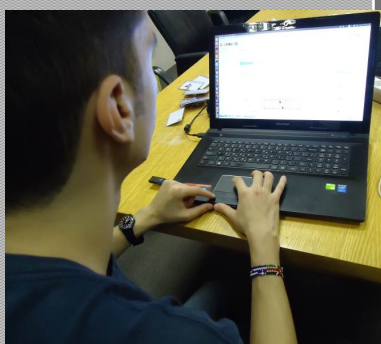


2016



“Monitoring and Evaluation of Natural Hazard Preparedness at School Environment”

Newsletter #6

Summary of outcomes



Project co-funded under the Union Civil
Protection Mechanism, Grant Agreement No.
ECHO/SUB/2014/698447



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1. Introduction

The present newsletter aims to provide a brief summary of the main activities that have been undertaken during the E-PreS project implementation. It will thus present the deliverables per project action and the main results that have been achieved. The project was coordinated by the Dept. of Informatics and Telecommunications of the University of Athens and was implemented also by the following partners:

- the Greek National Earthquake Planning and Protection Organization (EPPO) and the Natural History Museum of Crete-University of Crete (NHMC-UOC) in Greece;
- the Centre for Educational Initiatives (CEI) in Bulgaria;
- the National Institute for Research and Development in Construction, Urban Planning and Sustainable Spatial Development (URBAN-INCERC) in Romania; and
- the Istituto Nazionale di Geofisica e Vulcanologia (INGV) in Italy.



2. Project objectives

The E-Pres main objectives were the following:

1. to identify, share and implement best practices and methodologies gained from previous EU projects and partners activities,
2. to create smart tools which define, simulate and evaluate all hazards emergency steps and be customized to the unique district, school, and campus,
3. to involve the collaboration of interested parties and
4. to include pupils with disabilities and special needs.

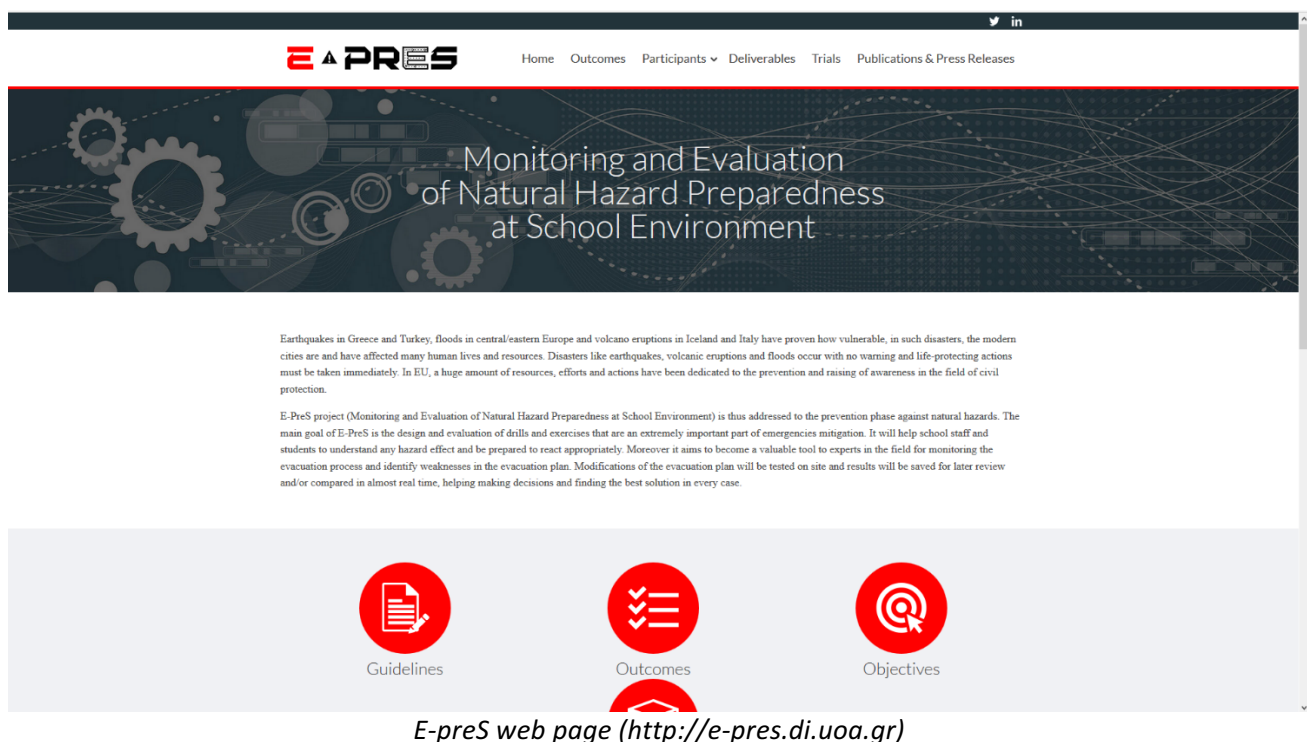
During project implementation, all partners put all their efforts to accomplish on the highest level all these targets.

3. Project Tasks and deliverables

Project activity was shared under five distinct Tasks:

- Task A: Project management
- Task B: Users needs
- Task C: System design
- Task D: Pilot demonstrations and system validation
- Task E: Dissemination of actions

The results of each actions are presented below.



3.1. Task A: Project management

This task was focused on the collaboration and communication between Coordinator and partners, as well as with the E.C. to prepare the necessary procedures and documentation for the proper management of project's activities and the preparation of the scheduled reports to the E.C.

Under this task a Steering Committee was set for the coordination of the project, certain reports were prepared by the partners and the Coordinator, management meetings were organized in Greece (kick-off meeting on March, 11 2015), Bulgaria (August, 30th 2016 to September, 1st 2016) and Romania (September, 1st 2016 to September, 3rd 2016), and special communication meetings and events to address project's outcomes to end users were organized by the partners. Initially, a *Risk Analysis and a Prevention plan* was conducted and then a special report on the *End-users needs and their activities* was accomplished. The project prepared also three Technical reports for the E.C.

3.2. Task B: Users needs

Under this task partners accomplished specialized studies and extensive surveys for the technological status of present tools that are used at the prevention and the preparedness phase which served as the basis for other actions under tasks C and D. The adopted techniques were then evaluated during the drills under realistic conditions.

Three reports were thus delivered: A report on the *State of the art technologies and refinements*, which provides the results for the survey on the technologies that could be used under E-PreS; a report on the *End Users need and requirements*, where all partners put their emergency plans, their needs and requirements to realise drills and system executions; and a report on the *Drill scenarios* that were focused on the earthquakes, volcanic eruptions and floods.

3.3. Task C: System design

This task was mainly undertaken by the UoA and was dedicated to the design and testing of the E-preS drill monitoring system and its architecture. Several reports on the architecture, the components, the information flows and the basic system interactions were prepared. Main outcome though was the design and realization of the *prototype* of the web portal.

The prototype includes all the software modules implemented as web portal component and services (e.g., online questionnaires, structured forms of communication). The prototype was also implemented and evaluated by the end users in real condition and a final integration report on the testing phase was also prepared. The reports provide detailed platform setup instructions and description of all the lessons learned during the integration phase and can be used as a thorough guide to follow during the trials setup by offering a step-by-step walkthrough for the configuration of the system.

3.4. Task D: Pilot demonstrations and system validation

During this phase all partners were engaged in workshops, trials and testing of the E-preS system at their places. Workshops were organized in each partner to train target groups and partners' staff on the implementation of the trials with the E-preS system and for that purpose certain material like presentations, leaflets instructions for trainees was developed.

In all partners certain trials for the cases of an earthquake, flood and volcano eruption evacuation need at a school environment were conducted that provided an in-depth analysis of the qualitative and quantitative metrics necessary to design and implement a successful drill. Certain reports for each case were produced.

Finally, based on the trials and their evaluations a *System Validation report* was prepared summarizing the end-user's feedback regarding the project success, that was based on the evaluation of system efficiency and drill success. The evaluation process contained the establishment of assessment metrics and the methodology that was used further on for the evaluation activities. For this reason, quality indicators (e.g., conformity of the results, efficacy of the communication system) that allow the project assessment in multiple levels, were applied.

A set of guidelines for the proper installation and use of E-preS system during a trial was also produced and published at project's website (<http://e-pres.di.uoa.gr/guideline>).



3.5. Task E: Project dissemination

The last Task of E-PreS was focused on the necessary dissemination activities to share the outcomes and deliverables of the project. Initially a *Dissemination plan* was prepared which set the guidelines for the dissemination activities. Under the plan the design of the project Web-page and other communication tools was foreseen, the production of 6 E-newsletters (<http://e-pres.di.uoa.gr/brochures>), and the publication of certain tools was scheduled.

Project Web page hosts all necessary information on the project activities and deliverables and can be found at <http://e-pres.di.uoa.gr/>. UoA created also tweeter and LinkedIn accounts where activities were promoted (https://twitter.com/Pcomp_epres).

The project produced also a leaflet (brochure) that was used during the dissemination activities and events (http://e-pres.di.uoa.gr/sites/default/files/3ptiho_e-pres_196_x_142_web.pdf) as well as a video dossier that summarizes activities and drills that can be found at YouTube (<https://t.co/n5sipf2hEP>).

What is E-PRES project about?
E-PRES project (Monitoring and Evaluation of Natural Hazard Preparedness at School Environment) is addressed to the prevention phase against natural hazards.

Partnership
The E-PRES project is coordinated by the National and Kapodistrian University in Greece and involves also the following partners:

The main goal of E-PRES is the design and evaluation of drills and exercises that are an extremely important part of emergencies mitigation. It will help school staff and students to understand any hazard effect and be prepared to react appropriately. Moreover, it aims to become a valuable tool to experts in the field for monitoring the evacuation process and identifying weaknesses in the evacuation plan.

<http://e-pres.di.uoa.gr/>

Monitoring and Evaluation of Natural Hazard Preparedness at School Environment

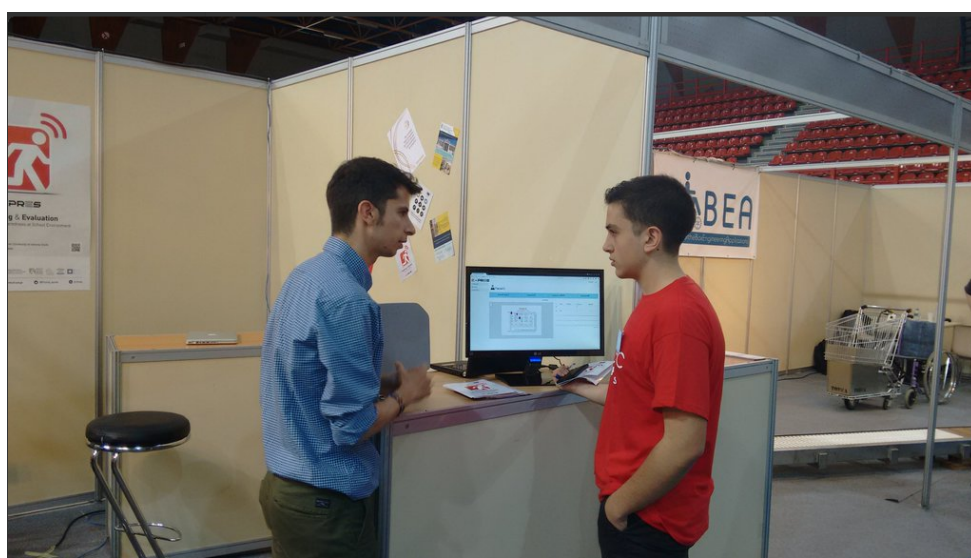
Partners:

- NATIONAL AND KAPODISTRIAN UNIVERSITY OF ATHENS, GREECE
- EARTHQUAKE PLANNING & PROTECTION ORGANISATION, GREECE
- CENTRE FOR EDUCATIONAL INITIATIVES, BULGARIA
- NATIONAL INSTITUTE FOR RESEARCH AND DEVELOPMENT IN CONSTRUCTION, URBAN PLANNING AND SUSTAINABLE SPATIAL DEVELOPMENT, URBAN-INCERC, ROMANIA
- ISTITUTO NAZIONALE DI GEOPISICA E VULCANOLOGIA, ITALY
- NATURAL HISTORY MUSEUM OF CRETE - UNIVERSITY OF CRETE, GREECE

The project is co-funded under the European Union Civil Protection Mechanism, Grant Agreement No. ECHO/SUB/2014/698447

In addition, a tutorial was also developed on the use of E-preS system which helps end users to understand the basic concept of system, design a drill and finally implement it on a successful way. The tutorial can be found at: <http://e-pres.di.uoa.gr/guideline>.

The partners implement also a number of scientific dissemination activities like participation in scientific meetings and congresses, in technological and IT exhibitions, and publication of abstracts, scientific papers and press releases. A summary of those activities can be found at project's web page at <http://e-pres.di.uoa.gr/publications-press-releases>. In brief, six scientific articles were produced, one participation in a scientific exhibition and many press releases and announcements were produced by all partners.



All project partners are committed to sustain E-preS system, continue dissemination of project outcomes and implementation of drills at interested school communities

The image shows a composite of the E-PRES project website and its Twitter profile. The website header features the E-PRES logo and navigation links. The main content area is divided into sections: 'What is E-PRES project about?' which describes the project's goal of evaluating drills and evacuation plans; 'Partnership' which lists the National and Kapodistrian University of Athens and the Earthquake Planning & Protection Organisation; and a 'Monitoring and Evaluation of Natural Hazard' section with a graphic of a hand holding a smartphone. The Twitter profile for @Pcomp_epres is shown below, featuring a pinned tweet about a video on earthquake preparedness and a list of users who follow the account.