Kick-off Meeting UCPM-2024-KAPP

EMERGE PROJECT OBJECTIVES

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o Disasters in the Balkans highlight the urgent need for improved disaster prevention and response.

o Efficient allocation of resources is critical for effective emergency management.

o Enhancing regional disaster resilience through rapid needs assessment is essential.
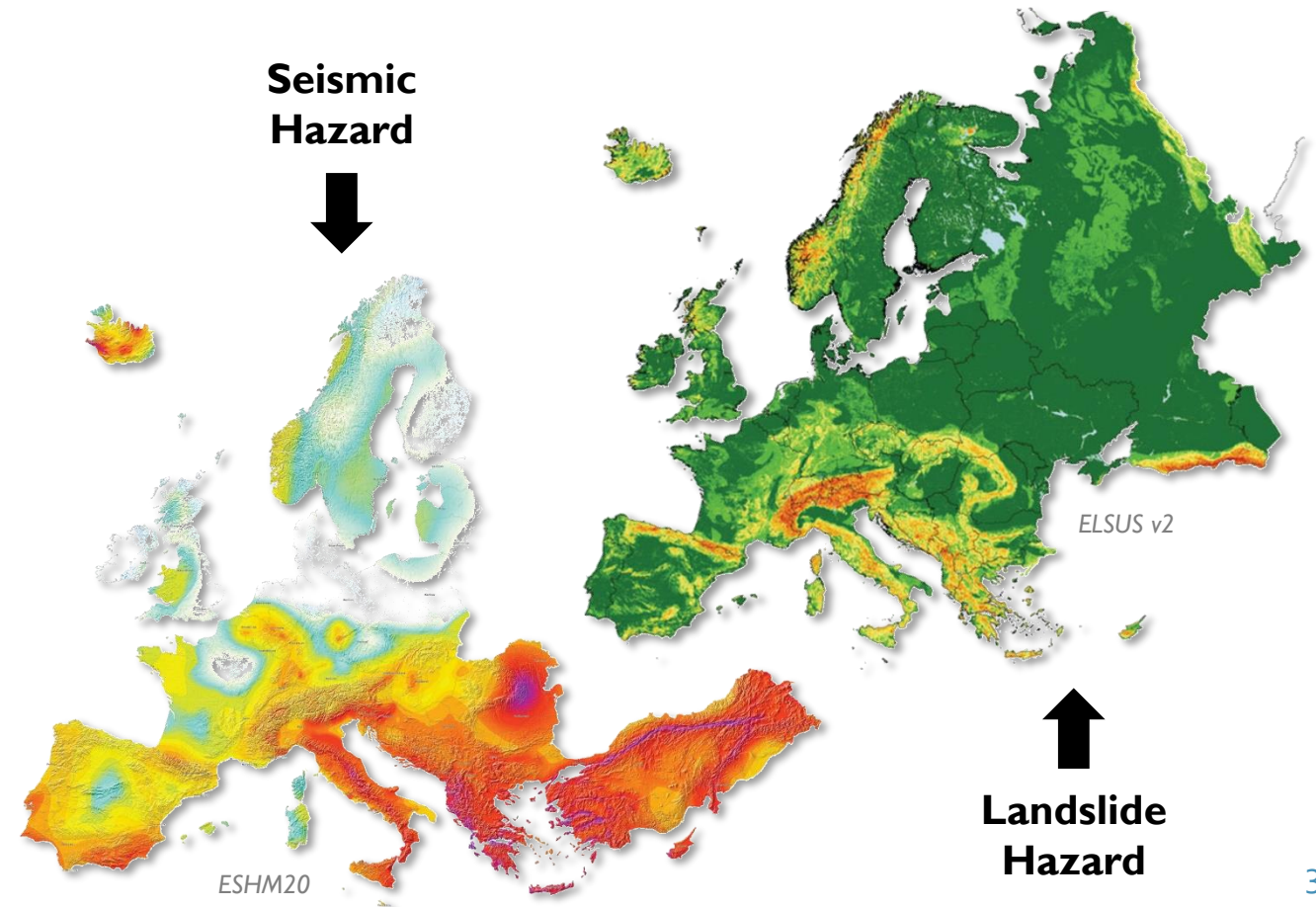

Earthquakes — Thumane, Albania (2019)

Landslides — Tetovo-Banjice, N. Macedonia (2021)

Wildfires — Outskirts of Athens, Greece (2023)

Floods — Obrenovac, Serbia (2014)

o Objective: To develop a platform that provides rapid multi-risk assessments and guides effective disaster response.

o Title: Rapid Multi-Risk Needs Evaluation and Planning Platform (EMERGE)

o Duration: February 2025 – January 2027

o Budget: € 995,572.94

Partners: Involves institutions from North Macedonia, Albania, Greece, Italy, Germany, and the Netherlands.

EU UCPM-2024-KAPP

Seismic Hazard

Landslide Hazard

ELSUS v2

ESHM20

Increased Resilience of Critical Infrastructure to Natural and Human-Induced Hazards
(INFRA-NAT)

Risk
- Hazard
- Exposure
- Vulnerability
- Lack of Coping Capacity

S T O R Y L I N E

Civil Protection Humanitarian Aid

2017–2019

2020–2022

2021–2022

2022–2024

2025–2027

Comprehensive Risk assessment of basic services and transport Infrastructure
(CRISIS)

Integrative Strengthening of Seismic Risk Awareness
(ISRA)

Rapid Multi-Risk Needs Evaluation and Planning Platform
(EMERGE)

CRISIS
Comprehensive RISk assessment of basic services and transport InfraStructure

ISRA
Integrative Strengthening of Seismic Risk Awareness

E-merge
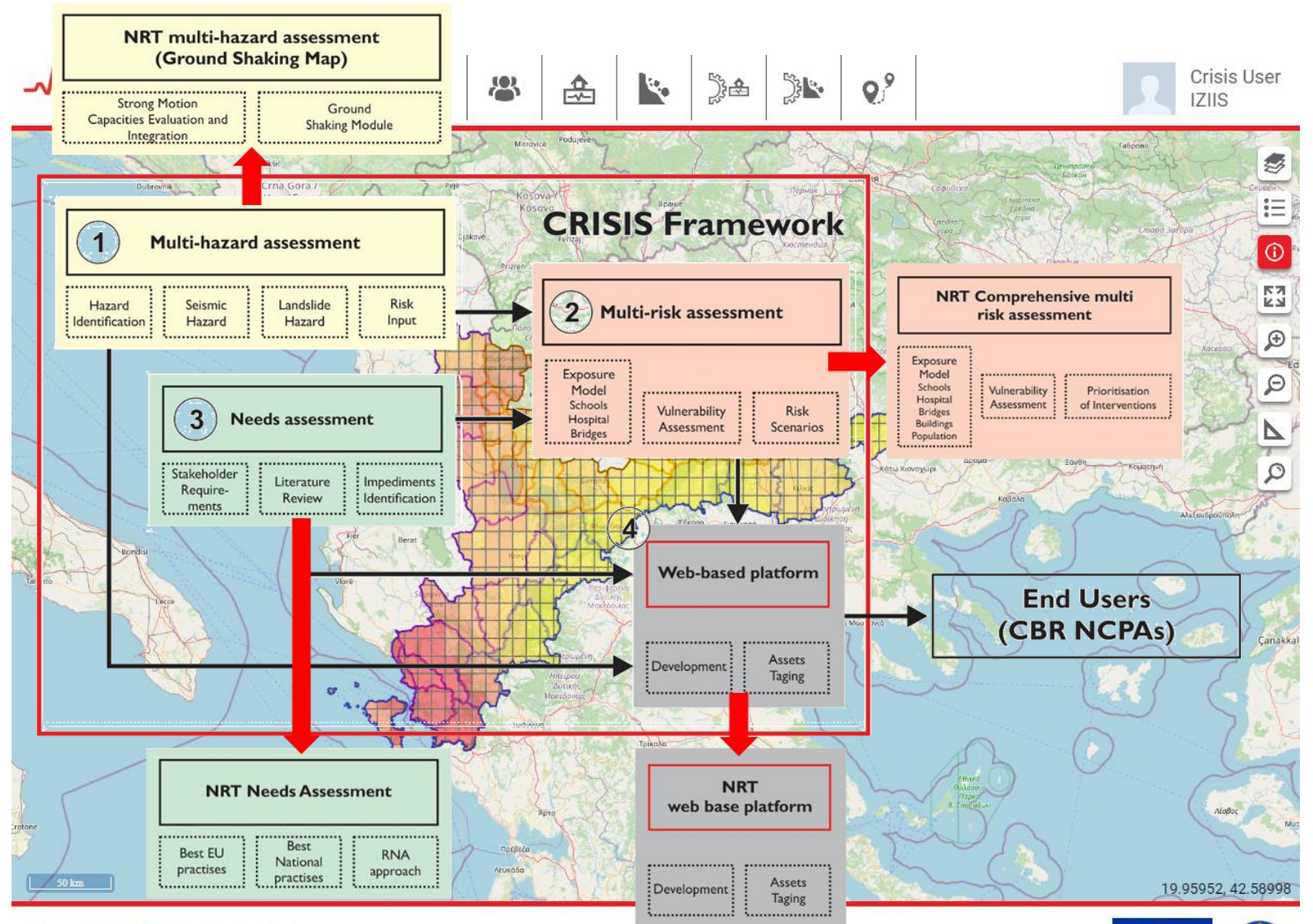share, prepare, respond

Extension of CRISIS platform:

o Near real-time seismic and landslide risk evaluation.

o Scenario-based planning and rapid needs assessment.

o Prioritization of resources for national and regional response efforts.

Activity		M1	M2	M3	M4	M5	M6	M7	M8	M9	M10	M11	M12	M13	M14	M15	M16	M17	M18	M19	M20	M21	M22	M23	M24
		2.25	3.25	4.25	5.25	6.25	7.25	8.25	9.25	10.25	11.25	12.25	1.26	2.26	3.26	4.26	5.26	6.26	7.26	8.26	9.26	10.26	11.26	12.26	1.27
		MT1						VM1						MT2			VM2								MT3
																					WS1				WS2
WP1	Project Management	MS1												MS2											MS3
T 1.1	Overall project management	D1.1		D1.2							D1.3						D1.5								
T 1.2	Communication strategy																								
T 1.3	Quality assurance (QA) and Quality control (QC)																								
T 1.4	Intellectual Property Rights (IPR) management and data privacy																								
WP2	Comprehensive Multi Risk Assessment Platform for Needs																								
T 2.1	Best EU and CBR Practices for Multi Risk Assessment and Needs				D2.1																				
T 2.2	Implementation of Needs Assessment for early crisis/emergency management						D2.2																		
T 2.3	Development of Rapid Needs Assessment Web-based Platform (RNA-WBP)									D2.3															
T 2.4	RNA-WBP Integration (beta)																				D2.4		D2.5		
T 2.5	RNA-WBP End Users Testing and pilot project																							D2.6 / D2.7	
WP3	CBR Exposure, Resources and Capacity Portfolio																								
T 3.1	Population (Socio-Economic Vulnerability Assessment)																								
T 3.2	Residential, Commercial and Industrial Buildings																								
T 3.3	Basic Services and Transport Infrastructure																								
T 3.4	Resources, Capacities and Capabilities																								
WP4	CBR Ground Shaking Map																								
T 4.1	CBR Strong Motion capacities																								
T 4.2	Integration of CBR Strong Motion Monitoring Capacities																								
T 4.3	CBR Ground Shaking Module																								
WP5	Dissemination									MS8															
T 5.1	Dissemination, Exploitation and sustainability									D5.1															
T 5.2	Training and workshops																						D5.4	D5.5	D5.6
T 5.3	Open access journal publications and conferences																								

WP-1: Project Management

D1.1 – Consortium agreement
D1.2 – Project management and work plan
D1.3 – First project progress reports
D1.4 – Quality procedures manual
D1.5 – Second project progress reports

WP-2: Comprehensive Multi Risk Assessment Platform for Needs Prioritization and Planning

D2.1 – Review of Best National, European, and International Methodologies and Practices for Multi-Risk Assessment and Needs Planning
D2.2 – Elaboration of Guidelines for CBR implementation of the selected Needs Assessment Approach
D2.3 – EMERGE WBP architecture
D2.4 – EMERGE WBP Beta version
D2.5 – EMERGE WBP Instruction Manual
D2.6 – EMERGE WBP version 1.0
D2.7 – Executive summary of EMERGE WBP

WP-3: CBR Exposure, Resources and Capacity Portfolio

D3.1 – Socio-Economic Vulnerability Assessment
D3.2 – Residential, Commercial and Industrial Buildings Vulnerability Assessment and Prioritization of interventions
D3.3 – Basic Services and Transport Infrastructure Vulnerability Assessment Prioritization of Interventions
D3.4 – Evaluation of Civil Protection Resources, Capacities and Capabilities
D3.5 – Executive summary of Civil Protection Resources, Capacities and Capabilities

WP-4: CBR Ground Shaking Map

D4.1 – Evaluation of CBR Strong Motion capacities and ORFEUS-EIDA Integration
D4.2 – CBR NRT ShakeMap Module
D4.3 – ShakeMap Manual
D4.4 – Executive summary of Near-realtime Shake Map Module

WP-5: Dissemination

D5.1 – Dissemination and exploitation plan
D5.2 – Potential Synergies with Other UCPM Projects
D5.3 – Sustainability plan
D5.4 – Workshop and training session as side event (EMERGE WBP BETA version)
D5.5 – Video tutorial of EMERGE WBP
D5.6 – Workshop and training session as side event – Regional Conference (EMERGE WBP version 1.0)

E-merge
share, prepare, respond

Expected Outputs

o Improved risk assessment methodologies of relevance for the UCPM, including to measure and/or enhance the understanding of the impact of current and future disasters.

o Improved DRM planning tools.

o Open-source IT platform for data-sharing.

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CRISIS MANAGEMENT CENTRE	PROTECTION AND RESCUE DIRECTORATE	CIVIL PROTECTION	NATIONAL CIVIL PROTECTION AGENCY
N. MACEDONIA		GREECE	ALBANIA

Key End Users:

Civil Protection Agencies, Crisis Management Centers, Local authorities.
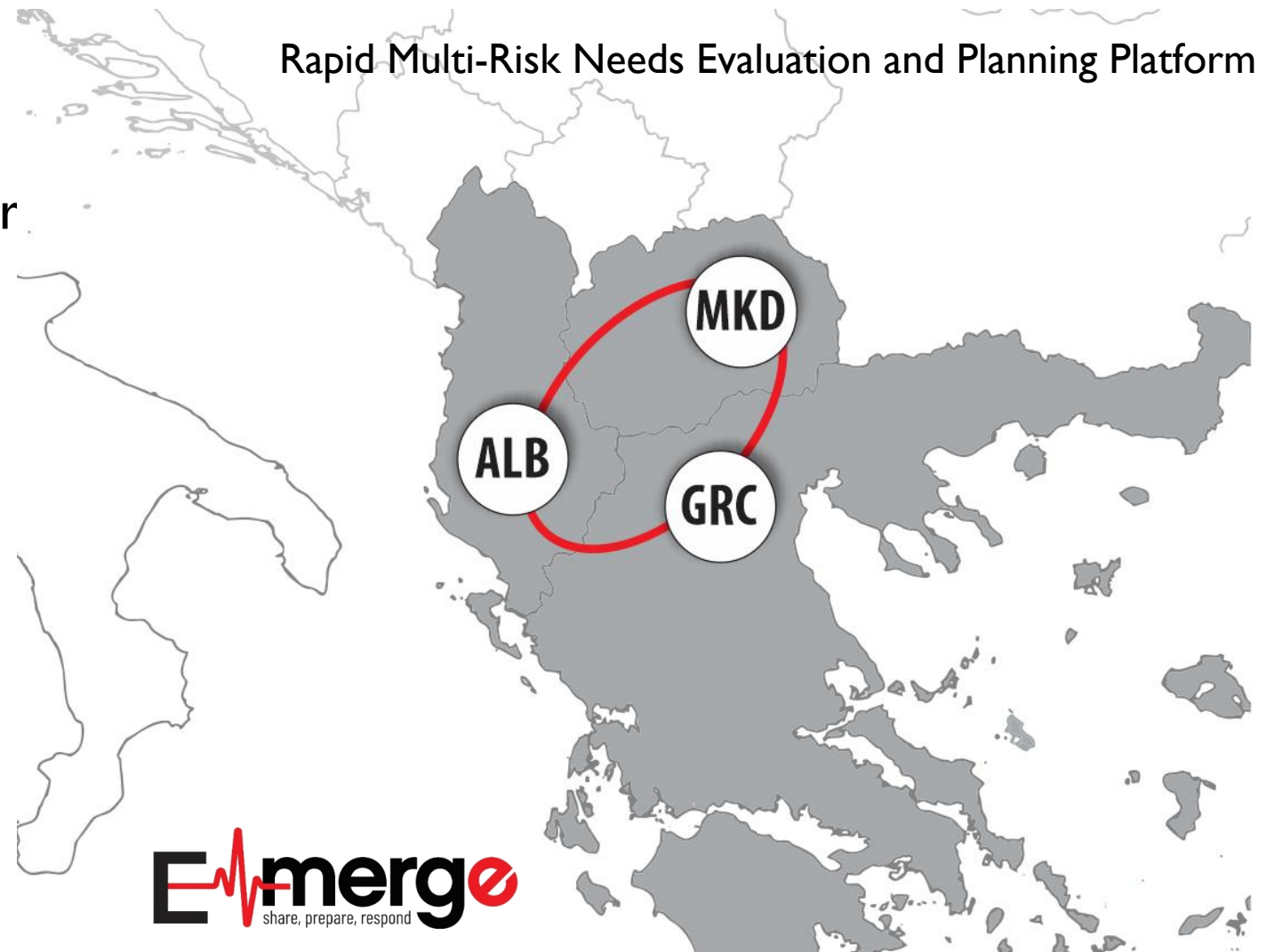
Stakeholder Engagement:

End-users are involved from the start to ensure the platform meets practical needs.

Conclusion:

EMERGE will strengthen disaster prevention, response, and resilience across multiple countries.

Future Work:

Scaling the platform, integrating more hazards and exposure elements, and enhancing cross-border cooperation.

Rapid Multi-Risk Needs Evaluation and Planning Platform

1st Kick-off Meeting, 07.03.2025, Tirana, Albania

THANK YOU !

By failing to prepare, you are preparing to fail
– Benjamin Franklin