PRESS RELEASE

RISKADAPT Pilots 3 & 4 Demonstration in Trieste, Italy

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Press release

The RISKADAPT project successfully completed its third and fourth pilot demonstrations, showcasing the PRISKADAPT platform's ability to support climate risk assessment and adaptation planning for critical infrastructure.

The Pilot 3 demonstration and training workshop, held in Trieste, Italy, focused on the resilience of Cattinara Hospital, a tall healthcare building exposed to wind-related climate hazards. The event was hosted by the Municipality of Trieste and brought together more than 35 participants, including local stakeholders, civil protection authorities, municipal representatives, and technical experts. Participants engaged in hands-on training sessions with the PRISKADAPT platform, exploring its modules for climate risk mapping, vulnerability assessment, and adaptation planning.

In addition to the Italian case study, the workshop also presented Pilot 4, which evaluated climate risks for four high-rise buildings in Hong Kong, further demonstrating the platform's adaptability to diverse infrastructure types and geographical contexts. Both pilots addressed the challenges posed by high-wind hazards in complex urban environments, highlighting the platform's role in integrating climatological analysis, structural assessment, life-cycle evaluation, and social impact modelling.

Feedback collected from stakeholders confirmed the platform's usability, relevance, and innovation potential. Participants highlighted strengths such as integrated risk assessment, data visualization, and scenario analysis, while also suggesting enhancements in user interface design and interactivity. Two questionnaires on social impact and citizen perceptions revealed high awareness of climate risks and a strong demand for accessible information and guidance following extreme weather events.

The Trieste event also coincided with RISKADAPT's 4th Plenary Meeting, where project partners reviewed progress, coordinated upcoming deliverables, and planned the final steps toward delivering a robust, practical, and user-friendly platform for climate risk management.

These demonstrations confirm PRISKADAPT's value as a decision-support tool for infrastructure adaptation across Europe and beyond, reinforcing the importance of stakeholder-driven development and cross-regional knowledge exchange.

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PROJECT SUMMARY

RISKADAPT will provide, in close cooperation with the end-users/other stakeholders, a novel, integrated, modular, interoperable, public and free, customizable user-friendly platform (PRISKADAPT), to support systemic, risk-informed decisions regarding adaptation to Climate Change induced compound events at the asset level, focusing on the structural system. PRISKADAPT will explicitly model dependencies between infrastructures, which, inter alia, will provide a better understanding of the nexus between climate hazards and social vulnerabilities and resilience. Moreover, this project will identify gaps in data and propose ways to overcome them and advance the state of the art of asset level modelling through: (a) advanced climate science to predict Climate Change forcing on the structure of interest; (b) structural analyses, customized to the specific structure of interest, that consider all major Climate Change induced load effects in tandem with deterioration; (c) novel probabilistic environmental life cycle assessment (LCA) and life cycle cost (LCC) of structural adaptation measures; and (d) a new model to assess climate risk that combines technical risk assessment with assessment of social risks. PRISKADAPT will provide values to a set of indicators for each asset of interest, quantifying primary parameters and impacts, in the form of a Model Information System (MIS) that will provide all required information for adaptation decisions. PRISKADAPT will be implemented in the case studies of four pilots that involve specific assets, however, it will permit customization with local values of parameters and data, so it can be applicable for Climate Change adaptation decisions involving assets of similar function in any location, exposed to multiple climate hazards.

Fast Facts:
Project number: 101093939
Starting date → 01.01.2023
Project information → 36 months | 17 partners | EU contribution 2.533.536,00 €
Coordinator → RISA Sicherheitsanalysen GmbH

Consortium Partners:
RISA Sicherheitsanalysen GmbH (RISA) | Ilmatieteen laitos (FMI) | Utrecht University (UU) | University of Groningen (RUG) | Federation of the European Precast Concrete Industry (BIBM) | Alma Mater Studiorum – Università di Bologna (UNIBO) | University of Stuttgart – Department of Lifecycle Engineering (USTUTT) | Univerza v Ljubljani (ULFGG) | RINA Consulting S.p.A. (RINA) | Tecnic Consulting Engineers (Tecnic) | Environmental Reliability & Risk Analysis (ERRA) | Region of Western Macedonia (RWM) | Municipality of Trieste (MTr) | Sustainable City Network (SCN) | Fingrid Oyj (Fingrid) | University of Hong Kong (UHK) | University of Birmingham (UOB)

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