

**Appels à propositions dans le cadre du programme européen pour la recherche et l'innovation
« HORIZON EUROPE »**

Numérique, Industrie, Espace

Destination - Production neutre climatiquement, circulaire et numérisée

Titre	Type	Budget (M€)	Date d'ouverture	Date limite
Transitions verte et numérique (une étape) 2023				
HORIZON-CL4-2023-TWIN-TRANSITION-01-02: High-precision OR complex product manufacturing – potentially including the use of photonics (Made in Europe and Photonics Partnerships) (IA)	IA	48	08-dec-2022	20-dec-2023
HORIZON-CL4-2023-TWIN-TRANSITION-01-04: Factory-level and value chain approaches for remanufacturing (Made in Europe Partnership) (IA)	IA	37,6		
HORIZON-CL4-2023-TWIN-TRANSITION-01-07: Achieving resiliency in value networks through modelling and Manufacturing as a Service (Made in Europe Partnership) (RIA)	RIA	32		
HORIZON-CL4-2023-TWIN-TRANSITION-01-08: Foresight and technology transfer for Manufacturing as a Service (Made in Europe Partnership) (CSA)	CSA	1		
HORIZON-CL4-2023-TWIN-TRANSITION-01-31: Energy efficiency breakthroughs in the process industries (Processes4Planet partnership) (RIA)	RIA	32		
HORIZON-CL4-2023-TWIN-TRANSITION-01-33: Electrification of high temperature heating systems (Processes4Planet Partnership) (IA)	IA	35,67		
HORIZON-CL4-2023-TWIN-TRANSITION-01-36: Modelling industry transition to climate neutrality, sustainability and circularity (Processes4Planet partnership) (RIA)	RIA	13		
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)	IA	40		
HORIZON-CL4-2023-TWIN-TRANSITION-01-40: Sustainable and efficient industrial water consumption: through energy and solute recovery (Processes4Planet partnership) (RIA)	RIA	30		
HORIZON-CL4-2023-TWIN-TRANSITION-01-42: Circular economy in process industries: Upcycling large volumes of secondary resources (Processes4Planet partnership) (RIA)	RIA	30	08-dec-2022	20-dec-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)	IA	23		
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)	RIA	12		
Transitions verte et numérique (deux étapes) 2023				
HORIZON-CL4-2023-TWIN-TRANSITION-01-11: Intelligent data acquisition and analysis of materials and products in existing built works (RIA)	RIA	12	08-dec-2022	07-mars-2023 (1ere étape) + 5-oct-2023 (2nd étape)
Transitions verte et numérique (une étape) 2024				
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)	RIA	35		
HORIZON-CL4-2024-TWIN-TRANSITION-01-05: Technologies/solutions to support circularity for manufacturing (Made in Europe Partnership) (RIA)	RIA	36		
HORIZON-CL4-2024-TWIN-TRANSITION-01-32: Optimisation of thermal energy flows in the process industry (Processes4Planet partnership) (IA)	IA	30		
HORIZON-CL4-2024-TWIN-TRANSITION-01-34: Renewable hydrogen used as feedstock in innovative production routes (Processes4Planet Partnership) (RIA)	RIA	20		
HORIZON-CL4-2024-TWIN-TRANSITION-01-35: Turning CO2 emissions from the process industry to feedstock (Processes4Planet partnership) (IA)	IA	30		
HORIZON-CL4-2024-TWIN-TRANSITION-01-38: Hubs for circularity for industrialised urban peripheral areas (Processes4Planet partnership) (IA)	IA	40		
HORIZON-CL4-2024-TWIN-TRANSITION-01-41: Breakthroughs to improve process industry resource efficiency (Processes4Planet partnership) (RIA)	RIA	30	19-sept-23	07-fev-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)	IA	10
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)	RIA	20
Transitions verte et numérique (deux étapes) 2024		
HORIZON-CL4-2024-TWIN-TRANSITION-01-01: Bio-intelligent manufacturing industries (Made in Europe Partnership) (RIA)	RIA	25
HORIZON-CL4-2024-TWIN-TRANSITION-01-12: Enhanced assessment, intervention and repair of civil engineering infrastructure (RIA)	RIA	12

15-nov-23

19-mars-24



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Numérique, Industrie, Espace

Destination - Autonomie accrue dans les chaînes de valeur clés pour une industrie résiliente

Titre	Type	Budget (M€)	Date d'ouverture	Date limite
Chaîne de valeur résiliente (deux étapes) 2023				
HORIZON-CL4-2023-RESILIENCE-01-32: Bioinspired and biomimetic materials for sustainable textiles (IA)	IA	31	8-dec-2022	07-mars-2023 (1 ^è étape) + 05-oct-2023 (2 nd étape)
HORIZON-CL4-2023-RESILIENCE-01-33: Smart sensors for the Electronic Appliances market (RIA)	RIA	31		
HORIZON-CL4-2023-RESILIENCE-01-34: Advanced (nano and bio-based) materials for sustainable agriculture (RIA)	RIA	31		
HORIZON-CL4-2023-RESILIENCE-01-37: Advanced materials for magnets in applications for the New Energies Market (RIA)	RIA	31		
Chaîne de valeur résiliente (une étape) 2023				
HORIZON-CL4-2023-RESILIENCE-01-02: Innovative technologies for sustainable and decarbonised extraction (RIA)	RIA	25	8-dec-2022	20-avr-23
HORIZON-CL4-2023-RESILIENCE-01-03: Technologies for processing and refining of critical raw materials (IA)	IA	22		
HORIZON-CL4-2023-RESILIENCE-01-05: Recycling technologies for critical raw materials from EoL products (IA)	IA	28		
HORIZON-CL4-2023-RESILIENCE-01-06: Earth Observation platform, products and services for raw materials (IA)	IA	20		
HORIZON-CL4-2023-RESILIENCE-01-07: Expert network on Critical raw materials (CSA)	CSA	3		
HORIZON-CL4-2023-RESILIENCE-01-09: Recyclability and resource efficiency of Rare Earth based magnets (IA)	IA	20		
HORIZON-CL4-2023-RESILIENCE-01-21: Innovative methods for safety and sustainability assessments of chemicals and materials (RIA)	RIA	29+		
HORIZON-CL4-2023-RESILIENCE-01-22: Integrated approach for impact assessment of safe and sustainable chemicals and materials (RIA)	RIA	15		
HORIZON-CL4-2023-RESILIENCE-01-23: Computational models for the development of safe and sustainable by design chemicals and materials (RIA)	RIA	29		

HORIZON-CL4-2023-RESILIENCE-01-39: Coordination and knowledge sharing across materials development communities (CSA)	CSA	2	8-dec-2022	20-avr-23
HORIZON-CL4-2023-RESILIENCE-01-42: Boosting generation and diffusion of advanced technologies in SMEs based on a supply chain model (CSA)	CSA	10		
HORIZON-CL4-2023-RESILIENCE-01-44: Affordable Housing District Demonstrator (IA)	IA	10		
Chaîne de valeur résiliente (deux étapes) 2024				
HORIZON-CL4-2024-RESILIENCE-01-35: Biodegradable polymers for sustainable packaging materials (IA)	IA	31	19-sept-23	07-fev-24 (1è étape) + 24-sep-24 (2nd étape)
HORIZON-CL4-2024-RESILIENCE-01-36: Advanced biomaterials for the Health Care (IA)	IA	31		
Chaîne de valeur résiliente (une étape) 2024				
HORIZON-CL4-2024-RESILIENCE-01-01: Exploration of critical raw materials in deep land deposits (RIA)	RIA	20	19-sept-23	07-fev-24
HORIZON-CL4-2024-RESILIENCE-01-04: Technologies for processing and refining of critical raw materials (IA)	IA	22		
HORIZON-CL4-2024-RESILIENCE-01-08: Rare Earth and magnets innovation hubs (IA)	IA	32		
HORIZON-CL4-2024-RESILIENCE-01-10: Addressing due diligence requirements in raw materials supply chains. (CSA)	CSA	2,2		
HORIZON-CL4-2024-RESILIENCE-01-11: Technologies for extraction and processing of critical raw materials (IA)	IA	15		
HORIZON-CL4-2024-RESILIENCE-01-24: Development of safe and sustainable by design alternatives (IA)	IA	59		
HORIZON-CL4-2024-RESILIENCE-01-41: 'Innovate to transform' support for SME's sustainability transition (CSA)	CSA	10		

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Numérique, Industrie, Espace

Technologies de computing et données mondiales pionnières

Titre	Type	Budget (M€)	Date d'ouverture	Date limite
Technologies de computing et données mondiales pionnières 2023				
HORIZON-CL4-2023-DATA-01-02: Integration of data life cycle, architectures and standards for complex data cycles and/or human factors, language (AI, data and robotics partnership) (RIA)	RIA	45	8-dec-2022	29-mars-23
HORIZON-CL4-2023-DATA-01-04: Cognitive Computing Continuum: Intelligence and automation for more efficient data processing (AI, data and robotics partnership) (RIA)	RIA	28		
HORIZON-CL4-2023-DATA-01-06: Coordination and Support of Cognitive Computing Continuum research and policy (CSA)	CSA	2		
HORIZON-CL4-2023-DATA-01-07: Collaboration with NSF on fundamental research on new concepts for distributed computing and swarm intelligence (CSA)	CSA	1		
Technologies de computing et données mondiales pionnières 2024				
HORIZON-CL4-2024-DATA-01-01: AI-driven data operations and compliance technologies (AI, data and robotics partnership) (IA)	IA	38	15-nov-23	19-mars-24
HORIZON-CL4-2024-DATA-01-03: Piloting emerging Smart IoT Platforms and decentralized intelligence (IA)	IA	45		
HORIZON-CL4-2024-DATA-01-05: Platform Building, standardisation and Up-scaling of the 'Cloud-Edge-IoT' Solutions (Horizontal Activities - CSA)	CSA	2		

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Numérique, Industrie, Espace

Destination - Technologies numériques et émergentes pour la compétitivité et adaptées au Pacte vert

Titre	Type	Budget (M€)	Date d'ouverture	Date limite
Technologies numériques et émergentes pour la compétitivité et adaptées au Pacte vert 2023				
HORIZON-CL4-2023-DIGITAL-EMERGING-01-01: Novel paradigms and approaches, towards AI-driven autonomous robots (AI, data and robotics partnership) (RIA)	RIA	30	08-dec-22	29-mars-23
HORIZON-CL4-2023-DIGITAL-EMERGING-01-12: Adaptive multi-scale modelling and characterisation suites from lab to production (RIA)	RIA	22		
HORIZON-CL4-2023-DIGITAL-EMERGING-01-51: Pervasive photonics - multi-technology integration for digital infrastructure, sensors and internet of things (Photonics partnership)(RIA)	RIA	18		
HORIZON-CL4-2023-DIGITAL-EMERGING-01-53: Versatile light sources and systems as tools for manufacturing and medical application (Photonics Partnership) (RIA)	RIA	18		
HORIZON-CL4-2023-DIGITAL-EMERGING-01-57: Advanced imaging and sensing technologies (IA)(Photonics Partnership)	IA	20		
Technologies numériques et émergentes pour la compétitivité et adaptées au Pacte vert 2023 (CNECT)				
HORIZON-CL4-2023-DIGITAL-EMERGING-01-02: Industrial leadership in AI, Data and Robotics – advanced human robot interaction (AI Data and Robotics Partnership) (IA)	IA	30	08-dec-22	29-mars-23
ORIZON-CL4-2023-DIGITAL-EMERGING-01-11: Low TRL research in microelectronics and integration technologies for industrial solutions (RIA)	RIA	35		
HORIZON-CL4-2023-DIGITAL-EMERGING-01-32: Sustainable safe-by-design 2D materials technology (RIA)	RIA	6		
HORIZON-CL4-2023-DIGITAL-EMERGING-01-33: 2D materials of tomorrow (RIA)	RIA	12		
HORIZON-CL4-2023-DIGITAL-EMERGING-01-40: Quantum Photonic Integrated Circuit technologies (RIA)	RIA	12		
HORIZON-CL4-2023-DIGITAL-EMERGING-01-41: Investing in alternative quantum computation and simulation platform technologies (RIA)	RIA	20		
HORIZON-CL4-2023-DIGITAL-EMERGING-01-43: Framework Partnership Agreement for developing large-scale quantum Computing platform technologies (FPA)	FPA			

HORIZON-CL4-2023-DIGITAL-EMERGING-01-50: Next generation quantum sensing and metrology technologies (RIA)	RIA	10	08-dec-22	29-mars-23
HORIZON-CL4-2023-DIGITAL-EMERGING-01-56: Photonic Strategies and Skills Development (CSA) (Photonics Partnership)	CSA	4		
Technologies numériques et émergentes pour la compétitivité et adaptées au Pacte vert 2022				
HORIZON-CL4-2024-DIGITAL-EMERGING-01-03: Novel paradigms and approaches, towards AI-powered robots– step change in functionality (AI, data and robotics partnership) (RIA)	RIA	30	15-nov-23	19-mars-23
HORIZON-CL4-2024-DIGITAL-EMERGING-01-04: Industrial leadership in AI, Data and Robotics boosting competitiveness and the green transition (AI Data and Robotics Partnership)	IA	60		
HORIZON-CL4-2024-DIGITAL-EMERGING-01-22: Fundamentals of Software Engineering (RIA)	RIA	13,5		
HORIZON-CL4-2024-DIGITAL-EMERGING-01-54: Smart photonics for joint communication & sensing and access everywhere (Photonics Partnership) (RIA)	RIA	18		
HORIZON-CL4-2024-DIGITAL-EMERGING-01-55: Photonics Innovation Factory for Europe (Photonics Partnership) (IA)	IA	15		
Technologies numériques et émergentes pour la compétitivité et adaptées au Pacte vert (CNECT) 2022				
HORIZON-CL4-2024-DIGITAL-EMERGING-01-21: Open Source for Cloud/Edge to support European Digital Autonomy (RIA)	RIA	20	15-nov-23	19-mars-24
HORIZON-CL4-2024-DIGITAL-EMERGING-01-23: Public recognition scheme for Open Source (CSA)	CSA	2		
HORIZON-CL4-2024-DIGITAL-EMERGING-01-31: Pilot line(s) for 2D materials-based devices (RIA)	RIA	33		
HORIZON-CL4-2024-DIGITAL-EMERGING-01-34: Synergy with national and regional initiatives in Europe (CSA)	CSA	3		
HORIZON-CL4-2024-DIGITAL-EMERGING-01-42: Stimulating transnational research and development of next generation quantum technologies, including basic theories and components (Cascading grant with FSTP)	RIA	15		
HORIZON-CL4-2024-DIGITAL-EMERGING-01-45: Quantum sensing and metrology for market uptake (IA)	IA	15		

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Numérique, Industrie, Espace

Destination - Autonomie stratégique ouverte en développant, déployant et utilisant des infrastructures, services, applications et données mondiaux basés sur l'espace

Titre	Type	Budget (M€)	Date d'ouverture	Date limite
Autonomie stratégique en développant, déployant et utilisant des infrastructures, services, applications et données mondiaux basés sur l'espace 2023				
HORIZON-CL4-2023-SPACE-01-11: End-to-end Earth observation systems and associated services	IA	10,1	22-dec-22	28-mars-23
HORIZON-CL4-2023-SPACE-01-12: Future Space Ecosystem and Enabling Technologies	RIA	15		
HORIZON-CL4-2023-SPACE-01-13: Future Space Ecosystem: Management and Coordination Activity	CSA	2		
HORIZON-CL4-2023-SPACE-01-21: Low cost high thrust propulsion for European strategic space launchers - technologies maturation including ground system tests	RIA	20		
HORIZON-CL4-2023-SPACE-01-22: New space transportation solutions and services	RIA	23,1		
HORIZON-CL4-2023-SPACE-01-23: Modern, flexible and efficient European test, production and launch facilities	RIA	10		
HORIZON-CL4-2023-SPACE-01-31: Copernicus for Atmosphere and Climate Change, including CO2	RIA	8,6		
HORIZON-CL4-2023-SPACE-01-32: Copernicus for Emergency Management	RIA	3		
HORIZON-CL4-2023-SPACE-01-33: Copernicus in-situ component	RIA	2		
HORIZON-CL4-2023-SPACE-01-34: Copernicus for Marine Environment Monitoring	RIA	5		
HORIZON-CL4-2023-SPACE-01-62: Quantum Communication Technologies for space systems	RIA	5		
HORIZON-CL4-2023-SPACE-01-63: Quantum Space Gravimetry Phase-A Study	RIA	3		
HORIZON-CL4-2023-SPACE-01-71: Scientific exploitation of space data	RIA	10,7		
HORIZON-CL4-2023-SPACE-01-72: Space technologies for European non-dependence and competitiveness	RIA	20		
Autonomie stratégique en développant, déployant et utilisant des infrastructures, services, applications et données mondiaux basés sur l'espace 2024				
HORIZON-CL4-2024-SPACE-01-35: Copernicus for Land and Water	RIA	4	21-nov-23	20-fev-24
HORIZON-CL4-2024-SPACE-01-36: Copernicus for Security	RIA	8		

HORIZON-CL4-2024-SPACE-01-64: Quantum Space Gravimetry Phase-B study & Technology Maturation	RIA	14,2	21-nov-23	20-fev-24
HORIZON-CL4-2024-SPACE-01-73: Space technologies for European non-dependence and competitiveness	RIA	20,1		



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Numérique, Industrie, Espace

Destination - Un développement éthique et centré sur l'humain des technologies numériques et industrielles

Titre	Type	Budget (M€)	Date d'ouverture	Date limite
Un développement éthique et centré sur l'humain des technologies numériques et industrielles 2023				
HORIZON-CL4-2023-HUMAN-01-31: Toolbox for efficient IP licensing for market uptake and societal value creation (CSA)	CSA	2	08-dec-22	29-mars-23
HORIZON-CL4-2023-HUMAN-01-32: Piloting communities of expert facilitators to improve industry-academia-public sector co-creation (CSA)	CSA	2		
HORIZON-CL4-2023-HUMAN-01-33: Fostering	CSA	5		
HORIZON-CL4-2023-HUMAN-01-51: Pilots for an innovative human-centric industry (RIA)	RIA	10		
HORIZON-CL4-2023-HUMAN-01-52: Drivers and success factors for progress towards Industry 5.0 (RIA)	RIA	4		
HORIZON-CL4-2023-HUMAN-01-53: Localised and Urban Manufacturing, supporting creativity and the New European Bauhaus (RIA using FSTP)	RIA	10		
HORIZON-CL4-2023-HUMAN-01-54: Green and digital skills and training needs for a just transition (CSA)	CSA	2,5		
HORIZON-CL4-2023-HUMAN-01-62: Boosting industrial symbiosis by standardisation (CSA)	CSA	2		
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		
HORIZON-CL4-2023-HUMAN-01-64: Pre-normative research and standardisation in industrial ecosystems (CSA)	CSA	8		
HORIZON-CL4-2023-HUMAN-01-91: International Hub for Digital Partnerships in the Indo-Pacific (CSA)	CSA	2,5		
HORIZON-CL4-2023-HUMAN-01-92: R&I cooperation with Sub-Saharan Africa (CSA)	CSA	2		
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)	CSA	2		
Un développement éthique et centré sur l'humain des technologies numériques et industrielles (CNECT) 2023				
HORIZON-CL4-2023-HUMAN-01-01: Efficient trustworthy AI - making the best of data (AI, Data and Robotics Partnership) (RIA)	RIA	35	08-dec-22	29-mars-23

HORIZON-CL4-2023-HUMAN-01-02: Large Scale pilots on trustworthy AI data and robotics addressing key societal challenges (AI Data and Robotics Partnership) (IA)	IA	24	08-dec-22	29-mars-23
HORIZON-CL4-2023-HUMAN-01-03: Natural Language Understanding and Interaction in Advanced Language Technologies (AI Data and Robotics Partnership) (RIA)	RIA	20		
HORIZON-CL4-2023-HUMAN-01-04: Open innovation: Addressing Grand challenges in AI (AI Data and Robotics Partnership) (CSA)	CSA	4		
HORIZON-CL4-2023-HUMAN-01-05: Through AI from Disinformation to Trust (IA)	IA	10		
HORIZON-CL4-2023-HUMAN-01-11: Next Generation Internet Fund (RIA)	RIA	27		
HORIZON-CL4-2023-HUMAN-01-12: Pilots for the Next Generation Internet (IA)	IA	14		
HORIZON-CL4-2023-HUMAN-01-13: Next Generation Internet International Collaboration - USA (RIA)	RIA	4		
HORIZON-CL4-2023-HUMAN-01-14: Next Generation Internet Commons Policy (CSA)	CSA	2		
HORIZON-CL4-2023-HUMAN-01-21: Next Generation eXtended Reality (RIA)	RIA	26		
HORIZON-CL4-2023-HUMAN-01-22: eXtended Reality	IA	25		
HORIZON-CL4-2023-HUMAN-01-23: Supporting the emergence of an open human-centric Metaverse (CSA)	CSA	2		
HORIZON-CL4-2023-HUMAN-01-65: Support facility for digital standardisation and international cooperation in digital partnerships (CSA)	CSA	1,5		
HORIZON-CL4-2023-HUMAN-01-66: Promoting EU standards globally (CSA)	CSA	2,5		
HORIZON-CL4-2023-HUMAN-01-81: Digital Humanism - Putting people at the centre of the digital transformation (CSA)	CSA	1,5		
HORIZON-CL4-2023-HUMAN-01-82: Art-driven digital innovation: Towards human compatible and ecologically conscious technology (CSA)	CSA	3		
Un développement éthique et centré sur l'humain des technologies numériques et industrielles 2024				
HORIZON-CL4-2024-HUMAN-01-06: Explainable and Robust AI (AI Data and Robotics Partnership) (RIA)	RIA	30	15-nov-23	19-mars-24
HORIZON-CL4-2024-HUMAN-01-07: Collaborative intelligence – combining the best of machine and human (AI Data and Robotics Partnership) (RIA)	RIA	20		
HORIZON-CL4-2024-HUMAN-01-34: Support for transnational activities of National Contact Points in the thematic areas of Digital, Industry and Space (CSA)	CSA	5		

HORIZON-CL4-2024-HUMAN-01-61: Facilitate the engagement in global ICT standardisation development (CSA)	CSA	6	15-nov-23	19-mars-24
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