Call: H2020-EU.3.7.5. - Increase Europe's resilience to crises and disasters

Projet HEIMDALL - Multi-Hazard Cooperative Management Tool For Data Exchange, Response Planning And Scenario Building

Coordinateur : Deutsches Zentrum Für Luft - und Raumfahrt (Allemagne)

14 partenaires

Partenaire UNISTRA : Stephen CLANDILLON, ICube, - UMR 7357 – Plateforme SERTIT- Service Régional de traitement de l'Image et de Télédétection

The project aims at improving preparedness of societies to cope with complex crisis situations by means of providing integrated tools to support efficient response planning and the building of realistic multidisciplinary scenarios.
The project will design and develop a system for improving response planning strategies and scenario building (TRL 7 or 8) and facilitating organizational coordination among many actors, integrating a wide range of support tools to be used operationally by a large variety of stakeholders (firefighting units, medical emergency services, police departments, civil protection units, command and control centres). The devised system shall integrate existing and newly developed tools to enhance the cooperation between autonomous systems (satellite-, sea-, land- and air-based) from different agencies as well as to consolidate the methodology for cross-border scenario-building.
The project shall investigate the currently existing tools and methodologies with the involvement of local authorities and end users and provide mechanisms to enhance cooperation among all involved actors.
The main domains to be taken into account are:
• The EU Civil Protection Mechanism (natural and man-made disasters, including events affecting critical infrastructure)
• IPCC recommendations in relation to extreme climatic events
• The Sendai Framework
The project shall develop on the basis of realistic scenarios in specific geographical areas with the close involvement of local authorities. Since the expected TRL is 7 or 8, the prototype shall be demonstrated by the end of the project in a realistic environment.
Although the project will develop a flexible system which should be adaptable to integrate multiple hazard-specific tools, the main scenarios considered for the time being are: forest fire, flood, flash floods and landslides.