

Horizon Europe Funding Opportunities - 2025

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 a laboratory or simulated environment. Usually low TRL |
| IA – Innovation Action | 70% + 25% | Prototyping , testing, demonstrating, piloting, large-scale product validation and market replication . Usually high TRL |
| 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

Events

Previous Funded
Projects

Cluster 4 Work
Programme

For further information:

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Notes:

- **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
- **Non Eligible**- Participation of Associated Countries (including Israel) is prohibited

| Topic | Expected TRL | Topic Budget [M€] | Action | Deadline [dd.mm.yyyy] |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------|---------------------------------------------------------|--------|-----------------------|
| Destination 1: Achieving global leadership in climate-neutral, circular and digitised industrial and digital value chains | | | | |
| 2025 Call | | | | |
| Call opening: 22.05.2025 | | | | |
| Manufacturing | | | | |
| HORIZON-CL4-INDUSTRY-2025-01-TWIN-TRANSITION-01: Integrated approaches for remanufacturing (Made in Europe Partnership) | 5-7 | 35 (5-7 per project) | IA | 23.09.2025 |
| HORIZON-CL4-INDUSTRY-2025-01-TWIN-TRANSITION-02: Physical and cognitive augmentation in advanced manufacturing (Made in Europe Partnership) | 3-6 | 35 (4-6 per project) (Lump-sum) | RIA | 23.09.2025 |
| HORIZON-CL4-INDUSTRY-2025-01-TWIN-TRANSITION-05: Advanced manufacturing technologies for leadership of EU manufacturers in products for the net-zero industry (Made in Europe Partnership) | 6-7 | 42 (5-7 per project) | IA | 23.09.2025 |
| Construction | | | | |
| HORIZON-CL4-INDUSTRY-2025-01-TWIN-TRANSITION-11: Enhanced logistics and operations of construction sites | 5-7 | 13 (6.5 per project) (Lump-sum) | IA | 23.09.2025 |
| Energy-Intensive Industries - Decarbonisation and Energy Efficiency | | | | |
| HORIZON-CL4-INDUSTRY-2025-01-TWIN-TRANSITION-31: From heat-driven processes to the use of mechanical and electric forces (Processes4Planet partnership) | 7 | 25 (8-10 per project) | IA | 23.09.2025 |
| HORIZON-CL4-INDUSTRY-2025-01-TWIN-TRANSITION-32: Green and resilient flexible production processes (Processes4Planet partnership) | 6-7 | 25 (8-10 per project) | IA | 23.09.2025 |

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| HORIZON-CL4-INDUSTRY-2025-01-TWIN-TRANSITION-33: Integrated use of renewable energy carriers in industrial sites (Processes4Planet partnership) | 5-6 | 25 (6-8 per project) | RIA | 23.09.2025 |
| HORIZON-CL4-INDUSTRY-2025-01-TWIN-TRANSITION-34: Smart integration of net zero technologies into Energy Intensive industries (Processes4Planet and Made in Europe partnerships) | 6-7 | 25 (5-9 per project) | IA | 23.09.2025 |
| HORIZON-CL4-INDUSTRY-2025-01-TWIN-TRANSITION-37: Solving issues in carbon-neutral iron and steel making processes with diverse input materials of varying quality (Clean Steel Partnership) | 6 | 28 (14 per project) | RIA | 23.09.2025 |
| Energy-intensive Industries - Circularity and Zero Pollution | | | | |
| HORIZON-CL4-INDUSTRY-2025-01-TWIN-TRANSITION-35: Developing and embedding upcycling technologies into viable business (Processes4Planet partnership) | 7 | 48 (8-12 per project) (Lump-sum) | IA | 23.09.2025 |
| HORIZON-CL4-INDUSTRY-2025-01-TWIN-TRANSITION-36: Safe and clean processing technologies and products (Processes4Planet partnership) | 4-6 | 24 (6-8 per project) (Lump-sum) | RIA | 23.09.2025 |
| HORIZON-CL4-INDUSTRY-2025-01-TWIN-TRANSITION-38: Synergies and mutual learning with national and regional initiatives in Europe on Industrial decarbonisation (Processes4Planet and Clean Steel partnerships) | - | 1 (1 per project) (Lump-sum) | CSA | 23.09.2025 |
| HORIZON-CL4-INDUSTRY-2025-01-TWIN-TRANSITION-39: Towards human-centric, sustainable and resilient energy-intensive industries (Processes4Planet and Clean Steel partnerships) | - | 2 (2 per project) (Lump-sum) | CSA | 23.09.2025 |
| Social Circular Enterprises | | | | |

| Topic | Expected TRL | Topic Budget [M€] | Action | Deadline [dd.mm.yyyy] |
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| HORIZON-CL4-INDUSTRY-2025-01-TWIN-TRANSITION-21: Demonstrators for clusters of social circular enterprises | 6-7 | 10 (5 per project) | IA | 23.09.2025 |
| Destination 2: Achieving technological leadership for Europe's open strategic autonomy in raw materials, chemicals and innovative materials | | | | |
| 2025 Call Call opening: 22.05.2025 | | | | |
| Raw Materials | | | | |
| HORIZON-CL4-INDUSTRY-2025-01-MATERIALS-61: Technologies for critical raw materials and strategic raw materials from end-of-life products | 6-7 | 24 (8 per project) | IA | 23.09.2025 |
| HORIZON-CL4-INDUSTRY-2025-01-MATERIALS-62: Strategic Partnerships for Raw Materials: Innovative Approaches for sustainable production of Critical Raw Materials | 6-7 | 30 (7.5 per project) | IA | 23.09.2025 |
| HORIZON-CL4-INDUSTRY-2025-01-MATERIALS-63: Innovative solutions for the sustainable production for Semiconductor raw materials | 6 | 24 (8 per project) | IA | 23.09.2025 |
| HORIZON-CL4-INDUSTRY-2025-01-MATERIALS-64: EU Co-funded Partnership on raw materials for the green and digital transition (Programme Co-fund action) | - | 90 (90 per project) | - | 23.09.2025 |
| Innovative Advanced Materials | | | | |
| HORIZON-CL4-INDUSTRY-2025-01-MATERIALS-42: Innovative Advanced Materials (IAMs) for product monitoring, smart maintenance and repair strategies in the construction sector (Innovative Advanced Materials for Europe partnership) | 3-6 | 30 (6 per project) (Lump-sum) | RIA | 23.09.2025 |

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| HORIZON-CL4-INDUSTRY-2025-01-MATERIALS-43: Innovative Advanced Materials (IAMs) for robust, fast curing sealants and coatings for manufacturing and final assembly (Innovative Advanced Materials for Europe partnership) | 3-4 | 30 (6 per project) (Lump-sum) | IA | 23.09.2025 |
| HORIZON-CL4-INDUSTRY-2025-01-MATERIALS-44: Innovative Advanced Materials Innovation Procurement | - | 2 (2 per project) (Lump-sum) | CSA | 23.09.2025 |
| HORIZON-CL4-INDUSTRY-2025-01-MATERIALS-45: Materials Commons for Europe | 3-4 | 28 (28 per project) | IA | 23.09.2025 |
| 2025 Call Call opening: 10.06.2025 | | | | |
| HORIZON-CL4-2025-03-MATERIALS-46: Innovative Advanced Materials (IAMs) for photonics, enabling low-power and ultra-broadband performance for telecommunication (Innovative Advanced Materials for Europe partnership) | 3-6 | 10 (5 per project) | RIA | 02.10.2025 |
| HORIZON-CL4-2025-03-MATERIALS-47: Innovative Advanced Materials (IAMs) for conformable, flexible or stretchable electronics (Innovative Advanced Materials for Europe partnership) | 3-6 | 15 (5 per project) | RIA | 02.10.2025 |
| Safe and Sustainable by Design | | | | |
| HORIZON-CL4-INDUSTRY-2025-01-MATERIALS-51: Development of safe and sustainable by design alternatives to Perfluoroalkyl and Polyfluoroalkyl Substances (PFAS) | 3-4 | 30 (7 per project) (Lump-sum) | IA | 23.09.2025 |

| Topic | Expected TRL | Topic Budget [M€] | Action | Deadline [dd.mm.yyyy] |
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| HORIZON-CL4-INDUSTRY-2025-01-MATERIALS-52: Accelerate the uptake of life-cycle assessment (LCA) for Safe and Sustainable by Design (SSbD) chemicals and materials and resulting products | 3-4 | 15 (4-5 per project) | RIA | 23.09.2025 |
| HORIZON-CL4-INDUSTRY-2025-01-MATERIALS-31: Digitally enabled local-for-local textile and apparel production (Textiles for the Future Partnership) | 6-7 | 10 (5 per project) (Lump-sum) | IA | 23.09.2025 |
| Destination 3: Developing an agile and secure single market and infrastructure for data-services and trustworthy artificial intelligence services | | | | |
| 2025 Call Call opening: 10.06.2025 | | | | |
| Connected Collaborative Computing Networks (3C networks) | | | | |
| HORIZON-CL4-2025-03-DATA-08: Large-scale pilots for supply end-to-end infrastructures integrating device, network computing and communication capabilities for Telco Edge Cloud deployments, as a basis for Connected Collaborative Computing Networks (3C networks) | 3-7 Non Eligible | 75 (75 per project) | RIA | 02.10.2025 |
| HORIZON-CL4-2025-03-DATA-09: Alignment of stakeholders towards the supply-side large-scale pilot of end-to-end infrastructures integrating device, network computing and communication capabilities | - Non Eligible | 2.5 (1.8-2.5 per project) | CSA | 02.10.2025 |
| HORIZON-CL4-2025-03-DATA-10: Roadmap for next generation computing technologies from IoT device level to edge to cloud to HPC | - | 2.5 (1.8-2.5 per project) | CSA | 02.10.2025 |
| HORIZON-CL4-2025-03-DATA-11: Open Internet Stack: development of technological commons/open-source 3C building blocks | - | 10 (10 per project) | RIA | 02.10.2025 |

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| HORIZON-CL4-2025-03-DATA-12: Preparing the Advancement of the state of the art of submarine cable infrastructures | - Non Eligible | 2.10 (1.9-2.10 per project) | CSA | 02.10.2025 |
| AI-GenAI / Data / Robotics | | | | |
| HORIZON-CL4-2025-03-DATA-13: Fostering Innovative and Compliant Data Ecosystems (AI, Data and Robotics Partnership) | 6-8 | 45 (7 per project) | IA | 02.10.2025 |
| HORIZON-CL4-2025-04-DATA-02: Empowering AI/generative AI along the Cognitive Computing continuum (AI/Data/Robotics Partnership) | 3-7 | 30 (6-8 per project) | RIA | 02.10.2025 |
| HORIZON-CL4-2025-04-DATA-03: Software Engineering for AI and generative AI | 4-6 | 15 (4-6 per project) | RIA | 02.10.2025 |
| Destination 4: Achieving open strategic autonomy in digital and emerging enabling technologies | | | | |
| 2025 Call Call opening: 10.06.2025 | | | | |
| Quantum and High Performance Computing | | | | |
| HORIZON-CL4-2025-03-DIGITAL-EMERGING-01: Continuation of the Quantum Technologies Flagship | - | 4.5 (4.5 per project) | CSA | 02.10.2025 |
| HORIZON-CL4-2025-03-DIGITAL-EMERGING-02: Quantum Computing – complementing the quantum computing FPs with the development of a technology agnostic software stack | 3-6 Non Eligible | 10 (5 per project) | RIA | 02.10.2025 |
| HORIZON-CL4-2025-03-DIGITAL-EMERGING-03: International cooperation: joint research and development with the Republic of Korea | 2-5 | 8 (2.5-2.7 per project) | RIA | 02.10.2025 |
| HORIZON-CL4-2025-03-DIGITAL-EMERGING-04: Post-exascale HPC | - | 2.5 (2.5 per project) | CSA | 02.10.2025 |
| Photonics | | | | |

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|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------|-------------------------------------------------------|--------|-----------------------|
| HORIZON-CL4-2025-04-DIGITAL-EMERGING-01: Advanced sensor technologies and multimodal sensor integration for multiple application domains (IA) (Photonics Partnership) | 3-7 | 25 (4-6 per project) | IA | 02.10.2025 |
| AI-GenAI / Data / Robotics | | | | |
| HORIZON-CL4-2025-03-DIGITAL-EMERGING-07: Robust and trustworthy GenerativeAI for Robotics and industrial automation (AI/Data/Robotics & Made in Europe Partnerships) | 2-6 | 85 (40-45 per project) | RIA | 02.10.2025 |
| HORIZON-CL4-2025-04-DIGITAL-EMERGING-04: Assessment methodologies for General Purpose AI capabilities and risks (AI/Data/Robotics Partnership) | 2-5 | 7 (3-4 per project) | RIA | 02.10.2025 |
| HORIZON-CL4-2025-04-DIGITAL-EMERGING-05: Soft Robotics for Advanced physical capabilities (AI/Data/Robotics Partnership) | 4-7 | 20 (10 per project) | IA | 02.10.2025 |
| HORIZON-CL4-2025-04-DIGITAL-EMERGING-09: Challenge-Driven GenAI4EU Booster (AI/Data/Robotics Partnership) | 3-6 | 45 (15 per project) | RIA | 02.10.2025 |
| HORIZON-CL4-2025-04-DIGITAL-EMERGING-07: Enhanced Learning Strategies for General Purpose AI: Advancing GenAI4EU (AI/Data/Robotics Partnership) | 2-5 | 30 (15 per project) | RIA | 02.10.2025 |
| 2025 Call Call opening: 22.05.2025 | | | | |
| Artificial Intelligence in Science | | | | |
| HORIZON-CL4-INDUSTRY-2025-01-DIGITAL-61: AI Foundation models in science | 1-4 | 30 (6 per project) (Lump-sum) | RIA | 23.09.2025 |

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|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------|------------------------------------------------------|--------|-----------------------|
| HORIZON-CL4-INDUSTRY-2025-01-DIGITAL-62: Facilitated cooperation for AI in Science | 6-7 | 3 (3 per project) (Lump-sum) | CSA | 23.09.2025 |
| Destination 6: Digital and industrial technologies driving human-centric innovation | | | | |
| 2025 Call | | | | |
| Call opening: 10.06.2025 | | | | |
| Virtual Worlds | | | | |
| HORIZON-CL4-2025-03-HUMAN-14: Core technologies for virtual worlds (Virtual Worlds and Photonics Partnerships) | 3-5 | 43 (5-6 per project) | RIA | 02.10.2025 |
| HORIZON-CL4-2025-03-HUMAN-15: GenAI4EU: Generative AI for Virtual Worlds: Advanced technologies for better performance and hyper personalised and immersive experience (AI/Data/Robotics & Virtual Worlds Partnerships) | 4-6 | 20 (4-5 per project) | IA | 02.10.2025 |
| HORIZON-CL4-2025-03-HUMAN-16: Drive the evolution of the internet towards open and interoperable Web 4.0 and Virtual Worlds: building blocks in priority areas (Virtual Worlds Partnership) | - | 14.5 (1-3 per project) | RIA | 02.10.2025 |
| HORIZON-CL4-2025-03-HUMAN-17: Specific support for the Virtual Worlds Partnership and the Web 4.0 initiative (Virtual Worlds Partnership) | - | 2.5 (2.5 per project) | CSA | 02.10.2025 |
| AI-GenAI / Data / Robotics | | | | |
| HORIZON-CL4-2025-03-HUMAN-18: GenAI4EU central Hub (AI/Data/Robotics Partnership) | - | 3 (3 per project) | CSA | 02.10.2025 |
| Standardisation and Knowledge Valorisation | | | | |
| 2025 Call | | | | |
| Call opening: 22.05.2025 | | | | |
| HORIZON-CL4-INDUSTRY-2025-01-HUMAN-60: Horizon Standardisation Booster | - | 1.5 (1.5 per project) | CSA | 23.09.2025 |

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|---------------------------------------------------------------------------------------------------------------------------------------|--------------|------------------------------------------------------------|--------|-----------------------|
| HORIZON-CL4-INDUSTRY-2025-01-HUMAN-61: Standardisation landscape analyses tool | - | 1 (1 per project) (Lump-sum) | CSA | 23.09.2025 |
| HORIZON-CL4-INDUSTRY-2025-01-HUMAN-62: Artificial Intelligence for knowledge valorisation | - | 2 (2 per project) (Lump-sum) | CSA | 23.09.2025 |
| HORIZON-CL4-INDUSTRY-2025-01-HUMAN-63: Value creation pilots for scaling up innovative solutions | - | 2 (2 per project) (Lump-sum) | CSA | 23.09.2025 |
| HORIZON-CL4-INDUSTRY-2025-01-HUMAN-64: Pilot initiatives on Technology Infrastructures | - | 5 (0.5-1 per project) (Lump-sum) | CSA | 23.09.2025 |
| HORIZON-CL4-INDUSTRY-2025-01-HUMAN-65: Network of Industry 5.0 system innovation hubs in connected Regional Innovation Valleys | - | 3 (3 per project) (Lump-sum) | IA | 23.09.2025 |
| HORIZON-CL4-INDUSTRY-2025-01-HUMAN-66: Assessment of Technology Infrastructure needs in Ukraine | - | 1.5 (1-1.5 per project) (Lump-sum) | CSA | 23.09.2025 |
| International Cooperation | | | | |
| 2025 Call | | | | |
| Call opening: 10.06.2025 | | | | |
| HORIZON-CL4-2025-03-HUMAN-19: International cooperation in semiconductors | - | 3 (3 per project) | CSA | 02.10.2025 |

| Topic | Expected TRL | Topic Budget [M€] | Action | Deadline [dd.mm.yyyy] |
|-------------------------------------------------------|--------------|------------------------|--------|-----------------------|
| HORIZON-CL4-2025-04-HUMAN-08: GenAI for Africa | 4-6 | 5 (1-2 per project) | - | 02.10.2025 |