

# Horizon Europe R&D Request for Multi-Hazard and Climate Resilience Modelling – University Research Lab Seeking Project Coordinator

## Summary

Profile type

**Research & Development Request Greece**

Company's country

POD reference

**RDRGR20260205018**

Profile status

**PUBLISHED**

Type of partnership

**Research and development cooperation agreement**

Targeted countries

- Poland
- Spain
- Italy
- Germany
- Romania
- Finland

Contact Person

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Term of validity

**5 Feb 2026  
5 Feb 2027**

Last update

**5 Feb 2026**

## General Information

Short summary

A university research laboratory based in Greece is preparing a proposal for the Horizon Europe call HORIZON-CL3-2026-01-DRS-02, focusing on multi-hazard and cascading risk analysis in urban environments. The lab offers advanced data-modelling expertise to analyse interactions between climate-related extremes and critical infrastructures. It seeks an experienced coordinator to lead an Innovation Action and integrate the modelling approach into a wider climate resilience and urban safety project.

### Full description

Current disaster risk management practices often assess hazards in isolation, despite increasing evidence that climate-related extremes frequently occur jointly or trigger cascading failures across interconnected urban systems. This project concept addresses the need for integrated, multi-hazard approaches by developing methods to model dependencies between extreme events and their cumulative impacts on critical infrastructures such as energy, transport and communication networks.

The university research laboratory contributes expertise in advanced statistical data modelling and artificial intelligence, with a focus on analysing concurrent and sequential extreme events. Its research aims to move beyond static risk maps by incorporating temporal dynamics that allow the simulation of cascading effects, for example when an initial hazard leads to secondary disruptions over time.

The planned proposal will be submitted under Horizon Europe, Civil Security for Society, call HORIZON-CL3-2026-01-DRS-02 (Innovation Action, lump-sum). The project foresees a duration of approximately 156 weeks, with a call deadline of 5 October 2026 and an expression of interest deadline of 5 November 2026.

The laboratory seeks to participate as a research and technology partner and is actively looking for a project coordinator with proven experience in Horizon Europe Innovation Actions. The coordinator is expected to lead proposal development, manage administrative and financial responsibilities, and facilitate the involvement of mandatory end-user authorities required by the call. Additional partners are expected to contribute expertise in disaster risk management, infrastructure operation, interoperability and social vulnerability analysis.

### Advantages and innovations

The proposed approach introduces a systematic method to analyse multi-hazard interactions by explicitly modelling statistical dependencies between extreme events rather than treating them as independent occurrences. This enables more realistic assessment of compound and cascading risks in urban environments.

Key advantages include the integration of advanced statistical methods with AI-based scenario analysis, allowing dynamic simulation of how failures propagate across interconnected infrastructures over time. The modelling framework supports stress-testing of urban systems under complex hazard scenarios and contributes quantitative metrics that combine physical impacts with contextual vulnerability factors.

Compared to conventional risk assessment tools, the approach supports decision-makers with forward-looking analyses of cascading effects, supporting preparedness and resilience planning aligned with the objectives of the Horizon Europe Civil Security for Society programme.

### Technical specification or expertise sought

- Technical Specification or Expertise Sought
- Greek University lab's expertise (offer to the Consortium):
- Predictive Data Modeling: proprietary algorithms capable of simulating temporal cascading failures across interdependent urban networks (e.g., Energy -> Telecom -> Transport).
- Urban Digital Twin Integration: Expertise in ingesting geospatial data (GIS) and real-time sensor feeds to create dynamic "stress-test" environments for critical infrastructure.
- Resilience Analytics: Development of quantitative metrics that combine physical damage assessments with social vulnerability indicators (e.g., population density, mobility constraints).
- Expertise Sought by the lab:
- Project Coordinator (Primary Requirement): an experienced organization is sought to lead this Innovation Action (IA). The coordinator must have a proven track record in managing Horizon Europe grants, leading proposal preparation, and handling administrative/financial interfaces with the European Commission.
- Disaster Management Authorities: To meet the strict eligibility of call HORIZON-CL3-2026-01-DRS-02, the consortium must include at least 2 national risk authorities and 2 local/regional response authorities. A coordinator is sought who can bring these end-users into the consortium or facilitate their recruitment.
- System Interoperability Partners: Technical partners capable of standardizing the lab's model outputs for legacy national warning systems and European platforms (e.g., Copernicus CEMS).

### Stage of development

#### Concept stage

### Sustainable Development goals

- **Goal 13: Climate Action**
- **Goal 3: Good Health and Well-being**
- **Goal 9: Industry, Innovation and Infrastructure**
- **Goal 11: Sustainable Cities and Communities**
- **Goal 6: Clean Water and Sanitation**
- **Goal 17: Partnerships to achieve the Goal**

### IPR Status

### IPR Notes

IPR Notes

## Partner Sought

### Expected role of the partner

1. Project Coordinator (strategic need) A Coordinator is sought to lead the consortium and submit a proposal for HORIZON-CL3-2026-01-DRS-02. The ideal coordinator should be an R&D institution, University, or large enterprise with:

- Proven experience in managing Horizon Europe Innovation Actions (IA).
- The capacity to handle administrative, financial, and legal interfaces with the European Commission.
- Existing networks to facilitate the recruitment of required end-users (see below).

2. Mandatory End-User Authorities (Call Eligibility) To fulfill the specific eligibility conditions of this topic, the consortium must include:

- At least 2 National Authorities responsible for disaster risk or crisis communication (e.g., Civil Protection Agencies, Ministry of Interior).
- At least 2 Local/Regional Authorities responsible for disaster response (e.g., Municipalities, Fire Departments, Regional Emergency Centers).
- Note: These participants must come from at least 3 different EU Member States.

3. Technical & Research Partners Partners are also sought with complementary expertise to support the "Multi-Hazard Dependency Model":

- Interoperability Experts: To ensure model outputs are compatible with national legacy systems and European platforms like the Copernicus Emergency Management Service (CEMS) and Galileo/EGNOS.
- Social Science Researchers: To provide data on social vulnerability (gender, age, disabilities) and assist in developing holistic risk metrics that go beyond physical infrastructure damage.
- Infrastructure Operators: Operators of critical lifelines (Energy, Water, Transport) to provide grid topology data and participate in scenario-based stress testing.

### Role of Partners in the Project:

- Co-design: Define operational requirements and use-cases for the "domino effect" prediction models.
- Validation: Participate in pilot demonstrations to test the accuracy and utility of the developed resilience metrics in real-world scenarios.
- Data Sharing: Provide access to historical disaster datasets and real-time sensor feeds where applicable.

### Type of partnership

**Research and development cooperation agreement**

### Type and size of the partner

- **R&D Institution**
- **SME 50 - 249**
- **Big company**
- **University**

## Call Details

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Framework program

**Horizon Europe**

Call title and identifier

**Multi-hazard approach and cumulative / cascading impacts (HORIZON-CL3-2026-01-DRS-02).**

Submission and evaluation scheme

**Innovation Action (IA) - Lump Sum Grant.**

Anticipated project budget

Coordinator required

**Yes**

Deadline for EoI

**1 Oct 2026**

Deadline of the call

**5 Oct 2026**

Project duration in weeks

**156**

Web link to the call

[https://ec.europa.eu/info/funding-tenders/opportunities/docs/2021-2027/horizon/wp-call/2026-2027/wp-6-civil-security-for-society\\_horizon-2026-2027\\_en.pdf](https://ec.europa.eu/info/funding-tenders/opportunities/docs/2021-2027/horizon/wp-call/2026-2027/wp-6-civil-security-for-society_horizon-2026-2027_en.pdf)

Project title and acronym

## Dissemination

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Technology keywords

- **10001003 - Fire Safety Technology**
- **11002 - Education and Training**
- **01003025 - Internet of Things**
- **01003008 - Data Processing / Data Interchange, Middleware**

Market keywords

- **07005004 - Education and educational products and materials**
- **02006004 - Data processing, analysis and input services**
- **08002001 - Energy management**



Targeted countries

- **Poland**
- **Spain**
- **Italy**
- **Germany**
- **Romania**
- **Finland**

Sector groups involved

- **Proximity & Social Economy**
- **Digital**

