

MAppERS

MAppERS aims at identifying gaps in the information sharing system in terms of territorial knowledge, risk prevention and emergency. Moreover, it deals with human role as 'territorial mappers' through the development of a smart phone application that allows the sharing of GPS-localised, precise information on risk situation from the population to civil protection operators. The whole process of design, updating feedback from citizen, involving them in training courses on the monitoring of the territory fulfils a long term objective of creating involvement and participation from the population in hazard management. This is a development-key of a strategy for the active participation of citizens as actors of prevention of hazards, according to the priorities of action set by the Hyogo Framework for disaster risk reduction, reducing costs of recovery and emergency management and promoting a long term policy of responsabilisation of the population.



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Implemented by:



National Research Council of Italy (CNR) - Research Institute for Geo-hydrological Protection of Padua (IRPI), Italy (www.irpi.cnr.it) - *Lead partner*. The National Research Council (CNR) is a public organization; its duty is to carry out, promote, spread, transfer and improve research activities in the main sectors of knowledge growth and of its applications for the scientific, technological, economic and social development of the Country.



Institute of International Sociology Gorizia (ISIG), Italy (www.isig.it) - *Project partner*. ISIG is an independent institute recognized by the Italian Ministry of Education and Research and has status as special adviser to the Economic and Social Council of the United Nations (ECOSOC).



Frederikssund Halsnæs Fire & Rescue Service (FHFRS), Denmark (www.fh-brand.dk) - *Project partner*. Frederikssund Halsnæs Fire & Rescue Service provides fire and rescue services to the municipalities of Frederikssund and Halsnæs in the centre of Seeland, in Denmark. The two municipalities are home to approximately 76,000 inhabitants who live within a land area of 382 square miles.



Hellenberg International Oy (HELLB), Finland (www.hellenberg.org) - *Project partner*. Hellenberg is an international security advocacy based in Helsinki. With a compact and flexible in-house research unit, it challenges mainstream solutions in critical infrastructure protection (CIP).



Helsinki City Rescue Department (HCRD), Finland (www.hel.fi/hki/pela/en/Etusivu) - *Project partner*. Helsinki City Rescue Department is one of Finland's 22 regional rescue departments. It is responsible for carrying out tasks such as monitoring and inspections of fire prevention measures, fire and rescue operations and medical rescue operations, i.e. urgent patient transportation, in the Helsinki area.



Estonian Academy of Security Sciences (EASS), Estonia (www.sisekaitse.ee/eass/the-academy) - *Project partner*. The Estonian Academy of Security Sciences is a state institution, providing professional education for civil servants belonging in the area of government under the Estonian Ministry of the Interior. The Academy was established in 1992 after Estonia regained its independence.

Co-financed by:

The European Union is the world's biggest donor of humanitarian aid, providing more than 50% of humanitarian aid worldwide.



Its European Community Humanitarian Office (ECHO) was created in 1992 as an expression of the European solidarity with people in need all around the world. In 2004 it became the Directorate-General for Humanitarian Aid before integrating Civil Protection in 2010 for better coordination and disaster response inside and outside Europe. (<http://ec.europa.eu/echo>).

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Mobile Applications for Emergency Response and Support

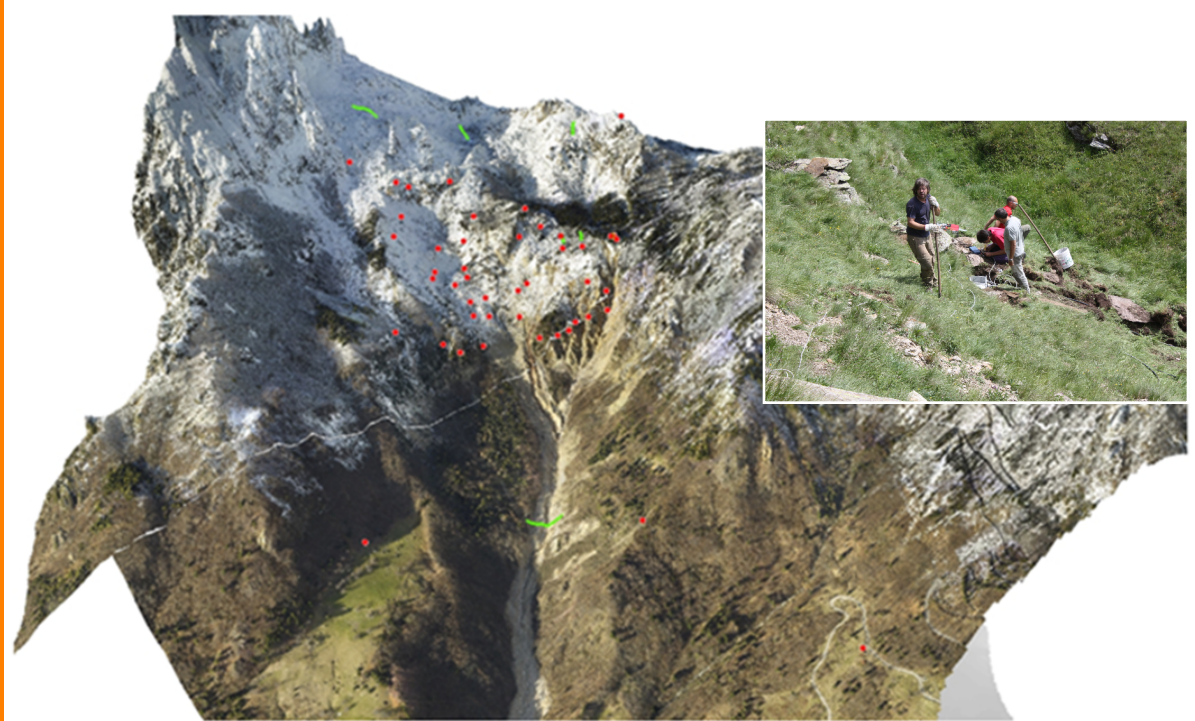
www.MAPPERS.eu

MAppERS pilot activity

includes explanations and a training on operative functioning of the modules. Training curricula for citizens that wish to be involved in the monitoring of the territory in the long run are to be defined so to promote territorial knowledge and awareness, give information and practical skills on smart phone technologies and specific efficient jargon to communicate hazard relevant information. Furthermore, the system is to be implemented through a strategy of data monitoring including existing data loggers and instrument adopted on pilot study.



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OBJECTIVES

Identifying gaps in the *information sharing system* in terms of territorial knowledge

Empowerment of civil society members as *'territorial mappers'* through GPS-localised mobile devices (citizens-CP volunteers)

Design and implementation of dedicated *training course* on the monitoring action from citizens

Crowd sourcing in hazard management as key-strategy for the *active participation* of population, reducing costs of recovery

Enhancing *active participation* and *responsibilisation* of the population in territorial risk management

EXPECTED RESULTS

- ▶ Development of a *multi-module tool* (mobile devices) with a strategy prone to human resources;
- ▶ Create *collaborative user environments* for emergency response and support during crisis;
- ▶ Test a networked *disaster response community*;
- ▶ Raising *public awareness* towards instruments for a long term goal of involvement and participation;
- ▶ Easy to use *"human-data" input* on crisis management, maximising utility of citizen-CP volunteers response;
- ▶ Improvement of *peer produced mapping*;
- ▶ *End User Advisory Board (EAB)* network.