RASOR

RAPID ANALYSIS AND SPATIALISATION OF RISK

Copernicus
The European Earth Observation Programme

This project has received funding from the European Union's Seventh Framework Program for research, technological development and demonstration under grant agreement no. **606888**

CASE STUDIES

ROTTERDAM
NORTHERN ITALY
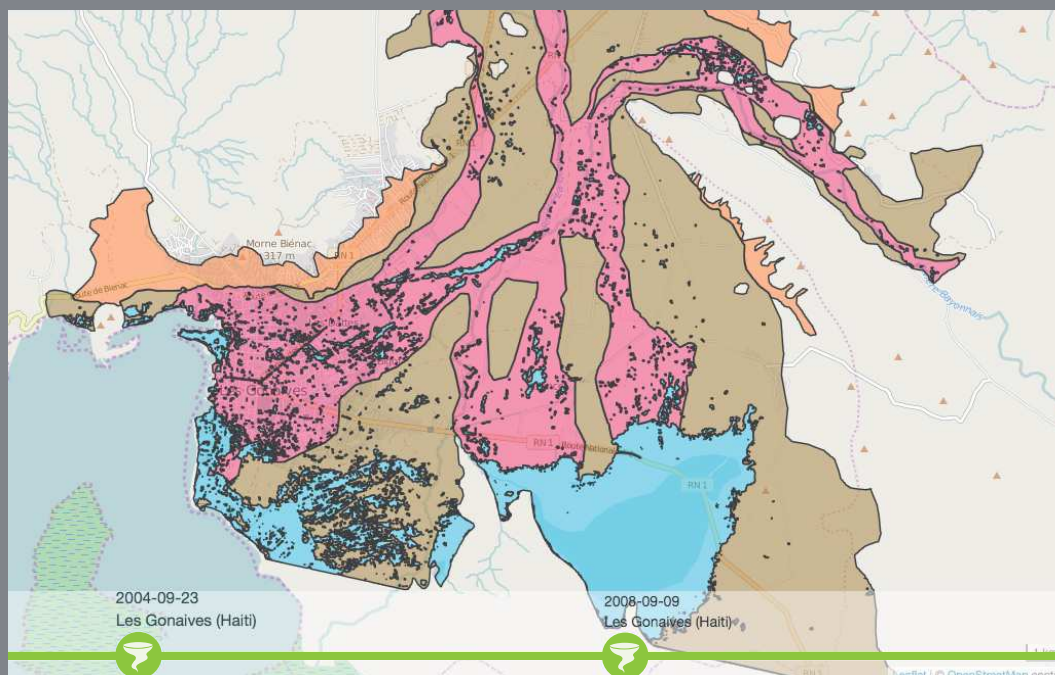HAITI
WEST JAVA
SANTORINI

RASOR PLATFORM

⚠ HAZARD

The RASOR platform has embedded models for hazard production for floods, tsunami, storm surges, earthquakes, hurricanes with easy-to-use interface that enables the user to change the fundamental inputs and parameters and produce a variety of "what-if" scenarios.

The Platform accepts also pre-computed hazard layers that can be easily uploaded to through the platform on the RASOR Catalog. Hazard layers can be also derived from EO data starting as an example from flood delineation maps.

EXPOSURE

The RASOR Platform manages a wide typology of exposure layers that can describe buildings, facilities, lifelines, agricultural and environmental sites as well as population distribution at different special scale from object level to LU/LC type of information.

A standard taxonomy based on an extension of the one proposed by the Global Earthquake Model is used. The platform assists the assets characterization. They are automatically mapped to the several libraries of vulnerability and fragility curves available in the platform when an impact computation is required.
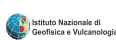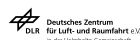
2004-09-23 Les Gonaives (Haiti)

2008-09-09 Les Gonaives (Haiti)

Leaflet | © OpenStreetMap contributors

◰ IMPACTS

The RASOR Platform can compute several types of impact depending on how well the exposure characterization is: Direct, Human, Social, Economic, Environmental, Functional impact. The Hazard, Exposure and Vulnerability layers produced or stored in the platform can be combined to produce impact indicators organized per type and target.

A Report can be easily created to summarize the impact results in the report area of the platform.

📅 HISTORICAL EVENTS

The RASOR Platform enables analysis of historical events. A timeline of the available historical events that can be consulted is present in the platform that adjusts to the spatial domain explored. The platform allows the storage of observed or simulated data related to a specific event, that are presented in a organized way by the platform by clicking on the events timeline.

An example of Satellite based delineation map on Gonaives is shown here.

www.rasor-project.eu

Please ask for an access to the RASOR platform at: **http://www.rasor-project.eu/rasor-platform/**
and become part of the RASOR Community of Practice

PARTNERS

cima
AthenaGlobal
ACROTEC
sertit
Deltares Enabling Delta Life
EUCENTRE European Centre for Training and Research in Earthquake Engineering
Deutsches Zentrum für Luft- und Raumfahrt e.V. in der Helmholtz-Gemeinschaft DLR
Istituto Nazionale di Geofisica e Vulcanologia
ALTAMIRA INFORMATION

FOLLOW US