SAVEMEDCOASTS

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Cyprus

Regional Union of Ionian islands
Greece

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European Union
Humanitarian Aid
and Civil Protection

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SAVEMEDCOASTS

sea level rise scenarios along the **mediterranean coasts**

Istituto Nazionale di Geofisica e Vulcanologia

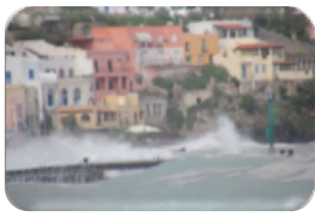
THE PROJECT

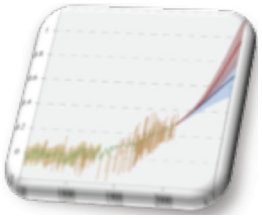
SAVEMEDCOASTS, funded by the Directorate General for Humanitarian Aid and Civil Protection (ECHO), aims to realize multi-temporal and multi-hazard risk scenarios at the local level (Greece, Italy and Cyprus) and for the Mediterranean, induced by sea level rise and climate change.

SCIENTIFIC BACKGROUND

Recent studies estimate that global sea level may rise even more than 1 m in 2100. This rise will cause major impacts on the coasts, particularly those subsiding.

With these scenarios, the effects of storms, floods, coastal erosion and tsunamis will be amplified with consequences on coastal infrastructures, buildings, safety of the population, economy and cultural heritage. These impacts will therefore result in a socio-economic loss to be faced in the next years.

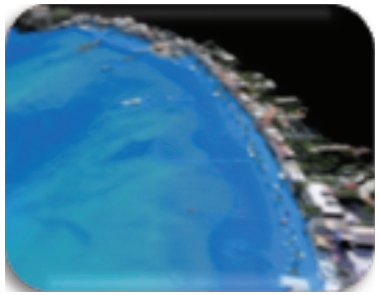




THE METHODOLOGY

The project plans to use advanced methods for the analysis of existing climate, hydrographic, bathymetric, topographic, volcanological and seismological data sets to identify those coasts of the Mediterranean Sea characterized by high economic and environmental values, prone to being flooded by the sea in next years. The evaluation of the effects of the sea level rise is through the creation of multi-temporal scenarios that simulate the flooding extension and position of the coastline up to the year 2100. Results are based on digital models of high-resolution Digital Terrain Models, rates of land subsidence and sea level rise estimates provided by the IPCC and other specific researches.

Detailed Scenarios are planned in the areas of Cultural Heritage of Lipari and Monterosso, in Italy and the island of Lefkada, Greece, also through the use of UAV to achieve very high resolution aerial photogrammetric data.



www.savemedcoasts.eu

ONGOING ACTIVITIES

We are now involving several stakeholders in Italy, Greece and Cyprus, with the aim of highlighting needs and gaps to transfer information to the society and to policymakers in order to implement a conscious policy (evidence-based) on coastal managment.

Interviews, Small Group Meeting and filling out questionnaires specially made fillable online at www.savemedcoasts.eu, allow us to understand the perception of the population on sea level rise effects.