

Title: Slovenia Earthquake Event Rapid Response Toolbox - POTROG

Authors: Darko BUT¹, Primož Banovec²,

¹ Republic of Slovenia, Ministry of Defence, Administration of the RS for Civil Protection and Disaster Relief, darko.but@urszr.si; ² University of Ljubljana, Faculty of Civil and Geodetic Engineering, primoz.banovec@fgg.uni-lj.si

Forum topics	<input type="checkbox"/> Energy in 21st Century	<input type="checkbox"/> Cultural Heritage in Digital World
	<input type="checkbox"/> Engineering Capacity Building	<input checked="" type="checkbox"/> Disaster Risk Management & Governance for Resilient Communities
	<input type="checkbox"/> Construction 4.0	<input type="checkbox"/> BIM Lifecycle, Facility & Asset Management

Abstract: (250 to 500 words: for each heading use the bullet points or narrative - the submission including graphics should not exceed one page)

Problems - Issues / Challenges-Needs	Earthquake event is an outstanding risk event. Its occurrence is very sporadic, but it might impose significant damage to buildings (infrastructure?), human life and activities. This is requesting efficient and effective activities in all phases of the disaster management cycle with necessary support to first responders, thus supporting the overall coping capacity.
Solutions - Methods / Results - Findings	<p>Recognizing that the earthquake events pose, beside the flood events, the most outstanding risk in Slovenia, the Administration of the Republic of Slovenia for Civil Protection and Disaster Relief has in 2011 initiated a POTROG project with an aim to develop a rapid response tool supporting different activities in the case of an earthquake?. The web-based tool was developed based upon the existing public registers and a parametric model of seismic risk of real buildings. This seismic risk model was developed on the basis of individual seismic assessment of more than 1.500 existing buildings in Slovenia assessed in the last 30 years.</p> <p>Within the project several modules were developed, forming one comprehensive toolbox composed of:</p> <ul style="list-style-type: none"> - Rapid assessment toolbox – assessment of damage grades (EMS-98 scale) and usability of buildings modelling each building in Slovenia individually with any location and magnitude of earthquake. - Rate your own building – modelling tool for citizens; - Assessment of seismic risk of critical infrastructure. - "Did you feel it?" module; - Assessment of necessary response capacity; - Daytime occupancy model, seismic risk of population and human life loss models; <p>Different components of the POTROG toolbox are regularly used. Most often, the "did you feel it?" module is used for the development of seismic maps in the case of earthquakes with lower magnitude. Other modules of the POTROG toolbox are mostly used for the earthquake preparedness stage – development of municipal, regional and national disaster management plans, and as simulation tool for earthquake response exercises. POTROG toolbox has also a significant impact on general population as central national earthquake preparedness rising platform. In the presentation the features of the POTROG toolbox and ongoing developments will be discussed.</p>
Novelty - Value / Relevance to ...	The operational POTROG platform is already proving to be essential multipurpose tool enabling more efficient preparedness and response to earthquake events in Slovenia. Beside that, by addressing with some features like "Rate your own building", the tool is enabling also outreach to general public increasing awareness.
Forum statement	Integrated tools that efficiently support all steps of disaster management cycle should be developed and made available for a wide array of users.

Keywords: (up to 5 keywords)

earthquake resilience, DSS, did you feel it, coping capacity, response

Graphics: (please use the gray area below for *representative graphics* or *graphical summary*; select the gray area below and paste your graphics)



APPLICATIONS OF CONSUMPTION

The applications of POTROG were developed within the framework of the PROJECT CONSUMERS, CONSUMER 2 and CONSUMPTION 3 projects financed by the Ministry of Defence, the Administration of the Republic of Slovenia for Protection and Rescue -URSZR. They were developed to acquire a quick response tool in the event of an earthquake.

Applications use data from various sources and simplifications that are defaulted on the basis of expert bases that are not covered by the IARS, therefore the ACPDR does not assume any responsibility for the misuse of data supporting applications and their interpretation.

<p>RATE YOUR BUILDING</p> <p>The application is intended for the general public, who can roughly assess the damage to any building in the event of an earthquake.</p>	<p>ASSESSMENT OF THE CONSEQUENCES OF THE EARTHQUAKE</p> <p>The application is intended for civil protection for the first assessments of the situation in the event of an earthquake and for assisting in the preparation of threat plans.</p>	<p>BASE OF INDIVIDUALLY ASSESSED BUILDINGS</p> <p>The application is intended for the general public, who can check whether the earthquake resistance of an object is individually evaluated.</p>	<p>OCCUPANCY OF BUILDINGS</p> <p>The application is intended for internal use of the URMS.</p>	<p>ROAD TRANSPORT ANALYSIS</p> <p>The application is for URSZR, for assistance in planning the consequences of the earthquake. Map in scale 1:25000 shows road traffic in 13 municipalities; for these municipalities it is also possible to draw maps of the vulnerability of buildings.</p>	<p>ASSESSMENT OF DAMAGE AND USABILITY OF BUILDINGS (USB KEY)</p> <p>The application is for URSZR, to assist in the inventory of damage with a standard form (printed). The application allows you to print forms, capture completed and process results without having to connect to the internet.</p>
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