PROJECT IDENTIFICATION

Acronym:	CapRadNet
Title:	CAPitalization and exploitation of RADar-ba-
	sed infrastructure and decision support sy-
	stem for environmental hazard management
	NETwork in the Adriatic and Ionian region
Lead Partner:	CETEMPS
Project Code:	1° TCE/0007/
Total budget:	1.180.000,00 €
Start Date:	April 2016
Duration:	9 months
Contact:	Prof. Frank S. Marzano
	fmarzano@aquila.infn.it
Website: http://cetemps.aquila.infn.it/capradnet/	

Hazard mitigation and management in Adriatic and Ionian maritime, coastal, airport and metropolitan environments:

the CapRadNet



The project is co-funded by the European Union, Instrument for Pre-Accession Assistance.

http://www.adriaticipacbc.org/

PARTNERS

FUNDING

CETEMPS University of L'Aquila (Italy) Branch of CIMA Research Found. (Albania) Abruzzo Region, Civil Protection (Italy) Dubrovnik Neretva County (Croatia) Experimental Zooprophylactic Institute of Abruzzo (Italy) Geological Survey of Slovenia (Slovenia) Office of the Prime Minister Government (Bosnia-Herzegovina)

ASSOCIATE PARTNERS

Marche Region, Civil Protection (Italy) National Research Council of Italy (Italy) Institute of Geosciences IGEWE (Albania) Ministry of Interior, Civil Emergence (Albania)







14/11/2016 10:05 UTC III 20 15/11/2016 10: Tuesday, November 15, 2016, 11:08:57 AM GMT

CapRadNet

CAPitalization and exploitation of RADar-based infrastructure and decision support system for environmental hazard management NETwork in the Adriatic and Ionian region

Regione ABRUZZO



MOTIVATION

The **CapRadNet** project aims at capitalizing and exploiting the achievements of the other projects fully accomplished under IPA Programme, such as **ADRIARadNet**, **CAPS2** and **RoofOfRock** covering some issues in maritime, coastal, airport and metropolitan environments whose common denominator is the hydro-meteorological hazard.



For that purpose several activities have been carried out: feasibility studies, a new radar installation, a pilot action on a building, realization of a landslide prediction system and a susceptibility map as well as an updated web platform including oceanographic data. Moreover, a wider dissemination of the activities and results has been conducted also through training schools, stakeholders workshop and public events organized.

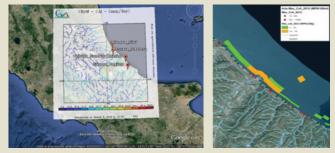
MYDEWETRA WEB PORTAL

Based on CapRadNet requirements, the MyDewetra web portal has been implemented for hydro-meteorological and geological data sharing, consultation and building realtime risk scenarios. MyDewetra web portal takes advantage from the most up-to-date technologies in order to optimize the response time and the end-user experience. As part of MyDewetra, the Seawetra module aims to simplify access to oceanographic data, allowing end-users with different background to monitor and control the marine environment.



FEASIBILITY STUDIES

Five feasibility studies have been carried out aimed at: (1) Strengthening the surveillance of the coastline and sea pollution through the analysis of the mixing of river water and sea water and their impact on marine biodiversity; (2) Enhance the surveillance of the coastal areas against flood taking into account the "barrier" effect of the sea in the vicinity of rivers' outlets; (3) Refine the meteorological prediction over sea by using a wave model coupled with WRFAdria model; (4) Improving the management of severe weather events on the airport flight operations by utilizing WRFAdria model and weather radar; (5) Understanding building resilience exposed to atmospheric hazards.



LANDSLIDE FORECAST SYSTEM

Landslides are the most intense and serious manifestations of the degradation of slopes and are the main causes of geological hazard when they involving towns and infrastructures. To face them, a landslide susceptibility map for Croatian Adriatic area has been carried out together with a landslide forecast system for the most exposed territories. The latter is able to inform responsible authorities and warn inhabitants of an increased landslide hazard as a consequence of heavy precipitation that would exceed the threshold landslide triggering values.

