



CrossEU

December 2024 - September 2025

CrossEU Newsletter

Updates, news and insights that inspire actions!



The CROSSEU project is critically important for addressing the growing societal challenges posed by climate change. By developing a science-based decision support system, it equips stakeholders with the tools needed to understand and manage climate risks, particularly in the context of Europe's green transition. Its focus on biogeophysical and socio-economic risks allows for informed decision-making, investment, and policy responses across multiple sectors.

The project's integration of climate-sensitive frameworks and modelling will help societies better anticipate and adapt to future climate impacts, ensuring resilience and equity. Its comprehensive approach to climate adaptation, mitigation strategies, and cross-sectoral linkages addresses not only immediate challenges but also long-term goals, supporting the transformation to a climate-resilient Europe.

The inclusion of diverse stakeholders throughout the project cycle ensures that the solutions are practical, actionable, and aligned with real-world needs, enhancing societal resilience and advancing climate action across Europe.

The CROSSEU project is not just a research initiative it's a transformative tool for societal change. By integrating climate science with socio-economic analysis, it empowers stakeholders at all levels to make informed, equitable, and resilient decisions. As the project addresses the multifaceted challenges of climate change, its outputs will be indispensable for shaping a climate-resilient Europe, where both people and the planet thrive in the face of future uncertainties.

Sorin Cheval, CROSSEU Coordinator, National Meteorological Administration, Bucharest, Romania

Success Stories

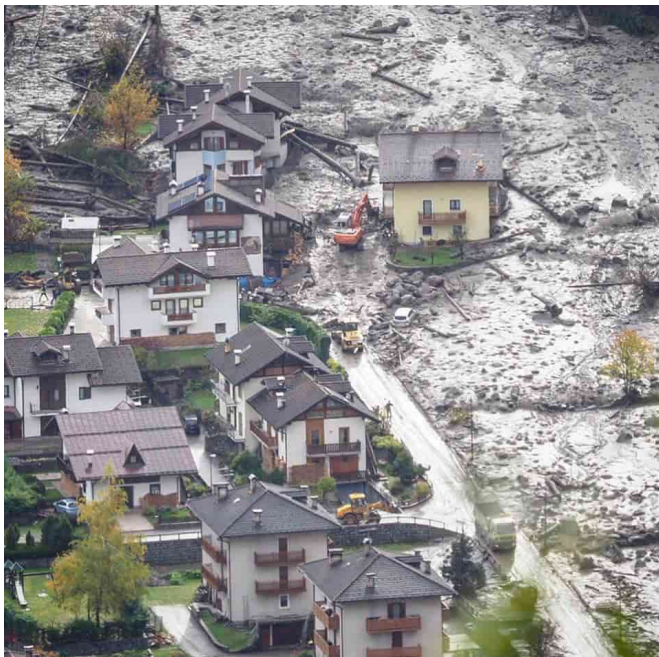


How will heatwaves shape Prague's future?

As part of the CROSSEU project, [Case Study #1](#) explores how rising temperatures are putting vulnerable populations in Prague at risk, especially the elderly and low-income groups. By combining high-resolution climate models with demographic projections and insights from local stakeholders, the study highlights the urgent need for long-term planning, better public awareness, and more green-blue infrastructure. Without adaptation, heat-related deaths in Prague could quadruple by 2090, jumping from 55 to over 230 annually. With an ageing population and a changing climate, Prague's experience offers critical lessons for urban resilience across Europe, highlighted by [Case Study #1](#).

Want to learn more?

Read the full article here!



How much is flood protection worth to society?

CROSSEU [Case Study #4](#) zooms in on Trentino-Alto Adige, an Alpine region increasingly vulnerable to flash floods driven by extreme rainfall and fragile terrain. Led by the [University of Padova](#), the study combines climate and hydrological modelling with economic valuation methods to quantify the social value of flood adaptation.

Building on real events like Storm Vaia (2018), researchers assessed future flood risks under climate scenarios and surveyed public willingness to pay for protection across sectors like housing, agriculture, roads, and tourism. Results show a strong public preference for investing in home protection, with flooded areas projected to rise sharply by 2090.

By bridging science and society, [Case Study #4](#) offers a powerful blueprint for shaping flood-resilient policies in mountain regions across Europe.

Want to learn more?

Read the full article here!



Can we predict the future of snow avalanches in a warming world?

CROSSEU [Case Study #5](#) dives into how climate change is reshaping snow avalanche risks in the European Alps and Carpathians, threatening mountain communities and key sectors like tourism, transport, and forestry.

Using high-resolution climate models, demographic projections, and local terrain analysis, the study identifies Climate Change Hotspots where hazard and exposure intersect. What makes this case unique? It blends data with real-life "avalanche storylines" from past events, grounding projections in lived experiences.

By linking scientific analysis with community insights, [Case Study #5](#) supports smarter, risk-informed adaptation planning in Europe's most vulnerable high-altitude regions.

Want to learn more?

Read the full article here!

Learn more about the CROSSEU project and our work in other sectors. We are excited to announce the release of eight case study factsheets!

Project updates

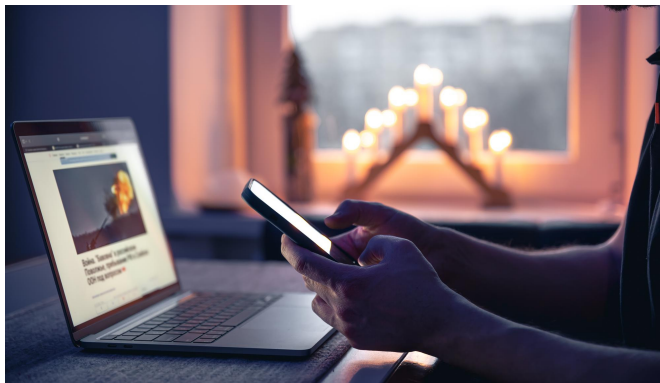


Case study factsheets

The CROSSEU project is excited to announce the release of its eight case study factsheets! These factsheets provide a snapshot of each case study area's approach to tackling climate risks, highlighting local objectives, methods, and strategies for cross-sectoral adaptation. From Alpine hazards to coastal resilience, the case studies offer valuable insights into collaborative, climate-smart solutions.

[Download each factsheet on our website!](#)

Follow us on social media to explore how cities and regions across Europe are building a more resilient future.



Publications

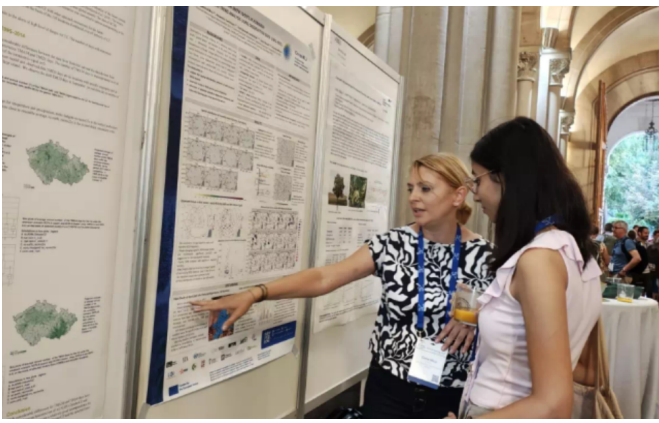
CROSSEU's partners recently released **two scientific publications**.

In the first, our partners at Universität für Bodenkultur Wien have just published a new study on **building resilience to droughts and heavy rainfall in Austria's Seewinkel region**. The research dives into existing strategies, the role of strong actor networks, and the emotional investment needed to make adaptation work in the long term.

The second sees a major milestone for climate data in Romania: RoClimHom is the first consistent, century-long dataset of daily temperature and rainfall, covering 1901–2023 across 156 locations. It's a crucial tool for researchers, policymakers, and anyone working on climate solutions in Southeast Europe.

[Explore our publications here](#)

Deliverables



Several key **deliverables** were successfully submitted by **the project partners**, marking important milestones in the project's progress. These outputs reflect collaborative efforts across work packages and contribute to advancing the project's objectives in research, innovation, and implementation. Each deliverable provides valuable insights and resources that support ongoing activities and ensure alignment with the project's overall timeline and expected outcomes.

[Explore our deliverables here](#)

Q&A with Professor Nicholas Vasilakos

Understanding the uneven impacts of climate change



Professor Vasilakos presenting CROSSEU developments.

As **CROSSEU** reaches its mid-point, June has seen intense activity across the board especially for **Work Package 1 (WP1)**.

With **three major interim deliverables** nearing completion and submission to the European Commission, the team is reflecting not only on progress but also on the deeper meaning behind the data.

In this edition, we sit down with Professor **Nicholas Vasilakos**, Professor of **Sustainable Business Economics & Public Policy** at **Norwich Business School, University of East Anglia**, to hear his reflections on the project, recent findings, and why the human dimension of climate change is central to his work.

★ Events ★



The CROSSEU General Assembly meets in Prague

Between 27 and 29 January 2025, the CROSSEU consortium gathered in Prague for the General Assembly, hosted by the Faculty of Environmental Sciences at CZU.

For three days, the meeting encouraged discussion, sharing ideas, and helped in shaping the next steps of the project.



King's College London (lecture) and Lancaster University From May–June 2025

Professor Nicholas Vasilakos presented initial findings from WP1's econometric modelling at workshops held at King's College London, Lancaster University, and UEA.

The talks highlighted the unequal income impacts of extreme weather events. See above his Q&A where he further explains the outcome of these presentations.



EGU General Assembly 2025 Highlights

At the EGU General Assembly 2025 in Vienna, CROSSEU showcased its cross-sectoral climate risk research, highlighting European hotspots where climate impacts span multiple sectors and affect public health.

Presentations covered heat-related mortality projections in the Czech Republic, the effectiveness of heat prevention plans, and the need for stronger links between modelling and local planning. The event offered valuable feedback, fostered collaboration, and reinforced the importance of integrated, science-based strategies for climate resilience across Europe.

More Events:

- **European Meteorological Society Conference (EMS2024)**, Sept 2024, partner MeteoRo and CZU
- **AGU24 annual meeting**, Dec 2024, partner CZU
- **2nd Impetus4Change ADAPTALAB**, March 2025, partner CZU
- **King's College London**, March 2025, partner UEA
- **EGU General Assembly 2025**, April/May 2025, partner CZU
- **Lancaster University**, March 2025, partner UEA
- **Edinburgh University**, May 2025, partner UEA
- **CSERGE**, June 2025, partner UEA

Sister Project Spotlight



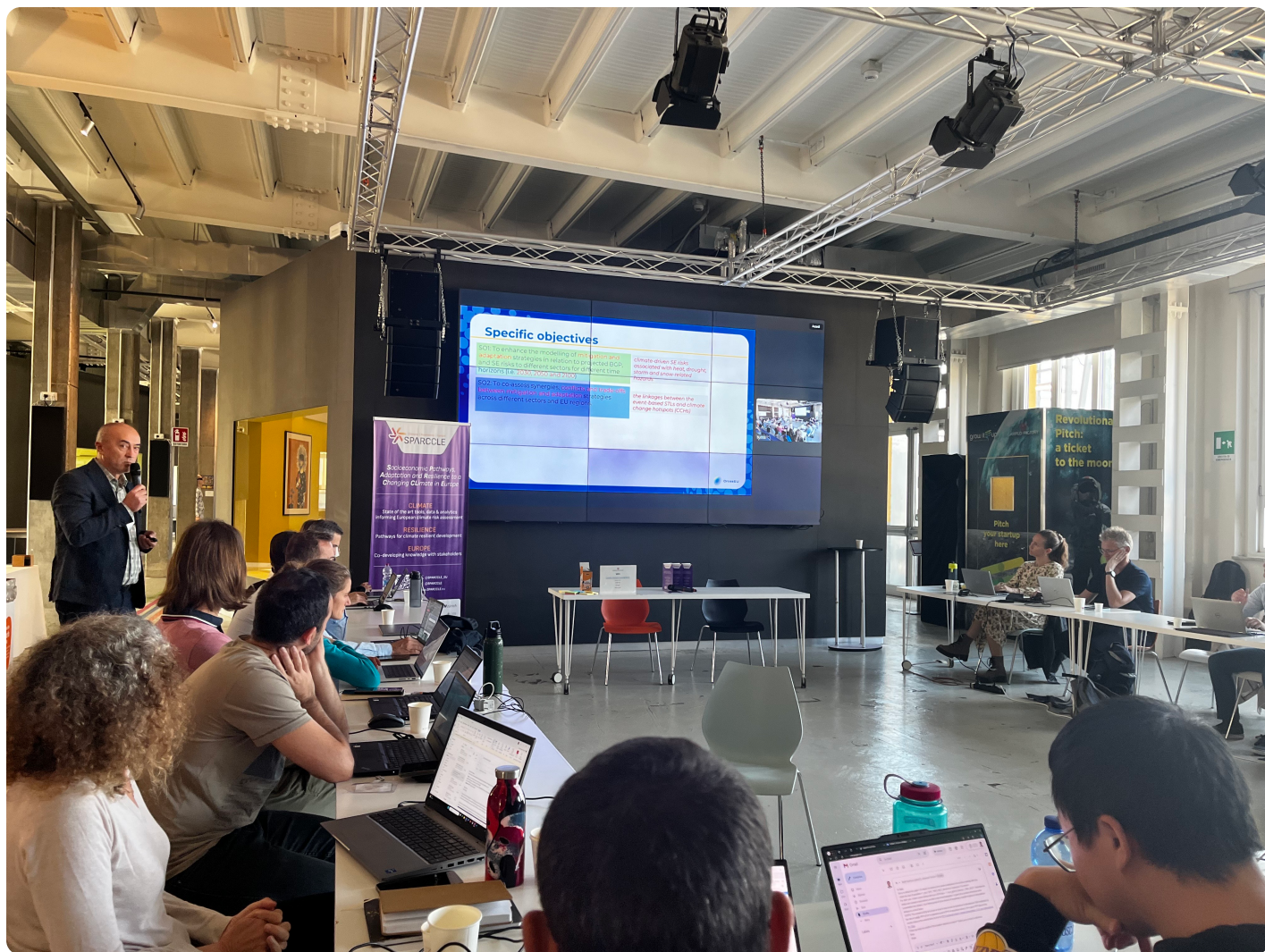
[SPARCCE](#) (**Socioeconomic Pathways, Adaptation and Resilience to a Changing Climate in Europe**) is a Horizon Europe project (2023–2027) **aiming to strengthen Europe’s resilience to climate change**. The project is developing high-resolution, stress-test scenarios that combine socioeconomic vulnerability data with climate hazard modelling.

A key focus is on systemic risks, including often-overlooked factors such as gender inequality and cross-border spillover effects. Through close collaboration with policymakers, scientists, civil society, and the JRC, SPARCCE is co-designing open, actionable tools to support fair and effective climate adaptation, fully aligned with the European Green Deal.

Both [SPARCCE](#) and [CROSSEU](#) share a clear **mission to advance European resilience through co-produced, high-resolution modelling of climate-socioeconomic risks**, with SPARCCE bringing enhanced depth on demographic heterogeneity, spillovers, and stress-test design, complementing CROSSEU’s strength in cross-sectoral hazard storylines and regional decision-support deployment.

CROSSEU participated in the SPARCCE **Annual Meeting in Milan** in October. Sorin Cheval, coordinator of the CROSSEU project (National Meteorological Administration, Romania), presented the project at the annual meeting of our sister initiative, SPARCCE. The ACCREU Project was also represented at the event.

It was an excellent opportunity to exchange ideas, explore synergies among the three projects, and identify new opportunities for collaboration.



To learn more about SPARCCLE, visit the project website



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UK participants in this project are co-funded by UK Research and Innovation (UKRI).

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