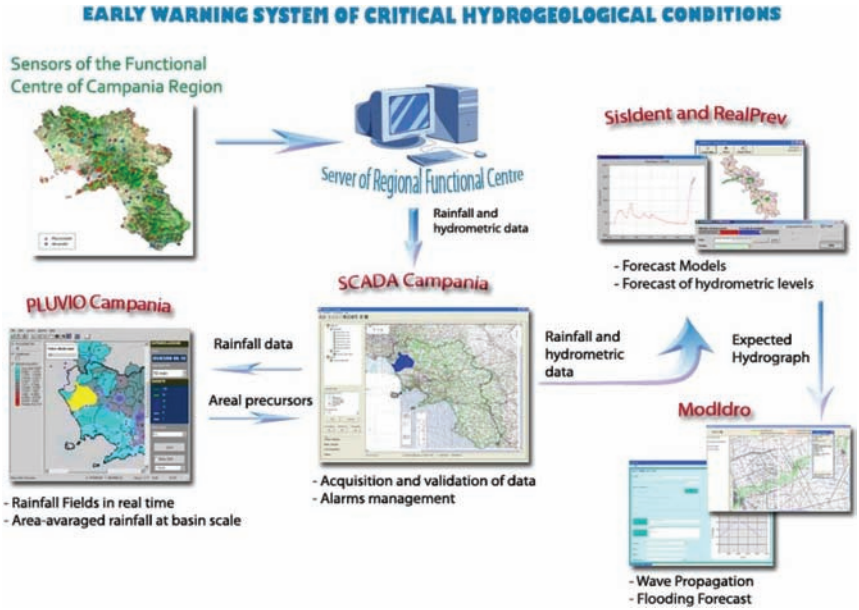
3. Implementation of an early warning system of critical hydrogeological conditions.



Outline of the early warning system implemented at the Functional Centre of regional Civil Protection: rainfall and hydrometric data are acquired in real time by the sensors network managed by the regional Civil Protection. These data are validated by a SCADA platform and used for the rainfall levels forecast aimed at the management of alarms and the definition of potential flooding areas.

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Protezione Civile
Regione Campania

P.O.R. Campania 2000 ÷ 2006

Measure 1.6 - Documentation and monitoring
Centre for the knowledge, the prevention
and the management of hydrogeological risk

Regione Campania

Action A
Studies and researches on risks and analysis of monitoring systems

amra
■ analysis and monitoring of environmental risk

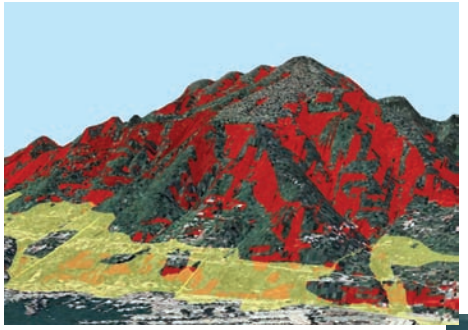
PROJECTS BACKGROUND

The exposure to hydrogeological risk represents a relevant social issue in Campania Region, both for the number of victims and for the damages to buildings, industries and infrastructures. Moreover, potential climate change scenarios can increase this potential risk.
Besides hydrogeological risk, high anthropic pressure is increasing the erosion risk on coastal environment of Campania Region.
In this context, the Civil Protection of Campania Region performed different activities, in collaboration with Amra, aimed at developing tools to face the effects induced by extreme events:

– planning of activities for prevention and management of emergencies induced by hydrogeological and erosion risk;
– development of early warning systems.

ACTIVITIES

1. Analysis of hazard, damage and risk scenarios of floods and landslides; implementation of prototype emergency plans for some Municipalities of Campania Region.



Example of map representing landslides triggering (red) and invasion (yellow) susceptibility.

Example of map representing elements at risk in landslides susceptibility areas

Studies and researches on risks and analysis of monitoring systems

Example of map representing flooding areas.

Example of map representing element at risk in flooding areas.

2. Definition of expected levels of risk induced by marine factors and creation of an erosion risk map for the coast of Campania Region.

Example of map representing the erosion risk.