

MYRIAD-EU

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The MYRIAD-EU project has received funding from the European Union's Horizon 2020 research and innovation programme call H2020-LC-CLA-2018-2019-2020 under grant agreement number 101003276



MYRIAD-EU: Vision and aim

- **Vision:** to catalyse the paradigm shift required to move towards a multi-risk, multi-sector, systemic approach to risk assessment and management.
- **Aim:** by the end of MYRIAD-EU policy-makers, decision-makers, and practitioners **will be able to develop forward-looking disaster risk management pathways that assess trade-offs and synergies across sectors, hazards, and scales**

SYSTEMIC RISK INTERDEPENDENCIES THROUGHOUT EUROPE



CANARY ISLANDS

CHALLENGE

How can island regions with a strong dependence on tourism become more resilient to multi-hazard risk?

SECTOR

ENERGY

FOOD & AGRICULTURE

TOURISM

HAZARDS



VENETO

CHALLENGE

How can diverse natural landscapes from the mountains to the sea achieve a forward-looking perspective conducive to multi-risk planning?

SECTOR

ECOSYSTEMS & FORESTRY

FINANCE

TOURISM

HAZARDS



NORTH SEA

CHALLENGE

How can spatial planning at the interface of the land and sea environments be optimised in the face of increasing and interrelated risk?

SECTOR

ECOSYSTEMS & FORESTRY

ENERGY

INFRASTRUCTURE & TRANSPORT

HAZARDS



SCANDINAVIA

CHALLENGE

How can we maintain healthy ecosystems under climate-related risks while meeting increasing demands for energy, food, and other ecosystem services, and what is the role of nature-based solutions?

SECTOR

ECOSYSTEMS & FORESTRY

ENERGY

FOOD & AGRICULTURE

HAZARDS



DANUBE

CHALLENGE

How can we increase resilience to multiple disasters that impact several interconnected countries with strong macro-economic relations?

SECTOR

FINANCE

FOOD & AGRICULTURE

INFRASTRUCTURE & TRANSPORT

HAZARDS





Executive summary & Recommendations

In the last months, we have seen intense heat waves and wildfires across large parts of southern Europe, while Serbia, Kosovo, and Romania have endured devastating floods. Additionally, Northern Italy has faced an unexpected predicament as floods followed a period of drought. The Netherlands experienced the longest dry spell on record (34 days without rainfall), followed by a very wet July and the most severe summer windstorm (Poly) on record. To reduce the risk of such multi-hazard events, we need a more systemic approach to risk management. This is what the MYRIAD-EU project aims to achieve: Reducing Risks Together.

Natural hazards in the EU have exacted a heavy toll, resulting in approximately ~236,000 fatalities and over €640 billion in economic losses since 2000 (EEA-CATDAT, 2023). The examples above – all of which have taken place in the last few months – reiterate the need to urgently move towards a more holistic approach to disaster risk management, as also stated in the recent Mid Term Review of the Sendai Framework for Disaster Risk Reduction (UNDRR, 2023). The MYRIAD-EU project is designed to **catalyse the paradigm shift** required to move **towards a multi-risk, multi-sector, systemic approach to risk assessment and management**. This policy brief summarises key policy learnings from the first 1.5 years of this Horizon-2020 funded project, culminating in the following key recommendations:

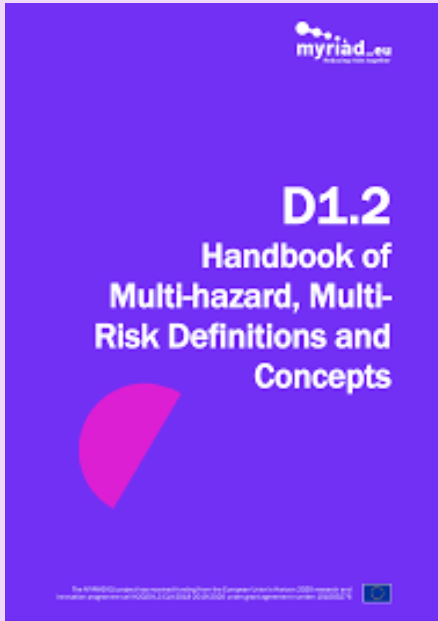
- **Real-world applications are vital:** We recommend efforts to widen the number of real-world detailed case studies throughout the EU, in order to gather good practices and share learning across regions.
- **Terminology matters:** We recommend further harmonising key terminologies related to multi-hazard-risk into international frameworks and promoting consistency in understanding across research-policy-practice nexus. The glossary developed in MYRIAD-EU can serve as a starting point.
- **Multi-hazard data are required for evidence-based policy making:** We have developed a global multi-hazard event dataset that can be used in multi-risk assessment. This supports the EU's evidence-based policy making and the risk and resilience knowledge portals and hubs.
- **Leverage synergies between Disaster Risk Reduction (DRR) and Climate Change Adaptation (CCA):** Developing future pathways that address DRR and climate change adaptation can help to achieve several policy goals at once. Further integration of these agendas within EU policy is recommended to help develop a shared vision for a sustainable future.
- **Promote systemic, multi-risk thinking:** Co-developing novel interdisciplinary approaches aimed at assessing, evaluating, managing and communicating multi-risk issues with engaged stakeholders can contribute to the paradigm shift.



Policy brief Nov 2023

<https://zenodo.org/records/10117905>

Terminology matters



Handbook: Building a common understanding and consensus on multi-hazard risk terminology

Application beyond MYRIAD-EU:

- Feeding into the Hazard Information Profile (HIPs) review (multi-hazard risk context)
- Used by other projects in Europe (e.g. MEDIATE, EO4Multihazards) and New Zealand, teaching
- Collaborative papers with other multi-risk projects

Need for sharing of tools, methods, data

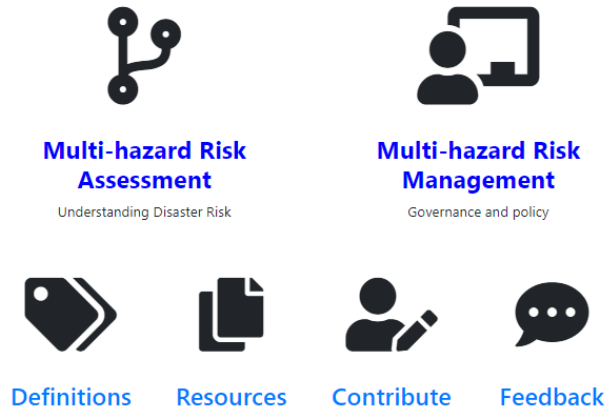


Welcome to your toolbox for Disaster Risk. Here you can find and share existing approaches for understanding, analysing and managing **multi-hazard** and **multi-hazard risks**. This catalogue has been developed as part of the **MYRIAD-EU project**, which aims to change the way risks are currently assessed and managed through the development and promotion of tools and solutions as well as knowledge sharing.

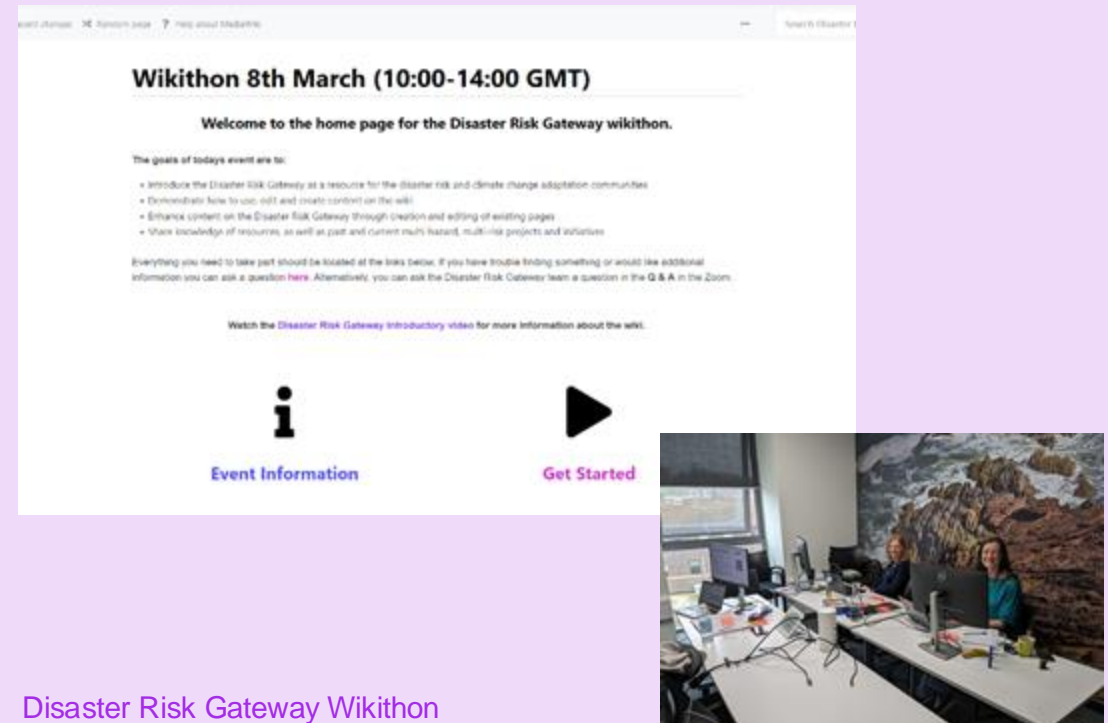
The purpose of this wiki is to serve as an information resource and starting point to encourage engagement between different actors involved in disaster risk assessment and management, to promote interdisciplinary research and for research activities within MYRIAD-EU and other future projects. The platform aims to support the wider hazard and risk management community to increase their understanding of what is currently possible, and how this knowledge can be applied to different disaster risk (including multi-hazard, multi-risk) challenges.

The wiki is hosted by the **British Geological Survey**, and we welcome **contributions** from across the disaster risk community.

Browse by clicking on the icon text below, or search directly for specific keywords.



disasterriskgateway.net



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