

Multi-hazard and risk informed system for Enhanced local and regional **Disaster** risk management



MEDiate Newsletter #2 - October 2023

- Building disaster resilient societies by empowering local and regional authorities with technological tools for disaster risk management
- Contributing to transfer from research to policy in disaster risk reduction

[Discover more about the MEDiate project](#)



MEDiate aims to develop a **decision support system** by considering multiple interacting **natural hazards** and **cascading impacts** using a novel **resilient-informed, service-oriented** and **people-centric** approach that accounts for forecasted modifications in the hazard, exposure and vulnerability.

HIGHLIGHTS



END-USER INVOLVEMENT

MEDiate has end-user partners in Testbeds located in four European countries that all face urgent problems related to a variety of natural hazards and that have specific needs and contexts and cover different scales in terms of population size.

Stay tuned for the interviews with our Testbed leaders coming soon!

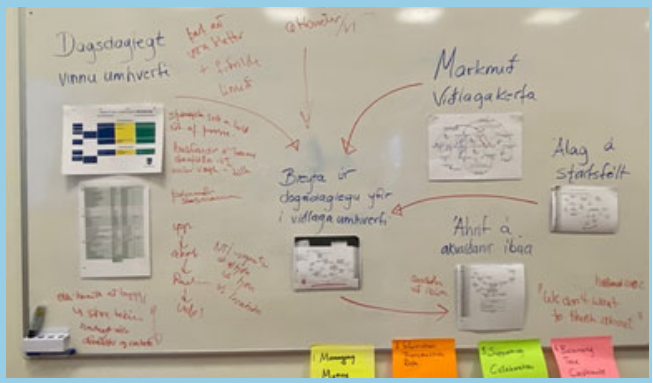
In the meantime, in the next page is an example of a stakeholder workshop in our Icelandic testbed

System Dynamics Modelling and Hazard Study in Iceland Testbed

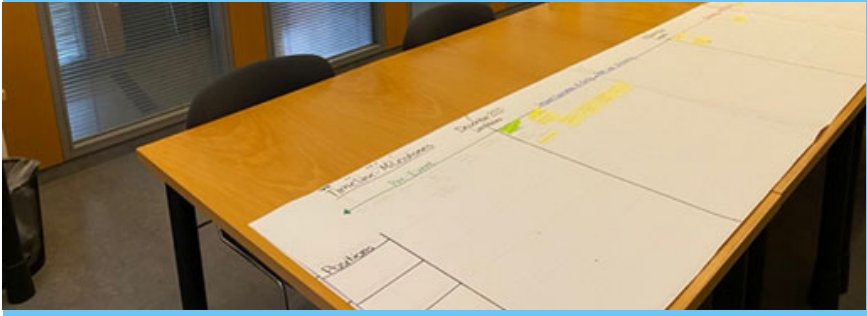


The University of Iceland (Ulce) is developing a **system dynamics model** to help municipalities assess their disaster risk policies. They are collaborating with Mulathing municipality to replicate the events of the December 2020 landslides and evacuations in Seyðisfjörður, located in the eastfjords of Iceland.

The Icelandic Meteorological Office (IMO) is studying interconnected **natural hazards** and working with Mulathing stakeholders to understand their **cascading effects** and identify the factors that exacerbate or mitigate these hazards.



Austurbrú (AUS), representing East Fjörds municipalities, serves as the bridge between Ulce, IMO, and Mulathing municipality.



MEDiate partners (AUS, IMO, Ulce) met with representatives of the Mulathing municipality at different occasions and the workshops were centered around the end-user needs.



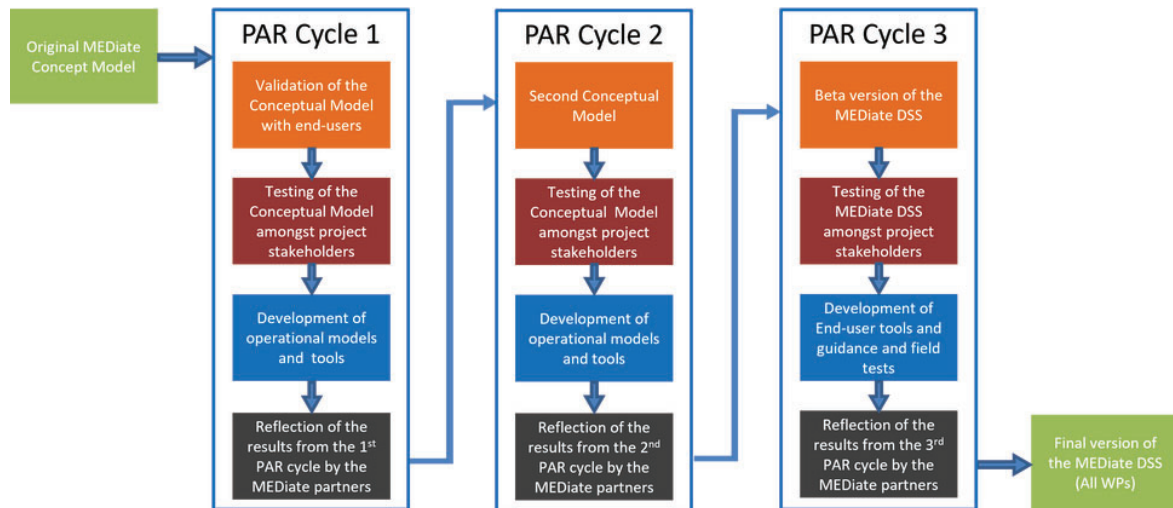
The first objective was to define the boundaries for the system dynamics model. Then the focus was on the type of maps and data that the stakeholders already had and what other data and maps could be useful,

The most time-consuming task was creating a timeline of events related to landslides and evacuations over 8-10 years, fostering discussions among staff members representing different positions in the municipality.



Next steps include digitizing collected information, sharing it with municipality staff for review, and using it as a foundation for further research at Ulce and IMO. .

ADVANCING COLLABORATIVE PROBLEM-SOLVING: THE PAR APPROACH IN MEDIATE



The **PAR (Participatory Action Research)** approach employed in the MEDiate project is a collaborative process involving multidisciplinary teams of researchers, developers, practitioners, and stakeholders. PAR teams are working together to **co-design, co-develop, and refine the MEDiate Decision Support System (DSS)** in three PAR cycles.

The goal of the first PAR cycle was to understand how the DSS platform could be used by the different end-users from the testbeds and explore technical complexities related to **multi-hazard modeling** and the development of **risk and resilience metrics**. As we enter the second PAR cycle, our focus will shift from a general understanding of the testbeds' needs to testing emerging versions of the DSS to meet these needs. Stay tuned!

SYNERGY WITH EU/INTERNATIONAL PROJECTS

TECHNICAL SYNERGY WORKSHOP

SPEAKERS

CARMINE GALASSO (MEDIATE)
 Integrating dynamic multi-hazard vulnerability and resilience into formal people-centred and forward-looking risk assessment

JULIE DUGDALE (C2IMPRESS)
 Agent-Based Model

CEES VAN WESTEN (PARATUS)
 Impact Chains

7 July, 2023
 At 14:00

ONLINE

TECHNICAL SYNERGY WORKSHOP AGENDA

MODERATOR: Ivan Van Bever (MEDiate)

START 14:00: Welcome & Introduction

PROJECT INTRODUCTIONS

14.05: Tamanna Khan - C2IMPRESS
 14.10: Abdelghani Meslem - MEDiate
 14.15: Cees Van Westen - PARATUS

TECHNICAL SYNERGY WORKSHOP

14.20: Carmine Galasso - MEDiate
 14.45: Julie Dugdale - C2IMPRESS
 15.10: Cees Van Westen - PARATUS

Q&A AND SYNERGIES

7 July, 2023
 At 14:00

ONLINE

The main objective of the workshop was to discuss synergies between the three projects MEDiate, PARATUS and C2Impress. Objectives and topics addressed are similar between the projects but each project has a specific methodological approach to multi-hazard risk assessment.

[More info](#)

EVENTS

Throughout this year, all MEDiate partners have been actively engaged in dissemination and communication activities aimed at sharing the project's objectives and first results.

Discover the [events here](#)



GENERAL ASSEMBLY

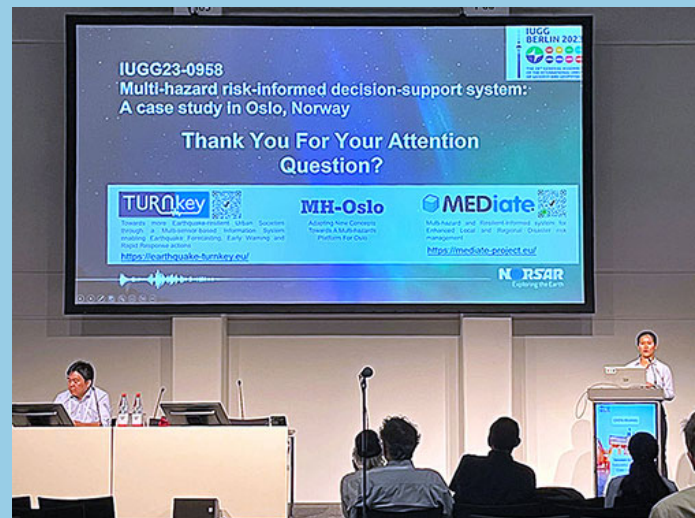
The MEDiate Consortium met in Essex for a productive General Assembly in September 2023. Partners from all over Europe gathered to present initial project results, discuss scientific progress and plan the next steps. The in-person meeting facilitated fruitful exchanges of ideas and experiences, particularly with the presence of the testbeds.

[More info](#)

IUGG 2023

The 28th IUGG General Assembly took place in Berlin, Germany, from July 11 to 20, 2023, gathering experts worldwide to discuss geophysical topics and promote interdisciplinary collaboration for a better understanding of the Earth's system. During this event, Chen Huang from NORSAR presented a case study titled "Multi-hazard risk-informed decision-support system: A Case Study in Oslo, Norway" as part of the S10 multi-risk risk assessment session. This study is of importance for the Oslo Testbed and is one of the main case studies in MEDiate.

[More info](#)

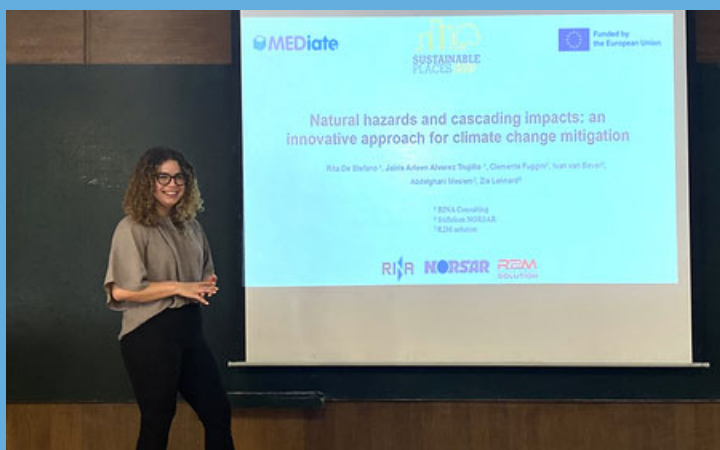


SUSTAINABLE PLACES 2023

From 14 to 16 June, MEDiate was present in Madrid at Sustainable Places to present the main objectives of the project.

The presentation titled "Natural hazards and cascading impacts: an innovative approach to climate change mitigation" was presented by RINA.

[More info](#)



CERIS FORUM IN TOULOUSE



MEDiate was present at the CERIS (Community for European Research and Innovation on Security) forum on Risk Governance & Societal Resilience organised in the beautiful city of Toulouse!

Over the two days of the event, researchers, local and regional authorities, first responders and policy makers gathered to bridge the gap between research results and practitioners needs, an ambitious and indispensable process to improve Disaster Resilience.

[More info](#)

PROJECT TO POLICY SEMINAR (PPS) 2023

MEDiate participated in the Projects to Policy Seminar (PPS) 2023, an event organized jointly by DG HOME and the European Research Executive Agency in Brussels. The aim of the PPS event was to establish connection and improve collaboration between researchers, policymakers, and industry stakeholders in the field of security. The seminar was attended by more than 150 participants working together to enhance security in Europe. The event was a unique opportunity for MEDiate to present the main aspects of the project, but also for networking and establishing synergies with the other EU projects.



SUBSCRIBE TO OUR NEWSLETTER

[Subscribe here](#)

Follow us on



For more information contact us :
info@mediate-project.eu