**Horizon Europe Funding Opportunities - 2022**

**EIC Pathfinder**

**ISERD** is the interface between the Israeli government and the European Union, encouraging Israeli entities to

participate in funding opportunities and assisting in the process. ISERD holds events, information days, and [monthly](https://www.innovationisrael.org.il/ISERD/page/news-events)

[Orientation Presentations](https://www.innovationisrael.org.il/ISERD/page/news-events) to give more information about funding opportunities

**Horizon Europe -**

[Horizon Europe](https://ec.europa.eu/info/horizon-europe_en) is a 95 billion euro funding programme for innovation and research, that covers all major scientific and technological disciplines, and encourages collaborative projects (consortium) 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 –

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| --- | --- | --- |
| **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 |
| IA – **Innovation Action** | 70% + 25% | **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%

**Focus of the calls –**

**For additional Information –**

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* Developing the scientific basis to underpin breakthrough technologies.
* Providing support for the earliest stages of scientific, technological, or deep-tech research and development (e.g. various activities at low Technology Readiness Levels 1-4)
* Build on new, cutting-edge directions in science and technology to disrupt a field and a market or create new opportunities by realising innovative technological solutions
* Two funding options:
	+ **Open call**: This funding has no predefined thematic priorities and is open to proposals in any field of science, technology, or application
	+ **Strategic challenges**: This funding targets strategic priorities and complements the calls for open funding. With each specific challenge call, the EIC will establish a portfolio of projects that explore different perspectives, competing approaches or complementary aspects of the Challenge.

**Target Audience-**

* Research organisations, universities
* SMEs, industry, spin-offs, start-ups
* For the Open call: Consortium that includes at least three independent legal entities, each one established in a different Member State or Associated Country and with at least one of them established in a Member State
* For the Challenges:
	+ Single legal entities established in a Member State or an Associated Country (unless stated otherwise in the specific challenge chapter) - mid-caps and larger companies will not be permitted
	+ Consortium that includes at least two independent legal entities established in different Member State or an Associated Country
	+ Consortium that includes more than two independent legal entities, with at least one of them established in a Member State

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| **Area** | **Topic & Short Description** | **Expected TRL** | **Topic Budget (M€)** | **Funding Terms** | **Deadline** |
| --- | --- | --- | --- | --- | --- |
| **EIC Pathfinder Open** | Open Call (Bottom-Up) | TRL 1-4 | EUR 183 million | RIABudget per project:EUR 3 million | Opening:1/3/2022Deadline:04/05/2022 |
| **EIC Pathfinder Challenges** | **Carbon dioxide and nitrogen****management and valorisation:**This Challenge aims at developing novel processes and technologies to enable CO2 and N management/valorisation and in turn to reduce:* greenhouse gas (GHG) emissions
* nitrogen losses (mainly due to agricultural practices), so minimizing impact on
* soil and water
* carbon losses from the energy, industrial, agricultural, and livestock sectors
 | TRL 1-4 | EUR 167million | RIABudget per project:EUR 4 million | Opening:15 /06/2022Deadline:26/10/2022 |
| **Mid to long term and systems integrated energy storage:**This Challenge aims at providing solutions that will optimize European energy storage and thus reduce its dependence on import of energy. The proposed solutions could include nature-based approaches and encompass multi-sectorial scientific domains |
| **Cardiogenomics:** The objectives for this Challenge are:* To identify single or multiple gene variants of high biological significance or other key molecules associated with the CVDs that would allow for accurate stratification of patients and guide the physician in their clinical management

and monitoring of these CVDs.* to identify novel targets based on these variants for specific CVD indication(s) that would allow for the development of first in class therapies for the same indication.
* to seek for novel technological solutions that could contribute to the development and acceleration of first in class therapies for major CVD conditions for which no effective treatments are currently available.
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| **EIC Pathfinder Challenges** | **Towards the Healthcare Continuum: technologies to support a radical shift from episodic to continuous healthcare:**The expected impact should be the establishment of the basis for the transformation of the prevailing episodic, symptom-triggered, healthcare system into continuous healthcare, in which individuals are accompanied continuously and unobtrusively by health monitoring technology and practitioners, proactively offering diagnosis and treatment. | TRL 1-4 | EUR 167million | RIABudget per project:EUR 4 million | Opening:15 /06/2022Deadline:26/10/2022 |
| **DNA-based digital data storage:** Proposals should contribute to achieving one or several of the following:* A range of new techniques with clear benefits and steps towards widening scope of applicability of DNA-based data storage.
* Broader range of scenarios and uses for DNA-based data technologies.
* Emergence and anchoring of a European innovation eco-system on DNA-based data technologies and applications.
* Contribution to standardisation in the field and benchmarks to gauche progress.
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| **Alternative approaches to Quantum Information Processing and Communication:** * Technology breakthroughs that form the basis for future information processing or communication technologies.
* Synergetic collaboration with existing European platforms, infrastructures, and innovation eco-systems in quantum technology.
* Increased diversity of information processing technologies platforms exploiting non-classical information theory approaches.
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