

CRISMA



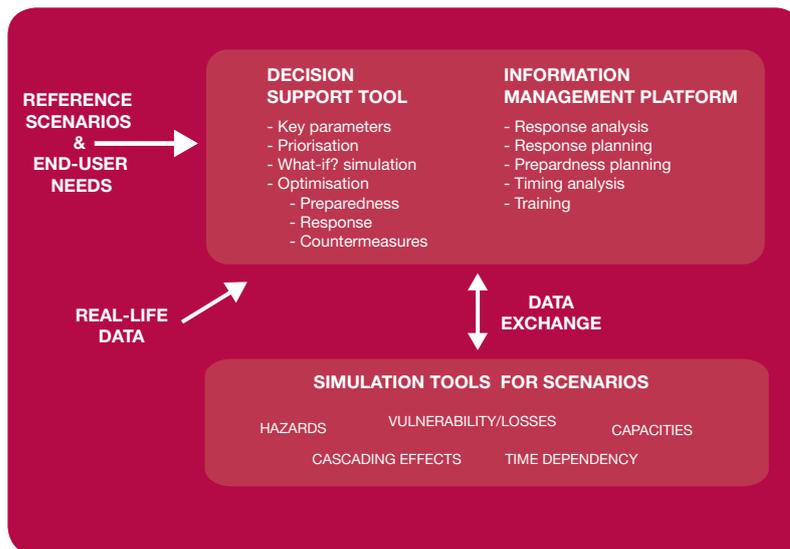
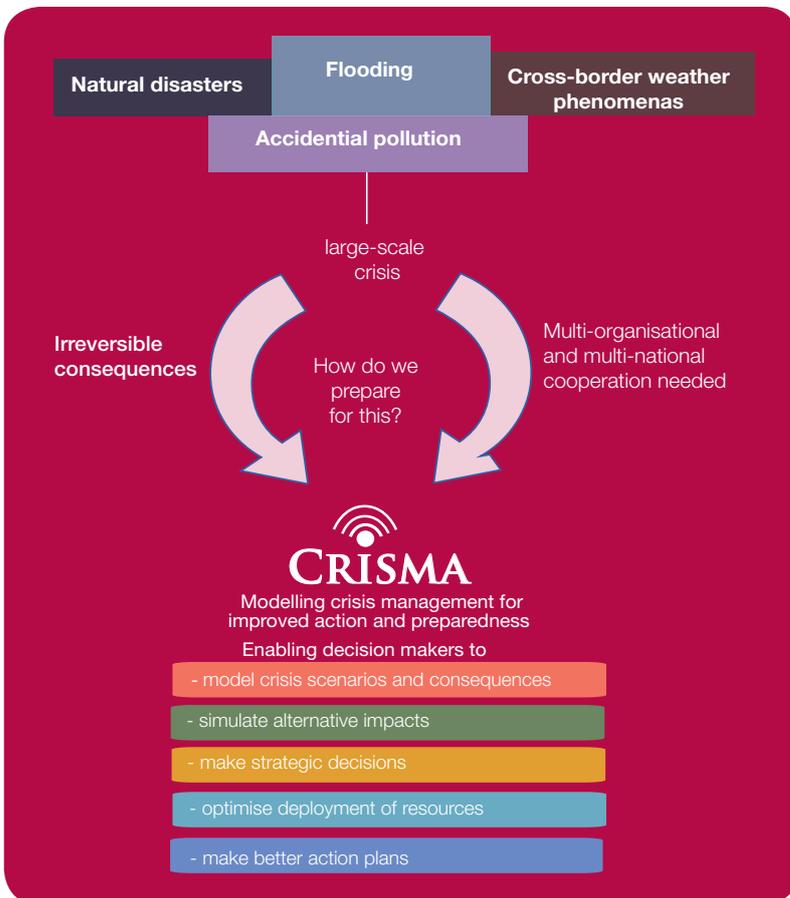
CRISMA

MODELLING CRISIS MANAGEMENT  
FOR IMPROVED ACTION AND  
PREPAREDNESS

<http://www.crismaproject.eu>



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## Contact

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## The CRISMA project

CRISMA integrated project focuses on large scale crisis scenarios with immediate and extended, often irreversible, human, societal, structural and economic, consequences and impacts. Typically, these crisis scenarios cannot be managed alone with regular emergency and first responder resources, but require multi-organisational and multi-national cooperation including humanitarian aid.

The CRISMA project shall develop a simulation-based decision support system, for modelling crisis management, improved action and preparedness. The CRISMA system shall facilitate simulation and modelling of realistic crisis scenarios, possible response actions, and the impact of crisis depending on both the external factors driving the crisis development and the various actions of the crisis management team.

## Objectives

A common set of criteria and performance indicators for crisis management simulation and optimisation provided by the CRISMA modelling system shall enable decision makers and crisis managers to:

- (1) model possible multi-sectoral crisis scenarios and assess the consequences of an incident,
- (2) simulate possible impacts resulting from alternative actions,
- (3) support strategic decisions on capabilities, related investments, reserves and inventories,
- (4) optimise the deployment of resources dedicated to crisis response in-line with the evolution of a crisis, and
- (5) to improve action plans for the preparedness and response phases of the crisis management.

CRISMA shall predict on integrating the existing models and tools to foresee the evolution and consequences of specific hazards and the planning of the response. CRISMA shall cover the evolution of large-scale incidents by integrating existing models in this area.

CRISMA shall focus on

- Natural disasters with irreversible damages and related vulnerability models for buildings, transport systems and social disruption;
- Flooding and its coastal submersion and related flood models;
- Accidental pollution with dispersal models of toxic fumes;
- Cross-border accident with meteorological forecasts and models; and
- Vulnerability models for forecasting societal consequences, and short and long term economic impacts.

## Partners:

