

# Cluster 4: Digital - Industry - Space

## Contact

Ruben Wassink [ruben.wassink@rvo.nl](mailto:ruben.wassink@rvo.nl)  
 Okke Scholten [okke.scholten@rvo.nl](mailto:okke.scholten@rvo.nl)  
 Stijn Greben [stijn.greben@rvo.nl](mailto:stijn.greben@rvo.nl)  
 Eddy Schippers [eddy.schippers@rvo.nl](mailto:eddy.schippers@rvo.nl)  
[www.rvo.nl/subsidies-financiering/horizon-europe/cluster-4](http://www.rvo.nl/subsidies-financiering/horizon-europe/cluster-4)

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Topicnr	Topic naam	Projecttype	TRL bij start	TRL bij einde	Budget totaal (M)	Budget per project (M)	Deadline
<b>Section: World leading data and computing technologies</b>							
HORIZON-CL4-2023-DATA-01-02	Integration of data life cycle, architectures and standards for complex data cycles and/or human factors, language	RIA	2-3	4-5	45	9	29/03/2023
HORIZON-CL4-2023-DATA-01-04	Cognitive Computing Continuum: Intelligence and automation for more efficient data processing	RIA	2	5	28	4-6	29/03/2023
HORIZON-CL4-2023-DATA-01-06	Coordination and Support of Cognitive Computing Continuum research and policy	CSA			2	2	29/03/2023
HORIZON-CL4-2023-DATA-01-07	Collaboration with NSF on fundamental research on new concepts for distributed computing and swarm intelligence	CSA			1	1	19/03/2024
HORIZON-CL4-2024-DATA-01-01	AI-driven data operations and compliance technologies	IA	4-5	6-7	38	8-10	19/03/2024
HORIZON-CL4-2024-DATA-01-03	Piloting emerging Smart IoT Platforms and decentralized intelligence	IA	3-4	6-7	45	20-25	19/03/2024
HORIZON-CL4-2024-DATA-01-05	Platform Building, standardisation and Up-scaling of the 'Cloud-Edge-IoT' Solutions	CSA			2	2	19/03/2024
<b>Section: Digital and emerging technologies for competitiveness and fit for the Green Deal</b>							
HORIZON-CL4-2023-DIGITAL-EMERGING-01-01	Novel paradigms and approaches, towards AI-driven autonomous robots	RIA	2-3	4-5	30	8	29/03/2023
HORIZON-CL4-2023-DIGITAL-EMERGING-01-12	Adaptive multi-scale modelling and characterisation suites from lab to production	RIA	3	5	22	5-7	29/03/2023
HORIZON-CL4-2023-DIGITAL-EMERGING-01-51	Pervasive photonics - multi-technology integration for digital infrastructure, sensors and internet of things	RIA	2	5	18	3-5	29/03/2023
HORIZON-CL4-2023-DIGITAL-EMERGING-01-53	Versatile light sources and systems as tools for manufacturing and medical application	RIA	2	5	18	3-5	29/03/2023



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HORIZON-CL4-2023-DIGITAL-EMERGING-01-57	Advanced imaging and sensing technologies	IA	3	6-7	20	5-7	29/03/2023
HORIZON-CL4-2023-DIGITAL-EMERGING-01-02	Industrial leadership in AI, Data and Robotics – advanced human robot interaction	IA	3-5	6-7	30	10	29/03/2023
HORIZON-CL4-2023-DIGITAL-EMERGING-01-11	Low TRL research in micro-electronics and integration technologies for industrial solutions	RIA	1-2	3-4	35	3-4	29/03/2023
HORIZON-CL4-2023-DIGITAL-EMERGING-01-32	Sustainable safe-by-design 2D materials technology	RIA	2-3	4-5	6	3-5	29/03/2023
HORIZON-CL4-2023-DIGITAL-EMERGING-01-33	2D materials of tomorrow	RIA	2	4	12	3-4	29/03/2023
HORIZON-CL4-2023-DIGITAL-EMERGING-01-40	Quantum Photonic Integrated Circuit technologies	RIA	2-3	4-5	12	4-6	29/03/2023
HORIZON-CL4-2023-DIGITAL-EMERGING-01-41	Investing in alternative quantum computation and simulation platform technologies	RIA	3-4	5-6	20	7-12	29/03/2023
HORIZON-CL4-2023-DIGITAL-EMERGING-01-43	Framework Partnership Agreement for developing large-scale quantum Computing platform technologies	FPA	4-5	6-7			29/03/2023
HORIZON-CL4-2023-DIGITAL-EMERGING-01-50	Next generation quantum sensing and metrology technologies	RIA	2-3	4-5	10	2-3	29/03/2023
HORIZON-CL4-2023-DIGITAL-EMERGING-01-56	Photonic Strategies and Skills Development	CSA			4	1-3	29/03/2023
HORIZON-CL4-2024-DIGITAL-EMERGING-01-03	Novel paradigms and approaches, towards AI-powered robots– step change in functionality	RIA	2-3	4-5	30	8	19/03/2024
HORIZON-CL4-2024-DIGITAL-EMERGING-01-04	Industrial leadership in AI, Data and Robotics boosting competitiveness and the green transition	IA	3-5	6-7	60	10	19/03/2024
HORIZON-CL4-2024-DIGITAL-EMERGING-01-22	Fundamentals of Software Engineering	RIA	2	5	13.5	4-6	19/03/2024
HORIZON-CL4-2024-DIGITAL-EMERGING-01-54	Smart photonics for joint communication & sensing and access everywhere	RIA	2	5	18	3-5	19/03/2024
HORIZON-CL4-2024-DIGITAL-EMERGING-01-55	Photonics Innovation Factory for Europe	IA	2-5	4-7	15	15	19/03/2024
HORIZON-CL4-2024-DIGITAL-EMERGING-01-21	Open Source for Cloud/Edge to support European Digital Autonomy	RIA	4	6	20	4-6	19/03/2024
HORIZON-CL4-2024-DIGITAL-EMERGING-01-23	Public recognition scheme for Open Source	CSA			2	2	19/03/2024
HORIZON-CL4-2024-DIGITAL-EMERGING-01-31	Pilot line(s) for 2D materials-based devices	RIA	3-4	5-6	33	33	19/03/2024
HORIZON-CL4-2024-DIGITAL-EMERGING-01-34	Synergy with national and regional initiatives in Europe	CSA			3	3	19/03/2024
HORIZON-CL4-2024-DIGITAL-EMERGING-01-42	Stimulating transnational research and development of next generation quantum technologies, including basic theories and components	RIA	1-4	6	15	15	19/03/2024
HORIZON-CL4-2024-DIGITAL-EMERGING-01-45	Quantum sensing and metrology for market uptake	IA	4-5	6-7	15	4-6	19/03/2024



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<b>Section: A human-centred and ethical development of digital and industrial technologies</b>							
HORIZON-CL4-2023-HUMAN-01-31	Toolbox for efficient IP licensing for market uptake and societal value creation	CSA			2	2	29/03/2023
HORIZON-CL4-2023-HUMAN-01-32	Piloting communities of expert facilitators to improve industry-academia-public sector co-creation	CSA			2	2	29/03/2023
HORIZON-CL4-2023-HUMAN-01-33	Fostering knowledge valorisation through societal and cultural interactions	CSA			5	1	29/03/2023
HORIZON-CL4-2023-HUMAN-01-51	Pilots for an innovative human-centric industry	RIA			10	10	29/03/2023
HORIZON-CL4-2023-HUMAN-01-52	Drivers and success factors for progress towards Industry 5.0	RIA			4	4	29/03/2023
HORIZON-CL4-2023-HUMAN-01-53	Localised and Urban Manufacturing, supporting creativity and the New European Bauhaus	RIA	5	6	10	1.5-2.5	29/03/2023
HORIZON-CL4-2023-HUMAN-01-54	Green and digital skills and training needs for a just transition	CSA			2.5	0.5	29/03/2023
HORIZON-CL4-2023-HUMAN-01-62	Boosting industrial symbiosis by standardisation	CSA			2	2	29/03/2023
HORIZON-CL4-2023-HUMAN-01-63	Provide for a strong and sustainable pool of experts for European Standardisation: attract the students of university/HEI	CSA			3	2.5-3	29/03/2023
HORIZON-CL4-2023-HUMAN-01-64	Pre-normative research and standardisation in industrial ecosystems	CSA			8	0.5-1	29/03/2023
HORIZON-CL4-2023-HUMAN-01-91	International Hub for Digital Partnerships in the Indo-Pacific	CSA			2.5	2.5	29/03/2023
HORIZON-CL4-2023-HUMAN-01-92	R&I cooperation with Sub-Saharan Africa	CSA			2	2	29/03/2023
HORIZON-CL4-2023-HUMAN-01-93	R&I cooperation with Latin America (Mexico, Brazil, Argentina, and other countries in the BELLA network or members of RedClara)	CSA			2	2	29/03/2023
HORIZON-CL4-2023-HUMAN-01-01	Efficient trustworthy AI - making the best of data	RIA	2-3	4-5	35	7-9	29/03/2023
HORIZON-CL4-2023-HUMAN-01-02	Large Scale pilots on trustworthy AI data and robotics addressing key societal challenges	IA	3-5	6-7	24	8	29/03/2023
HORIZON-CL4-2023-HUMAN-01-03	Natural Language Understanding and Interaction in Advanced Language Technologies	RIA	2	5	20	6-8	29/03/2023
HORIZON-CL4-2023-HUMAN-01-04	Open innovation: Addressing Grand challenges in AI	CSA	2-3	4-5	4	4	29/03/2023
HORIZON-CL4-2023-HUMAN-01-05	Through AI from Disinformation to Trust	IA	4-5	6-7	10	5	29/03/2023
HORIZON-CL4-2023-HUMAN-01-11	Next Generation Internet Fund	RIA			27	27	29/03/2023
HORIZON-CL4-2023-HUMAN-01-12	Pilots for the Next Generation Internet	IA			14	3-5	29/03/2023



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HORIZON-CL4-2023-HUMAN-01-13	Next Generation Internet International Collaboration - USA	RIA			4	4	29/03/2023
HORIZON-CL4-2023-HUMAN-01-14	Next Generation Internet Commons Policy	CSA			2	2	29/03/2023
HORIZON-CL4-2023-HUMAN-01-21	Next Generation eXtended Reality	RIA	2	5	26	5-8	29/03/2023
HORIZON-CL4-2024-HUMAN-01-06	Explainable and Robust AI	RIA	2-3	4-5	30	9-10	19/03/2024
HORIZON-CL4-2024-HUMAN-01-07	Collaborative intelligence – combining the best of machine and human	RIA	2-3	4-5	20	5	19/03/2024
HORIZON-CL4-2024-HUMAN-01-34	Support for transnational activities of National Contact Points in the thematic areas of Digital, Industry and Space	CSA			5	1.5-5	19/03/2024
HORIZON-CL4-2024-HUMAN-01-61	Facilitate the engagement in global ICT standardisation development	CSA			6	6	19/03/2024



# Partnerschappen Cluster 4: Digital

## ADRA



### Doel

Acceptatie en innovatie op de gebieden van AI, data en robotica.

### Start 2021

### EU Budget

Zie funding en tender portal (zoek op 'AI, Data and Robotics Partnership')

### NL Budget

n.v.t.

### Meer info

Website ADRA

### Contact

Stijn Greben  
Ruben Wassink  
Okke Scholten

## Photonics 21



### Doel

Innovatie fotonica en de bijbehorende industrieën.

### Start 2021

### EU Budget

Zie funding portal (zoek op 'Photonics partnership')

### NL Budget

n.v.t.

### Meer info

Website Photonics 21

### Contact

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## Smart Networks Services JU



### Doel

Aparte joint undertaking: Ontwikkeling en gebruik van 6G en 5G.

### Start 2021

### EU budget

Zie [werkprogramma](#)

### NL Budget

Geen

### Meer info

Website Smart Networks

### Contact

Stijn Greben  
Ruben Wassink  
Okke Scholten

## EuroHPC JU



### Doel

Aparte joint undertaking: Ontwikkeling van Europees supercomputing-ecosysteem.

### Start 2021

### EU budget

€ 464.8M(2023)

### Meer info

Website EuroHPC

### Contact

Stijn Greben  
Ruben Wassink



# Partnerschappen Cluster 4: Digital

## Key Digital Technologies JU



### Doel

Aparte joint undertaking: Elektronische componenten en systemen.

### Start 2021

### EU budget

€317,7M (2023)

### Meer info

Website KDT JU

### Contact

Stijn Greben

Ruben Wassink



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Hans Bosch      hans.bosch@rvo.nl  
 Ahmet Polat     ahmet.polat@rvo.nl  
 John Heynen     john.heynen@rvo.nl  
[www.rvo.nl/subsidies-financiering/horizon-europe/cluster-4](http://www.rvo.nl/subsidies-financiering/horizon-europe/cluster-4)

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<b>1: Climate neutral, Circular and Digitised Production</b>									
<b>Call - TWIN GREEN AND DIGITAL TRANSITION 2023 HORIZON-CL4-2023-Twin Transition-01</b>									
HORIZON-CL4-2023-TWIN-TRANSITION-01-02	<b>Manufacturing Industry</b>	High-precision OR complex product manufacturing – potentially including the use of photonics (Made in Europe and Photonics Partnerships)	IA	5	7	48	5-6	20/04/2023	
HORIZON-CL4-2023-TWIN-TRANSITION-01-04		Factory-level and value chain approaches for remanufacturing (Made in Europe Partnership)	IA	5	7	37,6	5-7	20/04/2023	
HORIZON-CL4-2023-TWIN-TRANSITION-01-07		Achieving resiliency in value networks through modelling and Manufacturing as a Service (Made in Europe Partnership)	RIA	3	6	32	4-6	20/04/2023	
HORIZON-CL4-2023-TWIN-TRANSITION-01-08	<b>Energy Intensive Process Industries</b>	Foresight and technology transfer for Manufacturing as a Service (Made in Europe Partnership)	CSA	n.a.	n.a.	1	1	20/04/2023	
HORIZON-CL4-2023-TWIN-TRANSITION-01-31		Energy efficiency breakthroughs in the process industries (Processes4Planet partnership)	RIA	4	6	32	8-10	20/04/2023	
HORIZON-CL4-2023-TWIN-TRANSITION-01-33		Electrification of high temperature heating systems (Processes4Planet Partnership)	IA	5	7	35,67	12	20/04/2023	



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HORIZON-CL4-2023-TWIN-TRANSITION-01-36		Modelling industry transition to climate neutrality, sustainability and circularity (Processes4Planet partnership)	RIA	n.a.	n.a.	13	6-7	20/04/2023	
HORIZON-CL4-2023-TWIN-TRANSITION-01-37		Hubs for circularity for near zero emissions regions applying industrial symbiosis and cooperative approach to heavy industrialized clusters and surrounding ecosystems (Processes4Planet partnership)	IA	5	7	40	15-20	20/04/2023	
HORIZON-CL4-2023-TWIN-TRANSITION-01-40		Sustainable and efficient industrial water consumption through energy and solute recovery (Processes4Planet partnership)	RIA	4	6	30	10-12	20/04/2023	
HORIZON-CL4-2023-TWIN-TRANSITION-01-42		Circular economy in process industries Upcycling large volumes of secondary resources (Processes4Planet partnership)	RIA	4	6	30	10-12	20/04/2023	
HORIZON-CL4-2023-TWIN-TRANSITION-01-43		Low carbon-dioxide emission technologies for melting iron-bearing feed materials OR smart carbon usage and improved energy & resource efficiency via process integration (Clean Steel Partnership)	IA	5	6-7	23	4-6	20/04/2023	
HORIZON-CL4-2023-TWIN-TRANSITION-01-45		Circular economy solutions for the valorisation of low-quality scrap streams, materials recirculation with high recycling rate, and residue valorisation for long term goal towards zero waste (Clean Steel Partnership)	RIA	4	5-6	12	3-6	20/04/2023	
<b>Call - TWIN GREEN AND DIGITAL TRANSITION 2023 TWO STAGE</b>									
	<b>A New Way to Build, accelerating disruptive change in construction</b>								
HORIZON-CL4-2023-TWIN-TRANSITION-01-11		Intelligent data acquisition and analysis of materials and products in existing built works	RIA	4	6	12	5-6	07/03/2023	05/10/2023





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<b>Call - TWIN GREEN AND DIGITAL TRANSITION 2024</b>									
	<b>Manufacturing Industry</b>								
HORIZON-CL4-2024-TWIN-TRANSITION-01-03		Manufacturing as a Service Technologies for customised, flexible, and decentralised production on demand (Made in Europe Partnership)	RIA	4	6	35	5-7	07/02/2024	
HORIZON-CL4-2024-TWIN-TRANSITION-01-05		Technologies/solutions to support circularity for manufacturing (Made in Europe Partnership)	RIA	4	6	36	4-6	07/02/2024	
	<b>Energy Intensive Process Industries</b>								
HORIZON-CL4-2024-TWIN-TRANSITION-01-32		Optimisation of thermal energy flows in the process industry (Processes4Planet partnership)	IA	5	7	30	10-15	07/02/2024	
HORIZON-CL4-2024-TWIN-TRANSITION-01-34		Renewable hydrogen used as feedstock in innovative production routes (Processes4Planet Partnership)	RIA	4	6	20	8-10	07/02/2024	
HORIZON-CL4-2024-TWIN-TRANSITION-01-35		Turning CO2 emissions from the process industry to feedstock (Processes4Planet partnership)	IA	5-6	7	30	10-15	07/02/2024	
HORIZON-CL4-2024-TWIN-TRANSITION-01-38		Hubs for circularity for industrialised urban peripheral areas (Processes4Planet partnership)	IA	5	7	40	15-20	07/02/2024	
HORIZON-CL4-2024-TWIN-TRANSITION-01-41		Breakthroughs to improve process industry resource efficiency (Processes4Planet partnership)	RIA	4	6	30	10-12	07/02/2024	
HORIZON-CL4-2024-TWIN-TRANSITION-01-44		Digital transformation and ensuring a better use of industrial data, which can optimise steel supply chains (Clean Steel Partnership)	IA	5	6-7	10	3-5	07/02/2024	



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HORIZON-CL4-2024-TWIN-TRANSITION-01-46		CO2-neutral steel production with hydrogen, secondary carbon carriers and electricity OR innovative steel applications for low CO2 emissions (Clean Steel Partnership)	RIA	4	5-6	20	3-5	07/02/2024	
<b>Call - TWIN GREEN AND DIGITAL TRANSITION 2024 TWO STAGE</b>									
	<b>Manufacturing Industry</b>								
HORIZON-CL4-2024-TWIN-TRANSITION-01-01		Bio-intelligent manufacturing industries (Made in Europe Partnership)	RIA	4	6	25	4-5	07/02/2024	24/09/2024
	<b>A New Way to Build, accelerating disruptive change in construction</b>								
HORIZON-CL4-2024-TWIN-TRANSITION-01-12		Enhanced assessment, intervention and repair of civil engineering infrastructure	RIA	n.a.	6	12	5-6	07/02/2024	24/09/2024
<b>2: Increased Autonomy in Key Strategic Value Chains for Resilient Industry</b>									
<b>Call - RESILIENT VALUE CHAINS 2023 TWO STAGE</b>									
	<b>Strategic innovation markets driven by advanced materials</b>								
HORIZON-CL4-2023-RESILIENCE-01-32		Bioinspired and biomimetic materials for sustainable textiles	IA	4	6-7	31	6-8	07/03/2023	
HORIZON-CL4-2023-RESILIENCE-01-33		Smart sensors for the Electronic Appliances market	RIA	3-4	5-6	31	6-8	07/03/2023	
HORIZON-CL4-2023-RESILIENCE-01-34		Advanced (nano and bio-based) materials for sustainable agriculture	RIA	3-4	5-6	31	6-8	07/03/2023	
HORIZON-CL4-2023-RESILIENCE-01-37		Advanced materials for magnets in applications for the New Energies Market	RIA	3-4	5-6	31	6-8	07/03/2023	



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<b>Call - RESILIENT VALUE CHAINS 2023</b>									
	<b>Raw Materials for EU open strategic autonomy and successful transition to a climate neutral and circular economy</b>								
HORIZON-CL4-2023-RESILIENCE-01-02		Innovative technologies for sustainable and decarbonised extraction	RIA	n.a.	3-5	25	5	20/04/2023	
HORIZON-CL4-2023-RESILIENCE-01-03		Technologies for processing and refining of critical raw materials	IA	6	7	22	7,3	20/04/2023	
HORIZON-CL4-2023-RESILIENCE-01-05		Recycling technologies for critical raw materials from EoL products	IA	6	7	28	7	20/04/2023	
HORIZON-CL4-2023-RESILIENCE-01-06		Earth Observation platform, products and services for raw materials	IA	6	7	20	6,7	20/04/2023	
HORIZON-CL4-2023-RESILIENCE-01-07		Expert network on Critical raw materials	CSA	n.a.	n.a.	3	3	20/04/2023	
HORIZON-CL4-2023-RESILIENCE-01-09		Recyclability and resource efficiency of Rare Earth based magnets	IA	6	7	20	6,7	20/04/2023	
	<b>Safe and Sustainable by Design (SSbD) Chemicals and Materials</b>								
HORIZON-CL4-2023-RESILIENCE-01-21		Innovative methods for safety and sustainability assessments of chemicals and materials	RIA	3	6	29	6-8	20/04/2023	
HORIZON-CL4-2023-RESILIENCE-01-22		Integrated approach for impact assessment of safe and sustainable chemicals and materials	RIA	n.a.	2-5	15	3-4	20/04/2023	
HORIZON-CL4-2023-RESILIENCE-01-23		Computational models for the development of safe and sustainable by design chemicals and materials	RIA	n.a.	3-6	29	6-7	20/04/2023	



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	<b>Strategic innovation markets driven by advanced materials</b>								
HORIZON-CL4-2023-RESILIENCE-01-39		Coordination and knowledge sharing across materials development communities	CSA	n.a.	n.a.	2	2	20/04/2023	
	<b>Improving the resilience of EU businesses, especially SMEs and Startups</b>								
HORIZON-CL4-2023-RESILIENCE-01-42		Boosting generation and diffusion of advanced technologies in SMEs based on a supply chain model	CSA	n.a.	n.a.	10	2-3	20/04/2023	
HORIZON-CL4-2023-RESILIENCE-01-44		Affordable Housing District Demonstrator	IA	n.a.	n.a.	10	5	20/04/2023	
<b>Call - RESILIENT VALUE CHAINS 2024 TWO STAGE</b>									
	<b>Strategic innovation markets driven by advanced materials</b>								
HORIZON-CL4-2024-RESILIENCE-01-35		Biodegradable polymers for sustainable packaging materials	IA	4	6-7	31	6-8	07/02/2024	24/09/2024
HORIZON-CL4-2024-RESILIENCE-01-36		Advanced biomaterials for the Health Care	IA	3-4	5-6	31	6-8	07/02/2024	24/09/2024
	<b>Improving the resilience of EU businesses, especially SMEs and Startups</b>								



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<b>Call - RESILIENT VALUE CHAINS 2024</b>									
	<b>Raw Materials for EU open strategic autonomy and successful transition to a climate[1]neutral and circular economy</b>								
HORIZON-CL4-2024-RESILIENCE-01-01		Exploration of critical raw materials in deep land deposits	RIA	n.a.	3-5	20	5	07/02/2024	
HORIZON-CL4-2024-RESILIENCE-01-04		Technologies for processing and refining of critical raw materials	IA	n.a.	6-7	22	7,3	07/02/2024	
HORIZON-CL4-2024-RESILIENCE-01-08		Rare Earth and magnets innovation hubs	IA	n.a.	6-7	32	16	07/02/2024	
HORIZON-CL4-2024-RESILIENCE-01-10		Addressing due diligence requirements in raw materials supply chains.	CSA	n.a.	n.a.	2,2	2,2	07/02/2024	
HORIZON-CL4-2024-RESILIENCE-01-11		Technologies for extraction and processing of critical raw materials	IA	n.a.	6-7	15	7,5	07/02/2024	
	<b>Safe and Sustainable by Design (SSbD) Chemicals and Materials</b>								
HORIZON-CL4-2024-RESILIENCE-01-24		Development of safe and sustainable by design alternatives	IA	4-5	6-7	59	12-15	07/02/2024	
	<b>Improving the resilience of EU businesses, especially SMEs and Startups</b>								
HORIZON-CL4-2024-RESILIENCE-01-41		'Innovate to transform' support for SME's sustainability transition	CSA	n.a.	n.a.	10	5	07/02/2024	



# Partnerschappen Cluster 4: Industry

Processes4planet



**Doel**  
Transformeren van de Europese procesindustrie: circulair en klimaat neutraal

**Start 2021**

**EU Budget**  
Transition (zoek op 'processes 4 planet')

**NL Budget**  
n.v.t.

**Meer info**  
Website Processes4planet

**Contact**  
Hans Bosch  
Ahmet Polat  
John Heynen

Clean Steel (CSP)



**Doel**  
Transformeren van de Europese staalindustrie: CO2 reductie.

**Start 2021**

**EU Budget**  
Zie funding portal cluster 4, Twin Transition (zoek op 'clean steel')

**NL Budget**  
n.v.t.

**Meer info**  
Website ESTEP - CSP

**Contact**  
Hans Bosch  
Ahmet Polat  
John Heynen

Made in Europe



**Doel**  
Transformeren van de Europese manufacturing industry: concurrerend, groen, digitaal, veerkrachtig en de mens centraal

**Start 2021**

**EU budget**  
Zie funding portal cluster 4, Twin Transition (zoek op 'made in europe')

**NL Budget**  
n.v.t.

**Meer info**  
Website Made in Europe - State of Play | EFFRA

**Contact**  
Hans Bosch  
Ahmet Polat  
John Heynen



# Cluster 4: Digital - Industry - Space

## Contact

Frank Winters

frank.winters@rvo.nl

www.rvo.nl/subsidies-financiering/horizon-europe/cluster-4

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Pillar 2

Topicnr	Section	Topic naam	Projecttype	TRL bij start	TRL bij einde	Budget totaal (M)	Budget per project (M)	deadline
<b>5: Open Strategic Autonomy in Developing, Deploying and Using Global Space-Based Infrastructures, Services, Applications and Data</b>								
<b>Call - STRATEGIC AUTONOMY IN DEVELOPING, DEPLOYING AND USING GLOBAL SPACE-BASED INFRASTRUCTURES, SERVICES, APPLICATIONS AND DATA 2023</b>								
	<b>Foster competitiveness of space systems</b>							
HORIZON-CL4-2023-SPACE-01-11		End-to-end Earth observation systems and associated services	IA	n.a.	5-6	10,1	1-2,5	28/03/2023
HORIZON-CL4-2023-SPACE-01-12		Future Space Ecosystem and Enabling Technologies	RIA	n.a.	3-6	15	0,5-2,5	28/03/2023
	<b>Reinforce EU capacity to access to space</b>							
HORIZON-CL4-2023-SPACE-01-13		Future Space Ecosystem: Management and Coordination Activity	CSA	n.a.	n.a.	2	2	28/03/2023
HORIZON-CL4-2023-SPACE-01-21		Low cost high thrust propulsion for European strategic space launchers	RIA	n.a.	7	20	20	28/03/2023
HORIZON-CL4-2023-SPACE-01-22		New space transportation solutions and services	RIA	n.a.	5-6	23,1	4-10	28/03/2023
HORIZON-CL4-2023-SPACE-01-23		Modern, flexible and efficient European test, production and launch facilities	RIA	n.a.	5-7	10	2-5	28/03/2023
	<b>Evolution of services: Copernicus</b>							
HORIZON-CL4-2023-SPACE-01-31		Copernicus for Atmosphere and Climate Change, including CO2	RIA	n.a.	5-6	8,6	2-3	28/03/2023
HORIZON-CL4-2023-SPACE-01-32		Copernicus for Emergency Management	RIA	n.a.	6	3	3	28/03/2023



# Cluster 4: Digital - Industry - Space

Topicnr	Section	Topic naam	Projecttype	TRL bij start	TRL bij einde	Budget totaal (M)	Budget per project (M)	deadline
HORIZON-CL4-2023-SPACE-01-33		Copernicus in-situ component	RIA	n.a	5-6	2	2	28/03/2023
HORIZON-CL4-2023-SPACE-01-34:		Copernicus for Marine Environment Monitoring	RIA	n.a.	5-6	5	5	28/03/2023
	<b>Development of applications for Galileo, EGNOS and Copernicus, PRS and GOVSATCOM</b>							
	<b>Innovative space capabilities: SSA, GOVSATCOM, Quantum</b>							
HORIZON-CL4-2023-SPACE-01-62		Quantum Communication Technologies for space systems	RIA	n.a.	5-6	5	2-2.5	28/03/2023
HORIZON-CL4-2023-SPACE-01-63		Quantum Space Gravimetry Phase-A Study	RIA	n.a.	3	3	1-1.5	28/03/2023
HORIZON-CL4-2023-SPACE-01-71		Scientific exploitation of space data	RIA	n.a.	3-4	10.7	1-1.5	28/03/2023
HORIZON-CL4-2023-SPACE-01-72		Space technologies for European non-dependence and competitiveness	RIA	n.a.	5-8	20	2-3	28/03/2023
Call - STRATEGIC AUTONOMY IN DEVELOPING, DEPLOYING AND USING GLOBAL SPACE-BASED INFRASTRUCTURES, SERVICES, APPLICATIONS AND DATA 2024								
	<b>Evolution of services: Copernicus</b>							
HORIZON-CL4-2024-SPACE-01-35		Copernicus for Land and Water	RIA	n.a.	5-6	4	1.5-2	20/02/2024
HORIZON-CL4-2024-SPACE-01-36		Copernicus for Security	RIA	n.a.	5-6	8	4	20/02/2024
	<b>Development of applications for Galileo, EGNOS and Copernicus, PRS and GOVSATCOM</b>							
	<b>Innovative space capabilities: SSA, GOVSATCOM, Quantum</b>							
HORIZON-CL4-2024-SPACE-01-64		Quantum Space Gravimetry Phase-B study & Technology Maturation	RIA	n.a.	6-7	14.2	14	20/02/2024
	<b>Targeted and strategic actions supporting the EU space sector</b>							
HORIZON-CL4-2024-SPACE-01-73		Space technologies for European non-dependence and competitiveness	RIA	n.a.	5-8	20.10	2-3	20/02/2024





# Partnerschappen Cluster 4: Space

## SPACE (Space Partnership Association for a Competitive Europe)

### Doel

Versterking EU concurrentievermogen in gebruik van de ruimte; commerciële telecom, aard observatie, toekomstige ruimte ecosystemen

### Start 2023

### EU Budget

Ca. EUR 150 mln., nog in onderhandelingsfase

### NL Budget

n.v.t.

### Meer info

Website nog niet beschikbaar, MoU nog niet getekend

### Contact

Raymond Sluiter (NSO)  
Frank Winters



# Cluster 5: Climate - Energy - Mobility

## Contact

Laura Platenkamp

[laura.platenkamp@rvo.nl](mailto:laura.platenkamp@rvo.nl)

[www.rvo.nl/subsidies-financiering/horizon-europe/cluster-5](http://www.rvo.nl/subsidies-financiering/horizon-europe/cluster-5)

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Pillar 2

Topicnr	Topic naam	Projecttype	TRL bij einde	Budget totaal (M)	Budget per project (M)	Deadline
<b>Destination 1. Climate sciences and responses for the transformation towards climate neutrality</b>						
<b>Call - Climate sciences and responses HORIZON-CL5-2023-D1-01</b>						
HORIZON-CL5-2023-D1-01-01	Further climate knowledge through advanced science and technologies for analysing Earth observation and Earth system model data	RIA		16	8	18/04/2023
HORIZON-CL5-2023-D1-01-02	Climate-related tipping points	RIA		14	7	18/04/2023
HORIZON-CL5-2023-D1-01-03	Climate impacts of a hydrogen economy	RIA		8	4	18/04/2023
HORIZON-CL5-2023-D1-01-04	Improved knowledge in cloud-aerosol interaction	RIA		16	8	18/04/2023
HORIZON-CL5-2023-D1-01-05	Science for successful, high-integrity voluntary climate initiatives	RIA		5,5	5,5	18/04/2023
HORIZON-CL5-2023-D1-01-06	Broadening the range of policy options in transition pathway analysis	RIA		10	5	18/04/2023
HORIZON-CL5-2023-D1-01-07	Modelling for local resilience - Developments in support of local adaptation assessments and plans	RIA		12	12	18/04/2023
HORIZON-CL5-2023-D1-01-08	Solar Radiation Modification: governance of research	CSA		3	3	18/04/2023
HORIZON-CL5-2023-D1-01-09	Behavioural change and governance for systemic transformations towards climate resilience	RIA		8	4	18/04/2023
HORIZON-CL5-2023-D1-01-10	Improving the evidence base regarding the impact of sustainability and climate change education and related learning outcomes	RIA		5	5	18/04/2023
HORIZON-CL5-2023-D1-01-11	Needs-based adaptation to climate change in Africa	RIA		10	5	18/04/2023



# Cluster 5: Climate - Energy - Mobility

Topicnr	Topic naam	Projecttype	TRL bij einde	Budget totaal (M)	Budget per project (M)	Deadline
<b>Call - Climate sciences and responses HORIZON-CL5-2023-D1-02</b>						
HORIZON-CL5-2023-D1-02-01	EU-China international cooperation on data and model development for pathways to carbon neutrality: focusing on decarbonisation, energy efficiency and socio-economic implications of the transition	RIA	niet hoger dan TRL 4	5	2,5	18/04/2023
HORIZON-CL5-2023-D1-02-02	EU-China international cooperation on blue carbon	RIA	niet hoger dan TRL 4	5	5	18/04/2023
<b>Call - Climate sciences and responses HORIZON-CL5-2024-D1-01</b>						
HORIZON-CL5-2024-D1-01-01	Enhanced quantification and understanding of natural and anthropogenic methane emissions and sinks	RIA		15	15	05/03/2024
HORIZON-CL5-2024-D1-01-02	Inland ice, including snow cover, glaciers, ice sheets and permafrost, and their interaction with climate change	RIA		22	6-7,5	05/03/2024
HORIZON-CL5-2024-D1-01-03	Paleoclimate science for a better understanding of the short- to long-term evolution of the Earth system	RIA		15	15	05/03/2024
HORIZON-CL5-2024-D1-01-04	Improved toolbox for evaluating the climate and environmental impacts of trade policies	RIA		12	6	05/03/2024
HORIZON-CL5-2024-D1-01-05	Next generation low-emission, climate-resilient pathways and NDCs for a future aligned with the Paris Agreement	RIA		14	4,5	05/03/2024
HORIZON-CL5-2024-D1-01-06	The role of climate change foresight for primary and secondary raw materials supply	RIA		5	5	05/03/2024
HORIZON-CL5-2024-D1-01-07	Quantification of the role of key terrestrial ecosystems in the carbon cycle and related climate effects	RIA		20	10	05/03/2024
<b>Destination 2 - Cross-sectoral solutions for the climate transition</b>						
<b>Call - Cross-sectoral solutions for the climate transition HORIZON-CL5-2023-D2-01</b>						
HORIZON-CL5-2023-D2-01-01	Technologies for sustainable, cost-efficient and low carbon footprint downstream processing & production of battery-grade materials (Batt4EU Partnership)	RIA	5	21	7	18/04/2023
HORIZON-CL5-2023-D2-01-02	New processes for upcoming recycling feeds (Batt4EU Partnership)	RIA	4	15	5	18/04/2023
HORIZON-CL5-2023-D2-01-03	Advanced digital twins for battery cell production lines (Batt4EU Partnership)	RIA	4-5	14	7	18/04/2023



# Cluster 5: Climate - Energy - Mobility

Topicnr	Topic naam	Projecttype	TRL bij einde	Budget totaal (M)	Budget per project (M)	Deadline
HORIZON-CL5-2023-D2-01-04	Battery management system (BMS) and battery system design for stationary energy storage systems (ESS) to improve interoperability and facilitate the integration of second life batteries (Batt4EU Partnership)	IA	6-7	15	7,5	18/04/2023
HORIZON-CL5-2023-D2-01-05	Hybrid electric energy storage solutions for grid support and charging infrastructure (Batt4EU Partnership)	IA	7	12	6	18/04/2023
HORIZON-CL5-2023-D2-01-06	Open Pilot Line/Test Bed for hydrogen	IA		10	10	18/04/2023
HORIZON-CL5-2023-D2-01-07	Support for the deployment of R&I results for climate mitigation. Synergies with the ETS Innovation Fund	CSA		4	1	18/04/2023
HORIZON-CL5-2023-D2-01-08	Driving Urban Transition Co-funded Partnership	Programme Co-fund Action		37	37 (20,7 in 2023 en 16,30 in 2024)	18/04/2023
<b>Call - Cross-sectoral solutions for the climate transition HORIZON-CL5-2023-D2-02</b>						
HORIZON-CL5-2023-D2-02-01	Advanced materials and cells development enabling large-scale production of Gen4 solid-state batteries for mobility applications (Batt4EU Partnership)	IA	6	24	8	05/09/2023
HORIZON-CL5-2023-D2-02-02	New Approaches to Develop Enhanced Safety Materials for Gen 3 Li-Ion Batteries for Mobility Applications (Batt4EU Partnership)	RIA	5	10	5	05/09/2023
HORIZON-CL5-2023-D2-02-03	Creating a digital passport to track battery materials, optimize battery performance and life, validate recycling, and promote a new business model based on data sharing (Batt4EU Partnership)	IA	7	8	8	05/09/2023
<b>Call - Cross-sectoral solutions for the climate transition HORIZON-CL5-2024-D2-01</b>						
HORIZON-CL5-2024-D2-01-01	Advanced sustainable and safe pre-processing technologies for End-of-Life (EoL) battery recycling (Batt4EU Partnership)	RIA	5	21	7	18/04/2024
HORIZON-CL5-2024-D2-01-02	Non-Li Sustainable Batteries with European Supply Chains for Stationary Storage (Batt4EU Partnership)	IA	6-7	21	7	18/04/2024
HORIZON-CL5-2024-D2-01-03	Development of technical and business solutions to optimise the circularity, resilience, and sustainability of the European battery value chain (Batt4EU Partnership)	RIA	5	5	5	18/04/2024
HORIZON-CL5-2024-D2-01-04	Emerging energy technologies for a climate neutral Europe	RIA	4	10	1,5-2,5	18/04/2024
<b>Call - Cross-sectoral solutions for the climate transition HORIZON-CL5-2024-D2-02</b>						
HORIZON-CL5-2024-D2-02-01	Sustainable high-throughput production processes for stable lithium metal anodes for next generation batteries (Batt4EU Partnership)	IA	6-7	8	8	05/09/2024



# Cluster 5: Climate - Energy - Mobility

Topicnr	Topic naam	Projecttype	TRL bij einde	Budget totaal (M)	Budget per project (M)	Deadline
HORIZON-CL5-2024-D2-02-02	Post-Li-ion technologies and relevant manufacturing techniques for mobility applications (Generation 5) (Batt4EU Partnership)	RIA	4	15	5	05/09/2024
HORIZON-CL5-2024-D2-02-03	Size & weight reduction of cell and packaging of batteries system, integrating lightweight and functional materials, innovative thermal management and safe and sustainable by design approach (Batt4EU Partnership)	IA	6-7	16	8	05/09/2024
HORIZON-CL5-2024-D2-02-04	Accelerated multi-physical and virtual testing for battery aging, reliability and safety evaluation (Batt4EU Partnership)	IA	6	15	7,5	05/09/2024



# Missies Cluster 5: Climate

## Contact

Laura Platenkamp  
Alexander van Dorssen

[laura.platenkamp@rvo.nl](mailto:laura.platenkamp@rvo.nl)  
[alexander.vandorssen@rvo.nl](mailto:alexander.vandorssen@rvo.nl)



Topicnr	Topic naam	Projecttype	TRL bij einde	Budget totaal (M)	Budget per project (M)	Deadline
<b>Mission Adaptation to Climate Change</b>						
HORIZON-MISS-2023-CLIMA-01-01	Testing and demonstrating transformative solutions increasing climate resilience of the agriculture and/or forestry sector	IA	6-8	30	8-10	20/09/2023
HORIZON-MISS-2023-CLIMA-01-02	Testing and demonstrating transformative solutions to protect critical infrastructure from climate change, mainstreaming nature based solutions	IA	6-8	34,81	8-11	20/09/2023
HORIZON-MISS-2023-CLIMA-01-03	Testing and demonstrating transformative solutions to build resilience towards health risks caused by the effects of climate change	IA	6-7	18	4,5-6	20/09/2023
<b>Mission 100 Climate-Neutral and Smart Cities by 2030</b>						
<b>Call - Research and Innovation actions to support the implementation of the Climate-Neutral and Smart Cities Mission</b>						
HORIZON-MISS-2023-CIT-01-01	Co-designed smart systems and services for user-centred shared zero-emission mobility of people and freight in urban areas (2Zero, CCAM and Cities' Mission)	IA	7	50	25	27/04/2023
HORIZON-MISS-2023-CIT-01-02	Positive clean energy district (PED) digital twins from modelling to creating climate neutral Cities	IA	6-8	20	6-7	27/04/2023
<b>Call - Associating Ukrainian cities to the Climate-neutral and smart cities Mission</b>						
HORIZON-MISS-2023-CIT-02-01	Associating Ukrainian cities to the Climate-neutral and smart cities Mission	CSA		5	5	06/09/2023



# Missies Cluster 5: Climate

Topicnr	Topic naam	Projecttype	TRL bij einde	Budget totaal (M)	Budget per project (M)	Deadline
<b>Other Actions not subject to calls for proposals</b>						
1. Specific Grant Agreement to the FPA to reinforce the operations of the Mission Platform		Specific grant agreement awarded without call for proposals in relation to a Framework Partnership Agreement		40 from 2023 budget		Indicative timetable first quarter 2023
<b>Joint Call between Mission 100 Climate Neutral and Smart Cities by 2030 and Mission Adaptation to Climate Change</b>						
<b>Call - Demonstration of climate mitigation and resilience solutions in support of the implementation of the Adaptation to Climate Change and Cities Mission</b>						
HORIZON-MISS-2023-CLIMA-CITIES-01-01	Urban reening and re-naturing for urban regeneration, resilience and climate neutrality	IA		40	10-12	27/04/2023
<b>Joint Call between Mission Restore our Ocean and Waters by 2030, Mission Adaptation to Climate Change and Mission A Soil Deal for Europe</b>						
<b>Call - Demonstration of climate mitigation and resilience solutions in support of the implementation of the Adaptation to Climate Change, Restore our Ocean and Waters by 2030 and A Soil Deal for Europe Missions</b>						
HORIZON-MISS-2023-CLIMA-OCEAN-SOIL-01-01	Mission Climate Adaptation, Mission Ocean & waters and Mission Soil Deal for Europe Joint demonstration of an integrated approach to increasing landscape water retention capacity at regional scale	IA	6-7	15	15	20/09/2023



# Cluster 5: Climate - Energy - Mobility

## Contact

Achim Eberspächer    [achim.eberspaecher@rvo.nl](mailto:achim.eberspaecher@rvo.nl)  
 Pieter Houttuin      [pieter.houttuin@rvo.nl](mailto:pieter.houttuin@rvo.nl)  
[www.rvo.nl/subsidies-financiering/horizon-europe/cluster-5](http://www.rvo.nl/subsidies-financiering/horizon-europe/cluster-5)

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Topicnr	Topic naam	Projecttype	TRL bij einde	Budget totaal (M)	Budget per project (M)	Deadline
<b>Destination: Sustainable, secure and competitive energy supply</b>						
HORIZON-CL5-2023-D3-01-01	Renewable Energy Valleys to increase energy security while accelerating the green transition in Europe	IA	7-8	40	20	30/03/2023
HORIZON-CL5-2023-D3-01-02	PV integration in buildings and in infrastructure	IA	7	16	8	30/03/2023
HORIZON-CL5-2023-D3-01-03	Floating PV Systems	IA	6-7	14	7	30/03/2023
HORIZON-CL5-2023-D3-01-04	Solar Systems for Industrial Process Heat and Power	IA	6-7	14	7	30/03/2023
HORIZON-CL5-2023-D3-01-05	Critical technologies for the offshore wind farm of the Future	RIA	5	18	6	30/03/2023
HORIZON-CL5-2023-D3-01-06	Demonstration of advanced biofuel technologies for aviation and/or shipping	IA	6-7	18	9	30/03/2023
HORIZON-CL5-2023-D3-01-07	Demonstration of synthetic renewable fuel for aviation and/or shipping	IA	6-7	18	9	30/03/2023
HORIZON-CL5-2023-D3-01-08	Demonstration of sustainable tidal energy farms	IA	8	40	20	30/03/2023
HORIZON-CL5-2023-D3-01-09	Waste heat reutilisation from data centres	IA	7-8	12	6	30/03/2023
HORIZON-CL5-2023-D3-01-10	Supporting the development of a digital twin to improve management, operations and resilience of the EU Electricity System in support to REPowerEU	IA	6-7	20	20	30/03/2023
HORIZON-CL5-2023-D3-01-11	Demonstration of DC powered data centres, buildings, industries and ports	IA	6-8	18	9	30/03/2023
HORIZON-CL5-2023-D3-01-12	Development of MVDC, HVDC and High-Power Transmission systems and components for a resilient grid	IA	8	22	11	30/03/2023
HORIZON-CL5-2023-D3-01-13	Development of novel long-term electricity storage technologies	RIA	4-5	14	4-5	30/03/2023
HORIZON-CL5-2023-D3-01-14	Demonstration of innovative, large-scale, seasonal heat and/or cooling storage technologies for decarbonisation and security of supply	IA	7-8	30	10	30/03/2023
HORIZON-CL5-2023-D3-01-15	Supporting the green and digital transformation of the energy ecosystem and enhancing its resilience through the development and piloting of AI-IoT Edge-cloud and platform solutions	IA	7-8	18	18	30/03/2023





# Cluster 5: Climate - Energy - Mobility

Topicnr	Topic naam	Projecttype	TRL bij einde	Budget totaal (M)	Budget per project (M)	Deadline
HORIZON-CL5-2023-D3-01-16	Support action to the SET Plan IWG on HVDC & DC Technologies	CSA	n.v.t.	0,6	0,6	30/03/2023
HORIZON-CL5-2023-D3-01-17	Development of CO2 transport and storage demo projects	IA	7-8	40	20	30/03/2023
HORIZON-CL5-2023-D3-01-18	Clean Energy Transition Co-funded Partnership	COFUND	n.v.t.	68	68	30/03/2023
HORIZON-CL5-2023-D3-02-01	Development of near zero-emission biomass heat and/or CHP including carbon capture	RIA	5	8	4	05/09/2023
HORIZON-CL5-2023-D3-02-02	Novel thermal energy storage for CSP	RIA	4-5	5	2,5	05/09/2023
HORIZON-CL5-2023-D3-02-03	Industrial manufacturing for lower-cost solar thermal components and systems	IA	7-8	6	3	05/09/2023
HORIZON-CL5-2023-D3-02-04	Innovative components and configurations for heat pumps	RIA	4-5	6	2	05/09/2023
HORIZON-CL5-2023-D3-02-05	Advanced exploration technologies for geothermal resources in a wide range of geological settings	RIA	5	8	4	05/09/2023
HORIZON-CL5-2023-D3-02-06	Smart use of geothermal electricity and heating and cooling in the energy system	IA	7	15	5	05/09/2023
HORIZON-CL5-2023-D3-02-07	Development of next generation advanced biofuel technologies	RIA	4-5	12	4	05/09/2023
HORIZON-CL5-2023-D3-02-08	Development of microalgae and/or direct solar fuel production and purification technologies for advanced aviation and /or shipping fuels	RIA	4-5	8	4	05/09/2023
HORIZON-CL5-2023-D3-02-09	Demonstration of sustainable hydropower refurbishment	IA	7-8	8	8	05/09/2023
HORIZON-CL5-2023-D3-02-10	Development of innovative power take-off and control systems for wave energy devices	RIA	5	8	4	05/09/2023
HORIZON-CL5-2023-D3-02-11	Advanced concepts for crystalline Silicon technology	RIA	4-5	9	3	05/09/2023
HORIZON-CL5-2023-D3-02-12	Large Area Perovskite solar cells and modules	IA	6-7	14	7	05/09/2023
HORIZON-CL5-2023-D3-02-13	Operation, Performance and Maintenance of PV Systems	IA	6-7	10	5	05/09/2023
HORIZON-CL5-2023-D3-02-14	Digital twin for forecasting of power production to wind energy demand	RIA	5	12	6	05/09/2023
HORIZON-CL5-2023-D3-02-15	Critical technologies to improve the lifetime, efficient decommissioning and increase the circularity of offshore and onshore wind energy systems	RIA	5	12	4	05/09/2023
HORIZON-CL5-2023-D3-02-16	Accelerating the green transition and energy access in Africa	IA	7	20	5	05/09/2023
HORIZON-CL5-2024-D3-01-01	Alternative equipment and processes for advanced manufacturing of PV technologies	IA	7	24	12	16/01/2024
HORIZON-CL5-2024-D3-01-02	Low-power PV	IA	5-7	6	3	16/01/2024
HORIZON-CL5-2024-D3-01-03	Demonstration of improved intermediate renewable energy carrier technologies for transport fuels	IA	6-7	20	10	16/01/2024
HORIZON-CL5-2024-D3-01-04	Improvement of light harvesting and carbon fixation with synthetic biology and/or bio-inspired//biomimetic pathways for renewable direct solar fuels production	RIA	3-4	8	4	16/01/2024
HORIZON-CL5-2024-D3-01-05	Development of carbon fixation technologies for biogenic flue gases	RIA	5	8	4	16/01/2024
HORIZON-CL5-2024-D3-01-06	Innovative applications/integration of geothermal heating and cooling in industry	RIA	5	9	3	16/01/2024



# Cluster 5: Climate - Energy - Mobility

Topicnr	Topic naam	Projecttype	TRL bij einde	Budget totaal (M)	Budget per project (M)	Deadline
HORIZON-CL5-2024-D3-01-07	Development of hydropower equipment for improving techno-economic efficiency and equipment resilience in refurbishment situations	RIA	4-5	8	4	16/01/2024
HORIZON-CL5-2024-D3-01-08	Demonstration of sustainable wave energy farms	IA	8	38	18-20	16/01/2024
HORIZON-CL5-2024-D3-01-09	Africa-EU CO-FUND action	COFUND	n.v.t.	10	10	16/01/2024
HORIZON-CL5-2024-D3-01-10	Next generation of renewable energy technologies	RIA	3-4	27	3	16/01/2024
HORIZON-CL5-2024-D3-01-11	AI Testing and Experimentation Facility (TEF) for the energy sector – bringing technology to the market	IA	6-8	16	5	16/01/2024
HORIZON-CL5-2024-D3-01-12	Energy Management Systems for flexibility services	IA	7-8	10	5	16/01/2024
HORIZON-CL5-2024-D3-01-13	DC and AC/DC hybrid transmission and distribution systems	RIA	4-5	13	6	16/01/2024
HORIZON-CL5-2024-D3-01-14	Condition & Health Monitoring in Power Electronics (PE) - Wide Band Gap PE for the energy sector	RIA	5-6	13	4	16/01/2024
HORIZON-CL5-2024-D3-01-15	HVAC, HVDC and High-Power cable systems	RIA	4-5	16	5-5,5	16/01/2024
HORIZON-CL5-2024-D3-01-16	Demonstration of innovative pumped storage equipment and tools in combination with innovative storage management systems	IA	7-8	8	8	16/01/2024
HORIZON-CL5-2024-D3-01-17	Development and integration of advanced software tools in SCADA systems for High, Medium and Low voltage AC/DC hybrid systems	IA	6-8	12	6	16/01/2024
HORIZON-CL5-2024-D3-02-01	Digital tools for CSP and solar thermal plants	IA	7-8	6	3	05/09/2024
HORIZON-CL5-2024-D3-02-02	Development of next generation synthetic renewable fuel technologies	RIA	3-4	12	4	05/09/2024
HORIZON-CL5-2024-D3-02-03	Development of smart concepts of integrated energy driven bio-refineries for co-production of advanced biofuels, bio-chemicals and biomaterials	RIA	5	7	3,5	05/09/2024
HORIZON-CL5-2024-D3-02-04	Critical technologies for the future ocean energy farms	RIA	5	8	4	05/09/2024
HORIZON-CL5-2024-D3-02-05	PV-integrated electric mobility applications	IA	6-7	14	7	05/09/2024
HORIZON-CL5-2024-D3-02-06	Innovative, Community-Integrated PV systems	IA	6-7	10	5	05/09/2024
HORIZON-CL5-2024-D3-02-07	Resource Efficiency of PV in Production, Use and Disposal	CSA	n.v.t.	3	3	05/09/2024
HORIZON-CL5-2024-D3-02-08	Minimisation of environmental, and optimisation of socio-economic impacts in the deployment, operation and decommissioning of offshore wind farms	RIA	5	10	5	05/09/2024
HORIZON-CL5-2024-D3-02-09	Demonstrations of innovative floating wind concepts	IA	7-8	30	15	05/09/2024
HORIZON-CL5-2024-D3-02-10	Market Uptake Measures of renewable energy systems	CSA	n.v.t.	8	2	05/09/2024
HORIZON-CL5-2024-D3-02-11	CCU for the production of fuels	IA	6-7	15	7	05/09/2024
HORIZON-CL5-2024-D3-02-12	DACCS and BECCS for CO2 removal/negative emissions	IA	6-7	15	5-7	05/09/2024



# Cluster 5: Climate - Energy - Mobility

Topicnr	Topic naam	Projecttype	TRL bij einde	Budget totaal (M)	Budget per project (M)	Deadline
<b>Destination: Efficient, sustainable and inclusive energy use</b>						
HORIZON-CL5-2023-D4-01-01	Innovative cost-efficient solutions for zero-emission buildings	IA	6-8	10	5	20/04/2023
HORIZON-CL5-2023-D4-01-02	Future-proofing historical buildings for the clean energy transition	RIA	4-5	9	4.5	20/04/2023
HORIZON-CL5-2023-D4-01-03	Interoperable solutions for positive energy districts (PEDs), including a better integration of local renewables and local excess heat sources	IA	6-8	8	4	20/04/2023
HORIZON-CL5-2023-D4-01-04	Thermal management and energy optimisation of high energy demand IT systems equipment in tertiary buildings	RIA	4-5	6	3	20/04/2023
HORIZON-CL5-2023-D4-01-05	Innovative solutions for cost-effective decarbonisation of buildings through energy efficiency and electrification	IA	6-8	25	12.5	20/04/2023
HORIZON-CL5-2023-D4-01-06	Integration of renewable heat or industrial waste heat in heat-to-cold conversion systems to generate cold for industrial processes	IA	7	20	10	20/04/2023
HORIZON-CL5-2023-D4-02-01	Innovative uses of lifecycle data for the management of buildings and buildings portfolios (Built4People Partnership)	IA	6-8	10	5	05/09/2023
HORIZON-CL5-2023-D4-02-02	Solutions for the identification of vulnerable buildings and people-centric built environment, and for improving their resilience in disruptive events and altered conditions in a changing climate (Built4People Partnership)	IA	6-8	10	5	05/09/2023
HORIZON-CL5-2023-D4-02-03	Demonstrate built-environment decarbonisation pathways through bottom-up technological, social and policy innovation for adaptive integrated sustainable renovation solutions (Built4People Partnership)	IA	6-8	12	6	05/09/2023
HORIZON-CL5-2023-D4-02-04	Fast-tracking and promoting built environment construction and renovation innovation with local value chains (Built4People Partnership)	CSA	n/a	2	2	05/09/2023
HORIZON-CL5-2023-D4-02-05	Supporting the creation of an accessible and inclusive built environment (Built4People Partnership)	IA	6-8	10	5	05/09/2023
HORIZON-CL5-2024-D4-01-01	Low-disruptive renovation processes using integration of prefabricated solutions for energy-efficient buildings	IA	6-8	10	5	18/04/2024
HORIZON-CL5-2024-D4-01-02	Smart grid-ready buildings	IA	6-8	10	5	18/04/2024
HORIZON-CL5-2024-D4-01-03	Alternative heating systems for efficient, flexible and electrified heat generation in industry	IA	6-7	16	5.3	18/04/2024
HORIZON-CL5-2024-D4-02-01	Industrialisation of sustainable and circular deep renovation workflows (Built4People Partnership)	IA	6-8	16	8	05/09/2024
HORIZON-CL5-2024-D4-02-02	Robotics and other automated solutions for construction, renovation and maintenance in a sustainable built environment (Built4People Partnership)	RIA	4-5	8	4	05/09/2024
HORIZON-CL5-2024-D4-02-03	BIM-based processes and digital twins for facilitating and optimising circular energy renovation (Built4People Partnership)	IA	6-8	8	4	05/09/2024
HORIZON-CL5-2024-D4-02-04	Design for adaptability, re-use and deconstruction of buildings, in line with the principles of circular economy (Built4People Partnership)	RIA	5-6	8	4	05/09/2024
HORIZON-CL5-2024-D4-02-05	Digital solutions to foster participative design, planning and management of buildings, neighbourhoods and urban districts (Built4People Partnership)	IA	6-8	10	5	05/09/2024



# Partnerschappen Cluster 5: Energy

## Clean Energy Transition Partnership (CETP)



### Doel

Ondersteunen van energie-innovatie heel breed

### Start

Eerste call gepubliceerd op 14 september 2022

### EU budget

210 miljoenen euro

### NL budget

Ja

### Website

RVO website CETPartnership  
Website CETPartnership

### Contact

Gerdi Breembroek  
Rebecca van Leeuwen-Jones

## Driving Urban Transitions to a sustainable future (DUT)



### Doel

Ondersteunen van innovatie voor steden voor zo wel mitigatie als adaptatie van en aan klimaatverandering.

### Start

Eerste call gepubliceerd op 21 september 2022

### EU budget

130 miljoenen euro

### NL budget

Ja

### Website

NWO website  
Website DUT partnership



# Partnerschappen Cluster 5: Energy

Partnerschap Clean Hydrogen Joint Undertaking								
Topicnr	Section	Topic naam	Projecttype	TRL bij start	TRL bij einde	Budget totaal (M)	Budget per project (M)	Deadline
HORIZON-JTI-CLEANH2-2023-01-01	Renewable hydrogen production	Innovative electrolysis cells for hydrogen production	RIA	2	4	6	3	18/04/2023
HORIZON-JTI-CLEANH2-2023-01-02	Renewable hydrogen production	Innovative Solid Oxide electrolysis cells for intermediate temperature hydrogen production	RIA	2	4	3	3	18/04/2023
HORIZON-JTI-CLEANH2-2023-01-03	Renewable hydrogen production	Advances in alkaline electrolysis technology	RIA	3	5	2,5	2,5	18/04/2023
HORIZON-JTI-CLEANH2-2023-01-04	Renewable hydrogen production	Photoelectrochemical (PEC) and/or Photocatalytic (PC) production of hydrogen	RIA	2-3	5	2,5	2,5	18/04/2023
HORIZON-JTI-CLEANH2-2023-01-05	Renewable hydrogen production	Waste to Hydrogen demonstration plant	IA	5	7	10	10	18/04/2023
HORIZON-JTI-CLEANH2-2023-01-06	Renewable hydrogen production	Valorisation of by-product O2 and/or heat from electrolysis	IA		7-8	10	10	18/04/2023
HORIZON-JTI-CLEANH2-2023-01-07	Renewable hydrogen production	Hydrogen use by an industrial cluster via a local pipeline network	IA		8	15	15	18/04/2023
HORIZON-JTI-CLEANH2-2023-02-01	Hydrogen storage and distribution	Large-scale demonstration of underground hydrogen storage	IA		8	20	20	18/04/2023
HORIZON-JTI-CLEANH2-2023-02-02	Hydrogen storage and distribution	Pre-Normative Research about the compatibility of transmission gas grid steels with hydrogen and development of mitigation	RIA	3	5	4	4	18/04/2023
HORIZON-JTI-CLEANH2-2023-02-03	Hydrogen storage and distribution	Novel insulation concepts for LH2 storage tanks	RIA	2	3	2	2	18/04/2023
HORIZON-JTI-CLEANH2-2023-02-04	Hydrogen storage and distribution	Demonstration of high pressure (500-700 bar) supply chain	IA	6	8	5	5	18/04/2023
HORIZON-JTI-CLEANH2-2023-02-05	Hydrogen storage and distribution	Demonstration of LH2 HRS for Heavy Duty applications	IA	4	6-7	5	5	18/04/2023
HORIZON-JTI-CLEANH2-2023-03-01	Hydrogen end uses: transport applications	Real environment demonstration of Non-Road Mobile Machinery (NRMM)	IA	4-5	7	10	5	18/04/2023
HORIZON-JTI-CLEANH2-2023-03-02	Hydrogen end uses: transport applications	Development of a large fuel cell stack for maritime applications	RIA	4	6	7,5	7,5	18/04/2023



# Partnerschappen Cluster 5: Energy

Partnerschap Clean Hydrogen Joint Undertaking								
Topicnr	Section	Topic naam	Projecttype	TRL bij start	TRL bij einde	Budget totaal (M)	Budget per project (M)	Deadline
HORIZON-JTI-CLEANH2-2023-03-03	Hydrogen end uses: transport applications	Ultra-low NOx combustion system for aviation	RIA		4	8	8	18/04/2023
HORIZON-JTI-CLEANH2-2023-04-01	Hydrogen end uses: clean heat and power	Development and validation of high power and impurity tolerant fuel cell systems ready to run on industrial quality dry hydrogen	RIA	3	5	4	4	18/04/2023
HORIZON-JTI-CLEANH2-2023-04-02	Hydrogen end uses: clean heat and power	Research on fundamental combustion physics, flame velocity and structure, pathways of emissions formation for hydrogen and variable blends of hydrogen, including ammonia	RIA	2	4	3	3	18/04/2023
HORIZON-JTI-CLEANH2-2023-04-03	Hydrogen end uses: clean heat and power	Retrofitting of existing industrial sector natural gas turbomachinery cogeneration systems for hydrogen combustion	IA	5	7	6	6	18/04/2023
HORIZON-JTI-CLEANH2-2023-04-04	Hydrogen end uses: clean heat and power	Hydrogen for heat production for hard-to-abate industries (e.g. retrofitted burners, furnaces)	IA	5	7	6	6	18/04/2023
HORIZON-JTI-CLEANH2-2023-05-01	Cross-cutting	Product environmental footprint pilot for a set of FCH product categories	CSA	n.v.t.	n.v.t.	1,5	1,5	18/04/2023
HORIZON-JTI-CLEANH2-2023-05-02	Cross-cutting	European Hydrogen Academy	CSA	n.v.t.	n.v.t.	3	3	18/04/2023
HORIZON-JTI-CLEANH2-2023-05-03	Cross-cutting	Pre-Normative Research on the determination of hydrogen releases from the hydrogen value chain	RIA			3	3	18/04/2023
HORIZON-JTI-CLEANH2-2023-06-01	Hydrogen valleys	Large-scale Hydrogen Valley	IA	6	8	20	20	18/04/2023
HORIZON-JTI-CLEANH2-2023-06-02	Hydrogen valleys	Small-scale Hydrogen Valley	IA	6	8	18	9	18/04/2023
HORIZON-JTI-CLEANH2-2023-07-01	Strategic research challenges	Advanced materials for hydrogen storage tanks	RIA	2	4	10	10	18/04/2023
HORIZON-JTI-CLEANH2-2023-07-02	Strategic research challenges	Increasing the lifetime of electrolyser stacks	RIA	2	4,5	10	10	18/04/2023



# Cluster 5: Climate - Energy - Mobility

## Contact

Fatma Saçli

fatma.sacli@rvo.nl

[www.rvo.nl/subsidies-financiering/horizon-europe/cluster-5](http://www.rvo.nl/subsidies-financiering/horizon-europe/cluster-5)

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Pillar 2

Topicnr	Section	Topic naam	Projecttype	TRL bij einde	Budget totaal (M)	Budget per project (M)	Deadline
HORIZON-CL5-2023-D5-01-01	Zero-emission road transport	User-centric design and operation of EV for optimized energy efficiency (2ZERO Partnership)	IA	6	15	4-5	20/04/2023
HORIZON-CL5-2023-D5-01-02	Zero-emission road transport	Innovative battery management systems for next generation vehicles (2ZERO & Batt4EU Partnership)	IA	6	10	5	20/04/2023
HORIZON-CL5-2023-D5-01-03	Zero-emission road transport	Frugal zero-emission vehicles concepts for the urban passenger challenge (2ZERO Partnership)	IA	7-8	20	7-12	20/04/2023
HORIZON-CL5-2023-D5-01-04	Zero-emission road transport	Circular economy approaches for zero emission vehicles (2ZERO Partnership)	RIA	5	12	12	20/04/2023
HORIZON-CL5-2023-D5-01-05	Zero-emission road transport	Measuring road transport results towards 2ZERO KPIs (2ZERO Partnership)	CSA	n.a.	1	1	20/04/2023
HORIZON-CL5-2023-D5-01-06	Zero-emission road transport	EU Member States/Associated countries research policy cooperation network to accelerate zero-emission road mobility (2ZERO Partnership)	CSA	n.a.	1,5	1,5	20/04/2023
HORIZON-CL5-2023-D5-01-07	Aviation	Hydrogen-powered aviation	IA	6	20	8-10	20/04/2023
HORIZON-CL5-2023-D5-01-08	Aviation	Accelerating climate-neutral hydrogen powered/electrified aviation	RIA	2-3	17	3-4	20/04/2023
HORIZON-CL5-2023-D5-01-09	Aviation	Competitiveness and digital transformation in aviation – advancing further capabilities, digital approach to design	RIA	2-4	15	3-5	20/04/2023
HORIZON-CL5-2023-D5-01-10	Aviation	Aviation research synergies between Horizon Europe, AZEA and National programs	CSA	n.a.	2	2	20/04/2023
HORIZON-CL5-2023-D5-01-11	Waterborne transport	Developing the next generation of power conversion technologies for sustainable alternative carbon neutral fuels in waterborne applications (ZEWT Partnership)	RIA	5	16	8	20/04/2023
HORIZON-CL5-2023-D5-01-12	Waterborne transport	Demonstrations to accelerate the switch to safe use of new sustainable climate neutral fuels in waterborne transport (ZEWT Partnership)	IA	7-8	34	8-13	20/04/2023



# Cluster 5: Climate - Energy - Mobility

Topicnr	Section	Topic naam	Projecttype	TRL bij einde	Budget totaal (M)	Budget per project (M)	Deadline
HORIZON-CL5-2023-D5-01-13	Waterborne transport	Integrated real-time digital solutions to optimise navigation and port calls to reduce emissions from shipping (ZEWT Partnership)	IA	6-8	15	7,5	20/04/2023
HORIZON-CL5-2023-D5-01-14	Waterborne transport	Developing a flexible offshore supply of zero emission auxiliary power for ships moored or anchored at sea deployable before 2030 (ZEWT Partnership)	IA	6-8	8,5	8,5	20/04/2023
HORIZON-CL5-2023-D5-01-15	Waterborne transport	Reducing the environmental impact from shipyards and developing a whole life strategy to measure and minimise the non-operational environmental impacts from shipping	IA	7-8	9	4,5	20/04/2023
HORIZON-CL5-2023-D5-01-16	Waterborne transport	Developing small, flexible, zero-emission and automated vessels to support shifting cargo from road to sustainable Waterborne Transport	RIA	5-6	9	4,5	20/04/2023
HORIZON-CL5-2023-D5-01-17	Waterborne transport	Towards the implementation of the inland navigation action programme with a focus on Green and Connected Inland Waterway Transport	CSA	n.a.	1,5	1,5	20/04/2023
HORIZON-CL5-2023-D5-01-18	Transport-related health and environment	Advanced transport emissions monitoring networks	IA	7-8	10	5	20/04/2023
HORIZON-CL5-2023-D5-01-19	Cross-cutting actions	Support for the organisation of EU-US symposia in the field of Transport Research	CSA	n.a.	0,5	0,5	20/04/2023
HORIZON-CL5-2024-D5-01-01	Zero-emission road transport	Smart, low-cost pervasive stationary slow charging and bi-directional solutions synergic with the grid for EV mass deployment (2ZERO Partnership)	IA	7-8	15	7-8	18/04/2024
HORIZON-CL5-2024-D5-01-02	Zero-emission road transport	Integration and testing of next generation post-800V electric powertrains (2ZERO Partnership)	RIA	5	15	4-6	18/04/2024
HORIZON-CL5-2024-D5-01-03	Zero-emission road transport	Advanced battery system integration for next generation vehicles (2ZERO Partnership)	RIA	5	10	5	18/04/2024
HORIZON-CL5-2024-D5-01-04	Zero-emission road transport	Integrated flexible multipoint megawatt charging systems for electric truck mass deployment (2ZERO Partnership) (2024)	IA	8	17	7-8,5	18/04/2024
HORIZON-CL5-2024-D5-01-05	Zero-emission road transport	Advanced digital development tools to accelerate the development of software defined vehicles that enable zero-emission mobility (2ZERO Partnership)	RIA	4-5	10	4-5	18/04/2024
HORIZON-CL5-2024-D5-01-06	Zero-emission road transport	New designs, shapes, functionalities of Light Commercial Vehicles (2ZERO Partnership)	IA	7-8	10	10	18/04/2024
HORIZON-CL5-2024-D5-01-07	Aviation	Accelerating climate neutral aviation, minimising non-CO2 emissions	RIA	2-4	17	4-5	18/04/2024
HORIZON-CL5-2024-D5-01-08	Aviation	Competitiveness and digital transformation in aviation – advancing further composite aerostructures	RIA	2-4	16	3-5	18/04/2024
HORIZON-CL5-2024-D5-01-09	Aviation	Impact monitoring of EU Aviation R&I	RIA	n.a.	8	8	18/04/2024





# Cluster 5: Climate - Energy - Mobility

Topicnr	Section	Topic naam	Projecttype	TRL bij einde	Budget totaal (M)	Budget per project (M)	Deadline
HORIZON-CL5-2024-D5-01-10	Aviation	Towards a flying testbed for European leadership in aviation	RIA	4-5	16	16	18/04/2024
HORIZON-CL5-2024-D5-01-11	Waterborne transport	Achieving high voltage, low weight, efficient electric powertrains for sustainable waterborne transport (ZEWT Partnership)	RIA	5	15	7,5	18/04/2024
HORIZON-CL5-2024-D5-01-12	Waterborne transport	Combining state-of-the-art emission reduction and efficiency improvement technologies in ship design and retrofitting for contributing to the "Fit for 55" package objective by 2030 (ZEWT Partnership)	IA	7	15	7,5	18/04/2024
HORIZON-CL5-2024-D5-01-13	Waterborne transport	Demonstration of Technologies to minimise underwater noise generated by waterborne transport (ZEWT Partnership)	IA	6-8	6	6	18/04/2024
HORIZON-CL5-2024-D5-01-14	Waterborne transport	Demonstrating efficient fully DC electric grids within waterborne transport for large ship applications (ZEWT Partnership)	IA	6-8	15	7,5	18/04/2024
HORIZON-CL5-2024-D5-01-15	Waterborne transport	Advanced digitalisation and modelling utilizing operational and other data to support zero emission waterborne transport (ZEWT Partnership)	IA	6-7	7,7	7,7	18/04/2024
HORIZON-CL5-2024-D5-01-16	Waterborne transport	Structuring the Waterborne transport sector, including through changed business and industrial models in order to achieve commercial zero-emission waterborne transport (ZEWT Partnership)	CSA	n.a.	0,85	0,85	18/04/2024
HORIZON-CL5-2024-D5-01-17	Waterborne transport	Coordinating and supporting the combined activities of member and associated states towards the objectives of the Zero Emission Waterborne Transport partnership so as to increase synergies and impact (ZEWT Partnership)	CSA	n.a.	1,5	1,5	18/04/2024
HORIZON-CL5-2024-D5-01-18	Transport-related health and environment	Assessment of air pollutant emissions from low-carbon fuels in the heavy-duty, aviation, and maritime sectors	RIA	5-6	7	3,5	18/04/2024
HORIZON-CL5-2023-D6-01-01	Connected, Cooperative and Automated Mobility (CCAM)	User-centric development of vehicle technologies and solutions to optimise the on-board experience and ensure inclusiveness (CCAM Partnership)	RIA	5	8	4	05/09/2023
HORIZON-CL5-2023-D6-01-02	Connected, Cooperative and Automated Mobility (CCAM)	Generation of scenarios for development, training, virtual testing and validation of CCAM systems (CCAM Partnership)	RIA	5	20	20	05/09/2023
HORIZON-CL5-2023-D6-01-03	Connected, Cooperative and Automated Mobility (CCAM)	Infrastructure-enabled solutions for improving the continuity or extension of Operational Design Domains (ODDs) (CCAM Partnership)	IA	6-7	12	6	05/09/2023
HORIZON-CL5-2023-D6-01-04	Connected, Cooperative and Automated Mobility (CCAM)	Integrating European diversity in the design, development and implementation of CCAM solutions to support mobility equity (CCAM Partnership)	RIA	n.a.	8	3-4	05/09/2023
HORIZON-CL5-2023-D6-01-05	Connected, Cooperative and Automated Mobility (CCAM)	CCAM effects on jobs and education, plans for skills that match the CCAM development, and prerequisites for employment growth (CCAM Partnership)	RIA	n.a.	2	2	05/09/2023



# Cluster 5: Climate - Energy - Mobility

Topicnr	Section	Topic naam	Projecttype	TRL bij einde	Budget totaal (M)	Budget per project (M)	Deadline
HORIZON-CL5-2023-D6-01-06	Multimodal transport, infrastructure and logistics	Zero-emission e-commerce and freight delivery and return choices by retailers, consumers and local authorities	RIA	5	6	3	05/09/2023
HORIZON-CL5-2023-D6-01-07	Multimodal transport, infrastructure and logistics	Operational automation to support multimodal freight transport	RIA	5	8	4	05/09/2023
HORIZON-CL5-2023-D6-01-08	Multimodal transport, infrastructure and logistics	Future-proof GHG and environmental emissions factors for accounting emissions from transport and logistics operations	CSA	n.a.	3	3	05/09/2023
HORIZON-CL5-2023-D6-01-09	Multimodal transport, infrastructure and logistics	Climate resilient and safe maritime ports	IA	7	14	7	05/09/2023
HORIZON-CL5-2023-D6-01-10	Safety and resilience	Better infrastructure safety on urban and secondary rural roads throughout a combination of adaptable monitoring and maintenance solutions	RIA	5-6	10	5	05/09/2023
HORIZON-CL5-2023-D6-01-11	Safety and resilience	Aviation safety - Uncertainty quantification for safety and risk management	RIA	3-5	8	4	05/09/2023
HORIZON-CL5-2023-D6-01-12	Safety and resilience	New ways of reducing serious injuries and the long term consequences of road crashes	RIA	5-6	8	4	05/09/2023
HORIZON-CL5-2023-D6-01-13	Cross-cutting actions	Support for dissemination events in the field of Transport Research	CSA	n.a.	1,5	1,5	05/09/2023
HORIZON-CL5-2024-D6-01-01	Connected, Cooperative and Automated Mobility (CCAM)	Centralised, reliable, cyber-secure & upgradable invehicle electronic control architectures for CCAM connected to the cloud-edge continuum (CCAM Partnership)	RIA	5	12	6	05/09/2024
HORIZON-CL5-2024-D6-01-02	Connected, Cooperative and Automated Mobility (CCAM)	Scenario-based safety assurance of CCAM and related HMI in a dynamically evolving transport system (CCAM Partnership)	RIA	5	14	14	05/09/2024
HORIZON-CL5-2024-D6-01-03	Connected, Cooperative and Automated Mobility (CCAM)	Orchestration of heterogeneous actors in mixed traffic within the CCAM ecosystem (CCAM Partnership)	IA	6-7	12	6	05/09/2024
HORIZON-CL5-2024-D6-01-04	Connected, Cooperative and Automated Mobility (CCAM)	AI for advanced and collective perception and decision making for CCAM applications (CCAM Partnership)	RIA	5	10	5	05/09/2024
HORIZON-CL5-2024-D6-01-05	Connected, Cooperative and Automated Mobility (CCAM)	Robust Knowledge and Know-How transfer for Key Deployment Pathways and implementation of the EU-CEM (CCAM Partnership)	CSA	n.a.	4	4	05/09/2024
HORIZON-CL5-2024-D6-01-06	Multimodal transport, infrastructure and logistics	Optimising multimodal network and traffic management, harnessing data from infrastructures, mobility of passengers and freight transport	RIA	5	10	4-5	05/09/2024
HORIZON-CL5-2024-D6-01-07	Multimodal transport, infrastructure and logistics	Scaling up logistics innovations supporting freight transport decarbonisation in an affordable way	IA	7	20	10	05/09/2024



# Cluster 5: Climate - Energy - Mobility

Topicnr	Section	Topic naam	Projecttype	TRL bij einde	Budget totaal (M)	Budget per project (M)	Deadline
HORIZON-CL5-2024-D6-01-08	Multimodal transport, infrastructure and logistics	Improved transport infrastructure performance – Innovative digital tools and solutions to monitor and improve the management and operation of transport infrastructure	IA	7	15	5	05/09/2024
HORIZON-CL5-2024-D6-01-09	Multimodal transport, infrastructure and logistics	Policies and governance shaping the future transport and mobility systems	RIA	n.a.	3	3	05/09/2024
HORIZON-CL5-2024-D6-01-10	Safety and resilience	Ensuring the safety, resilience and security of waterborne digital systems	RIA	5-6	8,5	4	05/09/2024
HORIZON-CL5-2024-D6-01-11	Safety and resilience	Effects of disruptive changes in transport: towards resilient, safe and energy efficient mobility	RIA	na.	7	3-3,5	05/09/2024
HORIZON-CL5-2024-D6-01-12	Safety and resilience	A new framework to improve traffic safety culture in the EU	RIA	n.a.	7	3,5	05/09/2024



# Partnerschappen Cluster 5: Mobility

## Clean Aviation Joint Undertaking (CAJU)



### Doel

Ontwikkelen van disruptieve en nieuwe vliegtuigtechnologieën ter ondersteuning van de Europese Green Deal en klimaatneutraliteit tegen 2050.

### Start

Eerste call 23 maart 2022.  
Tweede call 9 februari 2023.

### EU budget

€ 653,91M (1e call)  
€ 137,75M (2e call)

### NL budget

Ja

### Website

Website CAJU

### Contact

Fatma Saçli

## Single European Sky ATM Research 3 (SESAR 3 Joint Undertaking)



### Doel

Versnellen van de realisatie van de European Digital Sky. De joint undertaking benut, ontwikkelt en versnelt de acceptatie van de meest geavanceerde technologische oplossingen voor het beheer van conventionele vliegtuigen, drones, lucht taxi's en voertuigen die op grotere hoogte vliegen.

### Website

Website SESAR3

## Europe's Rail Joint Undertaking



### Doel

Via een geïntegreerde systeembenadering een flexibel, multimodaal, duurzaam, betrouwbaar en geïntegreerd EU-spoorwagennet met hoge capaciteit voor Europese passagiers en vracht tot stand brengen.

### Website

Website Europe's Rail

## Connected, Cooperative and Automated Mobility (CCAM) Partnership

### Doel

CCAM Partnerschap heeft twee hoofddoelen:

- Effecten beoordelen en inzicht krijgen in gebruikers- en maatschappelijke effecten om Europese Research & Innovation inspanningen te harmoniseren om het bewustzijn en de implementatie van innovatieve CCAM-technologieën en -diensten te versnellen.
- Benutten van de volledige systemische voordelen van nieuwe mobiliteitsoplossingen mogelijk gemaakt door CCAM: meer veiligheid, minder impact op het milieu en inclusiviteit.

### Website

Website CCAM

### Contact

Fatma Saçli



# Partnerschappen Cluster 5: Mobility

## Zero-emission Waterborne Transport Partnership



### Doel

Bieden en demonstreren van emissievrije oplossingen vóór 2030 voor alle belangrijke sloopstypes en -diensten, die vóór 2050 emissievrij vervoer over water mogelijk zullen maken.

### Website

Website Waterborne

### Contact

Fatma Saçli

## Zero-emission Road Transport Partnership



### Doel

Versnellen van de transitie naar een Europees CO<sub>2</sub>-neutraal wegvervoersysteem tegen 2050.

### Website

Website zZero

### Contact

Fatma Saçli

# Partnerschappen Cluster 5: Mobility

Topicnr	Section	Topic naam	Projecttype	TRL bij start	TRL bij einde	Budget totaal (M)	Budget per project (M)	Deadline
HORIZON-JU-CLEAN-AVIATION-2022-01-HPA-01	Hydrogen powered aircraft (HPA)	Hydrogen Fuel System for Direct Burn Engine Ground Test Execution and Flight Test Preparation	IA		6	20	20	11/05/2023
HORIZON-JU-CLEAN-AVIATION-2022-01-HPA-02	Hydrogen powered aircraft (HPA)	Aircraft Liquid Hydrogen Fuel Distribution System Technologies for Direct Burn Applications	IA		5	10	10	11/05/2023
HORIZON-JU-CLEAN-AVIATION-2022-01-HPA-03	Hydrogen powered aircraft (HPA)	Multi-MW Fuel Cell Propulsion System for Hydrogen-Powered Aircraft	IA		4-5	35	35	11/05/2023
HORIZON-JU-CLEAN-AVIATION-2022-01-HER-01	Hybrid-electric powered Regional Aircraft (HER)	Innovative Fuselage/Empennage Design for Hybrid-Electric Regional Aircraft	IA	3	5	25	25	11/05/2023
HORIZON-JU-CLEAN-AVIATION-2022-01-HER-02	Hybrid-electric powered Regional Aircraft (HER)	Open Digital Platform for Hybrid-Electric Regional Aircraft Design	IA	3	5	7	7	11/05/2023
HORIZON-JU-CLEAN-AVIATION-2022-01-SMR-01	Short/short-medium range Aircraft (SMR)	High-TRL Flight Demonstration Means for Ultra Efficient Propulsion Systems for Short and Short-Medium Range Aircraft	IA			20	20	11/05/2023
HORIZON-JU-CLEAN-AVIATION-2022-01-SMR-02	Short/short-medium range Aircraft (SMR)	Ultra Performance Wing Technologies and Integration for Short and Short-medium Range Aircraft	IA		4	13	13	11/05/2023
HORIZON-JU-CLEAN-AVIATION-2022-01-SMR-03	Short/short-medium range Aircraft (SMR)	Advanced Cabin and Cabin Systems Integration for Short Range and Short-Medium Range for Hydrogen-Powered Aircraft	IA		4	7	7	11/05/2023
HORIZON-JU-CLEAN-AVIATION-2022-01-CSA-01	Coordination and Support Actions (CSA)	Aviation Climate and Technology Impact Monitoring Methodology	CSA	n.v.t.	n.v.t.	0,75	0,75	11/05/2023



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

## Contact

Saske Hoving [saske.hoving@rvo.nl](mailto:saske.hoving@rvo.nl)  
 Suraj Jamge [suraj.jamge@rvo.nl](mailto:suraj.jamge@rvo.nl)  
 Alexander van Dorssen [alexander.vandorssen@rvo.nl](mailto:alexander.vandorssen@rvo.nl)  
 Algemeen [horizon.cluster6@rvo.nl](mailto:horizon.cluster6@rvo.nl)  
[www.rvo.nl/subsidies-financiering/horizon-europe/cluster-6](http://www.rvo.nl/subsidies-financiering/horizon-europe/cluster-6)

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op de website van de EC [↗](#)

Topicnr	Topic naam	Projecttype	TRL bij einde	Budget totaal	Budget per project	Deadline	Deadline 2e stap
<b>Destination – Biodiversity and Ecosystem Services</b>							
<b>Call - Biodiversity and ecosystem services</b>							
<b>Understanding and addressing the main drivers of biodiversity loss</b>							
HORIZON-CL6-2023-BIODIV-01-1	Better understanding of routes of exposure and toxicological and ecological impacts of chemical pollution on terrestrial biodiversity	RIA		22	5,5	28-03-2023	
HORIZON-CL6-2023-BIODIV-01-2	Impact of light and noise pollution on biodiversity	RIA		7	3,5	28-03-2023	
HORIZON-CL6-2023-BIODIV-01-3	Interdisciplinary assessment of changes affecting terrestrial and freshwater ecosystems, building on observation programmes	RIA		6	6	28-03-2023	
<b>Biodiversity protection and restoration</b>							
HORIZON-CL6-2023-BIODIV-01-4	Nature protection: Better methods and knowledge to improve the conservation status of EU-protected species and habitats	RIA		8	4	28-03-2023	
HORIZON-CL6-2023-BIODIV-01-5	Understanding and reducing bycatch of protected species	RIA		18	9	28-03-2023	
HORIZON-CL6-2023-BIODIV-01-6	Restoration of deep-sea habitats	IA	5-6	10	10	28-03-2023	
HORIZON-CL6-2023-BIODIV-01-7	Demonstration of marine and coastal infrastructures as hybrid blue-grey Nature-based Solutions	IA	5-7	10	5	28-03-2023	
<b>Mainstreaming biodiversity in society and the economy</b>							
HORIZON-CL6-2023-BIODIV-01-8	Addressing biodiversity decline and promoting Nature-based Solutions in higher education	CSA		3	3	28-03-2023	
HORIZON-CL6-2023-BIODIV-01-9	Biodiversity, economics and finance: unlocking financial flows towards reversing of biodiversity loss	RIA		5	5	28-03-2023	



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

Topicnr	Topic naam	Projecttype	TRL bij einde	Budget totaal (M)	Budget per project (M)	Deadline	Deadline 2e stap
HORIZON-CL6-2023-BIODIV-01-10	Build up of knowledge on Nature Positive Economy and supporting its scale-up	RIA		5	5	28-03-2023	
HORIZON-CL6-2023-BIODIV-01-11	Biodiversity loss and enhancing ecosystem services in urban and peri-urban areas	RIA		5	5	28-03-2023	
HORIZON-CL6-2023-BIODIV-01-12	Reinforcing science policy support with IPBES and IPCC for better interconnected biodiversity and climate policies	CSA		4	4	28-03-2023	
<b>Biodiversity friendly practices in agriculture, forestry and aquaculture</b>							
HORIZON-CL6-2023-BIODIV-01-13	Crop wild relatives for sustainable agriculture	RIA		12	6	28-03-2023	
HORIZON-CL6-2023-BIODIV-01-14	Biodiversity friendly practices in agriculture – breeding for Integrated Pest Management (IPM)	RIA		10	5	28-03-2023	
HORIZON-CL6-2023-BIODIV-01-15	Integrative forest management for multiple ecosystem services and enhanced biodiversity	CSA		7	7	28-03-2023	
HORIZON-CL6-2023-BIODIV-01-16	Valorisation of ecosystem services provided by legume crops	RIA		10	5	28-03-2023	
<b>Biodiversity and health</b>							
HORIZON-CL6-2023-BIODIV-01-17	Interlinkages between biodiversity loss and degradation of ecosystems and the emergence of zoonotic diseases	RIA		12	4	28-03-2023	
<b>Interconnection of biodiversity research and policies</b>							
HORIZON-CL6-2023-BIODIV-01-18	Additional activities for the European Biodiversity Partnership: Biodiversa+	COFUND		60	60	28-03-2023	
<b>Call - Biodiversity and ecosystem services</b>							
<b>Understanding and addressing the main drivers of biodiversity loss</b>							
HORIZON-CL6-2024-BIODIV-01-1	Invasive alien species	IA	6-7	12	6	22-02-2024	
<b>Biodiversity protection and restoration</b>							
HORIZON-CL6-2024-BIODIV-01-2	Digital for nature	IA	6-7	16	8	22-02-2024	
<b>Mainstreaming biodiversity in society and the economy</b>							
HORIZON-CL6-2024-BIODIV-01-3	Dependence of society and the economy on pollinators	RIA		13	6,5	22-02-2024	
HORIZON-CL6-2024-BIODIV-01-4	Biodiversity, economics and finance: Understanding macro-financial risks associated with biodiversity loss	RIA		5	5	22-02-2024	
HORIZON-CL6-2024-BIODIV-01-5	Transformative action of policy mixes, governance and digitalisation addressing biodiversity loss	RIA		4	2	22-02-2024	





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

Topicnr	Topic naam	Projecttype	TRL bij einde	Budget totaal (M)	Budget per project (M)	Deadline	Deadline 2e stap
<b>Biodiversity friendly practices in agriculture, forestry and aquaculture</b>							
HORIZON-CL6-2024-BIODIV-01-6	Promoting pollinator friendly farming systems	RIA		6	6	22-02-2024	
HORIZON-CL6-2024-BIODIV-01-7	Reintroduction of landscape features in intensive agricultural areas	RIA		5	5	22-02-2024	
HORIZON-CL6-2024-BIODIV-01-8	Conservation and protection of carbon-rich and biodiversity-rich forest ecosystems	RIA		12	6	22-02-2024	
HORIZON-CL6-2024-BIODIV-01-9	Selective breeding programme for organic aquaculture	RIA	3-5	3	3	22-02-2024	
Call - Biodiversity and ecosystem services							
Mainstreaming biodiversity in society and the economy							
HORIZON-CL6-2024-BIODIV-02-1-two-stage	Demonstrating Nature-based Solutions for the sustainable management of water resources in a changing climate, with special attention to reducing the impacts of extreme droughts	IA		16	8	22-02-2024	17-09-2024
<b>Mainstreaming biodiversity in society and the economy</b>							
HORIZON-CL6-2024-BIODIV-02-2-two-stage	Demonstrating the potential of Nature-based Solutions and the New European Bauhaus to contribute to sustainable, inclusive and resilient living spaces and communities	IA		10	5	22-02-2024	17-09-2024
<b>Biodiversity friendly practices in agriculture, forestry and aquaculture</b>							
HORIZON-CL6-2024-BIODIV-02-3-two-stage	Promoting minor crops in farming systems	RIA		10	5	22-02-2024	17-09-2024
<b>Destination - Fair, healthy and environment-friendly food systems from primary production to consumption</b>							
<b>Call - Fair, healthy and environmentally-friendly food systems from primary production to consumption</b>							
<b>Enabling sustainable farming systems</b>							
HORIZON-CL6-2023-FARM2FORK-01-1	European partnership on accelerating farming systems transition – agroecology living labs and research infrastructures	COFUND		60	60	12-04-2023	
HORIZON-CL6-2023-FARM2FORK-01-2	European partnership on animal health and welfare	COFUND		60	60	12-04-2023	
HORIZON-CL6-2023-FARM2FORK-01-3	Improving yields in organic cropping systems	CSA		8	4	12-04-2023	
HORIZON-CL6-2023-FARM2FORK-01-4	Towards research and innovation beyond farm to fork strategy targets for pesticides after 2030	CSA		1	1	12-04-2023	



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

Topicnr	Topic naam	Projecttype	TRL bij einde	Budget totaal (M)	Budget per project (M)	Deadline	Deadline 2e stap
HORIZON-CL6-2023-FARM2FORK-01-5	Advancing vaccine development for African swine fever	RIA		12	6	12-04-2023	
HORIZON-CL6-2023-FARM2FORK-01-6	Towards sustainable livestock systems: European platform for evidence building and transitioning policy	RIA		5	5	12-04-2023	
HORIZON-CL6-2023-FARM2FORK-01-7	Innovations in plant protection: alternatives to reduce the use of pesticides focusing on candidates for substitution	IA	6-7	12	6	12-04-2023	
<b>Enabling sustainable fisheries and aquaculture</b>							
HORIZON-CL6-2023-FARM2FORK-01-8	Using automatic species recognition and artificial intelligence to fight illegal fish discards and revolutionise fisheries control	IA	6-7	5	5	12-04-2023	
<b>Transforming food systems for health, sustainability and inclusion</b>							
HORIZON-CL6-2023-FARM2FORK-01-9	European partnership on sustainable food systems for people, planet and climate	COFUND		45	45	12-04-2023	
HORIZON-CL6-2023-FARM2FORK-01-10	Eradicate micronutrient deficiencies in the EU	RIA		9	9	12-04-2023	
HORIZON-CL6-2023-FARM2FORK-01-11	New detection methods on products derived from new genomic techniques for traceability, transparency and innovation in the food system	RIA	4-5	10	5	12-04-2023	
HORIZON-CL6-2023-FARM2FORK-01-12	Thematic network ensuring food safety by translating research and innovation into practice	CSA		2	2	12-04-2023	
HORIZON-CL6-2023-FARM2FORK-01-13	Cultured meat and cultured seafood – state of play and future prospects in the EU	RIA		7	7	12-04-2023	
HORIZON-CL6-2023-FARM2FORK-01-14	Providing marketing solutions to prevent and reduce the food waste related to marketing standards	RIA		10	5	12-04-2023	
HORIZON-CL6-2023-FARM2FORK-01-15	Fostering resilient European food systems in a changing world	RIA		8	8	12-04-2023	
HORIZON-CL6-2023-FARM2FORK-01-16	Microbiomes fighting food waste through applicable solutions in food processing, packaging and shelf life	IA	6-7	10	5	12-04-2023	
<b>Targeted international cooperation</b>							
HORIZON-CL6-2023-FARM2FORK-01-17	EU-African Union cooperation – linking the activities of the Food and Nutrition Security and Sustainable Agriculture (FNSSA) partnership and those of the Pan-African Network for Economic Analysis of Policies (PANAP)	CSA		4	4	12-04-2023	



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

Topicnr	Topic naam	Projecttype	TRL bij einde	Budget totaal (M)	Budget per project (M)	Deadline	Deadline 2e stap
HORIZON-CL6-2023-FARM2FORK-01-18	Support for the implementation of a sustainable platform for the EU-African Union cooperation under the Food and Nutrition Security and Sustainable Agriculture (FNSSA) partnership	CSA		4	4	12-04-2023	
HORIZON-CL6-2023-FARM2FORK-01-19	Support to the markets and trade of agroecological food products under the Food and Nutrition Security and Sustainable Agriculture (FNSSA) partnership	IA		7	7	12-04-2023	
HORIZON-CL6-2023-FARM2FORK-01-20	EU-Africa Union – food safety	RIA		10	5	12-04-2023	
<b>Call - Fair, healthy and environmentally-friendly food systems from primary production to consumption</b>							
<b>Enabling sustainable farming systems</b>							
HORIZON-CL6-2024-FARM2FORK-01-1	Agro-pastoral/outdoor livestock systems and wildlife management	RIA		5	5	22-02-2024	
<b>Transforming food systems for health, sustainability and inclusion</b>							
HORIZON-CL6-2024-FARM2FORK-01-2	New healthy and sustainable food products and processes	RIA	4-5	10	5	22-02-2024	
HORIZON-CL6-2024-FARM2FORK-01-3	Thematic network tackling food fraud by translating research and innovation into practice	CSA		2	2	22-02-2024	
HORIZON-CL6-2024-FARM2FORK-01-4	Climate change and food safety: effects of climate change on food safety across food systems	RIA		8	4	22-02-2024	
HORIZON-CL6-2024-FARM2FORK-01-5	Creating smart and attractive tools to enhance healthy and sustainable food provision, eating and treating of food at home	IA	6-8	6	3	22-02-2024	
HORIZON-CL6-2024-FARM2FORK-01-6	Citizens' science as an opportunity to foster the transition to sustainable food systems	RIA	3-5	10	5	22-02-2024	
HORIZON-CL6-2024-FARM2FORK-01-7	Impact of the development of novel foods based on alternative sources of proteins	RIA		9	4,5	22-02-2024	
HORIZON-CL6-2024-FARM2FORK-01-8	Preventing and reducing food waste to reduce environmental impacts and to help reach 2030 climate targets	RIA		9	4,5	22-02-2024	
HORIZON-CL6-2024-FARM2FORK-01-9	Microbiome for flavour and texture in the organoleptic dietary shift	IA	6-8	9	4,5	22-02-2024	
<b>Targeted international cooperation</b>							
HORIZON-CL6-2024-FARM2FORK-01-10	EU-African Union cooperation on agroforestry management for climate change adaptation and mitigation	RIA	3-5	18	6	22-02-2024	
HORIZON-CL6-2024-FARM2FORK-01-11	EU-African Union – towards climate-neutral, social just fair trade food systems	RIA		9	4,5	22-02-2024	



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

Topicnr	Topic naam	Projecttype	TRL bij einde	Budget totaal (M)	Budget per project (M)	Deadline	Deadline 2e stap
<b>Call - Fair, healthy and environmentally-friendly food systems from primary production to consumption</b>							
<b>Enabling sustainable farming</b>							
HORIZON-CL6-2024-FARM2FORK-02-1-two-stage	Increasing the availability and use of non-contentious inputs in organic farming	IA	7-8	12	6	22-02-2024	17-09-2024
HORIZON-CL6-2024-FARM2FORK-02-2-two-stage	Sustainable organic food innovation labs: reinforcing the entire value chain	IA	6-8	11	5,5	22-02-2024	17-09-2024
HORIZON-CL6-2024-FARM2FORK-02-3-two-stage	Tools to increase the effectiveness of EU import controls for plant health	IA	6-7	8	4	22-02-2024	17-09-2024
HORIZON-CL6-2024-FARM2FORK-02-4-two-stage	Tackling outbreaks of plant pests	RIA		13	6,5	22-02-2024	17-09-2024
HORIZON-CL6-2024-FARM2FORK-02-5-two-stage	Animal nutritional requirements and nutritional value of feed under different production management conditions	RIA		7	7	22-02-2024	17-09-2024
<b>Enabling sustainable fisheries and aquaculture</b>							
HORIZON-CL6-2024-FARM2FORK-02-6-two-stage	Minimising climate impact on fisheries: mitigation and adaptation solutions for future climate regimes	IA	6-7	9	4,5	22-02-2024	17-09-2024
HORIZON-CL6-2024-FARM2FORK-02-7-two-stage	Minimising climate impact on aquaculture: mitigation and adaptation solutions for future climate regimes	IA	6-7	9	4,5	22-02-2024	17-09-2024
<b>Destination – Circular economy and bioeconomy sectors</b>							
<b>Call - Circular economy and bioeconomy sectors</b>							
<b>Enabling a circular economy transition</b>							
HORIZON-CL6-2023-CircBio-01-1	Enhancing collaboration between Circular Cities and Regions Initiative's (CCRI) supporting organisations	CSA		2,5	2,5	28-03-2023	
HORIZON-CL6-2023-CircBio-01-2	One hundred circular model households: making European households sustainable through inclusive circular practices	IA	6-8	18	6	28-03-2023	
HORIZON-CL6-2023-CircBio-01-3	Harnessing the innovation potential and market uptake of successful circular economy water related projects	CSA		2	2	28-03-2023	



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

Topicnr	Topic naam	Projecttype	TRL bij einde	Budget totaal (M)	Budget per project (M)	Deadline	Deadline 2e stap
<b>Innovating for sustainable bio-based systems, biotechnology and the bioeconomy</b>							
HORIZON-CL6-2023-CircBio-01-4	Land-based bioprospecting and production of bioactive compounds and functional materials for multiple bio-based value chains	RIA	3-5	4	4	28-03-2023	
HORIZON-CL6-2023-CircBio-01-5	Broadening the spectrum of robust enzymes and microbial hosts in industrial biotechnology	IA	6-7	10	5	28-03-2023	
HORIZON-CL6-2023-CircBio-01-6	Bio-based solutions for humanitarian applications	CSA		3	1,5	28-03-2023	
HORIZON-CL6-2023-CircBio-01-7	Symbiosis in the bio-based industrial ecosystems	CSA		3	1,5	28-03-2023	
HORIZON-CL6-2023-CircBio-01-8	Eco-friendly consumer products – low-toxicity/zero pollution construction bio-based materials	IA	6-8	10	5	28-03-2023	
HORIZON-CL6-2023-CircBio-01-9	Business models that balance the share of power and profit in the bioeconomy	RIA		8	4	28-03-2023	
HORIZON-CL6-2023-CircBio-01-10	Supporting the fair and just transition from GHG- intensive economies facing challenges towards circular bioeconomy model regions	CSA		2	2	28-03-2023	
HORIZON-CL6-2023-CircBio-01-11	Novel culturing of aquatic organisms for blue biotechnology applications	RIA	3-5	8	4	28-03-2023	
<b>Safeguarding and sustainably innovating the multiple functions of EU forests</b>							
HORIZON-CL6-2023-CircBio-01-12	Optimising the sustainable production of wood and non-wood products in small forest properties and development of new forest-based value chains	RIA		12	6	28-03-2023	
HORIZON-CL6-2023-CircBio-01-13	Capturing market trends and societal perceptions for tailor-made forest services	RIA		12	6	28-03-2023	
HORIZON-CL6-2023-CircBio-01-14	Monitoring the multi-functionality of European forests	RIA		4	4	28-03-2023	
<b>Call - Circular economy and bioeconomy sectors</b>							
<b>Enabling a circular economy transition</b>							
HORIZON-CL6-2023-CircBio-02-1-two-stage	Circular Cities and Regions Initiative (CCRI)'s circular systemic solutions	IA	6-8	58	9-10	28-03-2023	26-09-2023
HORIZON-CL6-2023-CircBio-02-2-two-stage	Novel, sustainable and circular bio-based textiles	IA	6-8	14	7	28-03-2023	26-09-2023
<b>Innovating for sustainable bio-based systems, biotechnology and the bioeconomy</b>							
HORIZON-CL6-2023-CircBio-02-3-two-stage	Non-plant biomass feedstock for industrial applications: technologies and processes to convert non-lignocellulosic biomass and waste into bio-based chemicals, materials and products, improving the cascading valorisation of biomass	RIA	5	8	4	28-03-2023	26-09-2023



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

Topicnr	Topic naam	Projecttype	TRL bij einde	Budget totaal (M)	Budget per project (M)	Deadline	Deadline 2e stap
<b>Call - Circular economy and bioeconomy sectors</b>							
<b>Enabling a circular economy transition</b>							
HORIZON-CL6-2024-CircBio-01-1	Circular Cities and Regions Initiative's project development assistance (CCRI-PDA)	CSA		6	2	22-02-2024	
HORIZON-CL6-2024-CircBio-01-2	Circular solutions for textile value chains based on extended producer responsibility	IA	6-8	14	7	22-02-2024	
HORIZON-CL6-2024-CircBio-01-3	Innovative circular solutions for furniture	IA	6-8	10	5	22-02-2024	
HORIZON-CL6-2024-CircBio-01-4	Systemic circular solutions for a sustainable tourism	IA		10	5	22-02-2024	
<b>Innovating for sustainable bio-based systems, biotechnology and the bioeconomy</b>							
HORIZON-CL6-2024-CircBio-01-5	Programmed biodegradation capability of bio-based materials and products, validated in specific environments	RIA	4-5	8	4	22-02-2024	
HORIZON-CL6-2024-CircBio-01-6	Digital information systems for bio-based products	RIA	5	6	3	22-02-2024	
HORIZON-CL6-2024-CircBio-01-7	Demonstrating the fair and just transition from GHG- intensive economies facing challenges towards circular bioeconomy model regions	IA	6-7	6	6	22-02-2024	
HORIZON-CL6-2024-CircBio-01-8	Bioeconomy project development assistance	CSA		3	3	22-02-2024	
HORIZON-CL6-2024-CircBio-01-9	Circular bioeconomy start-up villages	CSA		2,5	0,8	22-02-2024	
HORIZON-CL6-2024-CircBio-01-10	Targeting aquatic extremophiles for sourcing novel enzymes, drugs, metabolites and chemicals	RIA	3-5	9	4,5	22-02-2024	
<b>Call - Circular economy and bioeconomy sectors</b>							
<b>Enabling a circular economy transition</b>							
HORIZON-CL6-2024-CircBio-02-1-two-stage	Circular solutions for textile value chains through innovative sorting, recycling, and design for recycling	RIA	5-6	15	5	22-02-2024	17-09-2024
HORIZON-CL6-2024-CircBio-02-2-two-stage	Increasing the circularity in plastics value chains	IA	6-8	10	5	22-02-2024	17-09-2024
HORIZON-CL6-2024-CircBio-02-3-two-stage	Increasing the circularity in electronics value chains	IA	6-8	10	5	22-02-2024	17-09-2024
HORIZON-CL6-2024-CircBio-02-4-two-stage	New circular solutions and decentralised approaches for water and wastewater management	IA	6-8	15	5	22-02-2024	17-09-2024



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

Topicnr	Topic naam	Projecttype	TRL bij einde	Budget totaal (M)	Budget per project (M)	Deadline	Deadline 2e stap
<b>Innovating for sustainable bio-based systems, biotechnology and the bioeconomy</b>							
HORIZON-CL6-2024-CircBio-02-5-two-stage	Circular design of bio-based processes and products	IA	5	8	4	22-02-2024	17-09-2024
HORIZON-CL6-2024-CircBio-02-6-two-stage	From silos to diversity – small-scale bio- based demonstration pilots	RIA	6-7	15	5	22-02-2024	17-09-2024
<b>Destination – Clean environment and zero pollution</b>							
<b>Call - Clean environment and zero pollution</b>							
<b>Halting pollution of air, soil and water</b>							
HORIZON-CL6-2023-ZEROPOLLUTION-01-1	Knowledge and innovative solutions in agriculture for water availability and quality	RIA	3-5	12	6	28/03/2023	
<b>Addressing pollution in seas and ocean</b>							
HORIZON-CL6-2023-ZEROPOLLUTION-01-2	Integrated assessment and monitoring of emerging pollutants in the marine environment	RIA	3-5	12,5	6,25	28/03/2023	
HORIZON-CL6-2023-ZEROPOLLUTION-01-3	Tackling human and climate change induced pollution in the Arctic - building resilient socio-ecological systems	RIA	3-5	12	6	28/03/2023	
<b>Increasing environmental performances and sustainability of bio-based processes and products</b>							
HORIZON-CL6-2023-ZEROPOLLUTION-01-4	Environmental sustainability and circularity criteria for industrial bio-based systems	RIA	5	8	4	28/03/2023	
HORIZON-CL6-2023-ZEROPOLLUTION-01-5	Industrial biotechnology approaches for improved sustainability and output of industrial bio-based processes	IA	6-8	10	5	28/03/2023	
HORIZON-CL6-2023-ZEROPOLLUTION-01-6	Biosensors and user-friendly diagnostic tools for environmental services	RIA	3-5	8	4	28/03/2023	
<b>Reducing the environmental impact and pollution in food systems</b>							
HORIZON-CL6-2023-ZEROPOLLUTION-01-7	Strategies to prevent and reduce plastic packaging pollution from the food system	RIA		8	4	28/03/2023	
<b>Call - Clean environment and zero pollution</b>							
<b>Halting pollution of air, soil and water</b>							
HORIZON-CL6-2023-ZEROPOLLUTION-02-01	Optimisation of manure use along the management chain to mitigate GHG emissions and minimize nutrients/contaminants dispersion in the environment	RIA		7	7	28/03/2023	26/09/2023



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Topicnr	Topic naam	Projecttype	TRL bij einde	Budget totaal (M)	Budget per project (M)	Deadline	Deadline 2e stap
<b>Increasing environmental performance and sustainability of processes and products</b>							
HORIZON-CL6-2023-ZEROPOLLUTION-02-02	Safe-and-sustainable-by design bio-based platform chemicals, additives, materials or products as alternatives	RIA	4-5	8	4	28/03/2023	06/09/2023
<i>Call - Clean environment and zero pollution</i>							
<b>Halting pollution of air, soil and water</b>							
HORIZON-CL6-2024-ZEROPOLLUTION-01-1	Demonstrating how regions can operate within safe ecological and regional nitrogen and phosphorus boundaries	IA	8	27	9	22/02/2024	
HORIZON-CL6-2024-ZEROPOLLUTION-01-2	Best available techniques to recover or recycle fertilising products from secondary raw materials	CSA		4	2	22/02/2024	
<b>Reducing the environmental impact and pollution in food systems</b>							
HORIZON-CL6-2024-ZEROPOLLUTION-01-3	Environmental impacts of food systems	RIA		7	7	22/02/2024	
<i>Call - Clean environment and zero pollution</i>							
<b>Protecting drinking water and managing urban water pollution</b>							
HORIZON-CL6-2024-ZEROPOLLUTION-02-1	Holistic approaches for effective monitoring of water quality in urban areas	IA		15	5	21/02/2024	17/09/2024
<b>Increasing environmental performances and sustainability of bio-based processes and products</b>							
HORIZON-CL6-2024-ZEROPOLLUTION-02-2	Innovative technologies for zero pollution, zero-waste biorefineries	RIA	4-5	8	4	21/02/2024	17/09/2024
<b>Destination – Land, ocean and water for climate action</b>							
<i>Call - Land, ocean and water for climate action</i>							
HORIZON-CL6-2023-CLIMATE-01-1	Additional activities for the European Partnership Water Security for the Planet (Water4All)	COFUND		36	36	12/04/2023	
HORIZON-CL6-2023-CLIMATE-01-2	Improve the reliability and effectiveness of alternative water resources supply systems and technologies	IA		10	3,3	12/04/2023	
HORIZON-CL6-2023-CLIMATE-01-3	Ocean and coastal waters carbon-and biodiversity-rich ecosystems and habitats in Europe and the Polar Regions	RIA	3-5	10	5	12/04/2023	
HORIZON-CL6-2023-CLIMATE-01-4	Demonstration network on climate-smart farming– linking research stations	RIA		20	20	12/04/2023	
HORIZON-CL6-2023-CLIMATE-01-5	Pilot network of climate-positive organic farms	CSA		5	5	12/04/2023	





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Topicnr	Topic naam	Projecttype	TRL bij einde	Budget totaal (M)	Budget per project (M)	Deadline	Deadline 2e stap
HORIZON-CL6-2023-CLIMATE-01-6	Analysing fossil-energy dependence in agriculture to increase resilience against input price fluctuations	RIA		5	5	12/04/2023	
HORIZON-CL6-2023-CLIMATE-01-7	Enhancing the sustainable production of renewable energy at farm-level	RIA		5	5	12/04/2023	
HORIZON-CL6-2023-CLIMATE-01-8	Closing the research gaps on Essential Ocean Variables (EOVs) in support of global assessments	IA	5-6	17	4-5	12/04/2023	
<b>Call - Land, ocean and water for climate action</b>							
HORIZON-CL6-2024-CLIMATE-01-1	Improving irrigation practices and technologies in agriculture	IA	6-7	10	5	22/02/2024	
HORIZON-CL6-2024-CLIMATE-01-2	Socio-economic, climate and environmental aspects of paludiculture	RIA		5	5	22/02/2024	
HORIZON-CL6-2024-CLIMATE-01-3	Paludiculture: large-scale demonstrations	IA		20	10	22/02/2024	
HORIZON-CL6-2024-CLIMATE-01-4	Land use change and local / regional climate	RIA		12	6	22/02/2024	
HORIZON-CL6-2024-CLIMATE-01-5	Climate-smart use of wood in the construction sector to support the New European Bauhaus	RIA		14	7	22/02/2024	
HORIZON-CL6-2024-CLIMATE-01-6	Ocean models for seasonal to decadal regional climate impacts and feedbacks	RIA	3-5	9	4,5	22/02/2024	
HORIZON-CL6-2024-CLIMATE-01-7	EU-China international cooperation on improving monitoring for better integrated climate and biodiversity approaches, using environmental and Earth observation	RIA		5	5	22/02/2024	
<b>Destination – Resilient, inclusive, healthy and green rural, coastal and urban communities</b>							
<b>Call - Resilient, inclusive, healthy and green rural, coastal and urban communities</b>							
HORIZON-CL6-2023-COMMUNITIES-01-1	Enhancing social inclusion in rural areas: focus on people in a vulnerable situation and social economy	RIA		10	5	12/04/2023	
HORIZON-CL6-2023-COMMUNITIES-01-2	Improving rural future through better territorial governance and rural-urban synergies	IA		11	5,5	12/04/2023	
HORIZON-CL6-2023-COMMUNITIES-01-3	International benchmarking of rural and territorial policies and delivery mechanisms	CSA		3	3	12/04/2023	
HORIZON-CL6-2023-COMMUNITIES-01-4	Investigating the contribution of geographical indications (GIs) to sustainable development and optimising support for newly established schemes	RIA		3	3	12/04/2023	
HORIZON-CL6-2023-COMMUNITIES-01-5	Assessing urban farming impacts	RIA		5	5	12/04/2023	



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Topicnr	Topic naam	Projecttype	TRL bij einde	Budget totaal (M)	Budget per project (M)	Deadline	Deadline 2e stap
HORIZON-CL6-2023-COMMUNITIES-01-6	Inclusive and smart ways to communicate sustainability of food	RIA		6,5	6,5	12/04/2023	
<b>Call - Resilient, inclusive, healthy and green rural, coastal and urban communities</b>							
HORIZON-CL6-2024-COMMUNITIES-01-1	Unlock the potential of the New European Bauhaus in urban food system transformation	IA		6	3	22/02/2024	
HORIZON-CL6-2024-COMMUNITIES-01-2	Societal perceptions and benefits of rural life and jobs: will COVID 19 generate a long-lasting shift?	RIA		6	6	22/02/2024	
HORIZON-CL6-2024-COMMUNITIES-01-3	Participation and empowerment of Arctic coastal, local, and indigenous communities in environmental decision-making	RIA		3	3	22/02/2024	
<b>Call - Resilient, inclusive, healthy and green rural, coastal and urban communities</b>							
HORIZON-CL6-2024-COMMUNITIES-02-1	Innovating for climate-neutral rural communities by 2050	IA		10	5	22/02/2024	17/09/2024
HORIZON-CL6-2024-COMMUNITIES-02-2	New sustainable business and production models for farmers and rural communities	RIA		12	6	22/02/2024	17/09/2024
<b>Destination – Innovative governance, environmental observations and digital solutions in support of the Green Deal</b>							
<b>Call - Innovative governance, environmental observations and digital solutions in support of the Green Deal</b>							
<b>Innovating with governance models and supporting policies</b>							
HORIZON-CL6-2023-GOVERNANCE-01-1	European partnership of Agriculture of Data	COFUND		40	40	23/03/2023	
HORIZON-CL6-2023-GOVERNANCE-01-2	Advancing analytical capacity and tools to support EU agri-food policies post 2027	RIA		6	6	23/03/2023	
HORIZON-CL6-2023-GOVERNANCE-01-3	Towards CAP post 2027: evidence on nudging farmers to leverage more sustainable practices and behaviours	RIA		3	3	23/03/2023	
HORIZON-CL6-2023-GOVERNANCE-01-4	Developing an interdisciplinary and inclusive pan-European academic network for food system science	RIA		6	6	23/03/2023	
HORIZON-CL6-2023-GOVERNANCE-01-5	Revitalisation of European local (rural / peri-urban) communities with innovative bio-based business models and social innovation	RIA		5	5	23/03/2023	
HORIZON-CL6-2023-GOVERNANCE-01-6	Co-creation and trust-building measures for biotechnology and bio-based innovation systems	CSA		1,5	1,5	23/03/2023	



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Topicnr	Topic naam	Projecttype	TRL bij einde	Budget totaal (M)	Budget per project (M)	Deadline	Deadline 2e stap
HORIZON-CL6-2023-GOVERNANCE-01-7	Integrated assessment of land use and biomass demands to contribute to a sustainable healthy and fair bioeconomy	RIA		4	4	23/03/2023	
HORIZON-CL6-2023-GOVERNANCE-01-8	Mobilising BIOEAST networks for the development of national bioeconomy action programmes in support of the European Green Deal	CSA		3,5	3,5	23/03/2023	
<b>Deploying and adding value to environmental observations</b>							
HORIZON-CL6-2023-GOVERNANCE-01-9	Coordination and supporting action to increase synergies in the dissemination and exploitation of climate observations by World Meteorological Organization and its affiliated bodies	CSA		2	2	23/03/2023	
HORIZON-CL6-2023-GOVERNANCE-01-10	Support to EuroGEO initiative coordination/establishing a EuroGEO secretariat	CSA		2	2	23/03/2023	
HORIZON-CL6-2023-GOVERNANCE-01-11	Reducing observation gaps in the land-sea interface area	RIA		9	9	23/03/2023	
HORIZON-CL6-2023-GOVERNANCE-01-12	Empowering citizens to monitor, report and act in partnership with relevant public authorities to protect their environment in the context of environmental compliance assurance	RIA		7	7	23/03/2023	
<b>Digital and data technologies as key enablers</b>							
HORIZON-CL6-2023-GOVERNANCE-01-13	Open source solutions for edge, cloud and mixed model applications to strengthen production and administrative capacities in agriculture	RIA	5-7	10	5	23/03/2023	
HORIZON-CL6-2023-GOVERNANCE-01-14	Digital and data technologies for livestock tracking	CSA		5	5	23/03/2023	
HORIZON-CL6-2023-GOVERNANCE-01-15	Digitalisation in agriculture and forestry: markets for data, and digital technologies and infrastructure – state of play and foresight in a fast changing regulatory, trade and technical environment	RIA	3-5	5	5	23/03/2023	
HORIZON-CL6-2023-GOVERNANCE-01-16	Digital technologies supporting plant health early detection, territory surveillance and phytosanitary measures	RIA		10	5	23/03/2023	
HORIZON-CL6-2023-GOVERNANCE-01-17	Data-driven solutions to foster industry's contribution to inclusive and sustainable food systems	RIA		8	4	23/03/2023	
<b>Strengthening agricultural knowledge and innovation systems (AKIS)</b>							
HORIZON-CL6-2023-GOVERNANCE-01-18	Broaden EIP Operational Group outcomes across borders by means of thematic networks to compile and share knowledge ready for practice	CSA		4	2	23/03/2023	



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Topicnr	Topic naam	Projecttype	TRL bij einde	Budget totaal (M)	Budget per project (M)	Deadline	Deadline 2e stap
HORIZON-CL6-2023-GOVERNANCE-01-19	Thematic networks to compile and share knowledge ready for practice	CSA		6	3	23/03/2023	
HORIZON-CL6-2023-GOVERNANCE-01-20	Developing an EU advisory network on organic agriculture	CSA		5	5	23/03/2023	
HORIZON-CL6-2023-GOVERNANCE-01-21	Developing EU advisory networks to reduce the use of pesticides	CSA		4	4	23/03/2023	
HORIZON-CL6-2023-GOVERNANCE-01-22	Developing EU advisory networks on the optimal fertiliser use	CSA		4	4	23/03/2023	
<b>Call - Innovative governance, environmental observations and digital solutions in support of the Green Deal</b>							
<b>Innovating with governance models and supporting policies</b>							
HORIZON-CL6-2024-GOVERNANCE-01-1	Additional activities for the European Partnership for a climate neutral, sustainable and productive Blue Economy	COFUND		60	60	28/02/2024	
HORIZON-CL6-2024-GOVERNANCE-01-2	Regional ecosystems of innovation to foster food system transformation	CSA		3,5	3,5	28/02/2024	
HORIZON-CL6-2024-GOVERNANCE-01-3	The role of mainstream media, social media and marketing in fostering healthy and sustainable consumption patterns and how to encourage good practices	CSA		3	3	28/02/2024	
HORIZON-CL6-2024-GOVERNANCE-01-4	Supporting the All-Atlantic Ocean Research and Innovation Alliance and Declaration	CSA		4	4	28/02/2024	
<b>Deploying and adding value to Environmental Observations</b>							
HORIZON-CL6-2024-GOVERNANCE-01-5	Customisation/pre-operationalisation of prototypes end-user services in the area Climate Change Adaptation and Mitigation	PCP		19	19	28/02/2024	
HORIZON-CL6-2024-GOVERNANCE-01-6	Develop innovative applications to support the European Green Deal, building on meteorological satellite data	RIA		8	4	28/02/2024	
<b>Digital and data technologies as key enablers</b>							
HORIZON-CL6-2024-GOVERNANCE-01-7	Enhancing working conditions and strengthening the work force through digital and data technologies – the potential of robotics and augmented reality in agriculture	RIA	7-8	15	5	28/02/2024	
<b>Strengthening agricultural knowledge and innovation systems (AKIS)</b>							
HORIZON-CL6-2024-GOVERNANCE-01-8	Broaden EIP Operational Group outcomes across borders by means of thematic networks to compile and share knowledge ready for practice	CSA		4	2	28/02/2024	
HORIZON-CL6-2024-GOVERNANCE-01-9	Thematic networks to compile and share knowledge ready for practice	CSA		6	3	28/02/2024	



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Topicnr	Topic naam	Projecttype	TRL bij einde	Budget totaal (M)	Budget per project (M)	Deadline	Deadline 2e stap
HORIZON-CL6-2024-GOVERNANCE-01-10	Organic farming thematic networks to compile and share knowledge ready for practice	CSA		4	4	28/02/2024	
HORIZON-CL6-2024-GOVERNANCE-01-11	Biodiversity thematic networks to compile and share knowledge ready for practice	CSA		3	3	28/02/2024	
HORIZON-CL6-2024-GOVERNANCE-01-12	Developing EU advisory networks on forestry	CSA		4	4	28/02/2024	
HORIZON-CL6-2024-GOVERNANCE-01-13	Developing EU advisory networks on sustainable livestock systems	CSA		4	4	28/02/2024	



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

## Contact

Saske Hoving

Suraj Jamge

Alexander van Dorssen

saske.hoving@rvo.nl

suraj.jamge@rvo.nl

alexander.vandorssen@rvo.nl



Topicnr	Topic naam	Projecttype	TRL bij einde	Budget totaal (M)	Budget per project (M)	Deadline
Mission – Restore our Ocean and Waters by 2030						
Call - Joint Call between Mission Restore our Ocean and Waters by 2030, Mission Adaptation to Climate Change and Mission A Soil Deal for Europe						
Protect and restore marine and freshwater ecosystems and biodiversity						
HORIZON-MISS-2023-OCEAN-01-01	European Blue Parks – Protection and restoration of marine habitats	IA	5-7	8,8	8,8	20-09-2023
HORIZON-MISS-2023-OCEAN-01-02	Danube river basin lighthouse – Demonstration of effective and sustainable management of sediments in the Danube river-Black sea system	IA	5-7	17	8,5	20-09-2023
HORIZON-MISS-2023-OCEAN-01-03	Atlantic and Arctic sea basin lighthouse – Addressing climate change and human activities threats to marine biodiversity	IA	5-7	16	8	20-09-2023
HORIZON-MISS-2023-OCEAN-01-04	European natural lakes: demonstration of integrated approaches for protection and restoration of natural lake ecosystems and their biodiversity	IA	5-7	12	4	20-09-2023
Sustainable, carbon-neutral and circular Blue economy						
HORIZON-MISS-2023-OCEAN-01-05	Lighthouse in the Baltic and the North Sea basins - Lighthouse in the Baltic and the North Sea basins - Green and energy-efficient small-scale fishing fleets	IA	4-6	12	4	20-09-2023
HORIZON-MISS-2023-OCEAN-01-06	Cross-basin topic - Innovative nature-inclusive concepts to reconcile offshore renewables with ocean protection	RIA	3-4	4,5	2,25	20-09-2023
HORIZON-MISS-2023-OCEAN-01-07	Cross-basin topic - Analysis of the obstacles and opportunities for repurposing aged/unused offshore infrastructures	RIA	4-5	1,4	1,4	20-09-2023



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Topicnr	Topic naam	Projecttype	TRL bij einde	Budget totaal (M)	Budget per project (M)	Deadline
<b>Mission Enabling activities: Digital Ocean and Water Knowledge System, public mobilisation and engagement, dynamic investment ecosystem</b>						
HORIZON-MISS-2023-OCEAN-01-08	Integration of socio-ecological models into the Digital Twin Ocean	RIA	3-5	10	3,3	20-09-2023
HORIZON-MISS-2023-OCEAN-01-09	Roadmap towards the integration of inland waters into the Digital Twin Ocean	CSA		2	2	20-09-2023
HORIZON-MISS-2023-OCEAN-01-10	Choose your fish: a campaign for responsible consumption of products from the sea	CSA		2	2	20-09-2023
HORIZON-MISS-2023-OCEAN-01-11	Ocean & water and arts: the contribution of creative sectors to Mission Ocean and waters	CSA		2	2	20-09-2023
<b>Missions' Joint Calls</b>						
<b>Call - Joint Call between Mission Restore our Ocean and Waters by 2030, Mission Adaptation to Climate Change and Mission A Soil Deal for Europe</b>						
HORIZON-MISS-2023-CLIMA-OCEAN-SOIL-01-01	Mission Climate adaptation, Mission Ocean & waters and Mission Soil Deal for Europe – Joint demonstration of an integrated approach to increasing landscape water retention capacity at regional scale	IA	6-7	15	15	20-09-2023
<b>Call - Actions for the implementation of the Mission Restore our ocean and waters by 2030</b>						
HORIZON-MISS-2023-OCEAN-SOIL-01-01	Mission Ocean and Waters and Mission A Soil Deal for Europe – Joint demonstration of approaches and solutions to address nutrient pollution in the landscape-river-sea system in the Mediterranean sea basin	IA	6-7	16	8	20-09-2023
<b>Mission - A Soil Deal for Europe</b>						
<b>Call - Research and Innovation and other actions to support the implementation of mission A Soil Deal for Europe</b>						
HORIZON-MISS-2023-SOIL-01-01	Discovering the subsoil	RIA		12	6	20-09-2023
HORIZON-MISS-2023-SOIL-01-02	Soil pollution processes – modelling and inclusion in advanced digital decision-support tools	RIA		14	7	20-09-2023
HORIZON-MISS-2023-SOIL-01-03	Onsite digital technologies to monitor nutrients and chemical or biological stressors in soil and plants with relevance for food safety and nutrition	IA	6-7	12	6	20-09-2023
HORIZON-MISS-2023-SOIL-01-04	Innovations to prevent and combat desertification	IA	5-7	14	7	20-09-2023
HORIZON-MISS-2023-SOIL-01-05	Soil-friendly practices in horticulture, including alternative growing media	IA	5-7	13	6,5	20-09-2023
HORIZON-MISS-2023-SOIL-01-06	Soils in spatial planning	RIA		7	7	20-09-2023
HORIZON-MISS-2023-SOIL-01-07	Back to earth: bringing communities and citizens closer to soil	CSA		6	6	20-09-2023
HORIZON-MISS-2023-SOIL-01-08	Co-creating solutions for soil health in Living Labs	RIA		36	12	20-09-2023
HORIZON-MISS-2023-SOIL-01-09	Carbon farming in living labs	RIA		12	12	20-09-2023



# Partnerschappen Cluster 6

## Sustainable Blue Economy Partnership (SBEP)



Het Sustainable Blue Economy Partnership (SBEP) heeft als doel een rechtvaardige en inclusieve transitie naar een veerkrachtige “blauwe” economie te realiseren. Zo wordt de transformatie naar een klimaatneutrale, duurzame, productieve en concurrerende EU tegen 2030 gestimuleerd. SBEP zal oplossingen leveren om de Europese en internationale dimensies tussen wetenschap en beleid te versterken in mariene en maritieme thema’s van de EU Green Deal. Ook worden strategieën voor een digitaal Europa door de nationale, regionale en Europese onderzoek- en innovatieprioriteiten op elkaar afgestemd. Wetenschap, industrie, beleid en de samenleving worden bij elkaar samengebracht.

### Looptijd

01/09/2022 tot 31/08/2029

### EU Budget

450 M euro budget

### NL Budget

NL neemt deel

### Meer info

[Website SBEP](#)

### Contact

Saske Hoving  
Suraj Jamge

## Water4All



Het Water4All partnerschap is opgezet om onderzoek en innovatie inzake water in Europa en daarbuiten te concentreren. Waterzekerheid betekent het vermogen van een bevolking om duurzame toegang tot een toereikende hoeveelheid water van aanvaardbare kwaliteit te waarborgen. Dit is essentieel om levensonderhoud, welzijn van mensen en sociaal-economische ontwikkeling op peil te houden, bescherming te bieden tegen vervuiling en rampen door waterverontreiniging, en om ecosystemen in stand te houden in een klimaat van vrede en politieke stabiliteit.

### Looptijd

01/06/2022 tot 31/05/2028

### EU Budget

120 M euro budget

### NL Budget

NL neemt deel

### Meer info

[Website Water4All](#)

### Contact

Alexander van Dorssen  
Laura Platenkamp



# Partnerschappen Cluster 6

## European Biodiversity Partnership (Biodiversa+)



Als onderdeel van de Europese Biodiversiteitsstrategie voor 2030 om de brug te slaan tussen wetenschap, beleid en praktijk, werkt Biodiversa+ aan 5 hoofddoelstellingen: 1. Ondersteunen van onderzoek en innovatie op het gebied van biodiversiteit via een gedeelde strategie, jaarlijkse gezamenlijke oproepen voor onderzoeksprojecten en activiteiten voor capaciteitsopbouw 2. Een netwerk opzetten van geharmoniseerde regelingen om de monitoring van biodiversiteit en ecosysteemdiensten in heel Europa te verbeteren 3. Bijdragen aan hoogwaardige kennis voor het inzetten van ecosysteem diensten 4. Zorgen voor efficiënte voor beleidsvorming en -implementatie in Europa 5. Versterken van de relevantie en impact van pan-Europees onderzoek naar biodiversiteit in een mondiale context.

### Looptijd

01/10/2021 tot 30/09/2028

### EU Budget

800 M euro budget

### NL Budget

NL neemt deel

### Meer info

Website Biodiversa+

### Contact

Alexander van Dorssen  
Saske Hoving  
Suraj Jamge

## Circular Bio-based Europe Joint Undertaking (CBE JU)



De belangrijkste doelstellingen van CBE JU zijn:

- Versnellen van het innovatieproces en de ontwikkeling van biobased innovatieve oplossingen
- Versnellen van de marktintroductie van de bestaande en innovatieve biobased oplossingen
- Zorgen voor een hoog niveau van milieuprestaties van biobased industriële systemen

### Looptijd

30/11/2021 tot 31/12/2031

### EU Budget

CBE JU is een partnerschap van € 2 miljard tussen de Europese Unie en het Bio-based Industries Consortium (BIC) en bouwt voort op het succes van zijn voorganger, de Bio-based Industries Joint Undertaking (BBI JU).

### Meer info

Website CBE

Zie overzicht calls in deze wegwijzer.

### Contact

Saske Hoving  
Suraj Jamge  
Alexander van Dorssen

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

Partnership – Circular Bio-based Europe (CBE)

Topicnr	Topic naam	Projecttype	TRL bij einde	Budget totaal (M)	Budget per project (M)	Deadline
<b>Call - CBE JU call 2023</b>						
HORIZON-JU-CBE-2023-IAFlag-01	Optimised and integrated woody-based value chains	IA Flagship	8	17	17	20-09-2023
HORIZON-JU-CBE-2023-IAFlag-02	Expansion and/or retro-fitting of biorefineries towards higher-value bio-based chemicals and intermediates	IA Flagship	8	17	17	20-09-2023
HORIZON-JU-CBE-2023-IAFlag-03	Bio-based packaging materials with improved properties: barrier, food contact, forming, printability, safety, recyclability/circularity-by-design	IA Flagship	8	17	17	20-09-2023
HORIZON-JU-CBE-2023-IAFlag-04	Valorisation of aquatic biomass waste and residues	IA Flagship	8	10	10	20-09-2023
HORIZON-JU-CBE-2023-IA-01	Small-scale biorefining in rural areas	IA	6-7	15	7,5	20-09-2023
HORIZON-JU-CBE-2023-IA-02	Production of safe, sustainable, and efficient bio-based fertilisers to improve soil health and quality	IA	6-7	15	7,5	20-09-2023
HORIZON-JU-CBE-2023-IA-03	Improve fermentation processes (including downstream purification) to final bio-based products	IA	6-7	15	7,5	20-09-2023
HORIZON-JU-CBE-2023-IA-04	Recycling bio-based plastics increasing sorting and recycled content (upcycling)	IA	6-7	15	7,5	20-09-2023
HORIZON-JU-CBE-2023-IA-05	Development of scalable, safe bio-based surfactants with an improved sustainability profile	IA	6-7	15	7,5	20-09-2023
HORIZON-JU-CBE-2023-IA-06	Selective, sustainable production routes towards bio-based alternatives to fossil-based chemical building blocks	IA	6-7	15	7,5	20-09-2023
HORIZON-JU-CBE-2023-IA-07	High performance, circular-by design, bio-based composites	IA	6-7	15	7,5	20-09-2023
HORIZON-JU-CBE-2023-R-01	Phyto-management; curing soil with industrial crops, utilising contaminated and saline land for industrial crop production	RIA	5	10	5	20-09-2023
HORIZON-JU-CBE-2023-R-02	Optimised forest-based value chains for high-value applications and improved forest management	RIA	5	10	5	20-09-2023
HORIZON-JU-CBE-2023-R-03	Robust and optimised industrial biotech and chemical/industrial biotech processes	RIA	5	10	5	20-09-2023
HORIZON-JU-CBE-2023-R-04	Development of novel, high-performance bio-based polymers and co-polymers	RIA	4-5	10	5	20-09-2023
HORIZON-JU-CBE-2023-R-05	Pre-normative research to develop standards for biodegradability of bio-based products in controlled and open environments	RIA	5	5	5	20-09-2023
HORIZON-JU-CBE-2023-S-01	EU-wide network of pilot plants and testing facilities, improving SMEs and start-ups' access to scale-up	CSA		1,5	1,5	20-09-2023
HORIZON-JU-CBE-2023-S-02	Supporting the capacity of regions in environmental sustainability assessment for the bio-based sectors	CSA		3	3	20-09-2023

