

Horizon Europe Funding Opportunities - 2024

Cluster 4 - Digital and Industry

Destinations 1,2,3,4,6

ISERD is the interface between the Israeli government and the EU, for all the activities of the Framework Programme. Our goal is to promote the participation of Israeli entities in European research and innovation (R&I) activity and to increase Israel's scientific and industrial collaboration with the European R&I ecosystem. ISERD holds [events](#), information days, and invites you to follow our [newsletter](#), and [website](#) providing more information about funding opportunities

Horizon Europe (HEU)

[HEU](#) is a 95.5-billion-euro funding programme for R&I, that covers all major scientific and technological disciplines, and encourages collaborative projects (consortia) for a joint goal.

- Consortium –
 - ✓ At least 3 partners from 3 different countries participating in the programme
 - ✓ At least 1 partner must be from a member state (EU country)
 - ✓ A partner can be any legal entity – university, company, agency, end-user, government entity etc...

- Funding Tools –

Action	Funding*	Main Characteristics
RIA – Research & Innovation Action	100% + 25%	Basic and applied research , technology development and integration, testing and validation - small-scale prototype in laboratory or simulated environment. Usually low TRL (1-4)
IA – Innovation Action	70% + 25%	Prototyping , testing, demonstrating, piloting, large-scale product validation and market replication . Usually high TRL (5-8)
CSA - Coordination & Support Action	100% + 25%	Networking , coordination or support services , policy dialogues and mutual learning exercises and studies

* Non-profit: always 100% + 25% overhead

[TRL](#) - Technology Readiness Level - a scale to measure the maturity level of a technology

[Lump-sum](#) - Funding procedure aimed to simplify budget allocation by removing the need to report actual costs

YouTube
Channel

Events

Previous Funded
Projects

Cluster 4 Work
Programme

For further information:

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Topic	Expected TRL	Topic Budget [M€]	Action	Deadline [dd.mm.yyyy]
Destination 1 - Climate neutral, Circular and Digitised Production				
D1 2024 Call Single Stage Call opening: 19.09.2023				
Manufacturing Industry				
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)	Start: 4 End: 6	35 (5-7 per project) (Lump-sum)	RIA	07.02.2024
HORIZON-CL4-2024-TWIN-TRANSITION-01-05: Technologies/solutions to support circularity for manufacturing (Made in Europe Partnership) (RIA)	Start: 4 End: 6	36 (4-6 per project)	RIA	07.02.2024
Energy Intensive Process Industries				
HORIZON-CL4-2024-TWIN-TRANSITION-01-32: Optimisation of thermal energy flows in the process industry (Processes4Planet partnership) (IA)	Start: 5 End: 7	30 (10-15 per project)	IA	07.02.2024
HORIZON-CL4-2024-TWIN-TRANSITION-01-34: Renewable hydrogen used as feedstock in innovative production routes (Processes4Planet Partnership) (RIA)	Start: 4 End: 6	20 (8-10 per project)	RIA	07.02.2024
HORIZON-CL4-2024-TWIN-TRANSITION-01-35: Turning CO2 emissions from the process industry to feedstock (Processes4Planet partnership) (IA)	Start: 5-6 End: 7	30 (10-15 per project)	IA 60% funding rate	07.02.2024
HORIZON-CL4-2024-TWIN-TRANSITION-01-38: Hubs for circularity for industrialised urban peripheral areas (Processes4Planet partnership) (IA)	Start: 5 End: 7	40 (15-20 per project)	IA	07.02.2024
HORIZON-CL4-2024-TWIN-TRANSITION-01-41: Breakthroughs to improve process industry resource efficiency (Processes4Planet partnership) (RIA)	Start: 4 End: 6	30 (10-12 per project) (Lump-sum)	RIA	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)	Start: 5 End: 6-7	10 (3-5 per project) (Lump-sum)	IA	07.02.2024
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)	Start: 4 End: 5-6	20 (3-5 per project)	RIA	07.02.2024
D1 2024 Call Two Stages Call opening: 19.09.2023				

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Manufacturing Industry				
HORIZON-CL4-2024-TWIN-TRANSITION-01-01: Bio-intelligent manufacturing industries (Made in Europe Partnership) (RIA)	Start: 4 End: 6	25 (4-5 per project) (Lump-sum)	RIA	First stage: 07.02.2024 Second stage: 24.09.2024
A New Way to Build, accelerating disruptive change in construction				
HORIZON-CL4-2024-TWIN-TRANSITION-01-12: Enhanced assessment, intervention and repair of civil engineering infrastructure (RIA)	End: 6	12 (5-6 per project) (Lump-sum)	RIA	First stage: 07.02.2024 Second stage: 24.09.2024
Destination 2 - Increased Autonomy in Key Strategic Value Chains for Resilient Industry				
D2 2024 Call Two Stages Call opening: 19.09.2023				
Strategic innovation markets driven by advanced materials				
HORIZON-CL4-2024-RESILIENCE-01-35: Biodegradable polymers for sustainable packaging materials (IA)	Start: 4 End: 6-7	31 (6-8 per project)	IA	First stage: 07.02.2024 Second stage: 24.09.2024
HORIZON-CL4-2024-RESILIENCE-01-36: Advanced biomaterials for the Health Care (IA)	Start: 3-4 End: 5-6	31 (6-8 per project) (Lump-sum)	IA	First stage: 07.02.2024 Second stage: 24.09.2024
D2 2024 Call Single Stage Call opening: 19.09.2023				
Raw Materials for EU open strategic autonomy and successful transition to a climate-neutral and circular economy				
HORIZON-CL4-2024-RESILIENCE-01-01: Exploration of critical raw materials in deep land deposits (RIA)	End: 3-5	20 (~5 per project)	RIA	07.02.2024
HORIZON-CL4-2024-RESILIENCE-01-04: Technologies for processing and refining of critical raw materials (IA)	End: 6-7	22 (~7.3 per project)	IA	07.02.2024
HORIZON-CL4-2024-RESILIENCE-01-08: Rare Earth and magnets innovation hubs (IA)	End: 6-7	32 (~16 per project)	IA	07.02.2024
HORIZON-CL4-2024-RESILIENCE-01-10: Addressing due diligence requirements in raw materials supply chains. (CSA)	-	2.2 (~2.2 per project) (Lump-sum)	CSA	07.02.2024

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HORIZON-CL4-2024-RESILIENCE-01-11: Technologies for extraction and processing of critical raw materials (IA)	End: 6-7	15 (~7.5 per project) (Lump-sum)	IA	07.02.2024
Safe and Sustainable by Design (SSbD) Chemicals and Materials				
HORIZON-CL4-2024-RESILIENCE-01-24: Development of safe and sustainable by design alternatives (IA)	Start: 4-5 End: 6-7	59 (12-15 per project)	IA	07.02.2024
Improving the resilience of EU businesses, especially SMEs and Startups				
HORIZON-CL4-2024-RESILIENCE-01-41: 'Innovate to transform' support for SME's sustainability transition (CSA)	-	10 (~5 per project) (Lump-sum)	CSA FSTP	07.02.2024
Destination 3 - World-leading Data and Computing Technologies				
D3 2024 Call Call opening: 15.11.2023				
Data sharing and analytics capacity				
HORIZON-CL4-2024-DATA-01-01: AI-driven data operations and compliance technologies (AI, data and robotics partnership) (IA)	Start: 4-5 End: 6-7	38 (8-10 per project)	IA 60% funding rate	19.03.2024
From Cloud to Edge to IoT for European Data				
HORIZON-CL4-2024-DATA-01-03: Piloting emerging Smart IoT Platforms and decentralized intelligence (IA)	Start: 3-4 End: 6-7	45 (20-25 per project)	IA FSTP	19.03.2024
HORIZON-CL4-2024-DATA-01-05: Platform Building, standardisation and Up-scaling of the 'Cloud-Edge-IoT' Solutions (Horizontal Activities - CSA)	-	2 (~2 per project)	CSA	19.03.2024
Destination 4: Digital & Emerging Technologies for Competitiveness and Fit for the Green Deal				
D4 2024 Call Call opening: 15.11.2023				
AI, Data and Robotics (incl. efficient, robust, safe, adaptive and trusted robots)				
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)	Start: 2-3 End: 4-5	30 (~8 per project)	RIA	19.03.2024

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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)	Start: 3-5 End: 6-7	60 (~10 per project)	IA FSTP	19.03.2024
Open Source for Cloud/Edge and Software Engineering Fundamentals to support Digital Autonomy				
HORIZON-CL4-2024-DIGITAL-EMERGING-01-21: Open Source for Cloud/Edge to support European Digital Autonomy (RIA)	Start: 4 End: 6	20 (4-6 per project)	RIA	19.03.2024
HORIZON-CL4-2024-DIGITAL-EMERGING-01-22: Fundamentals of Software Engineering (RIA)	Start: 2 End: 5	13.5 (4-6 per project) (Lump-sum)	RIA	19.03.2024
HORIZON-CL4-2024-DIGITAL-EMERGING-01-23: Public recognition scheme for Open Source (CSA)	-	2 (~2 per project) (Lump-sum)	CSA	19.03.2024
Graphene and 2D materials: Europe in the lead				
HORIZON-CL4-2024-DIGITAL-EMERGING-01-31: Pilot line(s) for 2D materials-based devices (RIA)	Start: 3-4 End: 5-6	33 (~33 per project)	RIA	19.03.2024
HORIZON-CL4-2024-DIGITAL-EMERGING-01-34: Synergy with national and regional initiatives in Europe (CSA)	-	3 (~3 per project) (Lump-sum)	CSA	19.03.2024
Flagship on Quantum Technologies: a Paradigm Shift				
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)	Start: 1-4 End: 6	15 (~15 per project)	RIA FSTP	19.03.2024
HORIZON-CL4-2024-DIGITAL-EMERGING-01-45: Quantum sensing and metrology for market uptake (IA)	Start: 4-5 End: 6-7	15 (4-5 per project)	IA	19.03.2024
European Innovation Leadership in Photonics				
HORIZON-CL4-2024-DIGITAL-EMERGING-01-54: Smart photonics for joint communication & sensing and access everywhere (Photonics Partnership) (RIA)	Start: 2 End: 5	18 (3-5 per project)	RIA	19.03.2024
HORIZON-CL4-2024-DIGITAL-EMERGING-01-55: Photonics Innovation Factory for Europe (Photonics Partnership) (IA)	Start: 2-5 End: 4-7	15 (~15 per project)	IA	19.03.2024

Topic	Expected TRL	Topic Budget [M€]	Action	Deadline [dd.mm.yyyy]
Destination 6: A human-centred and ethical development of digital and industrial technologies				
D6 2024 Call Call opening: 15.11.2023				
Leadership in AI based on trust				
HORIZON-CL4-2024-HUMAN-01-06: Explainable and Robust AI (AI Data and Robotics Partnership) (RIA)	Start: 2-3 End: 4-5	30 (9-10 per project)	RIA	19.03.2024
HORIZON-CL4-2024-HUMAN-01-07: Collaborative intelligence – combining the best of machine and human (AI Data and Robotics Partnership) (RIA)	Start: 2-3 End: 4-5	20 (~5 per project)	RIA	19.03.2024
European standards for industrial competitiveness				
HORIZON-CL4-2024-HUMAN-01-61: Facilitate the engagement in global ICT standardisation development (CSA)	-	6 (~6 per project) (Lump-sum)	CSA FSTP	19.03.2024
Other Actions Not Subject To Calls For Proposals				
HORIZON-CL4-2023-DIGITAL-EMERGING-01-FPA: Framework Partnership Agreement for developing large-scale quantum computers (FPA)	Start: 4-5 End: 6-7	25 (~25 per project)	FPA	Q2 2024