the development of aligned policies for open access books and monographs	2,00	20.04.22	1
HORIZON-WIDERA-2022-ERA-01-44: Developing and piloting training on the practice of open and responsible research and innovation	3,50	20.04.22	1
HORIZON-WIDERA-2022-ERA-01-50: Developing an effective ERA talent pipeline	3,00	20.04.22	2
HORIZON-WIDERA-2022-ERA-01-51: Acceleration Services in support of the institutional transformation of Higher Education Institutions	10,50	20.04.22	1
HORIZON-WIDERA-2022-ERA-01-60: A European competence centre for science communication	3,00	20.04.22	1
HORIZON-WIDERA-2022-ERA-01-70: Open schooling for science education and a learning continuum for all	5,50	20.04.22	3
HORIZON-WIDERA-2022-ERA-01-80: Living Lab for gender-responsive innovation	3,00	20.04.22	1
HORIZON-WIDERA-2022-ERA-01-81: Support to the implementation of inclusive gender equality plans	3,00	20.04.22	4
HORIZON-WIDERA-2022-ERA-01-91: The empirical and behavioural approach to research ethics and integrity	3,00	20.04.22	1
Total	717,00		

[Further information](#)



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