

Horizon Europe Funding Opportunities – 2021-2022

Cluster 5 – Cross-sectoral solutions for the climate transition

ISERD is the interface between the Israeli government and the EU, for all the activities of the Framework Programme. Our goal is to promote 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 [monthly Orientation Presentations](#), 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
 - ✓ Out of the 3, at least one partner must be from an EU country
 - ✓ A partner can be any legal entity – university, company, agency, organisation, etc...

- Funding Tools –

Action	Funding*	Technology Readiness Level	Main Characteristics
RIA – Research & Innovation Action	100% + 25%	Low TRL (4-6)	Basic and applied research , technology development and integration, testing and validation - small-scale prototype in laboratory or simulated environment
IA – Innovation Action	70% + 25%	High TRL (6-8)	Prototyping , testing, demonstrating, piloting, large-scale product validation and market replication
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

DISCLAIMER: The participation of Israeli entities, as Associated Country (Ac) members in Horizon Europe projects is subject to the signing of the 'Association Agreement' to the programme between Israel and the EU, before the project's Grant Agreement (GA) is signed.

HEU Orientation
Presentation

Events

Previous Funded
Projects

Additional Funding
Opportunities

For further information:

Ofir Weltsch Loyal | Ofir.Weltsch@iserd.org.il | +972-3- 5118181

Topic	Expected TRL	Topic Budget [M€]	No. of Projects	Action	Deadline [dd.mm.yyyy]
Destination 5 – Clean and competitive solutions for all transport modes					
Zero-emission road transport					
HORIZON-CL5-2021-D5-01-01: Nextgen vehicles: Innovative zero emission BEV architectures for regional medium freight haulage (2ZERO)	7-8	45	3	IA*	7.9.21
HORIZON-CL5-2021-D5-01-02: Nextgen EV components: Integration of advanced power electronics and associated controls (2ZERO)	5-6	20	4	RIA	7.9.21
HORIZON-CL5-2021-D5-01-03: System approach to achieve optimised Smart EV Charging and V2G flexibility in mass-deployment conditions (2ZERO)	5-7	25	3	RIA	7.9.21
HORIZON-CL5-2021-D5-01-04: LCA and design for sustainable circularity - holistic approach for zero-emission mobility solutions and related battery value chain (2ZERO & Batteries Partnership)	-	4	1	CSA	7.9.21
HORIZON-CL5-2022-D5-01-08: Modular multi-powertrain zero-emission systems for HDV (BEV and FCEV) for efficient and economic operation (2ZERO)	7-8	58	5	IA*	26.4.22
HORIZON-CL5-2022-D5-01-09: Nextgen EV components: High efficiency and low cost electric motors for circularity and low use of rare resources (2ZERO)	5-7	20	4	RIA	26.4.22
HORIZON-CL5-2022-D5-01-10: New generation of full electric urban and peri-urban Bus Rapid Transit systems to strengthen climate-friendly mass transport (2ZERO)	7-8	25	1	IA*	26.4.22
HORIZON-CL5-2022-D5-01-11: Stimulating Road Transport research and innovation dissemination and implementation in Europe and around the World	-	2	1	CSA	26.4.22
Aviation					
HORIZON-CL5-2021-D5-01-05: Greenhouse gas aviation emissions reduction technologies towards climate neutrality by 2050	2-4	25	6	RIA	7.9.21
HORIZON-CL5-2021-D5-01-06: Next generation digital aircraft transformation in design, manufacturing, integration and maintenance	2-4	25	5	RIA	7.9.21

Topic	Expected TRL	Topic Budget [M€]	No. of Projects	Action	Deadline [dd.mm.yyyy]
HORIZON-CL5-2022-D5-01-12: Towards a silent and ultra-low local air pollution aircraft	2-4	20	5	RIA	26.4.22
HORIZON-CL5-2022-D5-01-13: Digital aviation technologies for new aviation business models, services, emerging global threats and industrial competitiveness	2-4	20	5	RIA	26.4.22
HORIZON-CL5-2022-D5-01-14: European Aviation Research Policy in support to EU policies and initiatives	2-4	5	3	RIA	26.4.22
Enabling climate neutral, clean, smart, and competitive waterborne transport					
HORIZON-CL5-2021-D5-01-07: Enabling the safe and efficient on-board storage and integration within ships of large quantities of ammonia and hydrogen fuels (ZEWT Partnership)	6-7	20	2	IA	7.9.21
HORIZON-CL5-2021-D5-01-08: Enabling the full integration of very high power fuel cells in ship design using co-generation and combined cycle solutions for increased efficiency with multiple fuels (ZEWT Partnership)	5	15	1	RIA	7.9.21
HORIZON-CL5-2021-D5-01-09: CSA identifying waterborne sustainable fuel deployment scenarios (ZEWT Partnership)	-	0.5	1	CSA	7.9.21
HORIZON-CL5-2021-D5-01-10: Innovative on-board energy saving solutions (ZEWT Partnership)	5	20	4	RIA	7.9.21
HORIZON-CL5-2021-D5-01-11: Hyper powered vessel battery charging system (ZEWT Partnership)	6-7	14	2	IA	7.9.21
HORIZON-CL5-2021-D5-01-12: Assessing and preventing methane slip from LNG engines in all conditions within both existing and new vessels (ZEWT Partnership)	7	7	1	IA*	7.9.21
HORIZON-CL5-2021-D5-01-13: Digital Twin models to enable green ship operations (ZEWT Partnership)	5	7	1	RIA	7.9.21
HORIZON-CL5-2021-D5-01-14: Proving the feasibility of a large clean ammonia marine engine (ZEWT Partnership)	6-7	10	1	IA*	7.9.21

Topic	Expected TRL	Topic Budget [M€]	No. of Projects	Action	Deadline [dd.mm.yyyy]
HORIZON-CL5-2022-D5-02-01: Exploiting electrical energy storage systems and better optimising large battery electric power within fully battery electric and hybrid ships (ZEWTP Partnership)	7	16	2	IA*	26.4.22
HORIZON-CL5-2022-D5-02-02: Innovative non-battery electric energy storage systems on-board vessels (ZEWTP Partnership)	5	15	3	RIA	26.4.22
HORIZON-CL5-2022-D5-02-03: Exploiting renewable energy for shipping, in particular focusing on the potential of wind energy (ZEWTP Partnership)	5	18	2	RIA	26.4.22
HORIZON-CL5-2022-D5-02-04: Transformation of the existing fleet towards greener operations through retrofitting (ZEWTP Partnership)	7-8	25	5	IA*	26.4.22
HORIZON-CL5-2022-D5-02-05: Seamless safe logistics through an autonomous waterborne freight feeder loop service	5	15	1	RIA	26.4.22
HORIZON-CL5-2022-D5-02-06: Computational tools for shipbuilding	7-8	7	1	IA	26.4.22
Impact of transport on environment and human health					
HORIZON-CL5-2021-D5-01-15: Development and demonstration of cost affordable and adaptable retrofit solutions for tailpipe and brake polluting emissions	8	10	2	IA	7.9.21
HORIZON-CL5-2021-D5-01-16: Assessment of noise and particle emissions of L category vehicles from real driving conditions	5-6	5	1	RIA	7.9.21
HORIZON-CL5-2022-D5-02-07: Prevent smog episodes in Europe: Air quality impact of engine-emitted volatile, semi volatile and secondary particles	5	7	3	RIA	26.4.22
Cross-cutting issues					
HORIZON-CL5-2022-D5-01-08: Support for dissemination events in the field of Transport Research	-	1.5	1	CSA	7.9.21

* The funding rate is 60% of the eligible costs