Multi-hazard Cooperative Management Tool for Data Exchange Response Planning and Scenario Building

Release B Demonstration. Landslide Exercise

HOW IS THE DEMONSTRATION ORGANISED?

The actions and the decisions taken, and the information that was used to prepare, manage and mitigate a landslide incident, will be reproduced in HEIMDALL system.

The demonstration will be divided into two different tabletop exercises, one focussed on the actions performed during the Preparedness phase and the other on the Response phase of DRM cycle.

WHAT IS THE LANDSLIDE INCIDENT TO BE REPRODUCED?

A landslide occurred on November 24th of 2016, in Monesi di Mendatica, Italy, between 9am and 6pm.
The majority of people living in Monesi had to be rescued from their houses and evacuated to safe areas.
One house was completely destroyed while 25% of the houses were condemned and several others heavily damaged.

WHAT ARE THE HEIMDALL FUNCTIONALITIES AND MODULES TO BE TESTED?

Graphical User Interface Module

+ Manage incident scenarios
+ Manage simulations, impact assessment and impact summary
+ Manage situation report generation: generate EDXL-SitRep for scenarios

User and Role Management Module

+ Modification of map symbology
+ Creation of map layers

Crowdsourced and First Responders Data Module

+ Send media to HEIMDALL system

External Systems Module

+ Present information about critical infrastructures
+ Display the location of assets on the map

Landslide Modelling Module

+ Delineate information on source areas
+ Delineate safe and unsafe areas

Scenario Management Module

+ Associate geotagged pictures to a scenario
+ Associate GUI screenshots to a scenario
+ Create a scenario with weather data only
+ Store extended weather parameters
+ Store weather forecast in different fixed time frames
+ Mark current weather conditions as verified by a field user
+ Store area of a scenario
+ Manage lessons learnt
+ Manage response plans

Risk and Impact Assessment Module

+ Estimate the expected impact on critical infrastructure functions
+ Estimation of the physical exposure
+ Assessment of the physical impact
+ Estimate the expected impact based on the identified affected components
+ Integrate information on monetary values and the impact based on this estimate

Impact Summary

+ Number of damaged buildings in AOI
+ Maximum hazard level in AOI

PROJECT CONTACTS DETAILS:

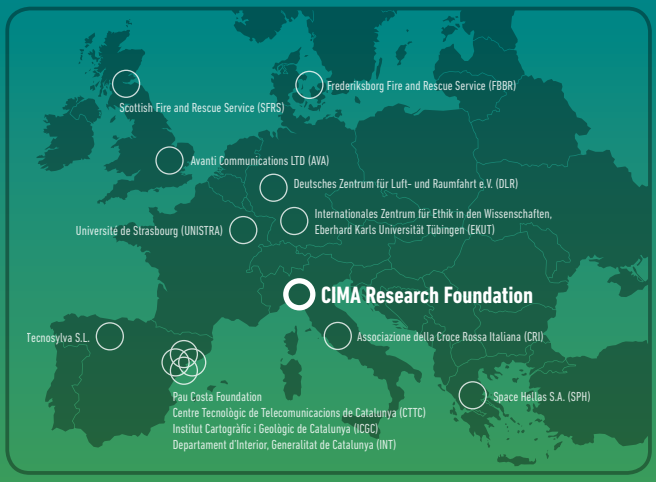
Project Coordinator

Dr. Mani Swaminathan
German Aerospace Center (DLR) Institute
of Communications and Navigation
Oberpfaffenhofen, Germany
mani.swaminathan@dlr.de
+49-8153-28-3129

Senior Project Manager

Dr. Tomaso de Cola
German Aerospace Center (DLR) Institute
of Communications and Navigation
Oberpfaffenhofen, Germany
tomaso.decola@dlr.de
+49 8153 28 2156

HEIMDALL CONSORTIUM



DEMONSTRATION HOST: CIMA Research Foundation.
Via Armando, Via Magliotto, 2, 17100 Savona SV, Italia

PARTNERS

This project has received funding from the European Union's Horizon 2020 research and innovation programme under the grant agreement No. 740689