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Cross **BO**rder **RIS**k assessment for increased prevention and preparedness in Europe

The BORIS project

Andrea Prota (CI3R)

Pavia – Final Conference of the BORIS Project

December 12th, 2022

GA n° 101004882 - BORIS - UCPM-2020-PP-AG - Project co-funded by the European Union Civil Protection

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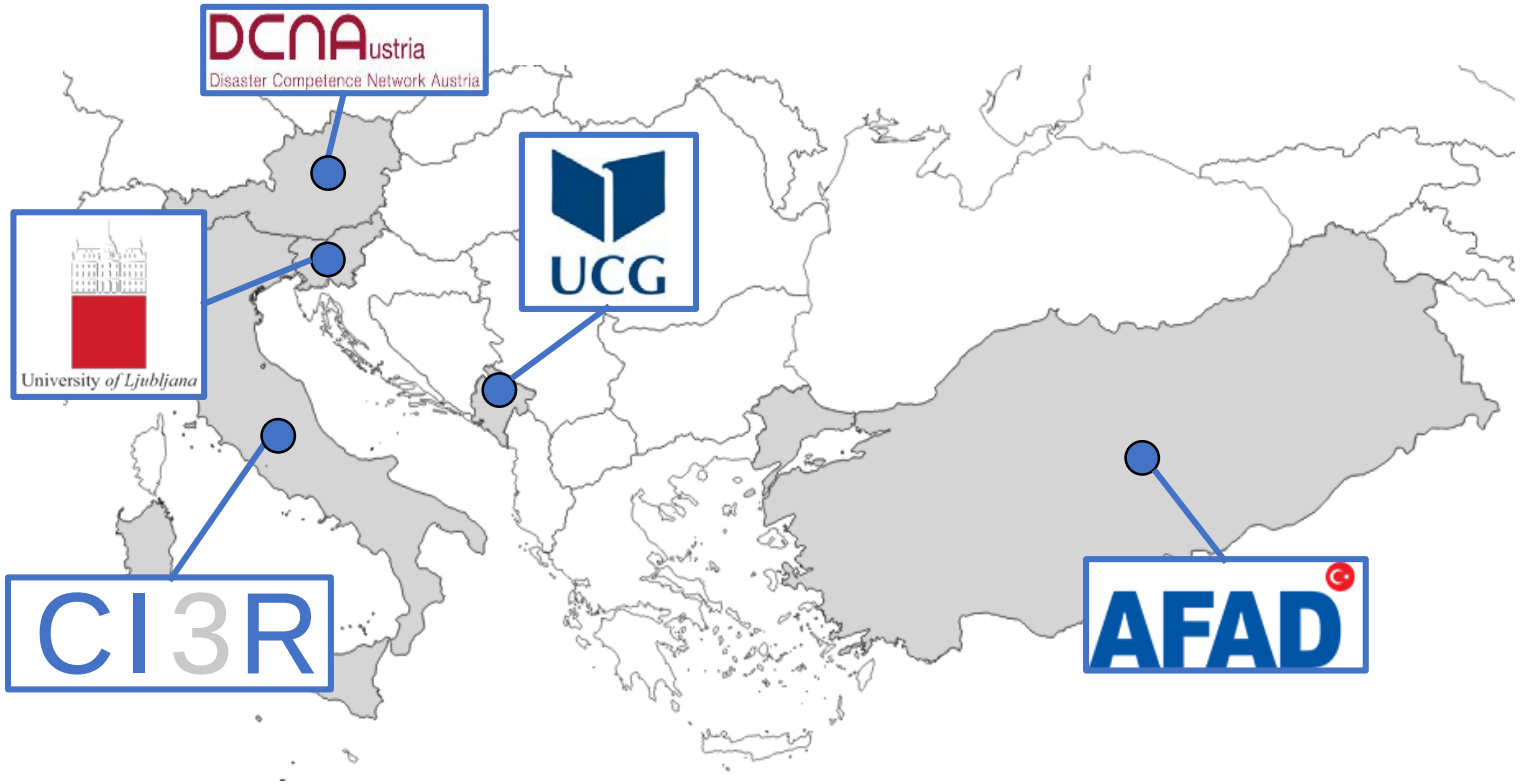
The consortium



1. Centro Italiano per la Ricerca sulla Riduzione dei Rischi– **CI3R** (coordinator) – **Italy**;

Consortium of 8 competence centers of Italian Civil Protection

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2. University of Ljubljana – **UL** (Slovenia)
3. Disaster Competence Network Austria– **DCNA** (Austria)
4. Basbakanlik Afet Ve Acil Durum Yonetimi Baskanligi – **AFAD** (Turkey)
5. University of Montenegro Podgorica – **UOM** (Montenegro)

In BORIS involved 3 as affiliated entities

Motivation and needs

Area with high **earthquake** and **flood** risks that may be amplified due to the lack of prevention and preparedness with respect to transboundary hazard effects

With the aim to **improve knowledge and preparedness**, there is the need to:

- Develop **cross-border risk assessment**
  - ✓ considering identified **cross-border risks and multi-risk**
- Establish **Joint data/information-sharing tools**

BORIS objectives

Objectives & Outcomes

i. **Shared methodology for single and multi-risk assessment** in transboundary regions

> **Outcome 1.1:**
> *Cross-border risk assessments*

ii. **Platform for single and multi-risk assessment and representation** with harmonized approach based on common metrics for confining countries

> **Outcome 1.2:**
> *Joint data/information-sharing tools or platforms are established*

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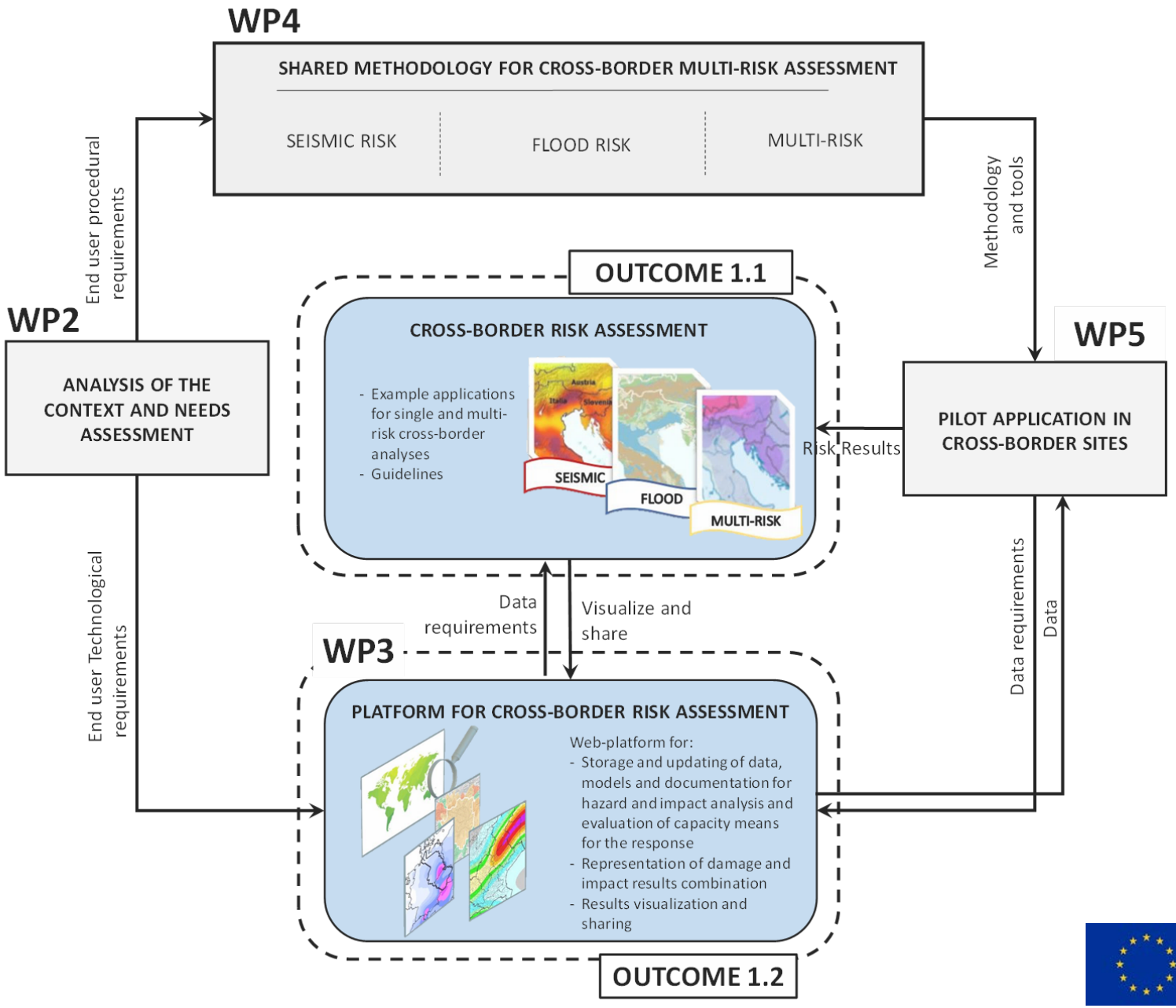
The BORIS strategy

Outcome 1.1:
Cross-border risk assessments for identified cross-border risks are developed

Outcome 1.2:
Joint data/information-sharing tools or platforms are established



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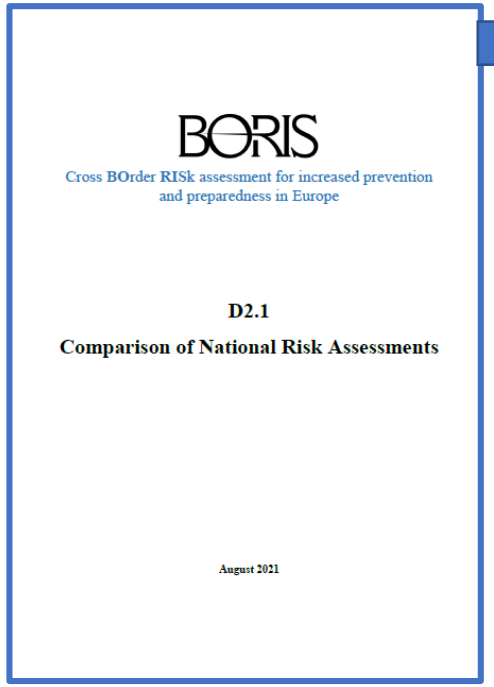
WP2 – Analysis of the context and needs

- Task 2.1 - Analysis and comparison of NRA
- Task 2.2 - Data availability and needs
- Task 2.2 - Specific needs for cross-border assessment

Presentation Susanna Wernhart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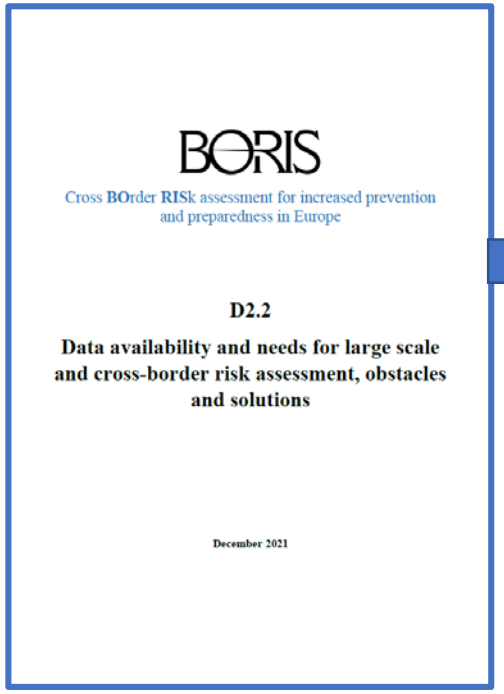
D2.1

Comparison of National Risk Assessments

August 2021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D2.2

Data availability and needs for large scale and cross-border risk assessment, obstacles and solutions

December 2021

RELEVANT DIFFERENCES

- Differences in approaches (e.g. scenario based or probabilistic based for EQ)
- Differences in reference return periods (for floods)
- Different data availability and spatial resolution
- Different vulnerability models (for EQ)

Need models and data type harmonization

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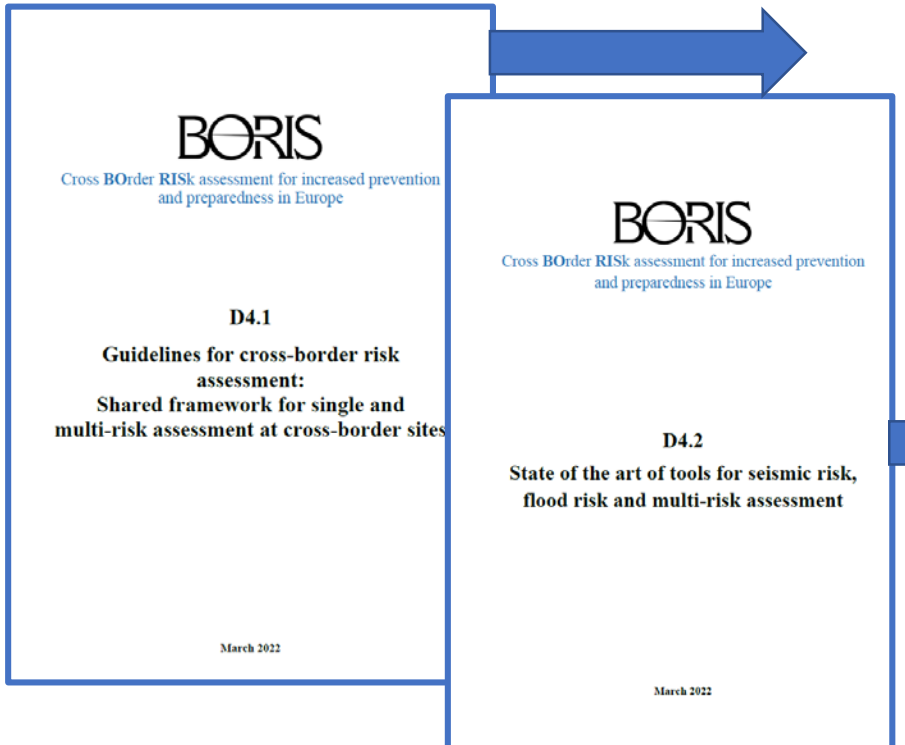
WP4 – Shared methodology for cross-border multi-risk

- Task 4.1 - Shared methodology for seismic risk assessment
- Task 4.2 - Shared methodology for flood risk assessment
- Task 4.3 - Shared framework for multirisk comparison and ranking
- Task 4.4 - Selection of tools to compute seismic, flood risk and multirisk assessment



HARMONIZED APPROACH

- Seismic risk assessment in transboundary regions
- Flood risk assessment in transboundary regions
- Multi-risk

Presentation Anze Babic

Presentation Ottonelli-Rebora

Presentation Maria Polese

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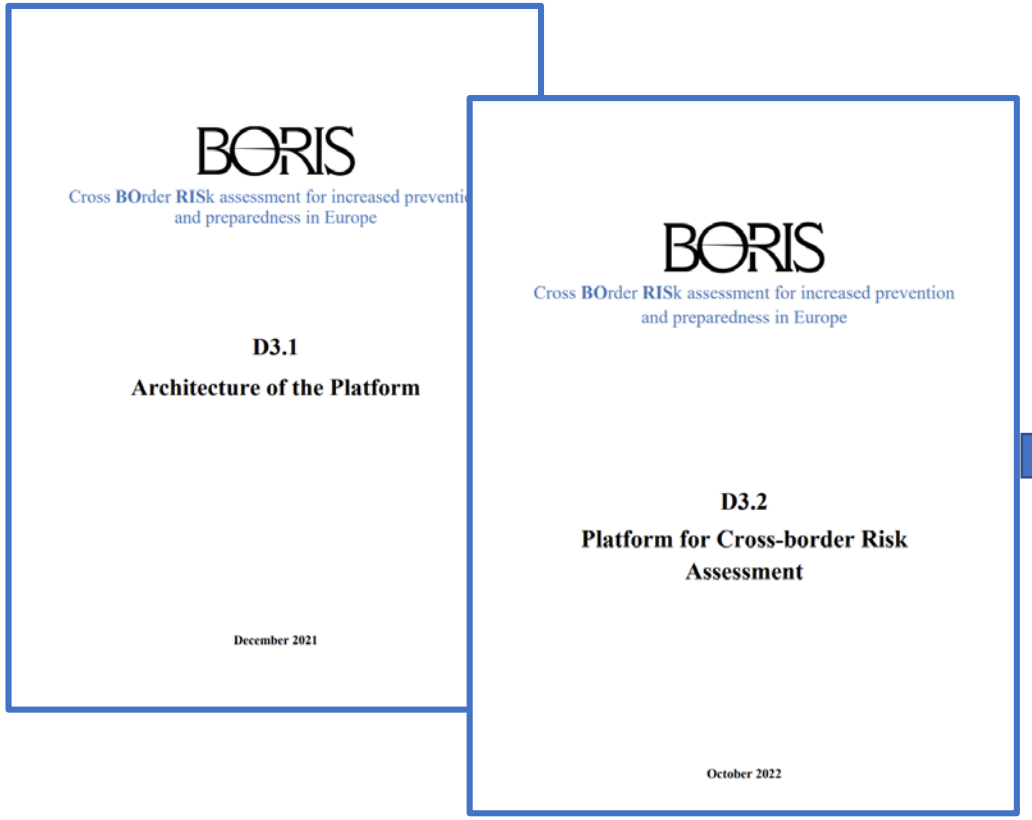
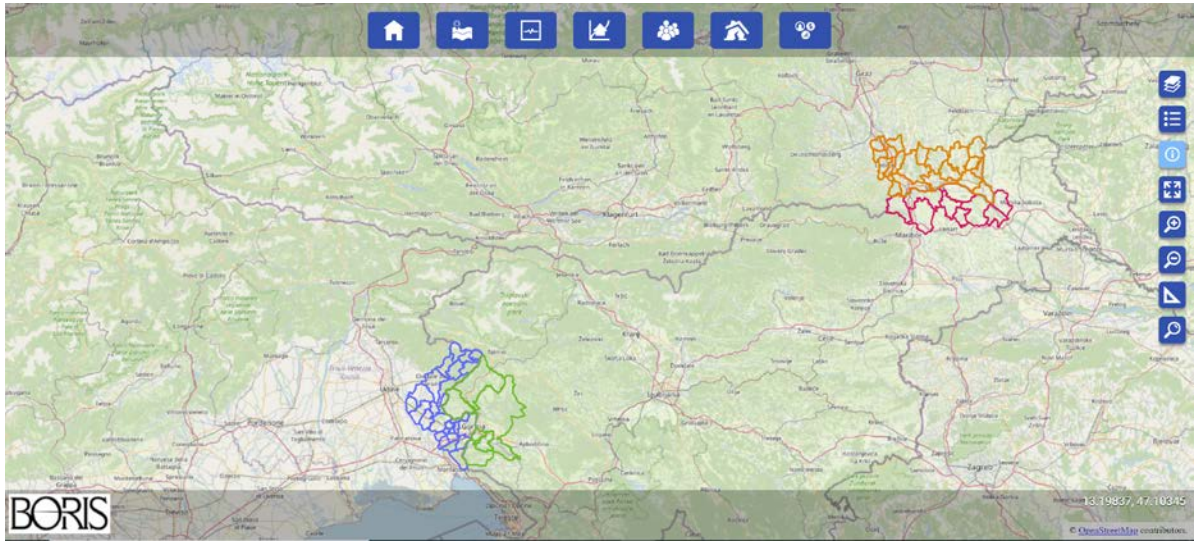
WP3 – Platform for cross-border risk assessment

- Task 3.1 - End-user requirements
- Task 3.2 - Design of tool architecture
- Task 3.3 - Development, validation and implementation of the tool

Presentation
Barbara Borzi

THE WEB-PLATFORM





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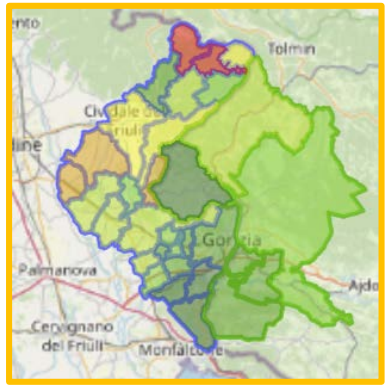
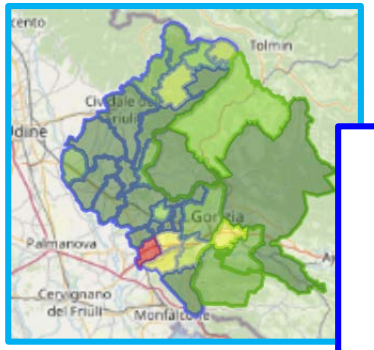
WP5 – Pilot application in cross-border sites

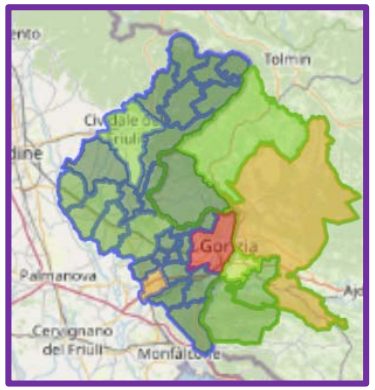
- Task 5.1 - Pilot application of methodology and tool for multi-risk assessment at Italy-Slovenia border
- Task 5.2 - Pilot application of methodology and tool for multi-risk assessment at Austria-Slovenia border

EQ RISK

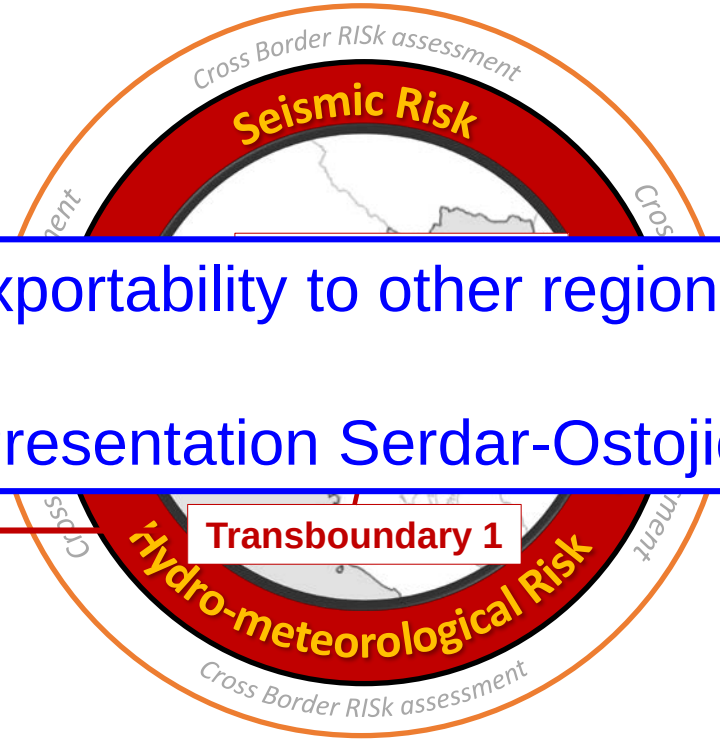


FLOOD RISK





MULTI-RISK

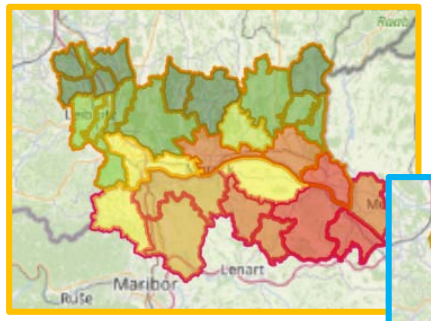


Exportability to other regions:

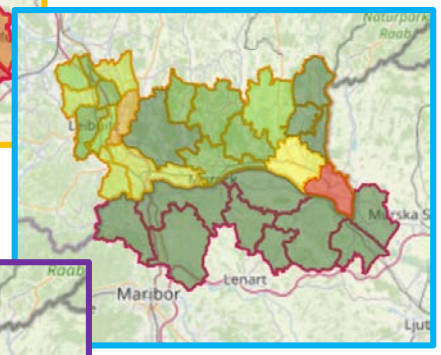
Presentation Serdar-Ostojic

Transboundary 1

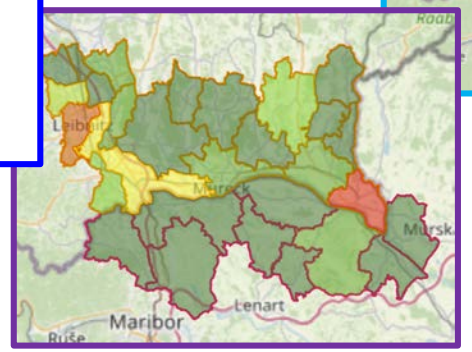
EQ RISK



FLOOD RISK



MULTI-RISK



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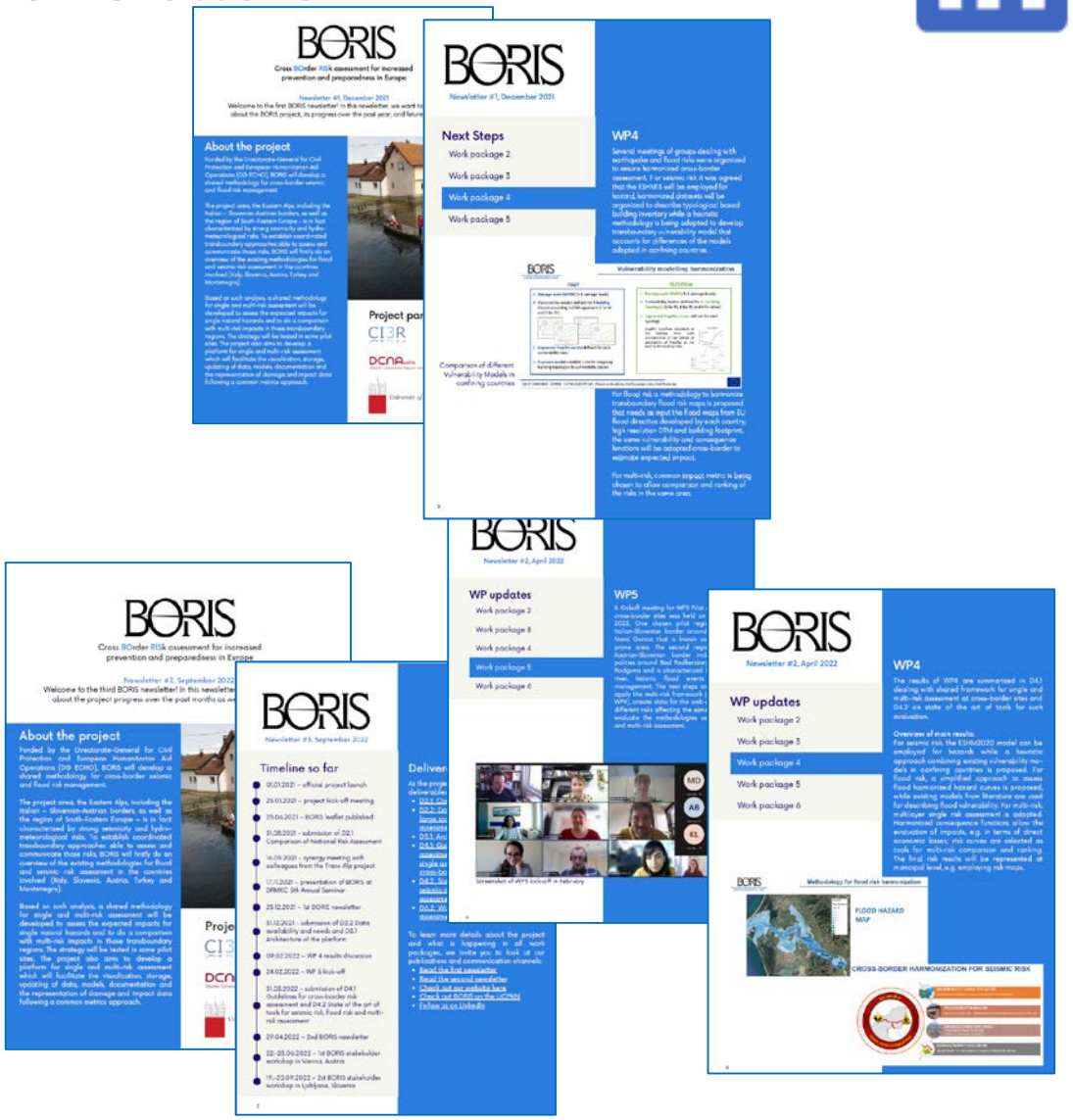
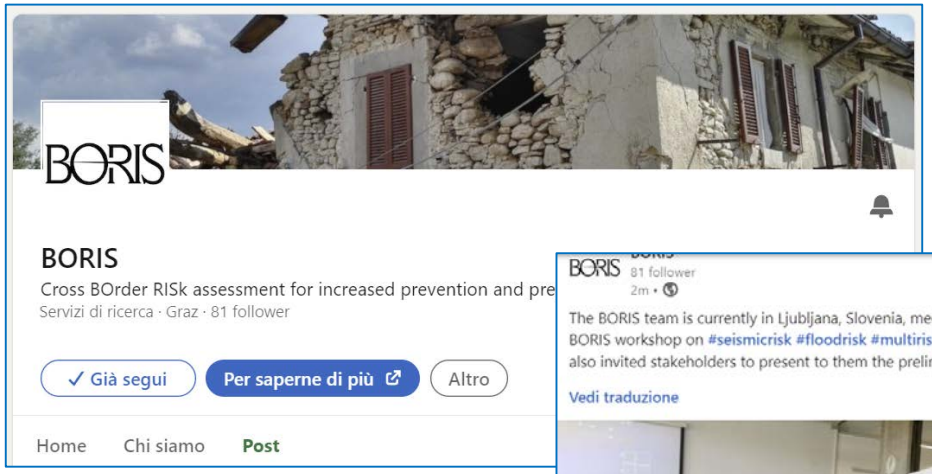
Disseminating the project results/1

Newsletters



LinkedIN posts



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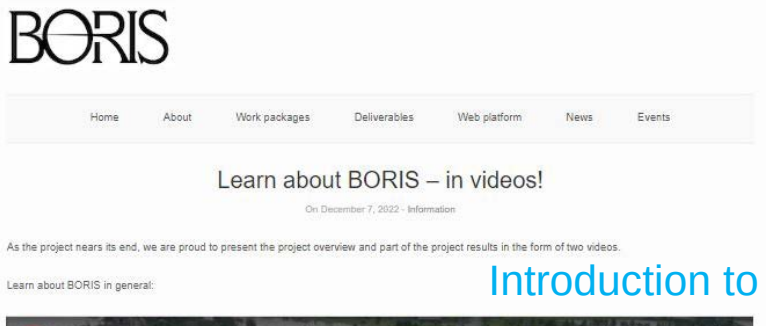
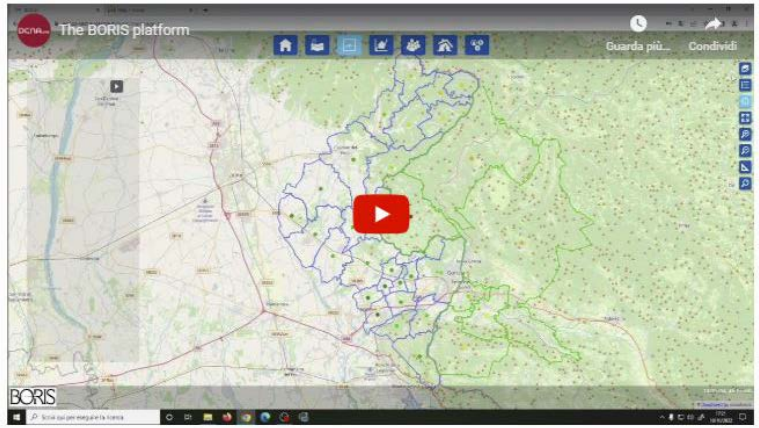
Disseminating the project results/2

Videos shared on BORIS website

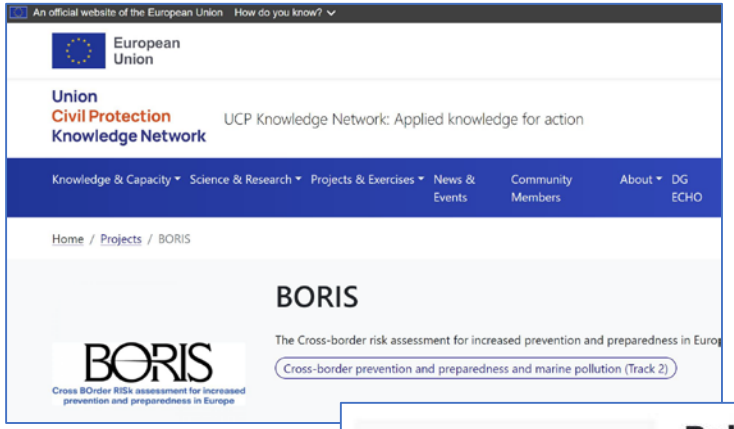


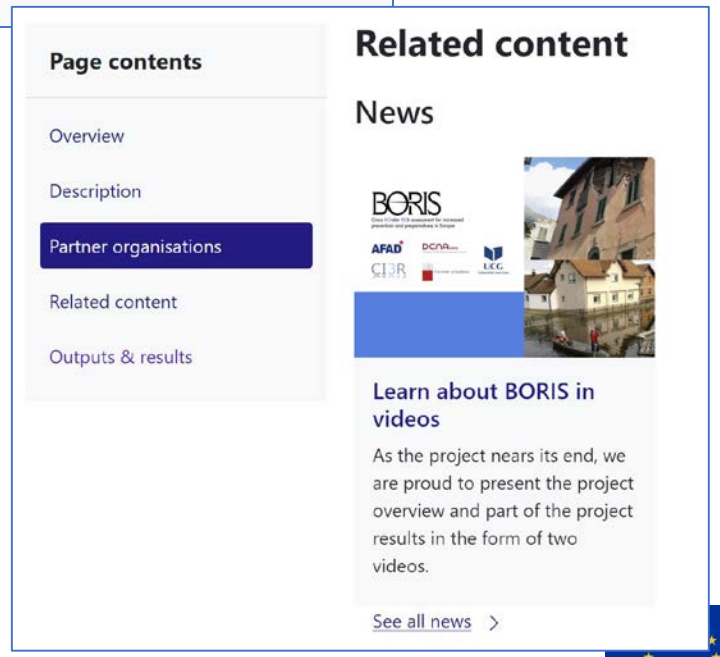
Introduction to BORIS

How to use the web-platform



....and on Knowledge Network





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Disseminating the project results/3

Workshops

Austria workshop (June 2022)

Slovenia workshop (Sept 2022)

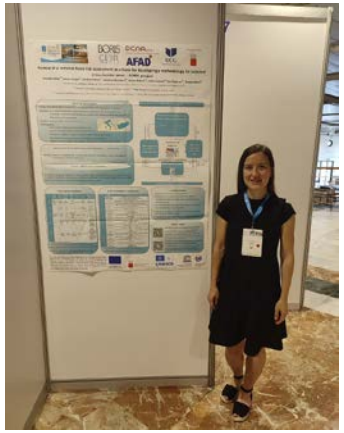
Trainings

Austria training (Nov 2022)

Italy training (5-6 Dec 2022)

Conferences

Poster at IAHR (July 2022)



Presentation at ANIDIS (Sept 2022)

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CI3R

University of Ljubljana

AFAD

UCG
Univerzitet Crne Gore

DCNAustria
Disaster Competence Network Austria

Thank you!

aprota@unina.it

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