

# Horizon Europe Funding Opportunities – 2021-2022

## Cluster 5 – Climate, Energy and Mobility

**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 – <b>Research &amp; Innovation Action</b>	100% + 25%	Low TRL (4-6)	Basic and applied <b>research</b> , technology development and integration, <b>testing</b> and validation - small-scale prototype in laboratory or simulated environment
IA – <b>Innovation Action</b>	70% + 25%	High TRL (6-8)	<b>Prototyping</b> , testing, demonstrating, piloting, large-scale product validation and <b>market replication</b>
CSA - <b>Coordination &amp; Support Action</b>	100% + 25%		<b>Networking</b> , coordination or <b>support services</b> , 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:

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Topic	Expected TRL	Budget Per Project [M€]	No. of Projects	Action	Deadline [dd.mm.yyyy]
<b>Destination 1 – Climate sciences and responses for the transformation towards climate neutrality</b>					
<b>Climate sciences and responses</b>					
<a href="#">HORIZON-CL5-2021-D1-01-01:</a> <b>Improved understanding of greenhouse gas fluxes and radiative forcers, including carbon dioxide removal technologies</b>	-	8	3	RIA	14.09.2021
<p>This topic aims at filling fundamental gaps in our understanding of Earth system, focussing on greenhouse gas (GHG) fluxes and Earth system feedbacks, the behaviour of radiative forcers (including their pre-cursors), and efforts to stabilise global temperature through deployment of carbon dioxide (CO<sub>2</sub>) removal approaches.</p> <p>Actions should improve scientific understanding <b>in only one</b> of the following areas:</p> <ol style="list-style-type: none"> <li>Greenhouse gas fluxes and Earth system feedbacks</li> <li>Global warming contribution of different, non-CO<sub>2</sub> radiative forcers</li> <li>Climate and Earth system responses to climate neutrality and net negative emissions</li> </ol> <p>Project results are expected to contribute <b>to all of the</b> following expected outcomes:</p> <ul style="list-style-type: none"> <li>Improved knowledge in the addressed areas, also through increasing the use of high quality data, leading to a better understanding of the processes driving climate change.</li> <li>Contribute to improved projections of climate change.</li> <li>Improve our understanding of how innovative mitigation actions can help stabilise global temperature.</li> <li>Improved understanding from these actions should be fed into improvements in Earth system models, climate services and other forms of downstream use.</li> </ul>					
<a href="#">HORIZON-CL5-2021-D1-01-02:</a> <b>Modelling the role of the circular economy for climate change mitigation</b>	-	5	3	RIA	14.09.2021
<p>Projects are to advance the understanding and modelling of the current and future potential contribution of the circular economy in Europe to GHG emissions reductions.</p> <p>Project results are expected to contribute <b>to all of</b> the following expected outcomes:</p> <ul style="list-style-type: none"> <li>Improve existing climate mitigation models by better representation of basic industrial value chains and potential mitigation technologies including the impact of circular economy.</li> <li>Improve the quantification of the impacts and potentials of the circular economy for climate change mitigation.</li> <li>Support the integration of the circular economy into climate action, policies and their evidence base.</li> <li>Support the integration of the GHG emission reduction in the circular economy criteria</li> </ul>					
<a href="#">HORIZON-CL5-2021-D1-01-03:</a> <b>Maximising the impact and synergy of European climate change research and innovation</b>	-	4-5	2	CSA	14.09.2021

Topic	Expected TRL	Budget Per Project [M€]	No. of Projects	Action	Deadline [dd.mm.yyyy]
<a href="#">HORIZON-CL5-2021-D1-01-04:</a> <b>Enhanced integrated assessment in pursuit of global climate goals</b>	-	5	3	RIA	14.09.2021
<p>Reflecting the nature of climate change as a global challenge, actions should be able to provide insights at global level and of relevance to major emitters and countries from different regions, with different levels of economic development and in-country scientific and institutional capacity</p> <p>Project results are expected to contribute <b>to all of</b> the following expected outcomes:</p> <ul style="list-style-type: none"> <li>• Provision of information for the preparation of climate policies and national planning for the post-2030 period.</li> <li>• Enhanced international cooperation among the modelling community and other relevant stakeholders to expand the provision of robust in-country advice to decision-makers around the world.</li> <li>• Enhanced mutual learning among the modelling, social science and policy communities</li> </ul>					
<a href="#">HORIZON-CL5-2021-D1-01-05:</a> <b>Better understanding of the interactions between climate change impacts and risks, mitigation and adaptation options</b>	-	6-7	3	RIA	14.09.2021
<p>Actions should deliver progress in integrating the analysis of the impacts and risks of climate change, mitigation pathways and adaptation strategies into a single framework to help understand and quantify their numerous interactions.</p> <p>Project results are expected to contribute to some the following expected outcomes:</p> <ul style="list-style-type: none"> <li>• Enhanced understanding of the interaction between adaptation measures and policies helping to overcome the silo approach.</li> <li>• Better knowledge about the risk and impacts of climate change and their interaction with mitigation pathways.</li> <li>• Enhanced legitimacy and robustness of assessment frameworks based on more realistic representation of climate processes and their impacts.</li> <li>• Actions should also improve the general understanding of the synergies between mitigation strategies</li> </ul>					
<a href="#">HORIZON-CL5-2021-D1-01-06:</a> <b>Supporting and standardising climate services</b>	-	9	1	CSA	14.09.2021
<a href="#">HORIZON-CL5-2021-D1-01-07:</a> <b>Improved economic methods for decision-making on climate and environmental policies</b>	-	3	2	RIA	14.09.2021

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Actions should focus on the improvement of methodologies conducting economic appraisal of environmental policies. Actions are expected to investigate limitations of mainstream economic theory and models used for environmental policy assessment

The work should encompass in-depth ex-post evaluation of the actual performance of selected climate and environmental policies at European

Actions should also examine the performance of different types of regulatory strategies

Project results are expected to contribute **to all of** the following expected outcomes:

- Enhanced operational capacities of the methods of economic analysis for climate and environmental policies.
- Practical recommendations and conceptual guidelines for improved, methodologically transparent economic approaches and practices for public policy design and evaluation in the domain of climate and environment.
- Proposals on ways to produce a better reflection of the specificities and risks of environmental challenges in public policy and promoting precautionary responses.
- Enhanced efficiency and legitimacy of European regulatory and policy decisions by providing decision-makers, stakeholders and the public with more realistic ability to systematically assess the options and their consequences.
- Improved capacity for decision making under the conditions of (extreme) uncertainty.
- New evidence on the effectiveness of various regulatory strategies, instruments and approaches for climate and environmental policies.

<u><a href="#">HORIZON-CL5-2021-D1-01-08:</a></u> <b>Restoration of natural wetlands, peatlands and floodplains as a strategy for fast mitigation benefits; pathways, trade-offs and co-benefits</b>	-	6-7	3	RIA	14.09.2021
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Projects are expected to assess the current extent and state of European wetlands, their current and potential GHG profile and their medium to long-term mitigation capacity through restoration or other measures

Project results are expected to contribute to some of the following expected outcomes:

- Improved assessment of the added value of wetland, peatland and floodplain restoration approaches and monitor their benefits and trade-offs in terms of greenhouse gas (GHG) emissions and removals, climate change adaptation.
- Improve the knowledge base on the status of European wetlands beyond the current state of the art on extent, location, condition, trends, type of management and pressures (including climate change), as well as restoration potential to understand their capacity as carbon sinks or GHG sources.
- Introduction of the quantified greenhouse gas abatement potential of wetland restoration.

<u><a href="#">HORIZON-CL5-2021-D1-01-09:</a></u> <b>The contribution of forest management to climate action: pathways, trade-offs and co-benefits</b>	-	6	3	RIA	14.09.2022
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Proposals under this topic should develop a comprehensive assessment of different pathways of the EU forest GHG balance in view of the reviewed 2030 and 2050 climate targets

Project results are expected to contribute **to some of** the following expected outcomes:

- A comprehensive assessment of the climate mitigation potential of EU forests and forest-based sector through modelling of different policy pathways.
- Development and improvement of robust and transparent methodologies for high-resolution monitoring and reporting of forest carbon pools and their interactions.

Two Stage					
<a href="#">HORIZON-CL5-2022-D1-01-01-two-stage:</a> <b>Carbon Dioxide Removal (CDR) approaches</b>	-	7	3	RIA	10.2.2022 (First Stage) 27.9.2022 (Second Stage)
<a href="#">HORIZON-CL5-2022-D1-01-02-two-stage:</a> <b>Socio-economic risks of climate change in Europe</b>	-	5	2	RIA	10.2.2022 (First Stage) 27.9.2022 (Second Stage)
<a href="#">HORIZON-CL5-2022-D1-01-03-two-stage:</a> <b>Social science for land-use strategies in the context of climate change and biodiversity challenges</b>	-	6-7	3	RIA	10.2.2022 (First Stage) 27.9.2022 (Second Stage)
<b>HORIZON-CL5-2022-D1-02-01:</b> <b>Verification and reconciliation of estimates of climate forcers</b>					
	-	5	3	RIA	10.2.2022
<b>HORIZON-CL5-2022-D1-02-02:</b> <b>Development of high-resolution Earth system models for global and regional climate change projections</b>					
	-	10	2	RIA	10.2.2022
<b>HORIZON-CL5-2022-D1-02-03:</b> <b>Improvement of Integrated Assessment Models in support of climate policies</b>					
	-	5	3	RIA	10.2.2022
<b>HORIZON-CL5-2022-D1-02-04:</b> <b>Supporting the formulation of adaptation strategies through improved climate predictions in Europe and beyond</b>					
	-	10	2	RIA	10.2.2022

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<a href="#">HORIZON-CL5-2022-D1-02-05:</a> <b>Let nature help do the job: Rewilding landscapes for carbon sequestration, climate adaptation and biodiversity support</b>	-	8-9	2	RIA	10.2.2022

\* The funding rate is 60% of the eligible costs