

# PROJECT NEWSLETTER

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Photo credit: Mitja Legat

In a world grappling with unpredictable climate patterns, the X-RISK-CC project, in partnership with ten allies across the Alpine Space, is charting the course for risk managers and policymakers. Together, we're tackling the intricate challenges brought about by extreme weather events in our changing climate.

### X-RISK-CC WHAT'S GOING ON?

Our journey kicked off with a deep dive into the realm of extreme weather. Harnessing data from our pilot areas, we embarked on a comprehensive assessment of the likelihood of meteorological extremes. This included analyzing the significant Vaia storm in Trentino South Tyrol. Simultaneously, we scrutinized historical and current trends in climate drivers impacting the region, with a particular focus on intense precipitation in the Gorenjska Region. We expanded these assessments across the entire Alpine Space, leveraging innovative downscaling methods to enhance the precision of climate projections and better equip us for preparedness and planning.

### Understanding Risks and Impacts

In Work Package 2, our focus shifted to the collection of vital data concerning hazards, vulnerability, and exposure in our pilot areas. This forms the cornerstone of our efforts to assess risks associated with extreme events. Our approach combines quantitative tools, such as a modular scheme for assessing compound and cascading hazards, with qualitative methods that delve into sequential impact chains. To extend the reach of our impact analysis across the Alpine Space, we've introduced a data-driven scheme. This innovative approach assists in modeling and predicting impact probabilities linked to weather conditions, climate drivers, and other environmental factors.

### Rapid Risk Management and Collaboration

Within Work Package 3, we've successfully developed a rapid risk management appraisal approach. This method will guide upcoming workshops in each pilot area, where local experts and decision-makers will assess the strengths and limitations of risk practices during targeted extreme events. Our recent partner meeting in Munich further cemented the crucial link between the scientific analyses in Work Packages 1 and 2 and the practical needs outlined in Work Package 3. Together, we've laid the groundwork for the risk assessment manual and pilot action plans.

# Highlights

from the pilot areas



## EXPLORING VAIA EMERGENCY MANAGEMENT PROGRESS

On October 24th, the PAT X-RISK-CC team participated as observers in the first South-Tyrol stakeholder engagement workshop organized by the Bolzano Civil Protection Agency partners at the Latemar Forestry School in Nova Levante. In fact, the Trentino team is preparing the first workshop dedicated to the challenges of Vaia emergency management, which will be held in December 2023 in the territory of the Fiemme and Fassa Valleys, which constitute the project's pilot area for the Autonomous Province of Trento.

Similar to what was done by our colleagues in Alto Adige, this will be a half-day event in which the strengths and weaknesses of Vaia emergency management at the provincial level will be analyzed in retrospect way for what concerns the different phases, from pre-event prevention and preparedness to post-event response and recovery. The goal is establishing the knowledge foundation necessary to identify in a shared way the best strategies for the management of similar events in the future, thanks to the experience gained and the collaboration of those who have been directly involved in recent years, such as the relevant provincial structures, municipalities, fire brigades, forestry operators and other stakeholders in Trentino.

Please continue to follow this newsletter, the website and the project social channels to stay informed about the results of this first scheduled participatory event and the overall progress of X-RISK-CC.

## PROJECT PARTNERS

- European Academy of Bozen-Bolzano – EURAC Research (Lead partner)
- Civil Protection Agency, Autonomous Province of Bolzano
- Autonomous Province of Trento
- Slovenian Environment Agency
- Development agency Sora
- Auvergne Rhône-Alpes Energy Environment Agency
- GeoSphere Austria
- Forest-technical service for torrent and avalanche control, Section Tyrol
- Technical University of Munich
- Swiss Federal Institute for Forest, Snow and Landscape Research WSL
- Environment Agency Austria

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