### **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/017/
Total budget:	1.180.000,00 €
Start Date:	April 2016
Duration:	8 months
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Hazard mitigation and management in Adriatic and Ionian maritime, coastal, airport and metropolitan environments:

# the CapRadNet

## FUNDING



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

http://www.adriaticipacbc.org/

#### **PARTNERS**

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)







CapRadNet

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

Regione ABRUZZO



# BACKGROUND

**CapRadNet** project is co-funded by the IPA Adriatic CBC Programme 2007-2013 and brings together 7 partners and 4 associates from Italy, Croatia, Slovenia, Albania and Bosnia-Herzegovina. It aims at capitalizing and exploiting the main achievements of the **ADRIARadNet** project (already financed under IPA Programme) contributing to the implementation of some actions of the EU Strategy for the Adriatic-Ionian Region (EUSAIR) Pillars. CapRad-Net takes into account also the experiences and some results of other financed IPA projects, such as **CAPS2** (http://www.caps2.eu/) and **RoofOfRock** (http://www. roofofrock.eu/) covering some issues whose common denominator is the hydrometeorological hazard.



## **MAIN GOAL**

The **ADRIARadNet** project (http://cetemps.aquila.infn. it/adriaradnet/) has successfully designed an innovative Decision Support System (DSS) to enhance the response capacity to extreme weather events affecting the safety of people in the Adriatic area.

**CapRadNet** project aims at extending the DSS capability to face hazard mitigation taking into account maritime, coastal, airport and metropolitan environments.



# **SPECIFIC OBJECTIVES**

- 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.
- ✓ Enhance the DSS performance in the surveillance of the coastal areas against flood by using a wave model and taking into account the "barrier" effect of the sea in the vicinity of rivers' outlets.
- ✓ Improving the management of severe weather events on the **airport flight operations** by utilizing WRFAdria model and weather radar; for this purpose a new radar system will be installed in Pescara airport area.
- ✓ Developing a **landslide susceptibility map** for the Adriatic coast and an "early warning system" for the most exposed territory in case of heavy precipitation by using WRFAdria model as input data.
- ✓ Understanding building resilience exposed to atmospheric hazards by means of a feasibility study and an application on the Municipality of Mostar.
- ✓ Enhancing the **DewetraNet platform**, by integrating oceanographic data for building real-time risk scenarios in the Adriatic and Ionian sea.
- ✓ Wider dissemination of the activities and results achieved by involving the key stakeholders and broad public.

