Turkish NGO (coordinator) and its academy project partner seeking academic and industry partner for HORIZON-CL3-2026-01-INFRA-03 call proposal

Summary

Profile type	Company's country	POD reference
Research & Development Request	**Türkiye**	**RDRTR20260709015**
Profile status	**Type of partnership**	**Targeted countries**
PUBLISHED	**Research and development cooperation agreement**	**• All countries**
Contact Person	**Term of validity**	**Last update**
Enrico FRANZIN	**9 Jul 2026** **9 Jul 2027**	**9 Jul 2026**

General Information

Short summary

Turkish NGO (Coordinator) and its academic project partner are seeking academic and industrial partners for a proposal under the Horizon Europe call HORIZON-CL3-2026-01-INFRA-03.The project, IND-RESIST aims to strengthen the resilience of industrial ecosystems and critical infrastructures against cascading disaster risks through advanced digital twin technologies, data-driven maturity models, and infrastructure resilience assessment frameworks.

Full description

A Turkish coordinator, which is an industrial ecosystem organization, and its academic partner are building a consortium for the Horizon Europe call HORIZON-CL3-2026-01-INFRA-03: Resilient Industrial Ecosystems and Critical Infrastructure Passports against Cascading Disaster Risks. The project, “Next-Generation Digital Twins and Data-Driven Maturity Models for Enhancing Industrial Infrastructure Resilience against Extreme Seismic and Environmental Hazards,” aims to strengthen the resilience of industrial infrastructures against complex seismic and environmental hazards through advanced digital and data-driven approaches.
The Coordinator will lead the overall project management and coordination activities, oversee the industrial facility network involved in the project, coordinate the field implementation of the STADK-DH methodology, support the dissemination and exploitation of project results across industrial sectors, and contribute to the formulation of industrial resilience policy recommendations at the European level.
The Academic Partner will lead the development of GIS-based artificial intelligence risk modelling frameworks, digital simulation infrastructures, and cloud-based software architectures. In addition, it will be responsible for the scientific validation of seismic and environmental disaster risk scenarios and for ensuring the technical robustness of the project's analytical and modelling components.

Advantages and innovations

Within the scope of the project, the implementation of Full Alignment with SME Realities and Investment Optimization is one of the key objectives. In this context, the developed PaaS infrastructure will be designed in accordance with the financial realities of SMEs in Türkiye and the EU that are unable to allocate budgets for high-cost risk management consultancy services. The system will provide investment optimization plans and phased emergency Standard Operating Procedures (SOPs) aimed at achieving the highest level of risk reduction at the lowest possible cost. In doing so, it will help ensure that even enterprises transitioning from small-scale manufacturing workshops to industrial-scale production can remain operational and resilient in the event of a disaster.
In addition, the project will integrate Financial Incentives and a “Critical Infrastructure Passport” mechanism. The disaster resilience scores and digital passports generated by the platform will serve as objective and evidence-based inputs for the insurance sector, including reinsurance companies, in determining risk premiums. Facilities with higher resilience maturity scores will benefit from lower insurance premiums. Furthermore, these digital passports may be used as accredited reference documents to facilitate access to “Resilient Bonds” and low-interest green financing opportunities available under the EU Green Deal and sustainability funding frameworks. Consequently, disaster preparedness and resilience will be transformed from a perceived cost burden into a tangible financial advantage for industrial enterprises.

Technical specification or expertise sought

The project seeks academic and industrial partners with proven expertise in modeling the cascading impacts of seismic hazards, including earthquakes and tsunamis, on port infrastructure and coastal industrial zones. The partner will contribute to the scientific validation of multi-hazard risk scenarios while supporting the cross-border validation and pilot implementation of the digital platform and resilience maturity model within industrial clusters across different European contexts. The project also needs technology-oriented industrial or research partner with expertise in Digital Twin technologies, industrial risk assessment, and Seveso III/BEKRA-regulated facilities. The partners will be responsible for integrating industrial accident simulation tools, including fire and hazardous chemical release scenarios, into the platform and validating infrastructure resilience scorecards and smart building applications in industrial zones in line with EU standards and best practices.

Stage of development

Concept stage

Sustainable Development goals

• Goal 9: Industry, Innovation and Infrastructure
• Goal 11: Sustainable Cities and Communities

IPR Status

No IPR applied

IPR Notes

Partner Sought

Expected role of the partner

Partner 1
Academic Role: The partner will support the development and scientific validation of multi-hazard risk assessment methodologies, with a particular focus on the cascading impacts of earthquakes, tsunamis, and other seismic hazards on industrial and port infrastructures. It will contribute to model calibration, scenario analysis, and the validation of risk indicators used within the platform.
Industrial Role: The partner will participate in the cross-border validation and demonstration of the platform and resilience maturity model within industrial clusters, providing real-world data, pilot sites, and feedback to ensure the scalability and applicability of the proposed solutions across different industrial environments.
Partner 2
Academic Role: The partner will contribute technical expertise in Digital Twin technologies, industrial risk modeling, and simulation-based decision-support systems, supporting the development and validation of methodologies for analyzing complex industrial accident scenarios and infrastructure resilience.
Industrial Role: The partner will integrate Digital Twin and industrial accident simulation tools into the platform, including scenarios related to fires, explosions, and hazardous material releases. It will also lead pilot testing and validation activities in industrial zones, ensuring compliance with EU standards and demonstrating the operational effectiveness of the developed solutions.

Type of partnership

Research and development cooperation agreement

Type and size of the partner

- **SME <=10**
- **University**
- **SME 11-49**
- **SME 50 - 249**
- **Big company**
- **R&D Institution**

Call Details

Framework program

Horizon Europe

Call title and identifier

HORIZON-CL3-2026-01-INFRA-03: Resilient Industrial Ecosystems and Critical Infrastructure Passports against Cascading Disaster Risks.

Submission and evaluation scheme

Anticipated project budget

Coordinator required

No

Deadline for EoI

18 Oct 2026

Deadline of the call

5 Nov 2026

Project duration in weeks

144

Web link to the call

Project title and acronym

**IND-RESIST (Industrial Ecosystem Resilience & Data-Driven Disaster Risk Management)
Next-Generation Digital Twins and Data-Driven Maturity Models for Enhancing Industrial Infrastructure Resilience against Extreme Seismic and Environmental Hazards.**

Dissemination

Technology keywords

- **10002009 - Natural Disasters**
- **01001002 - Digital Systems, Digital Representation**

Market keywords

- **02007027 - Other software services**
- **02007028 - Other software related**
- **02007001 - Systems software**

Targeted countries

- **All countries**

Sector groups involved