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## About the project

Duration: 3/10/2022 – 2/10/2025

The POMHAZ project, rooted in Europe's transition towards **decarbonization** and the closure of coal and lignite mines, seeks to enhance methodological understanding of **hazard analysis** and **risk assessment**. **Post-mining areas** undergo transition as mines cease operations. So, they are often susceptible to multiple hazards, which may interact or occur simultaneously, referred to as “**multi-hazard**”.

The primary objective of the project is to identify and assess the multi-hazard conditions prevalent in these post-mining areas.

The project aims to calculate the overall *risk*, known as “**multi-risk**”, by integrating *multi-hazard* analysis with socio-economic considerations and assessing the *vulnerability* of post-mining areas and *exposed elements*.

$$\text{Risk} = \text{Hazard} \times \text{Vulnerability} \times \text{Exposure}$$

Implementing this methodology in real case studies in Europe will enhance the management and land planning of the territories in transition, utilizing decision support systems to mitigate multi-risk.

The project is structured in five work packages:

WP1: Coordination and dissemination

WP2: Post-mining hazards and multi hazards assessment methodology

WP3: Post-mining risk assessment methodology and Decision Support Systems

WP4: GIS development

WP5: Application on real case studies



Funded by the European Union. Views and opinions expressed are however those of the author(s) only and do not necessarily reflect those of the European Union or European Research Executive Agency. Neither the European Union nor the granting authority can be held responsible for them.



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**CERTH**  
CENTRE FOR RESEARCH & TECHNOLOGY HELLAS

- National Institute of Industrial Environment and Risks (Ineris, France)
- Centre for Research and Technology Hellas (CERTH, Greece)
- Public Power Corporation (PPC SA, Greece)
- Central Mining Institute (GIG, Poland)
- Spółka Restrukturyzacji Kopalń S.A. (SRK SA, Poland)
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- TU Bergakademie Freiberg (TU BAF, Germany)

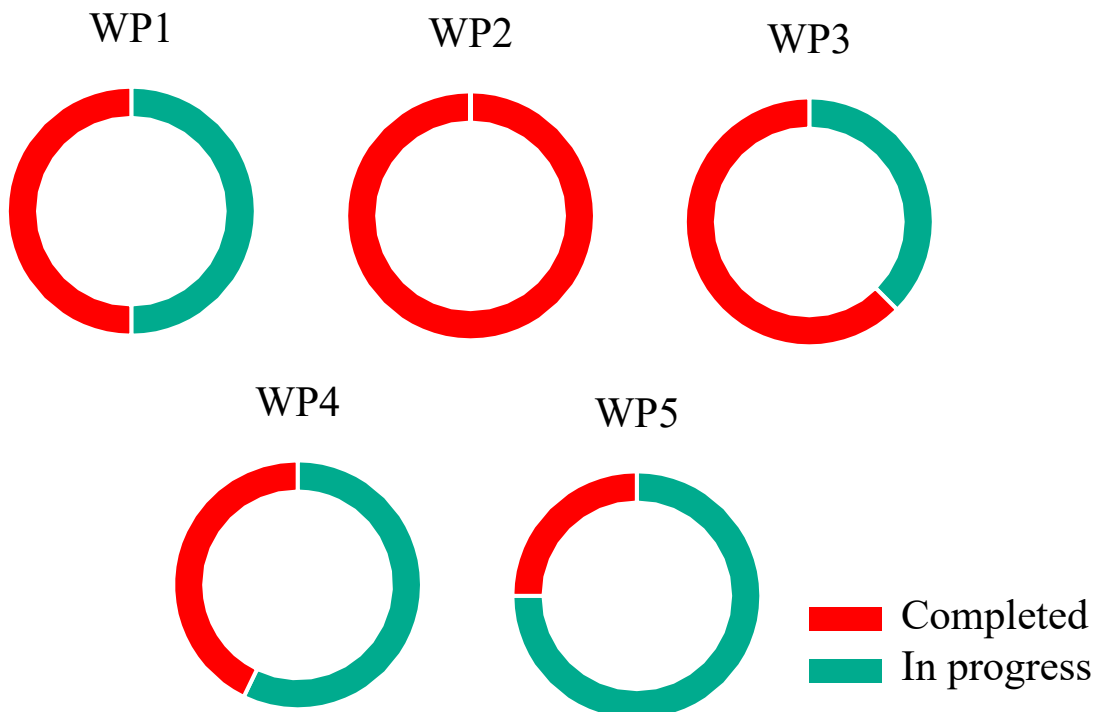
## Work progress

### Completed

- Data base of hazards related to closed and abandoned coal and lignite mines in Europe (WP2)
- Information collection of existing tools related to multi-hazard methodologies (WP2)
- Development of a methodology for post-mining hazards interaction identification (WP2)

### In progress

- Development of post-risk assessment and the development of the Decision Support System (DSS) specifications (WP3)
- Development of GIS and Decision Support System (DSS) (WP4)
- Collecting data for the application on real case studies in Europe (WP5)



## Dissemination and exploitation

### **International Conferences/Congress/Symposium**

2<sup>nd</sup> International Conference on Raw Materials and Circular Economy” (RawMat2023), 28 Aug. - 2 Sept. 2023, Athens, Greece

15<sup>th</sup> ISRM International Congress on Challenges in Rock Mechanics and Rock Engineering, 9-14 October 2023, Salzburg, Austria

11<sup>th</sup> Edition of the International Symposium on Occupational Health and Safety (SESAM 2023), 18-25 October 2023, Bucharest, Romania

### **National Conferences**

9<sup>th</sup> Panhellenic Conference on Geotechnical Engineering, 4-6 October 2023. Athens, Greece

17<sup>th</sup> Days of Mining Surveying and Protection of Mining Areas, 11-13 October 2023, Jaworze, Poland

21<sup>st</sup> Altberbaukolloquium (Post-Mining Conference), 9-10 November, UNESCO World Heritage Site Zollverein Essen, Germany

### **Project workshops / meetings**

Kick-off meeting (hybrid): 13 October 2022, Paris, France

Work Progress meeting (online): 8 December 2022

Work Progress meeting (online): 1 February 2023

Work Progress meeting (online): 3 April 2023

Work Progress meeting (online): 21 September 2023

Second meeting (hybrid): 11-12 October 2023, Athens, Greece