

## OBJECTIVES

The goal of BRIDGE is to increase safety of citizens by developing technical and organisational solutions that significantly improve crisis and emergency management. A BRIDGE platform will provide technical support for multi-agency collaboration in large-scale emergency relief efforts. The key to this is to ensure interoperability, harmonization and cooperation among stakeholders on the technical and organisational level.

The vision of the BRIDGE project is to

- Facilitate cross-border and cross-agency collaboration;
- Allow the creation of a common, comprehensive, and reliable operational picture of the incident site;
- Enable integration of resources and technologies into workflow management;
- Enable active ad-hoc participation of third parties.



Social practices, ethical concerns, legal and bureaucratic demands must be taken into consideration during the realization of this vision. Therefore, BRIDGE will facilitate constructive deep integration of multi-dimensional social, legal, ethical analysis into ambitious interdisciplinary user-led socio-technical innovation.

## CONSORTIUM



Stiftelsen SINTEF  
Oslo – Norway



Almende BV  
Rotterdam – The Netherlands



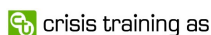
CNet Svenska AB  
Danderyd – Sweden



Fraunhofer FIT  
Sankt Augustin – Germany



Lancaster University  
Lancaster – United Kingdom



Crisis Training AS  
Elverum – Norway



SAAB Training Systems  
Huskvarna – Sweden



Thales Nederland B.V.  
Delft – The Netherlands



University of Klagenfurt  
Klagenfurt – Austria



University of Salzburg  
Salzburg – Austria



VSH Hagerbach Test Gallery  
Flums Hochwiese – Switzerland



Delft University of Technology  
Delft – The Netherlands



Stockholm University

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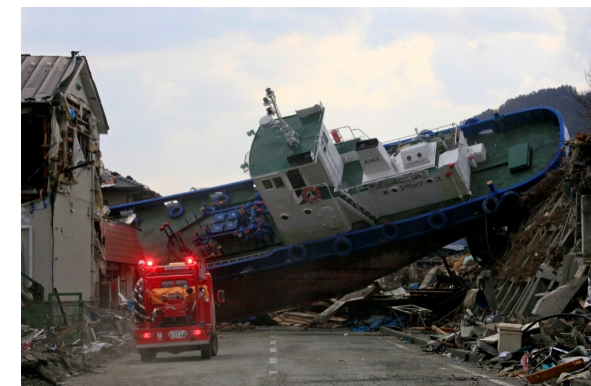
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[www.bridgeproject.eu](http://www.bridgeproject.eu) / [www.sec-bridge.eu](http://www.sec-bridge.eu)

## BRIDGE:

Bridging Resources and Agencies in  
Large-Scale Emergency Management



BRIDGE will build a system to support interoperability – both technical and social – in large-scale emergency management. The system will serve as a bridge between multiple First Responder organisations in Europe, contributing to an effective and efficient response to natural catastrophes, technological disasters, and large-scale terrorist attacks.



## PROJECT DESCRIPTION

The BRIDGE consortium consists of a well-balanced mix of cross-disciplinary academics, technology developers, domain experts and end-user representatives. Participatory design and agile software development allow for a close collaboration with the targeted end-user groups. BRIDGE is also committed to an iterative user-centred approach incorporating and validating user/domain requirements.

Social, legal and ethical experts investigate the mutual dependence of technology, organisational dynamics, and human factors, and study existing and emergent future practices of managing opportunities, risks and difficulties. This steers the far-reaching synchronization between technical and social innovations as well as public life.

BRIDGE elaborates solutions for the generation and distribution of 3D simulations of emergency situations for use in training and in case of an emergency. The visual presentation of threat scenarios and their consequences facilitate to bridge the differences in technical and operational backgrounds between the parties involved. In addition, BRIDGE develops technical solutions in three different areas:

- Interoperability of data, systems & technology;
- Exploration of a common operational picture;
- Runtime inter-agency & inter-agent collaboration.

Realistic scenarios in real-world environments lead to yearly demonstrations of the BRIDGE platform under different foci. The project's exploitation activities target three groups: emergency management end-user communities in different European countries, industrial BRIDGE partners, and non-BRIDGE technology and solution providers in Europe.



## Expected Results

BRIDGE will deliver socio-technical innovation in multi-agency emergency collaboration. Ethnographical work will construct a deep understanding of the first responders' domain, also in terms of social, legal and ethical issues. The technical platform will deliver:

- Methods and tools that support run-time intra- & inter-agency collaboration;
- A middleware allowing data, system & network interoperability;
- Advanced human-computer interaction techniques for effortless exploration of high-quality information;
- Enhanced organizational workflows & communication processes.

## Benefits for First Responder Community

BRIDGE aims for support in rapid decision making during a large-scale, multinational crisis response. The results should:

- Enable more-efficient performance;
- Reduce workload;
- Improve quality and efficiency of situation assessment, decision making, and timeliness and effectiveness of communications and coordination;
- Optimize the use of resources;
- Strengthen competitiveness of EU technology and service providers in knowledge-based economies and the public sector.

## End-User Advisory Board

In order to guarantee active end-user involvement during the whole project, BRIDGE established an advisory board of national and regional end-user organisations representing different areas within emergency management. This expert-level group forms a steering committee for the project and reflects the BRIDGE objectives and achievements from the customer point of view. Furthermore, it ensures that the project remains aligned with end-user needs and technology trends during the course of its execution and that the project results remain beyond state-of-the-art.



## Contact

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