



ORCHESTRA

*Open Architecture and Spatial Data
Infrastructure for Risk Management*

Risk Management activities involve a range of different organisations at various administrative levels with their own systems and services. The sharing of relevant information that is required when dealing with cross-border risks is often too limited, preventing a truly efficient handling of the problems.

Even if data is exchanged between different actors, the formats and systems used are so different that they hamper proper data analysis and resource management, both being critical elements of Risk Management.

**More information:**

<http://www.eu-orchestra.org>

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Information Society



European Commission

Objectives

Recent events have highlighted the need to be able to consolidate information from disparate systems to support citizen protection and security, disaster management, criminal justice, and other missions, crossing pan-European agency boundaries and extending into national, regional and local government areas.

One of the most urgent and important challenges governments are facing is to get these systems to interoperate and share information.

ORCHESTRA is responding to this challenge. The overall goal of **ORCHESTRA** is to design and implement an open service oriented software architecture that will improve the interoperability among actors involved in Multi-Risk Management.

Some of the results of **ORCHESTRA** will be used as input to the INSPIRE and GMES initiatives.

- Develop services that are useful for different thematic risk management applications (e.g. forest fires or floods, man-made risks);
- Validate the **ORCHESTRA** results in a scenario that involves different risks, both natural and man-made, in a cross-border situation;
- Provide software standards for risk management applications, and information about these standards in the form of a book. In particular, the *de facto* standard of OGC and the *de jure* standards of ISO and CEN are envisaged to be influenced.

ORCHESTRA will not only deliver technical results but will also aim to bring together and consolidate the risk management community. It will do this by integrating the results and recommendations of previous and current European and National projects and initiatives, thus harmonising the technical underpinning of Risk Management.

Description of the work

In order to realise this vision, the project will:

- Design an open service-oriented architecture for risk management. Special attention will be paid to an integrated service and data approach including their spatial, temporal and thematic characteristics;
- Develop the software infrastructure for enabling risk management services;

Project Acronym: **ORCHESTRA**
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