

RAPID EARTHQUAKE DAMAGE ASSESSMENT CONSORTIUM - REDACT

...is a project, funded by the Black Sea Joint Operational Programme 2014-20, aiming to contribute to Earthquake Disaster Mitigation by jointly developing solutions to existing common problems.

OVERALL OBJECTIVE

...is to improve cross-border joint environmental data and information monitoring & availability regarding earthquake disaster prevention, management and seismic risk mitigation, by:

- i) developing a framework for harmonization and cooperation;
- ii) a new Service based on innovative ICT solutions including a Rapid Earthquake Disaster Assessment System; a Smartphone app and an Educational Hub; going beyond the existing practice in the field of Earthquake Emergency Preparedness and Response.

SPECIFIC OBJECTIVES

A. JOINT MONITORING OF EARTHQUAKE RELATED PHENOMENA IN THE BSB REGION

Develop common policies and strategies leading to sharing data, information and competencies concerning the entire monitoring procedure of earthquake related phenomena.

B. RAPID EARTHQUAKE DAMAGE ASSESSMENT FOR IMPROVING SAFETY OF PEOPLE AND ASSETS IN BLACK SEA BASIN (BSB) CROSS-BORDER AREAS

...by developing

- the framework for Earthquake related data and information sharing;
- a Rapid Earthquake Damage Assessment System (REDAS), to provide scenario based and event-related real-time data and earthquake damage level, coupled with a smartphone app to improve public response and participation in Emergency Response actions.

C. EDUCATION & PUBLIC AWARENESS

...by providing Education over the REDACT Educational Hub, to improve Public Awareness and Response Capacity to Emergencies.

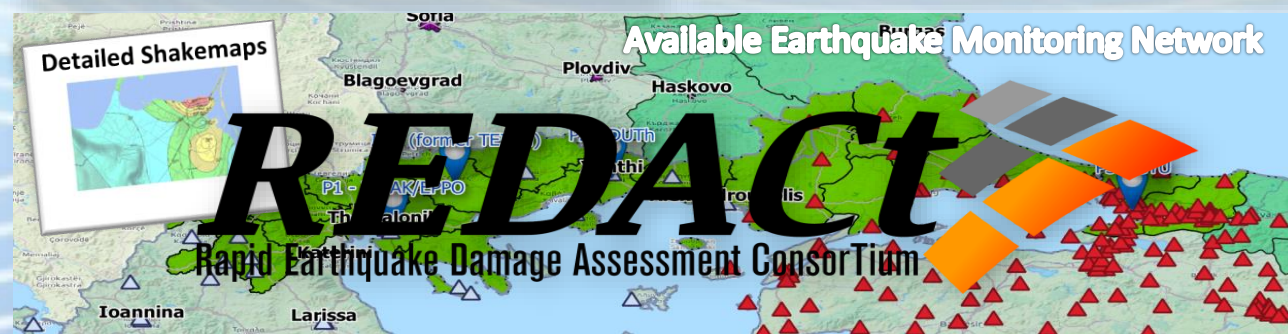
OUTPUTS

- A jointly developed, harmonization framework for improved cross-border environmental monitoring, data availability & interoperability regarding earthquake disaster prevention & management.
- Improved cooperation and availability of online environmental information related to Earthquake Risk Mitigation.
- A new, innovative ICT-based solution (REDA platform) in the field of Earthquake Early Warning and Damage Assessment, to provide reliable earthquake damage assessment based on "what if" scenarios and actual events in near Real-Time.
- A Smartphone application to provide fast communication with the Target Group.
- An Educational Hub to provide support to the public.

EXPECTED RESULTS

- Enhanced efficiency of earthquake emergency response planning in BSB Cross-Border Areas and promotion of contact among BSB countries to exchange good practices on early warning systems, allowing the population exposed to earthquake hazard to take actions for reducing the Risk.
- Improved Operational Capacity of partner Institutions and Target Group members.
- Awareness raised over Earthquake Disaster Mitigation, Data & Information sharing, activities.

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PROJECT RELATED EVENTS

- REDA System open structure will ensure adaptability and expansion to cover other areas and set the foundation for cross-BSB common harmonized practices and joint actions in Earthquake Disaster Mitigation.

MEETINGS

- Kick-Off Meeting (to be held online due to the covid-19 pandemic imposed restrictions)
- Progress meeting in Istanbul or Kocaeli, Turkey (May 2021)
- Progress meeting in Constanta, Romania (July 2021)
- Progress meeting in Chisinau, Moldova (April 2022)
- Final meeting in Thessaloniki, Greece (December 2022)

SEMINARS

One seminar for stakeholders per partner, to share competencies and best practices regarding the ITC platforms produced by REDAct.

RESEARCH FIELDS COVERED BY THE REDACT TEAM

Engineering Seismology & Earthquake Engineering, Numerical Modeling, Nonlinear analysis of Structures, Soil-Structure interaction, Seismic Vulnerability, Seismic Risk Evaluation, Site Response Analysis, Strong Ground Motion Simulations, Earthquake Early Warning & Rapid Response Systems, Engineering Geology, Geotechnical Hazard and Risk Assessment, Geographic Information Systems, Remote Sensing, Software Development, ICT

Contact details

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- PROGRAMME PRIORITY: 2
- PROGRAMME SPECIFIC OBJECTIVE: 2.1
- ACRONYM: **REDACT**, eMS code: **BSB 966**
- FUNDING PROGRAMME: **BLACK SEA BASIN JOINT OPERATIONAL PROGRAMME 2014-20**
- BUDGET: **974.860,00 € (ENI 896.871,20 €)**
- DURATION: **1 JULY 2020–31 DECEMBER 2022**



PARTNER INSTITUTIONS



**INTERNATIONAL HELLENIC
UNIVERSITY (FORMER TEICM),
SERRES, HELLAS**

<https://www.ihu.gr/ucips/>



**INSTITUTE OF ENGINEERING
SEISMOLOGY & EARTHQUAKE
ENGINEERING, THESSALONIKI,
HELLAS**

<http://www.itsak.gr/en/>



**DEMOCRITUS UNIVERSITY OF
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GEBZE TECHNICAL UNIVERSITY,
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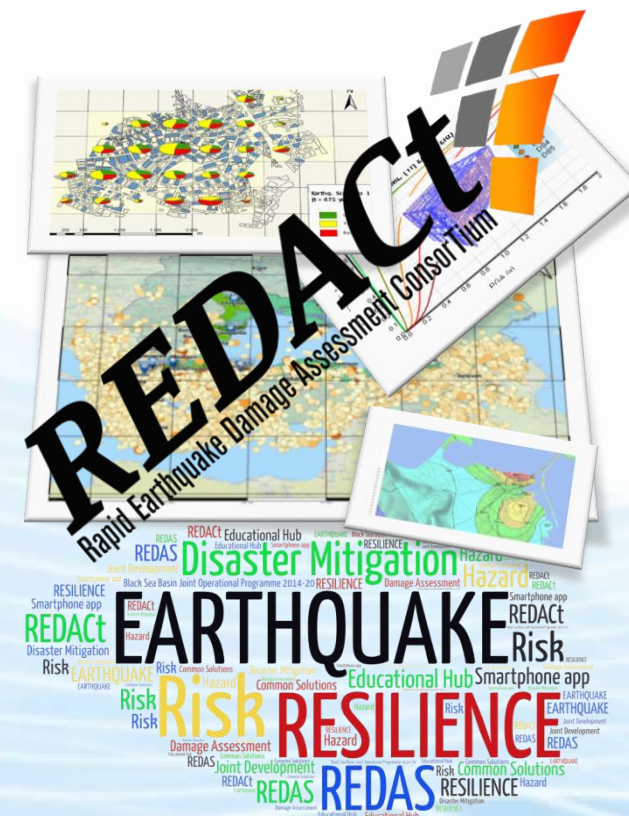
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**Rapid
Earthquake Damage Assessment
Consortium (BSB 966)**



Common borders. Common solutions.

