### . O B J E C T I V E S

The objectives of the project are:

- Perform a research study on the requirements for emergency services given the current digital landscape
- Multilingual speech and written communication analysis in emergency calls
- Aggregate multimodal information from sensor networks, meteorological stations, etc. and social media for decision support and validation purposes and issue early warnings
- Visual context analysis during emergency calls
- Semantic integration of multimodal information from the emergency calls, M2M/IoT
- Platforms and social media for decision support and generation of early warnings
- Multilingual report generation from aggregated emergency data
- Research & development of Main Public Safety Answering Point (PSAP) for emergency multimedia enriched calls Develop a PSAP
- Design and execute 3 large scale pilots

The proposed large-scale pilots will be performed in two phases:

**Phase 1:** an initial evaluation of the developed Main PSAP will be carried out in order to perform an initial evaluation of the system to take corrective actions.

**Phase 2:** Pilot test, where a final test of the Main PSAP will be carried out before setting up the final product.























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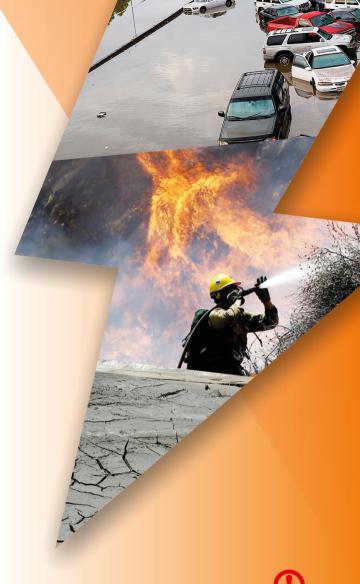
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In every disaster and crisis, incident time is the enemy, and getting accurate information about the scope, extent, and impact of the disaster is critical to creating and orchestrating an effective disaster response and recovery effort. The vision of **beAWARE** is to provide support in all the phases of an emergency incident caused from extreme weather conditions (floods, fire, droughts etc) using a wide variety of technologies and tools to assist the work of disaster planners and emergency responders.

# . C O N T E X T

The overall context for **beAWARE** lies in the domain of situational awareness and command and control (C2). Situational awareness means being able to accurately determine what has happened, what is happening now, and what will come next, all in order to plan and coordinate the most effective response possible with the resources available.

#### . O V E R A L L G O A L

beaware promotes integrated solution to support forecasting, early warnings, transmission and routing of the emergency data, aggregated analysis of multimodal data and management the coordination between the first responders and the authorities.

Getting the right people and resources to the right place at the right time will be the essence of the command and control aspect of the disaster response for our approach.

**Flood: beAWARE** will develop an environment capable of creating analysis and exploration tool that allows decision makers to track and understand events, behaviours and trends at the micro (i.e. user) or macro (crowd dynamics) scale.

**Fires: beAWARE** technologies will help in the early stages of the development of fires and support decision makers in the emergency management system.

**Heatwave: beAWARE** system will offer an early warning regarding the upcoming phenomenon, as well as assist all relative engaged organizations in taking the necessary measures in order to avoid past problems and address the heatwave more efficiently.

## .BEAWARE APPROACH

Instead of focusing on a specific part of the crisis management problem, **beAWARE** proposes a holistic approach to the realization of crisis management framework.

**beAWARE** takes into account updated information from the field and processed data in order to provide the best options and guidelines to the PSAP center to take not only fast but also efficient decisions.

beaware integrates a broad range of technologies. Information flow, raw data, processed data and processing results are routed and combined in different layers of the architecture with the ultimate goal of assisting PSAPs and first responders to fully estimate the emergency level of a situation and act in the best possible way.

**beAWARE** takes emergency services response even further by developing a framework that will organize and manage more efficiently the crisis.

## .EXPECTED RESULTS

**Develop** new enhanced decision support and early warding services based on aggregated analysis of multimodal data and previous crisis management records. **Establish** shorter reaction time and higher efficiency of reactions. **Provide** improved coordination of emergency reactions in the field, including the use of adapted technologies. **Contribute** to the European Policy regarding disaster risks and crises management.

