



AI tools in R&D project preparation

Joni Turunen - Spinverse
21.8.2025



About Spinverse

Innovation for growth and a better world

We are the Nordic leader in innovation consulting. We drive our customers to growth and solving global challenges with innovations.

We help our customers to collaborate, get funding and achieve impact with their innovative projects: digitalisation, sustainability, and growth companies are the key enablers.

2004
Established

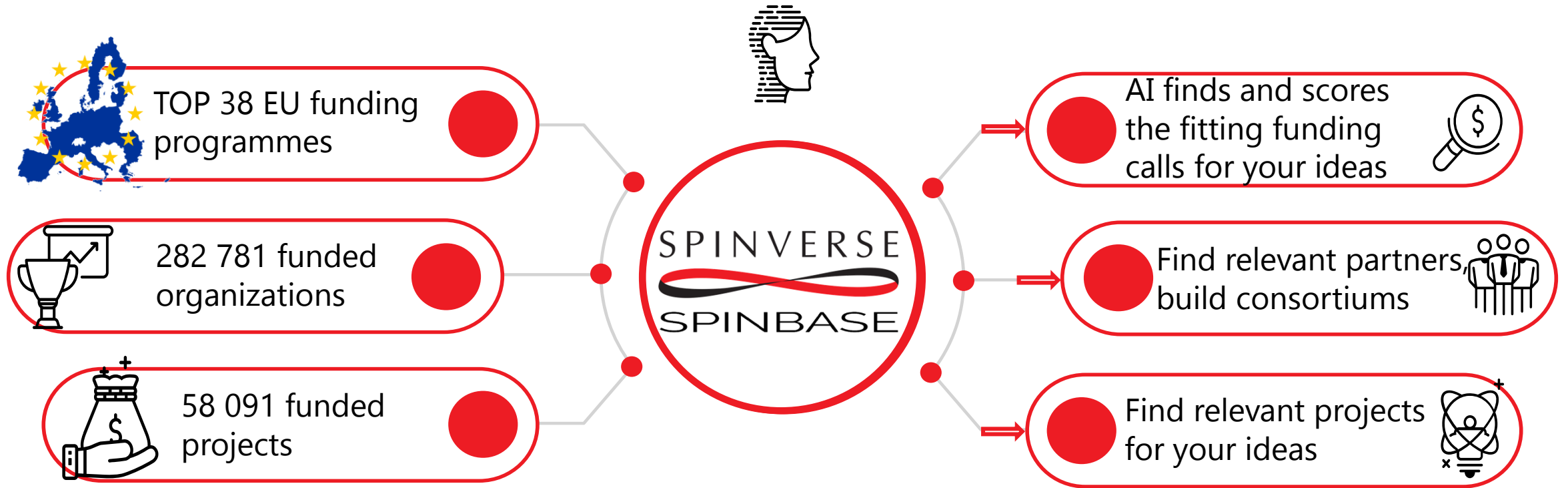
4.2+ B€
Large-scale
Innovation
Programmes
coordinated

2.5+ B€
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our customers

500+
Companies
engaged in
ecosystems

16 000
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63 countries at
our innovation
events

About Spinbase – AI-powered Search Engine



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wind power renewable energy offshore composite

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Call programme

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Partners

Projects

HORIZON-CL5-2025-02-D3-06 Innovative manufacturing of wind energy technologies

Expected Outcome:Project results are expected to contribute to all of the following expected outcomes:Energy consumers have access to affordable, clean, and secure energy with lower environmental impacts and improved health and safety working conditions along the entire value chain;The European wind energy supply chain strengthens its strategic autonomy, technology leadership, competitiveness, and technology export potential;The deployment of wind energy in Europe is facilitated thanks to innovations enabling large-volume manufacturing therefore contributing to the achievement of the Net Zero Industry Act. Scope:Proposals are expected to address at least three of the following aspects:Devel...

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76,20%
Match

02.09.2025
Deadline

28 M
€

ⓘ Type of action: HORIZON Innovation Actions

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HORIZON-CL5-2026-02-D3-08 Understand and minimise the environmental impacts of offshore wind energy

Expected Outcome:The EU's Offshore Strategy[1] underlines that the deployment of offshore wind should be based on maritime spatial planning, assessing the economic, social, and environmental sustainability of the installations in a life-cycle perspective, while ensuring co-existence with other activities such as commercial and recreational uses of the sea and fishing. At the same time, it calls for research on the cumulative impacts of offshore energy generation on the environment, which was also underlined in the Communication on Delivering on the EU offshore renewable energy ambitions (2023)[2].Our knowledge on such impacts, positive and negative, is more advanced now than when the Offshor...

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75,43%
Match

17.02.2026
Deadline

15 M
€

ⓘ Type of action: HORIZON Research and Innovation Actions

ⓘ TRL: 5

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15.08.2025

Funding information

Innovative manufacturing of wind energy technologies

Expected Outcome:

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

- Energy consumers have access to affordable, clean, and secure energy with lower environmental impacts and improved health and safety working conditions along the entire value chain;
- The European wind energy supply chain strengthens its strategic autonomy, technology leadership, competitiveness, and technology export potential;
- The deployment of wind energy in Europe is facilitated thanks to innovations enabling large-volume manufacturing therefore contributing to the achievement of the Net Zero Industry Act.

Scope:

Proposals are expected to address at least three of the following aspects:

- Develop and demonstrate innovative wind energy manufacturing technologies that improve the health and safety working conditions of staff along the supply chain;
- Develop and demonstrate innovative wind energy manufacturing technologies that allow for reduced energy and material consumption, increased circularity, lower costs and decreased pollution;
- Develop and demonstrate automated and/or semi-automated manufacturing solutions that ensure high-quality products, high productivity, increase the lifetime and the reliability of wind energy systems;
- Develop and demonstrate manufacturing solutions for wind energy technologies that allow for high production throughput, optimisation of logistics and transport of components and reduced impacts on the environment, cultural heritage, landscapes and people.

The project could, for instance, support the development of innovative manufacturing solutions for onshore and/or offshore wind energy production, including airborne wind energy. It could focus on specific components of a wind energy system (e.g., blades, nacelles and towers, gearboxes, foundations, generators, floaters, mooring systems, anchors, kites, etc.).

The project should analyse and report on the potential for standardisation of the solutions developed, as well as on possible connections with ongoing standardisation efforts.

The project must include a clear go/no-go milestone ahead of entering the demonstration phase. Before this go/no-go milestone, the project must deliver the detailed engineering plans, a techno-economic assessment, and all needed permits for the demonstrator. The project proposal is expected to present a clear and convincing pathway and timeline to obtaining the permits.

The project must assess the sustainability of the proposed solutions in environmental and socio-economic terms.

The demonstration must be at a realistic, representative scale and must cover a continuous interval of at least six months.

When developing improvements along the supply chain to improve the health and safety working conditions, projects must give special consideration to the gender dimension.

Whenever the expected exploitation of project results entails developing, creating, manufacturing and marketing a product or process, or in creating and providing a service, the plan for the exploitation and dissemination of results must include a strategy for such exploitation. The exploitation plan should include preliminary plans for scalability, commercialisation, and deployment (feasibility study, business plan) indicating the possible funding sources to be potentially used (in particular the Innovation Fund).

Topic information:

Programme

Horizon Europe (HORIZON) (2021 - 2027)

Topic status

Open

Call identifier

HORIZON-CL5-2025-02

Call title

Cluster 5 Call 02-2025 (WP 2025)

Publication date

N/A

Opening date

06 May 2025

Next deadline: 02 Sep 2025

Budget of the topic (EUR)

2025: 28 000 000

Expected contribution

7 000 000

Indicative number of grants

4

External links:

Topic page

> Interested organizations, as they are mentioned in EU open access databases (SEDIA)

> Topic tags

> Topic keywords

Funding search – longer query



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News Solar and batteries 28 May 2024 5 min
Innovative energy: Space solar and airborne wind turbines
Innovations are catalysts for change, pushing societies to redefine what's possible. With global demand for fossil-free electricity forecast to double in the coming decades, we take a closer look at four projects that could become viable options for the energy sector soon.

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Development, engineering, production and life-cycle management of improved FIBRE-based material solutions for structure and functional components of large offshore wind energy and tidal power platform

There is no doubt that the offshore renewable energy exploitation has a great potential to grow, and it will greatly help reach climate goals and CO2 reduction levels and are likely to secure Europe's technical and economic competitiveness. However, the open sea is a very aggressive environment with may largely affect the maintenance costs of the installations and therefore the overall cost of off...

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01.01.2021
Started

8M
€

Call: H2020-NMBP-ST-IND-2020-twostage

Coordinator: CENTRE INTERNACIONAL DE METODES NUMERIC EN ENGINYERIA

Bio-based, repairable and recyclable vitrimer composites and advanced sensors for highly reliable and sustainable wind blades

Today 2.5 million tonnes of composite material are in use in the wind energy sector globally. Wind turbine blades are made up of composite materials that allow lighter and longer blades with optimised aerodynamic shape, which boost the performance of wind energy. However, current wind blade composites exhibit relatively short life spans, are problematic to repair and are notoriously difficult to r...

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01.06.2024
Started

4M
€

Call: HORIZON-CL5-2023-D3-02

Coordinator: CONSORZIO PER LA PROMOZIONE DELLA CULTURA PLASTICA PROPLAST

Project information

Development, engineering, production and life-cycle management of improved FIBRE-based material solutions for structure and functional components of large offshore wind energy and tidal power platform ✕

Project objective

There is no doubt that the offshore renewable energy exploitation has a great potential to grow, and it will greatly help reach climate goals and CO2 reduction levels and are likely to secure Europe's technical and economic competitiveness. However, the open sea is a very aggressive environment with may largely affect the maintenance costs of the installations and therefore the overall cost of offshore energy generation. The owners of offshore assets are well aware of that and are paying a steep price. A massive amount of steel goes into those assets, and all this metal is subject to degradation, which explains why corrosion accounts for approximately 60% of offshore maintenance cost. Preventive maintenance is not just expensive but also reduces the operating life of the assets. Despite the convenient immunity to corrosion of Fibre Reinforced Polymers (FRP), the use of those materials for large marine structures is limited to secondary components. The main objective of the FIBREGY project is to enable the extensive use of FRP materials in the structure of the next generation of large Renewable Energy Offshore Platforms (REOPs) by overcoming the above mentioned challenges. In order to achieve this objective, the project will develop, qualify and audit innovative FRP materials for offshore applications, elaborate new design procedures and guidelines, generate efficient production, inspection and monitoring methodologies, and validate and demonstrate advanced software analysis tools. Clear performance indicators will be designed and applied in the evaluation of two existing REOPs concepts to be re-engineered in FRP in the project. Finally, the different technologies generated in FIBREGY will be demonstrated by using advanced simulation techniques and building a real-scale prototype to validate the materials, tools, solutions, procedures and guidelines to be developed in FIBREGY.

Project coordinator

CENTRE INTERNACIONAL DE METODES NUMERICS EN ENGINYERIA (ES)

Project information

Status
SIGNED

Project started
2021-01-01

Project ended
2023-12-31

Participants

- TIDETEC AS
- BUREAU VERITAS MARINE & OFFSHORE REGISTRE INTERNATIONAL DE CLASSIFICATION DE NAVIRES ET DE PLATEFORMES OFFSHORE
- IXBLUE
- TUCO YACHT VÆRFT APS
- CORSO MAGENTA
- COMPASS INGENIERIA Y SISTEMAS SA
- UNIVERSITY OF LIMERICK
- ENEROCEAN S.L.
- AVK-INDUSTRIEVEREINIGUNG VERSTÄRKTSTOFFE EV
- TECNICAS Y SERVICIOS DE INGENIERÍA, S.L.
- INEGI - INSTITUTO DE CIENCIA E INOVAÇÃO EM ENGENHARIA MECÂNICA E ENGENHARIA

Partner search



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Role

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Projects

EXAIL

Total projects as Participant: 17 with 144 573 065 € funding
Total projects as Partner: 1 with 3 881 935 € funding
Total projects as Coordinator: 2 with 10 091 175 € funding

Relevant projects:

Development, engineering, production and life-cycle management of improved FIBRE-based material solutions for structure and functional components of large offshore wind enerGY and tidal power platform

79 %

Save

79% Match

1 relevant project

Location: SAINT GERMAIN EN LAYE, FR
Type: Private Companies

COMPASS INGENIERIA Y SISTEMAS SA

Total projects as Participant: 4 with 30 853 087 € funding

Relevant projects:

Development, engineering, production and life-cycle management of improved FIBRE-based material solutions for structure and functional components of large offshore wind enerGY and tidal power platform

79 %

79% Match

1 relevant project

Location: BARCELONA, ES
Type: Private Companies

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☒ Horizon Europe (HORIZON)

Show 61 more options

Call status

☒ Draft

☒ Forthcoming

☒ Open

☐ Closed

Reset filters

Export all

> Export As Excel (.xlsx)

HORIZON-EUSPA-2026-SPACE-02-51 Services & Data coming from satellites

Space Data Economy

☒ Add to delete

HORIZON-EUSPA-2026-SPACE-02-52 Services & Data coming from satellites

Innovative space-based applications enhancing capabilities for a resilient Europe

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HORIZON-MSCA-2025-COFUND-02-01 MSCA Choose Europe for Science 2025

MSCA Choose Europe for Science 2025

☒ Add to delete

HORIZON-CL5-2026-01-D6-14 Cluster 5 Call 01-2026 (WP 2025)

Predicting and avoiding road crashes based on Artificial Intelligence (AI) and big data

☒ Add to delete

HORIZON-CL5-2026-01-D6-15 Cluster 5 Call 01-2026 (WP 2025)

Icing in the context of sustainable aviation

☒ Add to delete

HORIZON-CL5-2026-01-D6-05 Cluster 5 Call 01-2026 (WP 2025)

Approaches, verification and training for Edge-AI building blocks for CCAM Systems (CCAM Partnership)

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HORIZON-CL5-2026-01-D6-03 Cluster 5 Call 01-2026 (WP 2025)

Next-generation environment perception for real world CCAM operations: Error-free and secure technologies to improve energy-efficiency, cost-effectiveness, and circularity (CCAM Partnership)

☒ Add to delete

HORIZON-CL5-2026-01-D5-17 Cluster 5 Call 01-2026 (WP 2025)

Real time monitoring of regulated and non-regulated emissions from all types of vessels and other port activities in order to enforce emission limits in waterfront cities

☒ Add to delete

HORIZON-CL5-2026-01-D6-09 Cluster 5 Call 01-2026 (WP 2025)

Reliable data and practices to measure and calculate transport emissions in multimodal transport chains

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