

Cluster 4: Digital - Industry - Space

Contact

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Topicnr	Section	Topic naam	Projecttype	TRL bij start	TRL bij einde	Budget totaal	Budget per project	Deadline
Destination 3: WORLD LEADING DATA AND COMPUTING TECHNOLOGIES								
HORIZON-CL4-2021-DATA-01-01	Data sharing in the common European data spaces	Technologies and solutions for compliance, privacy preservation, green and responsible data operations	RIA	2-3	4-5	52	8 - 11	21/10/2021
HORIZON-CL4-2021-DATA-01-03	Data sharing in the common European data spaces	Technologies for data management	IA	5	8	30	± 5	21/10/2021
HORIZON-CL4-2021-DATA-01-05	From Cloud to Edge to IoT for European Data	Future European platforms for the Edge: Meta Operating Systems	RIA	4	5	54	8 - 12	21/10/2021
HORIZON-CL4-2021-DATA-01-07	From Cloud to Edge to IoT for European Data	Coordination and Support of the 'Cloud-Edge-IoT' domain	CSA	not applicable	not applicable	3	± 1,5	21/10/2021
HORIZON-CL4-2021-DATA-01-08	From Cloud to Edge to IoT for European Data	Roadmap for next generation computing and systems technologies	CSA	not applicable	not applicable	2	± 2	21/10/2021
HORIZON-CL4-2022-DATA-01-01	Strengthening Europe's data analytics capacity	Methods for exploiting data and knowledge for extremely precise outcomes (analysis, prediction, decision support), reducing complexity and presenting insights in understandable way	RIA	2-3	4-5	33	8 - 12	05/04/2022
HORIZON-CL4-2022-DATA-01-02	From Cloud to Edge to IoT for European Data	Cognitive Cloud: AI-enabled computing continuum from Cloud to Edge	RIA	2	5	50	4 - 6	05/04/2022
HORIZON-CL4-2022-DATA-01-03	From Cloud to Edge to IoT for European Data	Programming tools for decentralised intelligence and swarms	RIA	2	5	40	4 - 8	05/04/2022
HORIZON-CL4-2022-DATA-01-04	Data sharing in the common European data spaces	Technologies and solutions for data trading, monetizing, exchange and interoperability	IA	4	7	52	10 - 13	05/04/2022
HORIZON-CL4-2022-DATA-01-05	Strengthening Europe's data analytics capacity	Extreme data mining, aggregation and analytics technologies and solutions	RIA	3	5	30	± 5	05/04/2022



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Destination 4: DIGITAL AND EMERGING TECHNOLOGIES FOR COMPETITIVENESS AND FIT FOR THE GREEN DEAL								
HORIZON-CL4-2021-DIGITAL-EMERGING-01-01	Ultra-low power processors	Ultra-low-power, secure processors for edge computing	RIA	2-3	4-5	26	8 - 10	21/10/2021
HORIZON-CL4-2021-DIGITAL-EMERGING-01-05	Ultra-low power processors	Open Source Hardware for ultra-low-power, secure processors	CSA	not applicable	not applicable	2	± 2	21/10/2021
HORIZON-CL4-2021-DIGITAL-EMERGING-01-06	European Innovation Leadership in Photonics	Advanced optical communication components	IA	3-4	5-6	26	4 - 6	21/10/2021
HORIZON-CL4-2021-DIGITAL-EMERGING-01-07	European Innovation Leadership in Photonics	Advanced Photonic Integrated Circuits	RIA	2-3	4-5	39	3 - 5	21/10/2021
HORIZON-CL4-2021-DIGITAL-EMERGING-01-09	Innovation in AI, Data and Robotics	AI, Data and Robotics for the Green Deal	IA	3-5	6-7	27	3 - 5	21/10/2021
HORIZON-CL4-2021-DIGITAL-EMERGING-01-10	Innovation in AI, Data and Robotics	AI, Data and Robotics at work	IA	3-5	6-7	22	3 - 5	21/10/2021
HORIZON-CL4-2021-DIGITAL-EMERGING-01-11	Tomorrow's deployable Robots: efficient, robust, safe, adaptive and trusted	Pushing the limit of robotics cognition	RIA	2-3	4-5	44,5	± 5	21/10/2021
HORIZON-CL4-2021-DIGITAL-EMERGING-01-12	Tomorrow's deployable Robots: efficient, robust, safe, adaptive and trusted	European Network of Excellence Centres in Robotics	RIA	2-3	4-5	11,5	± 11,5	21/10/2021
HORIZON-CL4-2021-DIGITAL-EMERGING-01-13	European leadership in Emerging Enabling Technologies	Academia-Industry Forum on Emerging Enabling Technologies	CSA	not applicable	not applicable	2,5	± 2,5	21/10/2021
HORIZON-CL4-2021-DIGITAL-EMERGING-01-14	European leadership in Emerging Enabling Technologies	Advanced spintronics: Unleashing spin in the next generation ICs	RIA	2	4	17	2 - 3	21/10/2021
HORIZON-CL4-2021-DIGITAL-EMERGING-01-21	Flagship on Quantum Technologies: a Paradigm Shift	Next generation quantum sensing technologies	RIA	2-3	4-5	13,5	± 6,75	21/10/2021
HORIZON-CL4-2021-DIGITAL-EMERGING-01-23	Flagship on Quantum Technologies: a Paradigm Shift	International cooperation with Canada	RIA	1-2	2-3	+/- 4	± 1,33	21/10/2021



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HORIZON-CL4-2021-DIGITAL-EMERGING-01-26	6G and foundational connectivity technologies	Coordination of European Smart Network actions	CSA	not applicable	not applicable	3	± 3	21/10/2021
HORIZON-CL4-2021-DIGITAL-EMERGING-01-27	European leadership in Emerging Enabling Technologies	Development of technologies/devices for bio-intelligent manufacturing	RIA	2	4	22,5	5 - 7	21/10/2021
HORIZON-CL4-2021-DIGITAL-EMERGING-01-30	Flagship on Quantum Technologies: a Paradigm Shift	Investing in new emerging quantum computing technologies	RIA	2-3	4-5	10	± 5	21/10/2021
HORIZON-CL4-2021-DIGITAL-EMERGING-01-31	European Innovation Leadership in Electronics	Functional electronics for green and circular economy	RIA	2-3	4-5	35	3 - 5	21/10/2021
HORIZON-CL4-2021-DIGITAL-EMERGING-01-32	Flagship on Quantum Technologies: a Paradigm Shift	Support and coordination of the Quantum Technologies Flagship Initiative (CSA	not applicable	not applicable	6,4	± 6,4	21/10/2021
HORIZON-CL4-2021-DIGITAL-EMERGING-02-10	Flagship on Quantum Technologies: a Paradigm Shift	Strengthening the quantum software ecosystem for quantum computing platforms	RIA	2-3	4-5	12	5 - 7	27/01/2022
HORIZON-CL4-2021-DIGITAL-EMERGING-02-15	Flagship on Quantum Technologies: a Paradigm Shift	Framework Partnership Agreement for developing the first large-scale quantum computers	FPA	not applicable	not applicable			27/01/2022
HORIZON-CL4-2021-DIGITAL-EMERGING-02-16	Flagship on Quantum Technologies: a Paradigm Shift	Basic Science for Quantum Technologies	RIA	2	4	16	2 - 3	27/01/2022
HORIZON-CL4-2021-DIGITAL-EMERGING-02-17	Flagship on Quantum Technologies: a Paradigm Shift	Framework Partnership Agreement for developing large scale quantum simulation platform technologies	FPA	not applicable	not applicable			27/01/2022
HORIZON-CL4-2021-DIGITAL-EMERGING-02-19	Flagship on Quantum Technologies: a Paradigm Shift	Framework Partnership Agreements in Quantum Communications	FPA	not applicable	not applicable			27/01/2022
HORIZON-CL4-2021-DIGITAL-EMERGING-02-20	Flagship on Quantum Technologies: a Paradigm Shift	Quantum sensing technologies for market uptake	IA	4-5	6-7	23	7 - 10	27/01/2022



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HORIZON-CL4-2021-DIGITAL-EMERGING-02-22	Flagship on Quantum Technologies: a Paradigm Shift	Framework Partnership Agreements for open testing and experimentation and for pilot production capabilities for quantum technologies	FPA	not applicable	not applicable			27/01/2022
HORIZON-CL4-2022-DIGITAL-EMERGING-01-26	Ultra-low power processors	Open source for cloud-based services	RIA	4	7	22	4 - 6	05/04/2022
HORIZON-CL4-2022-DIGITAL-EMERGING-01-38	European leadership in Emerging Enabling Technologies	International cooperation in semiconductors	CSA	not applicable	not applicable	3		05/04/2022
HORIZON-CL4-2022-DIGITAL-EMERGING-01-03	European Innovation Leadership in Photonics	Advanced multi-sensing systems	RIA	2	5	48	3 - 5	05/04/2022
HORIZON-CL4-2022-DIGITAL-EMERGING-01-30	6G and foundational connectivity technologies	European Enabling technologies for Beyond 5G/6G RAN disaggregated architectures	RIA	2-3	4-5	13	13	05/04/2022
HORIZON-CL4-2022-DIGITAL-EMERGING-01-39	Ultra-low power processors	Ultra low energy and secure networks	RIA	2-3	6	13	13	05/04/2022
HORIZON-CL4-2022-DIGITAL-EMERGING-01-05	Innovation in AI, Data and Robotics	AI, Data and Robotics for Industry optimisation (including production and services)	IA	3-5	6-7	19	3 - 5	05/04/2022
HORIZON-CL4-2022-DIGITAL-EMERGING-01-06	Tomorrow's deployable Robots: efficient, robust, safe, adaptive and trusted	Pushing the limit of physical intelligence and performance	RIA	2-3	4-5	28,4	± 4	05/04/2022
HORIZON-CL4-2022-DIGITAL-EMERGING-01-07	Tomorrow's deployable Robots: efficient, robust, safe, adaptive and trusted	Increased robotics capabilities demonstrated in key sectors	IA	3-5	6-7	36	± 6	05/04/2022
HORIZON-CL4-2022-DIGITAL-EMERGING-01-35	European leadership in Emerging Enabling Technologies	Advanced characterisation methodologies to assess and predict the health and environmental risks of nanomaterials	RIA	3	5	17,4	2 - 3	05/04/2022
HORIZON-CL4-2022-DIGITAL-EMERGING-01-17	Graphene: Europe in the lead	New generation of advanced electronic and photonic 2D materials-based devices, systems and sensors	RIA	3-4	5	16,4	± 16,5	16/11/2022
HORIZON-CL4-2022-DIGITAL-EMERGING-01-18	Graphene: Europe in the lead	2D materials-based devices and systems for energy storage and/or harvesting	RIA	3-4	5	9	± 9	16/11/2022
HORIZON-CL4-2022-DIGITAL-EMERGING-01-19	Graphene: Europe in the lead	2D materials-based devices and systems for biomedical applications	RIA	3-4	5	6	± 6	16/11/2022



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HORIZON-CL4-2022-DIGITAL-EMERGING-01-20	Graphene: Europe in the lead	2D-material-based composites, coatings and foams	IA	4-5	6-7	9	± 9	16/11/2022
HORIZON-CL4-2022-DIGITAL-EMERGING-01-22	Graphene: Europe in the lead	Supporting the coordination of the Graphene Flagship projects (CSA	not applicable	not applicable	3	± 3	16/11/2022

Desitnation 6: A HUMAN-CENTRED AND ETHICAL DEVELOPMENT OF DIGITAL AND INDUSTRIAL TECHNOLOGIES

HORIZON-CL4-2021-HUMAN-01-01	Leadership in AI based on trust	Verifiable robustness, energy efficiency and transparency for Trustworthy AI: Scientific excellence boosting industrial competitiveness	RIA	2-3	4-5	36	± 4	22/06/2021
HORIZON-CL4-2021-HUMAN-01-02	Leadership in AI based on trust	European coordination, awareness, standardisation & adoption of trustworthy European AI, Data and Robotics	CSA	not applicable	not applicable	13	4 - 9	22/06/2021
HORIZON-CL4-2021-HUMAN-01-03	Leadership in AI based on trust	European Network of AI Excellence Centres: Pillars of the European AI lighthouse	RIA	2-3	4-5	9	± 9	22/06/2021
HORIZON-CL4-2021-HUMAN-01-04	An Internet of Trust	Trust & data sovereignty on the Internet	RIA	not applicable	not applicable	12	± 10	22/06/2021
HORIZON-CL4-2021-HUMAN-01-05	An Internet of Trust	Trustworthy open search and discovery	RIA	not applicable	not applicable	17	± 8,5	22/06/2021
HORIZON-CL4-2021-HUMAN-01-06	eXtended Reality (XR)	Innovation for Media, including eXtended Reality	IA	4	8	26	8 - 9	22/06/2021
HORIZON-CL4-2021-HUMAN-01-07	An Internet of Trust	Next Generation Internet community-building and outreach	CSA	not applicable	not applicable	2	± 2	22/06/2021
HORIZON-CL4-2021-HUMAN-01-08	An Internet of Trust	NGI International Collaboration - Transatlantic fellowship programme	CSA	not applicable	not applicable	2	± 2	22/06/2021
HORIZON-CL4-2021-HUMAN-01-09	An Internet of Trust	NGI Tech Review	CSA	not applicable	not applicable	1,5	± 1,5	22/06/2021
HORIZON-CL4-2021-HUMAN-01-13	eXtended Reality (XR)	eXtended Reality Modelling	RIA	2	5	14,5	± 4,8	22/06/2021
HORIZON-CL4-2021-HUMAN-01-14	eXtended Reality (XR)	eXtended Reality for All – Haptics	RIA	5	7	6	± 6	22/06/2021
HORIZON-CL4-2021-HUMAN-01-17	Systemic approaches to make the most of the technologies within society and industry	Awareness raising on Intellectual property (IP) management for European R&I	CSA	not applicable	not applicable	1	± 1	22/06/2021
HORIZON-CL4-2021-HUMAN-01-18	Systemic approaches to make the most of the technologies within society and industry	Fostering standardisation to boost European industry's competitiveness	CSA	not applicable	not applicable	1	± 1	22/06/2021



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HORIZON-CL4-2021-HUMAN-01-19	Systemic approaches to make the most of the technologies within society and industry	Testing innovative solutions on local communities'-demand	CSA	not applicable	not applicable	5	± 5	22/06/2021
HORIZON-CL4-2021-HUMAN-01-20	Systemic approaches to make the most of the technologies within society and industry	Piloting a new industry-academia knowledge exchange focussing on companies' needs	CSA	not applicable	not applicable	2	± 2	22/06/2021
HORIZON-CL4-2021-HUMAN-01-21	Systemic approaches to make the most of the technologies within society and industry	Art-driven use experiments and design	RIA	3	5	8,5	± 2,8	22/06/2021
HORIZON-CL4-2021-HUMAN-01-24	Leadership in AI based on trust	Tackling gender, race and other biases in AI	RIA	3-4	5-6	10	3 - 3,5	22/06/2021
HORIZON-CL4-2021-HUMAN-01-25	eXtended Reality (XR)	eXtended Collaborative Telepresence	IA	4	6-7	14	5 - 8	22/06/2021
HORIZON-CL4-2021-HUMAN-01-26	Systemic approaches to make the most of the technologies within society and industry	Workforce skills for industry 5.0	RIA	4	6	5	± 5	22/06/2021
HORIZON-CL4-2021-HUMAN-01-27	Leadership in AI based on trust	AI to fight disinformation	RIA	3-4	5-6	13	± 6,5	22/06/2021
HORIZON-CL4-2021-HUMAN-01-28	eXtended Reality (XR)	eXtended Reality Ethics, Interoperability and Impact	CSA	not applicable	not applicable	2,5	± 2,5	22/06/2021
HORIZON-CL4-2021-HUMAN-01-29	Systemic approaches to make the most of the technologies within society and industry	Support for transnational activities of National Contact Points in the thematic area of Digital	CSA	not applicable	not applicable	2,5	± 2,6	22/06/2021
HORIZON-CL4-2021-HUMAN-01-30	Systemic approaches to make the most of the technologies within society and industry	Support for transnational activities of National Contact Points in the thematic area of Industry	CSA	not applicable	not applicable	1,5	± 1,5	22/06/2021
HORIZON-CL4-2021-HUMAN-01-31	Systemic approaches to make the most of the technologies within society and industry	Support for transnational activities of National Contact Points in the thematic area of Space	CSA	not applicable	not applicable	1	± 1	22/06/2021
HORIZON-CL4-2022-HUMAN-01-01	Leadership in AI based on trust	AI for human empowerment	RIA	2-3	4-5	16	± 4	05/04/2022



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HORIZON-CL4-2022-HUMAN-01-02	Leadership in AI based on trust	European Network of AI Excellence Centres: Expanding the European AI lighthouse	RIA	2-3	4-5	34,5	± 11,5	05/04/2022
HORIZON-CL4-2022-HUMAN-01-03	An Internet of Trust	Internet architecture and decentralised technologies	RIA	not applicable	not applicable	22	± 11	05/04/2022
HORIZON-CL4-2022-HUMAN-01-05	An Internet of Trust	Next Generation Safer Internet: Technologies to identify digital Child Sexual Abuse Material (CSAM)	RIA	3	7	2	± 2	05/04/2022
HORIZON-CL4-2022-HUMAN-01-07	An Internet of Trust	NGI International Collaboration - USA and Canada	RIA	not applicable	not applicable	6	± 6	05/04/2022
HORIZON-CL4-2022-HUMAN-01-14	eXtended Reality (XR)	eXtended Reality Technologies	RIA	2	4-5	19	5 - 8	05/04/2022
HORIZON-CL4-2022-HUMAN-01-19	eXtended Reality (XR)	eXtended Reality Learning - Engage and Interact	IA	4	6-7	21,5	5 - 8	05/04/2022



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Deze informatie verwachten wij medio April in een update van deze wegwijzer te publiceren.

Topicnr	Section	Topic naam	Projecttype	TRL bij start	TRL bij einde	Budget totaal	Budget per project	Deadline
Destination 1: CLIMATE NEUTRAL, CIRCULAR AND DIGITISED PRODUCTION						403		
HORIZON-CL4-2021-TWIN-TRANSITION-01-01	Green, flexible and advanced manufacturing	AI enhanced robotics systems for smart manufacturing	IA	5	7	28	8 - 10	23/09/2021
HORIZON-CL4-2021-TWIN-TRANSITION-01-02		Zero-defect manufacturing towards zero-waste	IA	5	7	27	8 - 10	23/09/2021
HORIZON-CL4-2021-TWIN-TRANSITION-01-03		Laser-based technologies for green manufacturing	RIA	3-4	6	26	5 - 7	23/09/2021
HORIZON-CL4-2021-TWIN-TRANSITION-01-05		Manufacturing technologies for bio-based materials	RIA	4	6	20	4 - 6	23/09/2021
HORIZON-CL4-2021-TWIN-TRANSITION-01-07	Advanced digital technologies for manufacturing	Artificial Intelligence for sustainable, agile manufacturing	IA	4	7	18	4 - 6	23/09/2021
HORIZON-CL4-2021-TWIN-TRANSITION-01-08		Data-driven Distributed Industrial Environments	IA	4	7	24	4 - 8	23/09/2021
HORIZON-CL4-2021-TWIN-TRANSITION-01-10	A new way to build, accelerating disruptive change in construction	Digital permits and compliance checks for buildings and infrastructure	IA	5	7	15	± 5	23/09/2021
HORIZON-CL4-2021-TWIN-TRANSITION-01-11		Automated tools for the valorisation of construction waste	RIA	4	6	21	6 - 10	23/09/2021
HORIZON-CL4-2021-TWIN-TRANSITION-01-12		New breakthrough technologies for technological sovereignty in construction	RIA	4	6	24	8 - 10	23/09/2021
HORIZON-CL4-2021-TWIN-TRANSITION-01-14	Hubs for circularity, a stepping stone towards climate neutrality and circularity in industry	Deploying industrial-urban symbiosis solutions for the utilization of energy, water, industrial waste and by-products at regional scale	RIA	4	6	28	8 - 12	23/09/2021



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HORIZON-CL4-2021-TWIN-TRANSITION-01-16		Hubs for Circularity - European Community of Practice (ECOP) platform	CSA	n.a.	n.a.	2	± 2	23/09/2021
HORIZON-CL4-2021-TWIN-TRANSITION-01-17	Enabling circularity of resources in the process industries, including waste, water and CO2/CO	Plastic waste as a circular carbon feedstock for industry	IA	5	7	39	12 - 18	23/09/2021
HORIZON-CL4-2021-TWIN-TRANSITION-01-18		Carbon Direct Avoidance in steel: Electricity and hydrogen-based metallurgy	IA	5	8	28	6 - 8	23/09/2021
HORIZON-CL4-2021-TWIN-TRANSITION-01-19		Improvement of the yield of the iron and steel making	IA	6	8	14	4 - 5	23/09/2021
HORIZON-CL4-2021-TWIN-TRANSITION-01-20		Reducing environmental footprint, improving circularity in extractive and processing value chains	IA	5	7	36	± 12	23/09/2021
HORIZON-CL4-2021-TWIN-TRANSITION-01-21	Integration of Renewables and Electrification in process industry	Design and optimisation of energy flexible industrial processes	IA	5	7	39	12 - 18	23/09/2021
HORIZON-CL4-2021-TWIN-TRANSITION-01-22		Adjustment of Steel process production to prepare for the transition towards climate neutrality	IA	6	8	14	4 - 5	23/09/2021
HORIZON-CL4-2022-TWIN-TRANSITION-01-01	Green, flexible and advanced manufacturing	Rapid reconfigurable production process chains	IA	5	7	27,5	8 - 10	31/03/2022
HORIZON-CL4-2022-TWIN-TRANSITION-01-02		Products with complex functional surfaces	RIA	4	6	21,5	4 - 6	31/03/2022
HORIZON-CL4-2022-TWIN-TRANSITION-01-03		Excellence in distributed control and modular manufacturing	RIA	4	6	21,5	4 - 6	31/03/2022
HORIZON-CL4-2022-TWIN-TRANSITION-01-04		Intelligent work piece handling in a full production line	RIA	4	6	21,5	4 - 6	31/03/2022
HORIZON-CL4-2022-TWIN-TRANSITION-01-06	Advanced digital technologies for manufacturing	ICT Innovation for Manufacturing Sustainability in SMEs (I4MS2)	IA	5	7	30	4 - 8	31/03/2022
HORIZON-CL4-2022-TWIN-TRANSITION-01-07		Digital tools to support the engineering of a Circular Economy	RIA	3-4	6	22	3 - 6	31/03/2022
HORIZON-CL4-2022-TWIN-TRANSITION-01-09	A new way to build, accelerating disruptive change in construction	Demonstrate the use of Digital Logbook for buildings	IA	5	7	9	± 4,5	31/03/2022



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HORIZON-CL4-2022-TWIN-TRANSITION-01-10	Hubs for circularity, a stepping stone towards climate neutrality and circularity in industry	Circular flows for solid waste in urban environment	IA	5	7	42,5	12 - 18	31/03/2022
HORIZON-CL4-2022-TWIN-TRANSITION-01-11	Enabling circularity of resources in the process industries, including waste, water and CO2/CO	Valorisation of CO/CO2 streams into added-value products of market interest	IA	5	7	42,5	15 - 25	31/03/2022
HORIZON-CL4-2022-TWIN-TRANSITION-01-13		Raw material preparation for clean steel production	IA	6	8	14	4 - 5	31/03/2022
HORIZON-CL4-2022-TWIN-TRANSITION-01-15	Integration of Renewables and Electrification in process industry	New electrochemical conversion routes for the production of chemicals and materials in process industries	RIA	3-4	5-6	30	8 - 12	31/03/2022
HORIZON-CL4-2022-TWIN-TRANSITION-01-16		Modular and hybrid heating technologies in steel production	IA	5	7	10	± 3	31/03/2022
HORIZON-CL4-2022-TWIN-TRANSITION-01-17		Integration of hydrogen for replacing fossil fuels in industrial applications	IA	5	7	42,5	12 - 18	31/03/2022
Destination 2: INCREASED AUTONOMY IN KEY STRATEGIC VALUE CHAINS FOR RESILIENT INDUSTRY						334,5		
HORIZON-CL4-2021-RESILIENCE-01-01	-	Ensuring circularity of composite materials	RIA	3	6	24,7	8 - 9	23/09/2021
HORIZON-CL4-2021-RESILIENCE-01-03	Raw materials for EU strategic autonomy and successful transition to a climate-neutral and circular economy	Identifying future availability of secondary raw materials	RIA	-	3-5	13,5	± 13,50	23/09/2021
HORIZON-CL4-2021-RESILIENCE-01-04		Developing climate-neutral and circular raw materials	IA	-	6-7	36	± 12	23/09/2021
HORIZON-CL4-2021-RESILIENCE-01-05		Building EU-Africa partnerships on sustainable raw materials value chains	CSA	na	na	8	± 8	23/09/2021
HORIZON-CL4-2021-RESILIENCE-01-06		Innovation for responsible EU sourcing of primary raw materials, the foundation of the Green Deal	RIA	-	3-5	30	± 7,50	23/09/2021
HORIZON-CL4-2021-RESILIENCE-01-07		Building innovative value chains from raw materials to sustainable products	IA	-	6-7	36	± 12	23/09/2021
HORIZON-CL4-2021-RESILIENCE-01-08	Green and Sustainable Materials	Establishing EU led international community on sustainable-by-design materials to support embedding sustainability criteria over the life cycle of products and processes	CSA	na	na	4	3 - 4	23/09/2021



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Topicnr	Section	Topic naam	Projecttype	TRL bij start	TRL bij einde	Budget totaal	Budget per project	Deadline
HORIZON-CL4-2021-RESILIENCE-01-09		Promote Europe's availability, affordability, sustainability and security of supply of essential chemicals and materials	IA	5	7	28	7 - 10	23/09/2021
HORIZON-CL4-2021-RESILIENCE-01-10		Paving the way to an increased share of recycled plastics in added value products	RIA	3	6	23	5 - 7	23/09/2021
HORIZON-CL4-2021-RESILIENCE-01-11		Safe- and sustainable-by-design polymeric materials	RIA	3	5	19	4 - 5	23/09/2021
HORIZON-CL4-2021-RESILIENCE-01-12		Safe- and sustainable-by-design metallic coatings and engineered surfaces	RIA	3	5	19	4 - 5	23/09/2021
HORIZON-CL4-2021-RESILIENCE-01-14	Materials for the benefit of society and the environment and materials for climate-neutral Industry	Development of more energy efficient electrically heated catalytic reactors	IA	4-5	6	33	7 - 10	23/09/2021
HORIZON-CL4-2021-RESILIENCE-01-16		Creation of an innovation community for solar fuels and chemicals	CSA	na	na	4	3 - 4	23/09/2021
HORIZON-CL4-2021-RESILIENCE-01-17		Advanced materials for hydrogen storage	RIA	3	5	21	4 - 6	23/09/2021
HORIZON-CL4-2021-RESILIENCE-01-20		Antimicrobial, Antiviral, and Antifungal Nanocoatings	RIA	3	6	23	4 - 6	23/09/2021
HORIZON-CL4-2021-RESILIENCE-01-25	Materials and data cross-cutting actions	Biomaterials database for Health Applications	CSA	na	na	6	2 - 4	23/09/2021
HORIZON-CL4-2021-RESILIENCE-01-26		Sustainable Industry Commons	RIA	3	6	6	2 - 4	23/09/2021
HORIZON-CL4-2021-RESILIENCE-01-27	Improving the resilience and preparedness of EU businesses, especially SMEs and Startups	Innovation Radar, Tech Due Diligence and Venture Building for strategic digital technologies	CSA	na	na	4	2,5 - 4	23/09/2021
HORIZON-CL4-2021-RESILIENCE-01-28		Re-opening industrial sites preparatory action – Promoting a sustainable strategy for Europe's industrial future	CSA	na	na	2	± 1	23/09/2021
HORIZON-CL4-2021-RESILIENCE-01-29		'Innovate to transform' support for SME's sustainability transition	CSA	na	na	10	± 5	23/09/2021
HORIZON-CL4-2021-RESILIENCE-01-31		European Technological and Social Innovation Factory	RIA	-	-	5	3 - 5	23/09/2021
HORIZON-CL4-2021-RESILIENCE-02-32		Social and affordable housing district demonstrator	IA	-	-	10	± 2,50	25/01/2022



Cluster 4: Digital - Industry - Space

Topicnr	Section	Topic naam	Projecttype	TRL bij start	TRL bij einde	Budget totaal	Budget per project	Deadline
HORIZON-CL4-2022-RESILIENCE-01-01	Novel paradigms to establish resilient and circular value chains	Circular and low emission value chains through digitalisation	RIA	-	-	25,3	6 to 8	30/03/2022
HORIZON-CL4-2022-RESILIENCE-01-02	Raw materials for EU strategic autonomy and successful transition to a climate-neutral and circular economy	Monitoring and supervising system for exploration and future exploitation activities in the deep sea	RIA	-	3-5	14	± 14	30/03/2022
HORIZON-CL4-2022-RESILIENCE-01-03		Streamlining cross-sectoral policy framework throughout the extractive life-cycle in environmentally protected areas	CSA	na	na	2,4	± 2,40	30/03/2022
HORIZON-CL4-2022-RESILIENCE-01-04		Developing digital platforms for the small scale extractive industry	IA	-	6-7	15	± 5	30/03/2022
HORIZON-CL4-2022-RESILIENCE-01-05		Technological solutions for tracking raw material flows in complex supply chains	RIA	-	3-5	13,5	± 13,50	30/03/2022
HORIZON-CL4-2022-RESILIENCE-01-06		Sustainable and innovative mine of the future	IA	-	6-7	36	± 12	30/03/2022
HORIZON-CL4-2022-RESILIENCE-01-07		Innovative solutions for efficient use and enhanced recovery of mineral and metal by-products from processing of raw materials	IA	-	6-7	36	± 12	30/03/2022
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	-	3-5	13,5	± 4,50	30/03/2022
HORIZON-CL4-2022-RESILIENCE-01-10	Green and Sustainable Materials	Innovative materials for advanced (nano)electronic components and systems	RIA	3	5	20	3 - 5	30/03/2022
HORIZON-CL4-2022-RESILIENCE-01-11		Advanced lightweight materials for energy efficient structures	RIA	3	5	20	3 - 5	30/03/2022
HORIZON-CL4-2022-RESILIENCE-01-12		Functional multi-material components and structures	RIA	3	6	20	4 - 6	30/03/2022
HORIZON-CL4-2022-RESILIENCE-01-23		Safe- and sustainable-by-design organic and hybrid coatings	RIA	3	5	20	3 - 5	30/03/2022
HORIZON-CL4-2022-RESILIENCE-01-13	Materials for the benefit of society and the environment and materials for climate neutral Industry	Smart and multifunctional biomaterials for health innovations	RIA	3	5	20	3 - 5	30/03/2022



Cluster 4: Digital - Industry - Space

Topicnr	Section	Topic naam	Projecttype	TRL bij start	TRL bij einde	Budget totaal	Budget per project	Deadline
HORIZON-CL4-2022-RESILIENCE-01-14		Membranes for gas separations - membrane distillation	IA	4	7	21	6 - 8	30/03/2022
HORIZON-CL4-2022-RESILIENCE-01-16		Building and renovating by exploiting advanced materials for energy and resources efficient management	IA	5	7	21	5 - 7	30/03/2022
HORIZON-CL4-2022-RESILIENCE-01-24		Novel materials for supercapacitor energy storage	RIA	3	6	23	4 - 6	30/03/2022
HORIZON-CL4-2022-RESILIENCE-01-19	Materials and data cross-cutting actions	Advanced materials modelling and characterisation	RIA	3	5	18	4 - 6	30/03/2022
HORIZON-CL4-2022-RESILIENCE-01-20		Climate Neutral and Circular Innovative Materials Technologies Open Innovation Test Beds	IA	5	7	34	10 - 12	30/03/2022
HORIZON-CL4-2022-RESILIENCE-01-25		Optimised Industrial Systems and Lines through digitalisation	IA	-	6	15	4 - 5	30/03/2022
HORIZON-CL4-2022-RESILIENCE-01-21	Improving the resilience and preparedness of EU businesses, especially SMEs and Startups	Leveraging standardisation in and Digital Technologies	CSA	na	na	4,5	± 4,50	30/03/2022
HORIZON-CL4-2022-RESILIENCE-01-26		'Innovate to transform' support for SME's sustainability transition	CSA	na	na	10	± 5	30/03/2022
HORIZON-CL4-2022-RESILIENCE-02-01-PCP	Improving the resilience and preparedness of EU businesses, especially SMEs and Startups	Boosting economic recovery and strategic autonomy in Strategic Digital Technologies through pre-commercial procurement	PCP	n.a.	n.a.	9	± 9	30/03/2022



Cluster 4: Digital - Industry - Space

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Cluster 5: Climate - Energy - Mobility

Contact

Alexander van Dorssen
Corinne van Voorden

Topicnr	Topic naam	Projecttype	TRL bij start	TRL bij einde	Budget totaal	Budget per project	Deadline	Deadline 2e stap
Call - Climate sciences and responses HORIZON-CL5-2021-D1-01								
HORIZON-CL5-2021-D1-01-01	Improved understanding of greenhouse gas fluxes and radiative forcers, including carbon dioxide removal technologies	RIA			24	8	9/14/2021	
HORIZON-CL5-2021-D1-01-02	Modelling the role of the circular economy for climate change mitigation	RIA			15	5	9/14/2021	
HORIZON-CL5-2021-D1-01-03	Maximising the impact and synergy of European climate change research and innovation	CSA			9	4 - 5	9/14/2021	
HORIZON-CL5-2021-D1-01-04	Enhanced integrated assessment in pursuit of global climate goals	RIA			15	5	9/14/2021	
HORIZON-CL5-2021-D1-01-05	Better understanding of the interactions between climate change impacts and risks, mitigation and adaptation options	RIA			20	6 - 7	9/14/2021	
HORIZON-CL5-2021-D1-01-06	Supporting and standardising climate service	CSA			9	9	9/14/2021	
HORIZON-CL5-2021-D1-01-07	Improved economic methods for decision-making on climate and environmental policies	RIA			6	3	9/14/2021	
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	RIA			20	6 - 7	9/14/2021	
HORIZON-CL5-2021-D1-01-09	The contribution of forest management to climate action: pathways, trade-offs and co-benefits	RIA			18	6	9/14/2021	



Cluster 5: Climate - Energy - Mobility

Topicnr	Topic naam	Projecttype	TRL bij start	TRL bij einde	Budget totaal	Budget per project	Deadline	Deadline 2e stap
Call - Climate sciences and responses HORIZON-CL5-2022-D1-01-two-stage								
HORIZON-CL5-2022-D1-01-01-two-stage	Carbon Dioxide Removal (CDR) approaches	RIA			21	7	10/02/2022	27/09/2022
HORIZON-CL5-2022-D1-01-02-two-stage	Socio-economic risks of climate change in Europe	RIA			10	5	10/02/2022	27/09/2022
HORIZON-CL5-2022-D1-01-03-two-stage	Social science for land-use strategies in the context of climate change and biodiversity challenges	RIA			20	6 - 7	10/02/2022	27/09/2022
Call - Climate sciences and responses HORIZON-CL5-2022-D1-02								
HORIZON-CL5-2022-D1-02-01	Verification and reconciliation of estimates of climate forcers	RIA			15	5	10/02/2022	
HORIZON-CL5-2022-D1-02-02	Development of high-resolution Earth system models for global and regional climate change projections	RIA			20	10	10/02/2022	
HORIZON-CL5-2022-D1-02-03	Improvement of Integrated Assessment Models in support of climate policies	RIA			15	5	10/02/2022	
HORIZON-CL5-2022-D1-02-04	Supporting the formulation of adaptation strategies through improved climate predictions in Europe and beyond	RIA			20	10	10/02/2022	
HORIZON-CL5-2022-D1-02-05	Let nature help do the job: Rewilding landscapes for carbon sequestration, climate adaptation and biodiversity support	RIA			17	8 - 9	10/02/2022	
Call - Cross-sectoral solutions for the climate transition HORIZON-CL5-2021-D2-01								
HORIZON-CL5-2021-D2-01-01	Sustainable processing, refining and recycling of raw materials (Batteries Partnership)	RIA		44320	21	6 - 7	19/10/2021	
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)	RIA		6+	24	6 - 8	19/10/2021	
HORIZON-CL5-2021-D2-01-03	Advanced high-performance Generation 4a, 4b (solid-state) Li-ion batteries supporting electro mobility and other applications (Batteries Partnership)	RIA		5	36	8 - 9	19/10/2021	
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)	RIA		5 - 6	20	5	19/10/2021	
HORIZON-CL5-2021-D2-01-05	Manufacturing technology development for solid-state batteries (SSB, Generations 4a - 4b batteries) (Batteries Partnership)	RIA		5 - 6	26	6 - 7	19/10/2021	
HORIZON-CL5-2021-D2-01-06	Sustainable, safe and efficient recycling processes (Batteries Partnership)	RIA		5 - 6	30	9 - 10	19/10/2021	



Cluster 5: Climate - Energy - Mobility

Topicnr	Topic naam	Projecttype	TRL bij start	TRL bij einde	Budget totaal	Budget per project	Deadline	Deadline 2e stap
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)	CSA			3	3	19/10/2021	
HORIZON-CL5-2021-D2-01-08	Emerging technologies for a climate neutral Europe	RIA		4	20	2,5	19/10/2021	
HORIZON-CL5-2021-D2-01-09	Methane cracking to usable hydrogen and carbon	RIA	-3	5	15	2 - 3	19/10/2021	
HORIZON-CL5-2021-D2-01-10	Technologies for non- CO2 greenhouse gases removal	RIA	-3				19/10/2021	
HORIZON-CL5-2021-D2-01-11	Direct atmospheric carbon capture and conversion		RIA	-3	4 - 5			19/10/2021
HORIZON-CL5-2021-D2-01-12	Fostering a just transition in Europe	RIA			10	3 - 4	19/10/2021	
HORIZON-CL5-2021-D2-01-13	Strengthening Social Sciences and Humanities (SSH) research communities in climate, energy and mobility disciplines	CSA			3	2 - 3	19/10/2021	
HORIZON-CL5-2021-D2-01-14	Accelerating the climate transition in difficult contexts: transition super-labs (pilot)	CSA			2	2 - 3	19/10/2021	
HORIZON-CL5-2021-D2-01-15	Fostering cooperation between Horizon Europe cluster 5 National Contact Points (NCPs)	CSA			3,5	3,5	19/10/2021	
HORIZON-CL5-2021-D2-01-16	Co-Funded Partnership: Driving Urban Transitions to a sustainable future (DUT)	COFUND			37	37	19/10/2021	

Call - Cross-sectoral solutions for the climate transition HORIZON-CL5-2022-D2-01

HORIZON-CL5-2022-D2-01-01	Sustainable processing and refining of battery grade graphite (Batteries Partnership)	IA		6 - 7	10	5	06/09/2022	
HORIZON-CL5-2022-D2-01-02	Interface and electron monitoring for the engineering of new and emerging battery technologies (Batteries Partnership)	RIA		3 - 4	10	5	06/09/2022	
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)	RIA		3 - 4	20	20	06/09/2022	
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)	IA	3 + 6	6 + 7	15	7 - 8	06/09/2022	



Cluster 5: Climate - Energy - Mobility

Topicnr	Topic naam	Projecttype	TRL bij start	TRL bij einde	Budget totaal	Budget per project	Deadline	Deadline 2e stap
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)	RIA		5	15	5	06/09/2022	
HORIZON-CL5-2022-D2-01-06	Embedding smart functionalities into battery cells (embedding sensing and self-healing functionalities to monitor and self-repair battery cells) (Batteries Partnership)	RIA		2 - 4	15	5	06/09/2022	
HORIZON-CL5-2022-D2-01-07	Digitalisation of battery testing, from cell to system level, including lifetime assessment (Batteries Partnership)	RIA		5 - 6	15	5	06/09/2022	
HORIZON-CL5-2022-D2-01-08	Coordination of large-scale initiative on future battery technologies (Batteries Partnership)	CSA			3	3	06/09/2022	
HORIZON-CL5-2022-D2-01-09	Physics and data-based battery management for optimised battery utilisation (Batteries Partnership)	RIA		4	15	5	06/09/2022	
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)	RIA		5 - 7	15	5	06/09/2022	
HORIZON-CL5-2022-D2-01-11	CIVITAS 2030 – Coordination and support for EU funded urban mobility innovation	CSA			5	4 - 5	06/09/2022	



Cluster 5: Climate - Energy - Mobility

Contact

Achim Eberspächer

Topicnr	Topic naam	Projecttype	TRL bij einde	Budget totaal (€ mln)	Budget per project	Deadline
Destination: Sustainable, secure and competitive energy supply						
HORIZON-CL5-2021-D3-01-01	Establish the grounds for a common European energy data space	IA	5 - 7	32	± 8	19/10/2021
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	CSA	not applicable	1	± 1	19/10/2021
HORIZON-CL5-2021-D3-01-03	Interoperability community	CSA	not applicable	5	± 5	19/10/2021
HORIZON-CL5-2021-D3-01-04	Clean Energy Transition	COFUND	not applicable	70	± 70	19/10/2021
HORIZON-CL5-2021-D3-02-01	Demonstration of wave energy devices to increase experience in real sea condition	IA	not applicable	15	± 15	05/01/2022
HORIZON-CL5-2021-D3-02-02	Sustainability and educational aspects for renewable energy and renewable fuel technologies	CSA	not applicable	10	± 2,5	05/01/2022
HORIZON-CL5-2021-D3-02-03	Market Uptake Measures of renewable energy systems	CSA	not applicable	10	± 2	05/01/2022
HORIZON-CL5-2021-D3-02-04	Novel tandem, high efficiency Photovoltaic technologies targeting low cost production with earth abundant materials	RIA	5	20	± 5	05/01/2022
HORIZON-CL5-2021-D3-02-05	Energy Sector Integration: Integrating and combining energy systems to a cost-optimised and flexible energy system of systems	IA	6 - 8	30	9 - 10	05/01/2022
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)	IA	7 - 8	25	± 8	05/01/2022
HORIZON-CL5-2021-D3-02-07	Reliability and resilience of the grid: Measures for vulnerabilities, failures, risks and privacy	IA	5 - 6	15	7 - 8	05/01/2022



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Topicnr	Topic naam	Projecttype	TRL bij einde	Budget totaal (€ mln)	Budget per project	Deadline
HORIZON-CL5-2021-D3-02-08	Electricity system reliability and resilience by design: High-Voltage, Direct Current (HVDC)-based systems and solutions	RIA	5 - 6	15	7 - 8	05/01/2022
HORIZON-CL5-2021-D3-02-09	Demonstration of superconducting systems and elpipes	IA	8	15	± 15	05/01/2022
HORIZON-CL5-2021-D3-02-10	Demonstration of advanced Power Electronics for application in the energy sector	IA	5 - 6	10	± 5	05/01/2022
HORIZON-CL5-2021-D3-02-11	Reinforcing digitalisation related know how of local energy ecosystems	CSA	not applicable	4	± 4	05/01/2022
HORIZON-CL5-2021-D3-02-12	Integration of CCUS in hubs and clusters, including knowledge sharing activities	CSA	not applicable	2	± 2	05/01/2022
HORIZON-CL5-2021-D3-02-13	Cost reduction of CO2 capture (new or improved technologies)	RIA	6	30	10 - 15	05/01/2022
HORIZON-CL5-2021-D3-02-14	Support to the activities of the European Geological Services	CSA	not applicable	20	± 20	05/01/2022
HORIZON-CL5-2021-D3-02-15	Support to the activities of the ETIPs and technology areas of the SET Plan	CSA	not applicable	9,8	± 1	05/01/2022
HORIZON-CL5-2021-D3-03-01	AU-EU Water Energy Food Nexus	RIA	4	5	± 2,5	23/02/2022
HORIZON-CL5-2021-D3-03-02	Next generation of renewable energy technologies	RIA	3 - 4	33	± 3	23/02/2022
HORIZON-CL5-2021-D3-03-03	Hybrid catalytic conversion of renewable energy to carbon-neutral fuels	RIA	3 - 4	10	± 3,3	23/02/2022
HORIZON-CL5-2021-D3-03-04	Physics and aerodynamics of atmospheric flow of wind for power production	RIA	5	18	± 6	23/02/2022
HORIZON-CL5-2021-D3-03-05	Wind energy in the natural and social environment	RIA	5	10	± 3	23/02/2022
HORIZON-CL5-2021-D3-03-06	Novel approaches to concentrated solar power (CSP)	RIA	4 - 5	9	± 3	23/02/2022
HORIZON-CL5-2021-D3-03-07	Stable high-performance Perovskite Photovoltaics	RIA	5	15	± 5	23/02/2022
HORIZON-CL5-2021-D3-03-08	Cost-effective micro-CHP and hybrid heating systems	RIA	5	10	3 - 5	23/02/2022
HORIZON-CL5-2021-D3-03-09	Carbon-negative sustainable biofuel production	RIA	4 - 5	15	± 5	23/02/2022
HORIZON-CL5-2021-D3-03-10	Innovative foundations, floating substructures and connection systems for floating PV and ocean energy devices	RIA	4 - 5	10	± 3,5	23/02/2022
HORIZON-CL5-2021-D3-03-11	Development of hydropower equipment for hidden hydropower	RIA	5	10	3 - 5	23/02/2022
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)	IA	7	50	± 16	23/02/2022
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.)	IA	7	45	± 15	23/02/2022
HORIZON-CL5-2021-D3-03-14	Demonstration of large-scale CHP technologies for a shift to the use of biogenic residues and wastes	IA	7	10	± 10	23/02/2022
HORIZON-CL5-2021-D3-03-15	Solutions for more sustainable geothermal energy	RIA	5	10	± 5	23/02/2022



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Topicnr	Topic naam	Projecttype	TRL bij einde	Budget totaal (€ mln)	Budget per project	Deadline
HORIZON-CL5-2021-D3-03-16	Innovative biomethane production as an energy carrier and a fuel	IA	6 - 7	20	± 10	23/02/2022
HORIZON-CL5-2022-D3-01-01	Demonstration of cost-effective advanced biofuel technologies utilizing existing industrial plants	IA	6 - 7	20	± 10	26/04/2022
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	IA	6 - 7	40	± 13	26/04/2022
HORIZON-CL5-2022-D3-01-03	Advanced manufacturing of Integrated PV	IA	7	32	± 16	26/04/2022
HORIZON-CL5-2022-D3-01-04	Demonstrate the use of high temperature geothermal reservoirs to provide energy storage for the energy system	IA	7	20	± 20	26/04/2022
HORIZON-CL5-2022-D3-01-05	Demonstration of innovative plug-and play solutions for system management and renewables storage in off-grid applications	IA	8	10	± 10	26/04/2022
HORIZON-CL5-2022-D3-01-06	Novel Agro-Photovoltaic systems	IA	7	10	± 5	26/04/2022
HORIZON-CL5-2022-D3-01-07	Demonstration of innovative rotor, blades and control systems for tidal energy devices	IA	7	10	± 10	26/04/2022
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	IA	6 - 8	18	5 - 6	26/04/2022
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)	IA	6 - 7	55	± 55	26/04/2022
HORIZON-CL5-2022-D3-01-10	Interoperable solutions for flexibility services using distributed energy storage	IA	5 - 7	7	2 - 3	26/04/2022
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	IA	6 - 7	30	7 - 8	26/04/2022
HORIZON-CL5-2022-D3-01-12	Replicable solutions for a cross sector compliant energy ecosystem	IA	6 - 7	35	8 - 9	26/04/2022
HORIZON-CL5-2022-D3-01-13	Energy system modelling, optimisation and planning tools	RIA	not applicable	6	± 6	26/04/2022
HORIZON-CL5-2022-D3-01-14	Thermal energy storage solutions	IA	6 - 7	30	7 to 8	26/04/2022
HORIZON-CL5-2022-D3-01-15	Decarbonising industry with CCUS	IA	7 - 8	58	± 29	26/04/2022
HORIZON-CL5-2022-D3-02-01	Digital solutions for defining synergies in international renewable energy value chains	RIA	5	9	± 3	27/10/2022
HORIZON-CL5-2022-D3-02-02	AU-EU Energy System Modelling	RIA	not applicable	5	± 2,5	27/10/2022
HORIZON-CL5-2022-D3-02-03	Innovative renewable energy carrier production for heating from renewable energies	IA	7	10	± 10	27/10/2022
HORIZON-CL5-2022-D3-02-04	Technological interfaces between solar fuel technologies and other renewables	RIA	4	10	3 - 5	27/10/2022



Cluster 5: Climate - Energy - Mobility

Topicnr	Topic naam	Projecttype	TRL bij einde	Budget totaal (€ mln)	Budget per project	Deadline
HORIZON-CL5-2022-D3-02-05	Renewable energy carriers from variable renewable electricity surplus and carbon emissions from energy consuming sectors	IA	7	20	± 10	27/10/2022
HORIZON-CL5-2022-D3-02-06	Direct renewable energy integration into process energy demands of the chemical industry	RIA	4 - 5	10	3 - 5	27/10/2022
HORIZON-CL5-2022-D3-02-07	Renewable energy incorporation in agriculture and forestry	IA	6 - 7	15	± 7,5	27/10/2022
HORIZON-CL5-2022-D3-02-08	Demonstration of complete value chains for advanced biofuel and non-biological renewable fuel production	IA	6 - 7	20	± 10	27/10/2022
HORIZON-CL5-2022-D3-03-01	Innovative components and/or sub-systems for CSP plants and/or concentrating solar thermal installations	IA	6 - 7	16,5	± 5,5	10/01/2023
HORIZON-CL5-2022-D3-03-02	Best international practice for scaling up sustainable biofuels	RIA	4 - 5	9	± 3	10/01/2023
HORIZON-CL5-2022-D3-03-03	Efficient and circular artificial photosynthesis	RIA	5	10	3 - 5	10/01/2023
HORIZON-CL5-2022-D3-03-04	Integrated wind farm control	RIA	5	18	± 6	10/01/2023
HORIZON-CL5-2022-D3-03-05	Novel Thin Film (TF) technologies targeting high efficiencies	RIA	5	20	± 5	10/01/2023
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	RIA	5	10	3 - 5	10/01/2023
HORIZON-CL5-2022-D3-03-07	Development of algal and renewable fuels of non-biological origin	RIA	4 - 5	15	± 5	10/01/2023
HORIZON-CL5-2022-D3-03-08	Development of digital solutions for existing hydropower operation and maintenance	RIA	5	9	3 - 4,5	10/01/2023
HORIZON-CL5-2022-D3-03-09	Recycling end of life PV modules	IA	7	20	6 - 7	10/01/2023
Destination: Efficient, sustainable and inclusive energy use						
HORIZON-CL5-2021-D4-01-01	Advanced energy performance assessment and certification	IA	6 - 7	10	3 - 5	19/10/2021
HORIZON-CL5-2021-D4-01-02	Industrialisation of deep renovation workflows for energy-efficient buildings	IA	8	16	5 - 8	19/10/2021
HORIZON-CL5-2021-D4-01-03	Advanced data-driven monitoring of building stock energy performance	IA	8	10	3 - 5	19/10/2021
HORIZON-CL5-2021-D4-01-04	Full-scale demonstration of heat upgrade technologies with supply temperature in the range 90 - 160°C	IA	7 - 8	16	± 8	19/10/2021
HORIZON-CL5-2021-D4-01-05	Industrial excess (waste) Heat-to-Power conversion based on organic Rankine cycles	IA	6 - 7	14	10 - 14	19/10/2021
HORIZON-CL5-2021-D4-02-01	Demonstrating integrated technology solutions for buildings with performance guarantees (Built4People)	IA	6 - 7	15	5 - 7,5	25/01/2022
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)	IA	7	22	9 - 11	25/01/2022



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Topicnr	Topic naam	Projecttype	TRL bij einde	Budget totaal (€ mln)	Budget per project	Deadline
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)	CSA	not applicable	1	± 1	25/01/2022
HORIZON-CL5-2022-D4-01-01	Demand response in energy-efficient residential buildings	IA	6 - 7	12	4 - 6	06/09/2022
HORIZON-CL5-2022-D4-01-02	Renewable-intensive, energy positive homes	IA	6 - 7	12	4 - 6	06/09/2022
HORIZON-CL5-2022-D4-01-03	Smarter buildings for better energy performance	IA	8	12	4 - 6	06/09/2022
HORIZON-CL5-2022-D4-01-04	Development and pilot demonstration of heat upgrade technologies with supply temperature in the range 150-250°C	RIA	5	10	3 - 5	06/09/2022
HORIZON-CL5-2022-D4-01-05	Development of high temperature thermal storage for industrial applications	RIA	4 - 5	8	3 - 4	06/09/2022
HORIZON-CL5-2022-D4-02-01	Designs, materials and solutions to improve resilience, preparedness & responsiveness of the built environment for climate adaptation (Built4People)	IA	6 - 7	15	5 - 7,5	24/01/2023
HORIZON-CL5-2022-D4-02-02	Solutions for the sustainable, resilient, inclusive and accessible regeneration of neighbourhoods enabling low carbon footprint lifestyles and businesses (Built4People)	IA	6 - 7	15	5 - 7,5	24/01/2023
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)	RIA	5	20	4 - 5	24/01/2023
HORIZON-CL5-2022-D4-02-04	Smart-grid ready and smart-network ready buildings, acting as active utility nodes (Built4People)	IA	7	18	6 - 9	24/01/2023
HORIZON-CL5-2022-D4-02-05	More sustainable buildings with reduced embodied energy / carbon, high life-cycle performance and reduced life-cycle costs (Built4People)	IA	6 - 7	18	6 - 9,5	24/01/2023

*Toelichting over het budget 70 mln € van HORIZON-CL5-2021-D3-01-04: dit wordt in twee gelijke termijnen (in 2021 en 2022) betaald.



Cluster 5: Climate - Energy - Mobility

Contact

Fatma Saçli

Topicnr	Topic naam	Projecttype	TRL bij einde	Budget totaal (€ mln)	Budget per project (€ mln)	Deadline
Destination: Clean and competitive solutions for all transport modes						
HORIZON-CL5-2021-D5-01-01	Nextgen vehicles: Innovative zero emission BEV architectures for regional medium freight haulage (2ZERO)	IA	7 - 8	45	10 - 15	14/09/2021
HORIZON-CL5-2021-D5-01-02	Nextgen EV components: Integration of advanced power electronics and associated controls (2ZERO)	RIA	5 - 6	20	4 - 6	14/09/2021
HORIZON-CL5-2021-D5-01-03	System approach to achieve optimised Smart EV Charging and V2G flexibility in mass-deployment conditions (2ZERO)	RIA	5 - 7	25	7 - 10	14/09/2021
HORIZON-CL5-2021-D5-01-04	LCA and design for sustainable circularity - holistic approach for zero-emission mobility solutions and related battery value chain (2ZERO & Batteries Partnership)	CSA	n.v.t.	4	± 4	14/09/2021
HORIZON-CL5-2021-D5-01-05	Greenhouse gas aviation emissions reduction technologies towards climate neutrality by 2050	RIA	2 - 4	25	2 - 6	14/09/2021
HORIZON-CL5-2021-D5-01-06	Next generation digital aircraft transformation in design, manufacturing, integration and maintenance	RIA	2 - 4 (uitzonderingen tot 6)	29	3 - 6	14/09/2021
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 (ZEWTP Partnership)	IA	6 - 7	20	± 10	14/09/2021
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 (ZEWTP Partnership)	RIA	5	15	± 15	14/09/2021
HORIZON-CL5-2021-D5-01-09	CSA identifying waterborne sustainable fuel deployment scenarios (ZEWTP Partnership)	CSA	n.v.t.	0,5	± 0,50	14/09/2021



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Topicnr	Topic naam	Projecttype	TRL bij einde	Budget totaal (€ mln)	Budget per project (€ mln)	Deadline
HORIZON-CL5-2021-D5-01-10	Innovative on-board energy saving solutions (ZEWT Partnership)	RIA	5	20	± 5	14/09/2021
HORIZON-CL5-2021-D5-01-11	Hyper powered vessel battery charging system (ZEWT Partnership)	IA	6 - 7	14	± 7	14/09/2021
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)	IA	7	7	± 7	14/09/2021
HORIZON-CL5-2021-D5-01-13	Digital Twin models to enable green ship operations (ZEWT Partnership)	RIA	5	7	± 7	14/09/2021
HORIZON-CL5-2021-D5-01-14	Proving the feasibility of a large clean ammonia marine engine (ZEWT Partnership)	IA	6 - 7	10	± 10	14/09/2021
HORIZON-CL5-2021-D5-01-15	Development and demonstration of cost affordable and adaptable retrofit solutions for tailpipe and brake polluting emissions	IA	8	10	4 - 5	14/09/2021
HORIZON-CL5-2021-D5-01-16	Assessment of noise and particle emissions of L category vehicles from real driving conditions	RIA	5 - 6	5	4 - 5	14/09/2021
HORIZON-CL5-2021-D5-01-17	Support for dissemination events in the field of Transport Research	CSA	n.v.t.	1,5	± 1,5	14/09/2021
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)	IA	7	16	± 8	26/04/2022
HORIZON-CL5-2022-D5-01-02	Innovative energy storage systems on-board vessels (ZEWT Partnership)	RIA	5	15	± 5	26/04/2022
HORIZON-CL5-2022-D5-01-03	Exploiting renewable energy for shipping, in particular focusing on the potential of wind energy (ZEWT Partnership)	RIA	5	18	± 9	26/04/2022
HORIZON-CL5-2022-D5-01-04	Transformation of the existing fleet towards greener operations through retrofitting (ZEWT Partnership)	IA	7 - 8	25	± 5	26/04/2022
HORIZON-CL5-2022-D5-01-05	Seamless safe logistics through an autonomous waterborne freight feeder loop service	RIA	5	15	± 15	26/04/2022
HORIZON-CL5-2022-D5-01-06	Computational tools for shipbuilding	IA	7 - 8	7	± 7	26/04/2022
HORIZON-CL5-2022-D5-01-07	Prevent smog episodes in Europe: Air quality impact of engine-emitted volatile, semi volatile and secondary particles	RIA	5	7	2,5 - 3	26/04/2022
HORIZON-CL5-2022-D5-01-08	Modular multi-powertrain zero-emission systems for HDV (BEV and FCEV) for efficient and economic operation (ZZERO)	IA	7 - 8	58	15 - 20	26/04/2022
HORIZON-CL5-2022-D5-01-09	Nextgen EV components: High efficiency and low cost electric motors for circularity and low use of rare resources (ZZERO)	RIA	5 - 7	20	3 - 6	26/04/2022
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 (ZZERO)	IA	7 - 8	25	20 - 25	26/04/2022
HORIZON-CL5-2022-D5-01-11	Stimulating Road Transport research and innovation dissemination and implementation in Europe and around the World	CSA	n.v.t.	2	± 2	26/04/2022



Cluster 5: Climate - Energy - Mobility

Topicnr	Topic naam	Projecttype	TRL bij einde	Budget totaal (€ mln)	Budget per project (€ mln)	Deadline
HORIZON-CL5-2022-D5-01-12	Towards a silent and ultra-low local air pollution aircraft	RIA	2 - 4	20	2 - 5	26/04/2022
HORIZON-CL5-2022-D5-01-13	Digital aviation technologies for new aviation business models, services, emerging global threats and industrial competitiveness	RIA	2 - 4	20	2 - 5	26/04/2022
HORIZON-CL5-2022-D5-01-14	European Aviation Research Policy in support to EU policies and initiatives	RIA	2 - 4	5	0,5 - 2,5	26/04/2022
Destination: Safe, Resilient Transport and Smart Mobility services for passengers and goods						
HORIZON-CL5-2021-D6-01-01	More powerful and reliable on-board perception and decision-making technologies addressing complex environmental conditions (CCAM Partnership)	IA	6 - 7	15	6 - 8	19/10/2021
HORIZON-CL5-2021-D6-01-02	Common approaches for the safety validation of CCAM systems (CCAM Partnership)	RIA	5	15	12 - 15	19/10/2021
HORIZON-CL5-2021-D6-01-03	Physical and Digital Infrastructure (PDI), connectivity and cooperation enabling and supporting CCAM (CCAM Partnership)	IA	6 - 7	18	7 - 9	19/10/2021
HORIZON-CL5-2021-D6-01-04	Cyber secure and resilient CCAM (CCAM Partnership)	RIA	5	12	5 - 6	19/10/2021
HORIZON-CL5-2021-D6-01-05	Analysis of socio-economic and environmental impacts and assessment of societal, citizen and user aspects for needs based CCAM solutions (CCAM Partnership)	RIA	n.v.t.	8	3 - 4	19/10/2021
HORIZON-CL5-2021-D6-01-06	Framework for better coordination of large-scale demonstration pilots in Europe and EU-wide knowledge base (CCAM Partnership)	RIA	n.v.t.	6	5 - 6	19/10/2021
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	IA	7 - 8	15	7 - 8	19/10/2021
HORIZON-CL5-2021-D6-01-08	New delivery methods and business/operating models to green the last mile and optimise road transport	IA	n.v.t.	15	7 - 8	19/10/2021
HORIZON-CL5-2021-D6-01-09	Climate resilient and environmentally sustainable transport infrastructure, with a focus on inland waterways	IA	7	23	± 7,5	19/10/2021
HORIZON-CL5-2021-D6-01-10	Testing safe lightweight vehicles and improved safe human-technology interaction in the future traffic system	RIA	5 - 6	12	3,5 - 4	19/10/2021
HORIZON-CL5-2021-D6-01-11	Radical improvement of road safety in low and medium income countries in Africa	RIA	5 - 6	8	± 4	19/10/2021
HORIZON-CL5-2021-D6-01-12	Controlling infection on large passenger ships	RIA	5	8	3 - 5	19/10/2021
HORIZON-CL5-2021-D6-01-13	Safe automation and human factors in aviation – intelligent integration and assistance	IA	6	12	4 - 8	19/10/2021
HORIZON-CL5-2022-D6-01-01	European demonstrators for integrated shared automated mobility solutions for people and goods (CCAM Partnership)	IA	7	50	20 - 25	12/01/2022



Cluster 5: Climate - Energy - Mobility

Topicnr	Topic naam	Projecttype	TRL bij einde	Budget totaal (€ mln)	Budget per project (€ mln)	Deadline
HORIZON-CL5-2022-D6-01-02	Reliable occupant protection technologies and HMI solutions to ensure the safety of highly automated vehicles (CCAM Partnership)	RIA	5	8	6 - 8	12/01/2022
HORIZON-CL5-2022-D6-01-03	Human behavioural model to assess the performance of CCAM solutions compared to human driven vehicles (CCAM Partnership)	RIA	4	8	7 - 8	12/01/2022
HORIZON-CL5-2022-D6-01-04	Integrate CCAM services in fleet and traffic management systems (CCAM Partnership)	IA	6 - 7	10	4 - 5	12/01/2022
HORIZON-CL5-2022-D6-01-05	Artificial Intelligence (AI): Explainable and trustworthy concepts, techniques and models for CCAM (CCAM Partnership)	RIA	5	12	5 - 6	12/01/2022
HORIZON-CL5-2022-D6-01-06	Predictive safety assessment framework and safer urban environment for vulnerable road users	RIA	5 - 6	13	4 - 4,33	12/01/2022
HORIZON-CL5-2022-D6-01-07	More resilient aircraft and increased survivability	IA	6	9	4 - 8	12/01/2022
HORIZON-CL5-2022-D6-01-08	Safer navigation and tackling containership fires	IA	7	12	3,5 - 6	12/01/2022
HORIZON-CL5-2022-D6-02-01	Logistics networks integration and harmonisation through operational connectivity to optimise freight flows and drive logistics to climate neutrality	IA	6 - 7	15	7 - 8	06/09/2022
HORIZON-CL5-2022-D6-02-02	Urban logistics and planning: anticipating urban freight generation and demand including digitalisation of urban freight	IA	n.v.t.	15	7 - 8	06/09/2022
HORIZON-CL5-2022-D6-02-03	Smart enforcement for resilient, sustainable and more efficient transport operations	RIA	n.v.t.	8	± 4	06/09/2022
HORIZON-CL5-2022-D6-02-04	Accelerating the deployment of new and shared mobility services for the next decade	IA	7 - 8	20	8 - 10	06/09/2022
HORIZON-CL5-2022-D6-02-05	Advanced multimodal network and traffic management for seamless door-to-door mobility of passengers and freight transport	RIA	5 - 6	15	4 - 5	06/09/2022
HORIZON-CL5-2022-D6-02-06	Smart and efficient ways to construct, maintain and decommission with zero emissions from transport infrastructure	IA	7	10	± 5	06/09/2022
HORIZON-CL5-2022-D6-02-07	New concepts and approaches for resilient and green freight transport and logistics networks against disruptive events (including pandemics)	RIA	n.v.t.	8	± 4	06/09/2022



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

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Topicnr	Topic naam	Projecttype	TRL	Budget totaal	Budget per project	Deadline	Deadline 2e stap
Destination – Biodiversity and Ecosystem Services							
Call - Biodiversity and Ecosystem Services							
Understanding biodiversity decline							
HORIZON-CL6-2021-BIODIV-01-01	European participation in global biodiversity genomics endeavours aimed at identifying all biodiversity on Earth	RIA		20	10-20	06/10/2021	
HORIZON-CL6-2021-BIODIV-01-02	Data and technologies for the inventory, fast identification and monitoring of endangered wildlife and other species groups	RIA		10	3-5	06/10/2021	
HORIZON-CL6-2021-BIODIV-01-03	Understanding and valuing coastal and marine biodiversity and ecosystems services	RIA	4-5	16	16	06/10/2021	
HORIZON-CL6-2021-BIODIV-01-04	Assess and predict integrated impacts of cumulative direct and indirect stressors on coastal and marine biodiversity, ecosystems and their services	RIA	4-5	10	10	06/10/2021	
Valuing and restoring biodiversity and ecosystem services							
HORIZON-CL6-2021-BIODIV-01-05	The economics of nature-based solutions: cost-benefit analysis, market development and funding	RIA		5	5	06/10/2021	
HORIZON-CL6-2021-BIODIV-01-06	Nature-based solutions, prevention and reduction of risks and the insurance sector	CSA		4	4	06/10/2021	
HORIZON-CL6-2021-BIODIV-01-07	Ecosystems and their services for an evidence-based policy and decision-making	RIA		13	13	06/10/2021	
HORIZON-CL6-2021-BIODIV-01-08	Supporting the development of a coherent and resilient Trans-European Nature Network	IA		10	10	06/10/2021	



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

Topicnr	Topic naam	Projecttype	TRL	Budget totaal (€ mln)	Budget per project	Deadline	Deadline ze stap
HORIZON-CL6-2021-BIODIV-01-09	Assessing and consolidating recent scientific advances on freshwater ecosystem restoration	CSA		0.5	0.5	06/10/2021	
HORIZON-CL6-2021-BIODIV-01-10	Demonstration of measures and management for coastal and marine ecosystems restoration and resilience in simplified socio-ecological systems	IA	6-7	10	10	06/10/2021	
HORIZON-CL6-2021-BIODIV-01-11	What else is out there? Exploring the connection between biodiversity, ecosystems services, pandemics and epidemic risk	RIA	3-5	12	4-6	06/10/2021	
HORIZON-CL6-2021-BIODIV-01-12	Improved science based maritime spatial planning and identification of marine protected areas	RIA	4-5	7	3-4	06/10/2021	
Managing biodiversity in primary production							
HORIZON-CL6-2021-BIODIV-01-13	Breeding for resilience: focus on root-based traits	RIA		16	8	06/10/2021	
HORIZON-CL6-2021-BIODIV-01-14	Fostering organic crop breeding	IA	6-7	10	5	06/10/2021	
Enabling transformative change on biodiversity							
HORIZON-CL6-2021-BIODIV-01-15	Quantify impacts of the trade in raw and processed biomass on ecosystems, for offering new leverage points for biodiversity conservation, along supply chains, to reduce leakage effects	RIA		10	2-3	06/10/2021	
HORIZON-CL6-2021-BIODIV-01-16	Biodiversity, water, food, energy, transport, climate and health nexus in the context of transformative change	RIA		5	5	06/10/2021	
HORIZON-CL6-2021-BIODIV-01-17	Policy mixes, governance (including financing) and decision-making tools for transformative action for biodiversity	RIA		8	2-3	06/10/2021	
HORIZON-CL6-2021-BIODIV-01-18	Understanding the impacts of and the opportunities offered by digital transformation, new emerging technologies and social innovation on biodiversity	RIA		5	2-3	06/10/2021	
Interconnecting biodiversity research and supporting policies							
HORIZON-CL6-2021-BIODIV-01-19	A mechanism for science to inform implementation, monitoring, review and ratcheting up of the new EU Biodiversity Strategy for 2030 ('Science Service')	CSA		13	11-13	06/10/2021	
HORIZON-CL6-2021-BIODIV-01-20	Support to processes triggered by IPBES and IPCC	CSA		5	5	06/10/2021	
HORIZON-CL6-2021-BIODIV-01-21	Impact and dependence of business on biodiversity	RIA		5	2-3	06/10/2021	



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

Topicnr	Topic naam	Projecttype	TRL	Budget totaal (€ mln)	Budget per project	Deadline	Deadline ze stap
Call - Biodiversity and Ecosystem Services							
HORIZON-CL6-2021-BIODIV-02-01	European partnership rescuing biodiversity to safeguard life on Earth	COFUND		40	40-165	22/07/2021	
Call - Biodiversity and Ecosystem Services							
Understanding biodiversity decline							
HORIZON-CL6-2022-BIODIV-01-01	Observing and mapping biodiversity and ecosystems, with particular focus on coastal and marine ecosystems	RIA	4-5	14	4-14	15/02/2022	
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	IA		6	6	15/02/2022	
Valuing and restoring biodiversity and ecosystem services							
HORIZON-CL6-2022-BIODIV-01-03	Network for nature: multi-stakeholder dialogue platform to promote nature-based solutions	CSA		6	6	15/02/2022	
HORIZON-CL6-2022-BIODIV-01-04	Natural capital accounting: Measuring the biodiversity footprint of products and organizations	IA		10	10	15/02/2022	
Managing biodiversity in primary production							
HORIZON-CL6-2022-BIODIV-01-05	Intercropping – understanding and using the benefits of complexity in farming and value chains	RIA		16	8	15/02/2022	
HORIZON-CL6-2022-BIODIV-01-06	Monitoring and effective measures for agrobiodiversity	RIA		8	8	15/02/2022	
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	RIA		8	8	15/02/2022	
Enabling transformative change on biodiversity							
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	RIA		12	3	15/02/2022	



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

Topicnr	Topic naam	Projecttype	TRL	Budget totaal (€ mln)	Budget per project	Deadline	Deadline ze stap
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	RIA		10	3-4	15/02/2022	
Interconnecting biodiversity research and supporting policies							
HORIZON-CL6-2022-BIODIV-01-10	Cooperation with the Convention on Biological Diversity	CSA		5	5		
Call - Biodiversity and Ecosystem Services							
Managing biodiversity in primary production							
HORIZON-CL6-2022-BIODIV-02-01-two-stage	Maintaining and restoring pollinators and pollination services in European agricultural landscapes	IA		20	6-10	15/02/2022	06/10/2021
HORIZON-CL6-2022-BIODIV-02-02-two-stage	Boosting breeding for a sustainable, resilient and competitive European legume sector	IA	6-7	14	7	15/02/2022	06/10/2021
HORIZON-CL6-2022-BIODIV-02-03-two-stage	Resilient beekeeping	RIA		12	6	15/02/2022	06/10/2021
Destination – Fair, healthy and environment-friendly food systems from primary production to consumption							
Call - Fair, healthy and environmentally-friendly food systems from primary production to consumption							
Enabling sustainable farming							
HORIZON-CL6-2021-FARM2FORK-01-01	Reaching the Farm to Fork target: R&I scenarios for boosting organic farming and organic aquaculture in Europe	RIA		4	4	06/10/2021	
HORIZON-CL6-2021-FARM2FORK-01-02	Developing sustainable and competitive land-based protein crop systems and value chains	IA	5-8	9	9	06/10/2021	
HORIZON-CL6-2021-FARM2FORK-01-03	Digitalisation as an enabler of agroecological farming systems	CSA		2	2	06/10/2021	
HORIZON-CL6-2021-FARM2FORK-01-04	Tackling outbreaks of plant pests	RIA		14	7	06/10/2021	
HORIZON-CL6-2021-FARM2FORK-01-05	Animal welfare 2.0	RIA		8	8	06/10/2021	
HORIZON-CL6-2021-FARM2FORK-01-06	Vaccines and diagnostics for priority animal diseases	IA	6-7	12	6	06/10/2021	



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Topicnr	Topic naam	Projecttype	TRL	Budget totaal (€ mln)	Budget per project	Deadline	Deadline ze stap
HORIZON-CL6-2021-FARM2FORK-01-07	Research & innovation roadmap for blockchain technologies in the agri-food sector	CSA		3	3	06/10/2021	
HORIZON-CL6-2021-FARM2FORK-01-08	Uncovering lock-ins and levers to encourage farmers to move to and stay in sustainable, climate-neutral and biodiversity-friendly farming systems: from experiments to systemic mechanisms	RIA		12	4	06/10/2021	
HORIZON-CL6-2021-FARM2FORK-01-09	Towards an EU approach to assess and internalise positive and negative externalities of food for incentivising sustainable choices	RIA		8	8	06/10/2021	
Enabling sustainable fisheries and aquaculture							
HORIZON-CL6-2021-FARM2FORK-01-10	Sea to Fork transparency and consumer engagement	IA	6-8	10	5	06/10/2021	
HORIZON-CL6-2021-FARM2FORK-01-11	Digital transition supporting inspection and control for sustainable fisheries	IA	6-8	10	5	06/10/2021	
Transforming food systems for health, sustainability and inclusion							
HORIZON-CL6-2021-FARM2FORK-01-12	Filling knowledge gaps on nutritional, safety, allergenicity and environmental assessment of alternative proteins and dietary shift	RIA		11	11	06/10/2021	
HORIZON-CL6-2021-FARM2FORK-01-13	Evidence-based decision-making to change social norms towards zero food waste	RIA		12	6-7	06/10/2021	
HORIZON-CL6-2021-FARM2FORK-01-14	Microbes for healthy and sustainable food and diets	RIA		12	12	06/10/2021	
HORIZON-CL6-2021-FARM2FORK-01-15	Transition to healthy and sustainable dietary behaviour	RIA		12	12	06/10/2021	
HORIZON-CL6-2021-FARM2FORK-01-16	Identification, assessment and management of existing and emerging food safety issues	RIA		12	6	06/10/2021	
HORIZON-CL6-2021-FARM2FORK-01-17	Increasing the transparency of EU food systems to boost health, sustainability and safety of products, processes and diets	IA	6-7	11	11	06/10/2021	
Targeted international cooperation							
HORIZON-CL6-2021-FARM2FORK-01-18	One health approach for Food Nutrition Security and Sustainable Agriculture (FNSSA)	RIA	5	18	6	06/10/2021	
HORIZON-CL6-2021-FARM2FORK-01-19	EU-China international cooperation on integrated pest management in agriculture	RIA		6	6	06/10/2021	



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Topicnr	Topic naam	Projecttype	TRL	Budget totaal (€ mln)	Budget per project	Deadline	Deadline ze stap
Call - Fair, healthy and environmentally-friendly food systems from primary production to consumption							
Enabling sustainable farming							
HORIZON-CL6-2022-FARM2FORK-01-01	Risk assessment of new low risk pesticides	RIA		7	7	15/02/2022	
HORIZON-CL6-2022-FARM2FORK-01-02	Socio-economics of pesticide use in agriculture	RIA		6	6	15/02/2022	
HORIZON-CL6-2022-FARM2FORK-01-03	Enhancing biosecurity in terrestrial livestock production	RIA		10	5	15/02/2022	
HORIZON-CL6-2022-FARM2FORK-01-04	Innovative solutions to prevent adulteration of food bearing quality labels: focus on organic food and geographical indications	IA	6-8	8	4	15/02/2022	
Enabling sustainable fisheries and aquaculture							
HORIZON-CL6-2022-FARM2FORK-01-05	Integrated and sustainable freshwater bioeconomy: Combining aquaculture, biodiversity preservation, biotechnology and other uses	RIA	3-6	10	5	15/02/2022	
HORIZON-CL6-2022-FARM2FORK-01-06	Biosecurity, hygiene, disease prevention and animal welfare in aquaculture	RIA	3-5	12	6	15/02/2022	
Transforming food systems for health, sustainability and inclusion							
HORIZON-CL6-2022-FARM2FORK-01-07	Building alternative protein-friendly sustainable and healthy food environments	IA	6-7	12	12	15/02/2022	
HORIZON-CL6-2022-FARM2FORK-01-08	Research and innovation for food loss and waste prevention and reduction through harmonised measurement and monitoring	RIA	6	14	7	15/02/2022	
HORIZON-CL6-2022-FARM2FORK-01-09	Microbiomes in food production systems	RIA		10	5	15/02/2022	
HORIZON-CL6-2022-FARM2FORK-01-10	Integrated surveillance system to prevent and reduce diet-related Non Communicable Diseases (NCDs)	RIA		11	11	15/02/2022	
HORIZON-CL6-2022-FARM2FORK-01-11	Effective systems for authenticity and traceability in the food system	RIA	7	10	10	15/02/2022	
Targeted international cooperation							
HORIZON-CL6-2022-FARM2FORK-01-12	Agro-ecological approaches in African agriculture systems	RIA	5	28	7	15-2-2022	
HORIZON-CL6-2022-FARM2FORK-01-13	AU-EU Combatting all forms of malnutrition	RIA		11	11	15-2-2022	
HORIZON-CL6-2022-FARM2FORK-01-14	African food cities	RIA		12	6	15-2-2022	
HORIZON-CL6-2022-FARM2FORK-01-15	Support for international research on infectious animal diseases	CSA		3	3	15-2-2022	



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Topicnr	Topic naam	Projecttype	TRL	Budget totaal (€ mln)	Budget per project	Deadline	Deadline ze stap
Call - Fair, healthy and environmentally-friendly food systems from primary production to consumption							
Enabling sustainable farming							
HORIZON-CL6-2022-FARM2FORK-02-01-two-stage	Agroecological approaches for sustainable weed management	RIA		14.5	5	15/02/2022	06/09/2022
HORIZON-CL6-2022-FARM2FORK-02-02-two-stage	Emerging and future risks to plant health	RIA		7	7	15/02/2022	06/09/2022
HORIZON-CL6-2022-FARM2FORK-02-03-two-stage	Ecology of infectious animal diseases	RIA		12	6	15/02/2022	06/09/2022
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	IA	6-7	15	5	15/02/2022	06/09/2022
Enabling sustainable fisheries and aquaculture							
HORIZON-CL6-2022-FARM2FORK-02-05-two-stage	Innovative food from marine and freshwater ecosystems	IA	6-7	18	6	15/02/2022	06/09/2022
Destination – Circular economy and bioeconomy sectors							
Call - Circular economy and bioeconomy sectors							
Enabling a circular economy transition							
HORIZON-CL6-2021-CircBio-01-01	Circular Cities and Regions Initiative (CCRI)'s circular systemic solutions	IA	6-8	21.5	5-10	06/10/2021	
HORIZON-CL6-2021-CircBio-01-02	Circular Cities and Regions Initiative's Project Development Assistance (CCRI-PDA)	CSA		10	0.4-2	06/10/2021	
HORIZON-CL6-2021-CircBio-01-03	Innovative solutions to over-packaging and single-use plastics, and related microplastic pollution	IA	6-8	18	5-7	06/10/2021	
HORIZON-CL6-2021-CircBio-01-04	Increasing the circularity in textiles, plastics and/or electronics value chains	IA	6-8	22	6-8	06/10/2021	
Innovating sustainable bio-based systems and the bioeconomy							
HORIZON-CL6-2021-CircBio-01-05	Novel, non-plant biomass feedstocks for industrial applications	IA	7	12	6	06/10/2021	



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Topicnr	Topic naam	Projecttype	TRL	Budget totaal (€ mln)	Budget per project	Deadline	Deadline ze stap
HORIZON-CL6-2021-CircBio-01-06	Contained biomass solutions for sustainable and zero-Indirect Land Use Change (ILUC) production systems for high value applications	IA	7	10	5	06/10/2021	
HORIZON-CL6-2021-CircBio-01-07	Microbiomes for bio-based innovation and environmental applications	IA	6-7	6	6	06/10/2021	
HORIZON-CL6-2021-CircBio-01-08	Mainstreaming inclusive small-scale bio-based solutions in European rural areas	CSA		9	3	06/10/2021	
Innovating for blue bioeconomy and biotechnology value chains							
HORIZON-CL6-2021-CircBio-01-09	Unlocking the potential of algae potential for a thriving European blue bioeconomy	IA	7	18	9	06/10/2021	
Call - Circular economy and bioeconomy sectors							
Enabling a circular economy transition							
HORIZON-CL6-2022-CircBio-01-01	Circular Cities and Regions Initiative's Project Development Assistance (CCRI-PDA)	CSA		10	0.4-2	15/02/2022	
Innovating sustainable bio-based systems and the bioeconomy							
HORIZON-CL6-2022-CircBio-01-02	Marginal lands and climate-resilient and biodiversity-friendly crops for sustainable industrial feedstocks and related value chains	IA	7	14	7	15/02/2022	
HORIZON-CL6-2022-CircBio-01-03	Benefits of the transition towards sustainable circular bio-based systems from linear fossil-based	CSA		4	2	15/02/2022	
HORIZON-CL6-2022-CircBio-01-04	Maximizing economic, environmental and social synergies in the provision of feedstock for bio-based sectors through diversification and increased sustainability of agricultural production systems	IA	6-7	8	8	15/02/2022	
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	RIA		8	8	15/02/2022	
Safeguarding the multiple functions of EU forests							
HORIZON-CL6-2022-CircBio-01-06	Strengthening the European forest-based research and innovation ecosystem	RIA		4	4	15/02/2022	



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Topicnr	Topic naam	Projecttype	TRL	Budget totaal (€ mln)	Budget per project	Deadline	Deadline ze stap
Innovating for blue bioeconomy and biotechnology value chains							
HORIZON-CL6-2022-CircBio-01-07	Marine microbiome for healthy oceans and a sustainable blue bioeconomy	RIA	3-5	18	9	15/02/2022	
Call - Circular economy and bioeconomy sectors							
Enabling a circular economy transition							
HORIZON-CL6-2022-CircBio-02-01-two-stage	Integrated solutions for circularity in buildings and the construction sector	IA	6-8	21	6-8	15/02/2022	06/10/2021
Innovating sustainable bio-based systems and the bioeconomy							
HORIZON-CL6-2022-CircBio-02-02-two-stage	Exploring extreme environments: novel adaptation strategies at molecular level for bio-based innovation	RIA	4-5	10	5	15/02/2022	06/10/2021
HORIZON-CL6-2022-CircBio-02-03-two-stage	Sustainable biodegradable novel bio-based plastics: innovation for sustainability and end-of-life options of plastics	IA	7-8	12	6	15/02/2022	06/10/2021
HORIZON-CL6-2022-CircBio-02-04-two-stage	Photosynthesis revisited: climate emergency, "no pollution and zero-emission" challenge and industrial application	RIA	4-5	6	6	15/02/2022	06/10/2021
HORIZON-CL6-2022-CircBio-02-05-two-stage	Life sciences and their convergence with digital technologies for prospecting, understanding and sustainably using biological resources	RIA	4-5	12	6	15/02/2022	06/10/2021
Safeguarding the multiple functions of EU forests							
HORIZON-CL6-2022-CircBio-02-06-two-stage	Harnessing the digital revolution in the forest-based sector	IA	6-7	15	6-8	15/02/2022	06/10/2021
Destination – Clean environment and zero pollution							
Call - Clean environment and zero pollution							
Halting emissions of pollutants to soils and waters							
HORIZON-CL6-2021-ZEROPOLLUTI-ON-01-01	Regional nitrogen and phosphorus load reduction approach within safe ecological boundaries	CSA		6	2	06/10/2021	



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Topicnr	Topic naam	Projecttype	TRL	Budget totaal (€ mln)	Budget per project	Deadline	Deadline ze stap
HORIZON-CL6-2021-ZEROPOLLUTION-01-02	Optimisation of nutrient budget in agriculture	RIA	5	7	7	06/10/2021	
Protecting drinking water and managing urban water pollution							
HORIZON-CL6-2021-ZEROPOLLUTION-01-03	Preventing and managing diffuse pollution in urban water runoff	RIA	5	10	2-4	06/10/2021	
Addressing pollution on seas and oceans							
HORIZON-CL6-2021-ZEROPOLLUTION-01-04	Achieving zero polluted seas and oceans	CSA		3	3	06/10/2021	
Increasing environmental performances and sustainability of processes and products							
HORIZON-CL6-2021-ZEROPOLLUTION-01-05	Environmental sustainability criteria for biological resources production and trade in bio-based systems: impacts and trade-offs	IA	7-8	6	6	06/10/2021	
HORIZON-CL6-2021-ZEROPOLLUTION-01-06	Increasing the environmental performance of industrial processes in bio-based sectors: construction, woodworking, textiles, pulp and paper and bio-chemicals	RIA	5	7	3.5	06/10/2021	
HORIZON-CL6-2021-ZEROPOLLUTION-01-07	International and EU sustainability certification schemes for bio-based systems	CSA		6	2	06/10/2021	
HORIZON-CL6-2021-ZEROPOLLUTION-01-08	New genomic techniques (NGT): understanding benefits and risks – focus on bio-based innovation	RIA	4-5	5	5	06/10/2021	
HORIZON-CL6-2021-ZEROPOLLUTION-01-09	Environmental impacts and trade-offs of alternative fertilising products at global/local scale	CSA		4	2	06/10/2021	
HORIZON-CL6-2021-ZEROPOLLUTION-01-10	Environmental services: improved bioremediation and revitalization strategies for soil, sediments and water	RIA	4-5	11	5.5	06/10/2021	
Call - Clean environment and zero pollution							
Halting emissions of pollutants to soils and waters							
HORIZON-CL6-2022-ZEROPOLLUTION-01-01	Preventing groundwater contamination and protecting its quality against harmful impacts of global and climate change	RIA	5	12	2-4	15/02/2022	



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Topicnr	Topic naam	Projecttype	TRL	Budget totaal (€ mln)	Budget per project	Deadline	Deadline ze stap
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	IA	7-8	12	6	15/02/2022	
HORIZON-CL6-2022-ZEROPOLLUTION-01-03	EU-China international cooperation on nature-based solutions for nutrient management in agriculture	IA	7	12	6	15/02/2022	
Protecting drinking water and managing urban water pollution							
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	RIA	5	15	2-4	15/02/2022	
Destination – Land, oceans and water for climate action							
Call - Land, oceans and water for climate action							
HORIZON-CL6-2021-CLIMATE-01-01	Improved understanding, observation and monitoring of water resources availability	RIA	5	10	3-5	06/10/2021	
HORIZON-CL6-2021-CLIMATE-01-02	European Partnership Water Security for the Planet (Water4All)	COFUND		20	20-126	06/10/2021	
HORIZON-CL6-2021-CLIMATE-01-03	Key oceanic and polar processes driving regional & global climate change	RIA	3-5	15	7-8	06/10/2021	
HORIZON-CL6-2021-CLIMATE-01-04	Demonstration network on climate-smart farming – linking pilot farms	CSA		23	23	06/10/2021	
HORIZON-CL6-2021-CLIMATE-01-05	Agroecological approaches for climate change mitigation, resilient agricultural production and enhanced biodiversity	RIA		7	7	06/10/2021	
HORIZON-CL6-2021-CLIMATE-01-06	Resilient livestock farming systems under climate change	RIA		12	12	06/10/2021	
HORIZON-CL6-2021-CLIMATE-01-07	International Research Consortium on (agricultural) soil carbon	CSA		3	3	06/10/2021	
HORIZON-CL6-2021-CLIMATE-01-08	Agroforestry to meet climate, biodiversity and farming sustainability goals	RIA		8	4	06/10/2021	
HORIZON-CL6-2021-CLIMATE-01-09	Enhancing science-based knowledge on EU forests', including old-growth forests, capacities to mitigate climate change	RIA		10	5	06/10/2021	
HORIZON-CL6-2021-CLIMATE-01-10	EU-China international cooperation on increasing the resilience of forests	RIA		10	10	06/10/2021	



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Topicnr	Topic naam	Projecttype	TRL	Budget totaal (€ mln)	Budget per project	Deadline	Deadline 2e stap
Call - Land, oceans and water for climate action							
HORIZON-CL6-2022-CLIMATE-01-01	Climate sensitive water allocation systems and economic instruments.	IA	6-8	10	4-5	15/02/2022	
HORIZON-CL6-2022-CLIMATE-01-02	Understanding the oceanic carbon cycle	RIA	3-5	15	15	15/02/2022	
HORIZON-CL6-2022-CLIMATE-01-03	Demonstration network on climate-smart farming – boosting the role of advisory services	CSA		20	20	15/02/2022	
HORIZON-CL6-2022-CLIMATE-01-04	Fostering the resilience of agricultural production: from observation of changes to the development of resilience strategies	RIA		15	15	15/02/2022	
HORIZON-CL6-2022-CLIMATE-01-05	Forestry - European observatory of climate change impacts and demonstration network of climate smart restoration pilots	RIA		15	15	15/02/2022	
Destination – Resilient, inclusive, healthy and green rural, coastal and urban communities							
Call - Resilient, inclusive, healthy and green rural, coastal and urban communitie							
HORIZON-CL6-2021-COMMUNITIES-01-01	Grasping rural diversity and strengthening evidence for tailored policies enhancing the contribution of rural communities to ecological, digital and social transitions	RIA		15	7-7.5	06/10/2021	
HORIZON-CL6-2021-COMMUNITIES-01-02	Expertise and training centre on rural innovation	CSA		5	5	06/10/2021	
HORIZON-CL6-2021-COMMUNITIES-01-03	Smart XG, last-mile and edge solutions for remote farming, forestry and rural areas	RIA	4-5	10	5	06/10/2021	
HORIZON-CL6-2021-COMMUNITIES-01-04	Socio-economic empowerment of the users of the sea	RIA		6	6	06/10/2021	
HORIZON-CL6-2021-COMMUNITIES-01-05	Integrated urban food system policies – how cities and towns can transform food systems for co-benefits	IA		12	12	06/10/2021	
HORIZON-CL6-2021-COMMUNITIES-01-06	Inside and outside: educational innovation with nature-based solutions	CSA		5	5	06/10/2021	
Call - Resilient, inclusive, healthy and green rural, coastal and urban communities							
HORIZON-CL6-2022-COMMUNITIES-01-01	Boosting women-led innovation in farming and rural areas	RIA		6	3	15-02-2022	
HORIZON-CL6-2022-COMMUNITIES-01-02	Assessing and improving labour conditions and health and safety at work in farming	RIA		5	5	15/02/2022	



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Topicnr	Topic naam	Projecttype	TRL	Budget totaal (€ mln)	Budget per project	Deadline	Deadline ze stap
HORIZON-CL6-2022-COMMUNITIES-01-03	Integration of marine ecosystem service valuation, conservation and restoration in socio-economic models	IA		9	9	15/02/2022	
HORIZON-CL6-2022-COMMUNITIES-01-04	Social innovation in food sharing to strengthen urban communities' food resilience	IA		10	10	15/02/2022	
HORIZON-CL6-2022-COMMUNITIES-01-05	Assessing the socio-politics of nature-based solutions for more inclusive and resilient communities	RIA		12	6	15/02/2022	
Call - Resilient, inclusive, healthy and green rural, coastal and urban communities							
HORIZON-CL6-2022-COMMUNITIES-02-01-two-stage	Smart solutions for smart rural communities: empowering rural communities and smart villages to innovate for societal change	IA	6-7	14	7	15/02/2022	06/09/2022
HORIZON-CL6-2022-COMMUNITIES-02-02-two-stage	Developing nature-based therapy for health and well-being	RIA		19	6	15/02/2022	06/09/2022
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							
Innovating with governance models and supporting policies							
HORIZON-CL6-2021-GOVERNANCE-01-01	Mobilising the network of National Contact Points in Cluster 6	CSA		3.5	3.5	06/10/2021	
HORIZON-CL6-2021-GOVERNANCE-01-02	Furthering food systems science and federating researchers across the European Research Area	RIA		17	6	06/10/2021	
HORIZON-CL6-2021-GOVERNANCE-01-03	Preparatory action for the Horizon Europe Food System Partnership	CSA		5	5	06/10/2021	
HORIZON-CL6-2021-GOVERNANCE-01-04	Strengthening bioeconomy innovation and deployment across sectors and all governance levels	CSA		4	4	06/10/2021	
HORIZON-CL6-2021-GOVERNANCE-01-05	Fostering strategic advice and synergies between national and EU research and innovation agendas, including SCAR foresight	CSA		4	4	06/10/2021	
HORIZON-CL6-2021-GOVERNANCE-01-06	Environmental and social cross-compliance of marine policies	RIA		8	2-3	06/10/2021	
HORIZON-CL6-2021-GOVERNANCE-01-07	Regional governance models in the bioeconomy	CSA		5	2.5	06/10/2021	



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Topicnr	Topic naam	Projecttype	TRL	Budget totaal (€ mln)	Budget per project	Deadline	Deadline ze stap
HORIZON-CL6-2021-GOVERNANCE-01-08	Improving understanding of and engagement in bio-based systems with training and skills development	CSA		5	2.5	06/10/2021	
HORIZON-CL6-2021-GOVERNANCE-01-09	Revitalisation of European local communities with innovative bio-based business models and social innovation	CSA		5	2.5	06/10/2021	
HORIZON-CL6-2021-GOVERNANCE-01-10	Raising awareness of circular and sustainable bioeconomy in support of Member States to develop bioeconomy strategies and/or action plans	CSA		4	4	06/10/2021	
HORIZON-CL6-2021-GOVERNANCE-01-11	Education on the bioeconomy including bio-based sectors for young people in primary and secondary education in Europe	CSA		2	2	06/10/2021	
HORIZON-CL6-2021-GOVERNANCE-01-12	EU agriculture within a safe and just operating space and planetary boundaries	RIA		10	10	06/10/2021	
HORIZON-CL6-2021-GOVERNANCE-01-13	Modelling land use and land management in the context of climate change	RIA		10	5	06/10/2021	
Deploying and adding value to Environmental Observations							
HORIZON-CL6-2021-GOVERNANCE-01-14	User-oriented solutions building on environmental observation to monitor critical ecosystems and biodiversity loss and vulnerability in the European Union	RIA		20	3-5	06/10/2021	
HORIZON-CL6-2021-GOVERNANCE-01-15	Preparing for pre-commercial procurement (PCP) for end-user services based on environmental observation in the area climate change adaptation and mitigation	CSA		2	2	06/10/2021	
HORIZON-CL6-2021-GOVERNANCE-01-16	Tools to support the uptake and accessibility/exploitability of environmental observation information at European and global level	IA	6-8	13	13	06/10/2021	
HORIZON-CL6-2021-GOVERNANCE-01-17	Common European Green Deal data space to provide more accessible and exploitable environmental observation data in support of the European Green Deal priority actions	IA	6-8	10	3-5	06/10/2021	
Digital and data technologies as key enablers							
HORIZON-CL6-2021-GOVERNANCE-01-18	Mapping and improving the data economy for food systems	RIA		10	10	06/10/2021	
HORIZON-CL6-2021-GOVERNANCE-01-19	Development of the markets and use of digital technologies and infrastructure in agriculture – state of play and foresight: Digital- and data technologies for the agricultural sector in a fast changing regulatory, trade and technical environment	RIA		4	2-4	06/10/2021	
HORIZON-CL6-2021-GOVERNANCE-01-20	Data economy in the field of agriculture – effects of data sharing and big data	RIA		4	2-4	06/10/2021	
HORIZON-CL6-2021-GOVERNANCE-01-21	Potential of drones as multi-purpose vehicle – risks and added values	RIA	4-5	12	6	06/10/2021	



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

Topicnr	Topic naam	Projecttype	TRL	Budget totaal (€ mln)	Budget per project	Deadline	Deadline ze stap
HORIZON-CL6-2021-GOVERNANCE-01-22	Assessing the impacts of digital technologies in agriculture – cost, benefits and potential for sustainability gains	RIA		15	7.5	06/10/2021	
Strengthening agricultural knowledge and innovation systems							
HORIZON-CL6-2021-GOVERNANCE-01-23	Broaden EIP Operational Group outcomes across borders by means of thematic networks, compiling and sharing knowledge ready for practice	CSA		4	2	06/10/2021	
HORIZON-CL6-2021-GOVERNANCE-01-24	Supporting knowledge exchange between all AKIS actors in the Member States by means of an EU-wide interactive knowledge reservoir	RIA		15	15	06/10/2021	
HORIZON-CL6-2021-GOVERNANCE-01-25	Improving national AKIS organisation in a co-creative process across the EU	CSA		10	10	06/10/2021	
HORIZON-CL6-2021-GOVERNANCE-01-26	Deepening the functioning of innovation support	CSA		5	5	06/10/2021	
HORIZON-CL6-2021-GOVERNANCE-01-27	Developing EU advisory networks on consumer-producer chains	CSA		8	4	06/10/2021	
HORIZON-CL6-2021-GOVERNANCE-01-28	Thematic networks to compile and share knowledge ready for practice	CSA		8.5	3	06/10/2021	
Call - Innovative governance, environmental observations and digital solutions in support of the Green Deal							
Innovating with governance models and supporting policies							
HORIZON-CL6-2022-GOVERNANCE-01-01	Mobilisation of society to transform food systems for co-benefits	CSA		8	8	15/02/2022	
HORIZON-CL6-2022-GOVERNANCE-01-02	European Partnership for a climate neutral, sustainable and productive Blue Economy	COFUND		23	23-150	15/02/2022	
HORIZON-CL6-2022-GOVERNANCE-01-03	Multi-layer governance performance of marine policies	RIA		6	6	15/02/2022	
HORIZON-CL6-2022-GOVERNANCE-01-04	Consumer-focused labelling options for bio-based products	CSA		3	3	15/02/2022	
HORIZON-CL6-2022-GOVERNANCE-01-05	Innovative tools and methods to evaluate the design and support, monitoring and implementation of effective CAP strategic plans	CSA		4	4	15/02/2022	
HORIZON-CL6-2022-GOVERNANCE-01-06	Water governance, economic and financial sustainability of water systems	RIA	5	10	3	15/02/2022	
Deploying and adding value to Environmental Observations							
HORIZON-CL6-2022-GOVERNANCE-01-07	New technologies for acquiring in-situ observation datasets to address climate change effects	IA	6-8	20	3	15/02/2022	



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

Topicnr	Topic naam	Projecttype	TRL	Budget totaal (€ mln)	Budget per project	Deadline	Deadline ze stap
HORIZON-CL6-2022-GOVERNANCE-01-08	Uptake and validation of citizen observations to complement authoritative measurement within the urban environment and boost related citizen engagement	IA	6-8	14	3-5	15/02/2022	
HORIZON-CL6-2022-GOVERNANCE-01-09	Environmental observations solutions contributing to meeting “One Health” challenges	RIA		10	5	15/02/2022	
Digital and data technologies as key enablers							
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	RIA	4-6	8	4	15/02/2022	
HORIZON-CL6-2022-GOVERNANCE-01-11	Upscaling (real-time) sensor data for EU-wide monitoring of production and agri-environmental conditions	RIA	4-5	15	5-7.5	15/02/2022	
Strengthening agricultural knowledge and innovation systems							
HORIZON-CL6-2022-GOVERNANCE-01-12	Thematic networks to compile and share knowledge ready for practice	CSA		9	3	15/02/2022	
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	CSA		4	2	15/02/2022	
HORIZON-CL6-2022-GOVERNANCE-01-14	Improving preparation of multi-actor projects to enable the relevant actors to work in a co-creative way	CSA		5	5	15/02/2022	
HORIZON-CL6-2022-GOVERNANCE-01-15	Developing EU advisory networks on water use	CSA		8	4	15/02/2022	

