

Adriaradnet: “The final meeting and project achievements”

The ADRIARadNet Final Meeting was held on 23-24 July 2015 in L’Aquila at the Meeting Room of the Department of Physical and Chemical Sciences. The final meeting was preceded by a dissemination conference to explain the project results to local and national authority. It was held in the Auditorium del Parco, located at Parco del Castello in L’Aquila downtown. The latter session has set with the dual aim of promoting scientific content and technical results of the project to a wider audience in order to stimulate critical thinking and promote the importance of project synergies between universities, government institutions and companies in the sector.

Extreme rains, hailstorms and floods are phenomena that, over the last few years, have characterized not only the Italian territory, but also the whole Balkan region. Considering this scenario, it has emerged the necessity to realize a sort of sentinels against floods, which could observe all these extreme hydro-meteorological events and try to protect the public community, often involved even at its own risk, by exploiting the state-of-the-art of European science, technology and governance.

The ADRIARadNET project was born from these needs.

This consortium has proposed the ADRIARadNET project which has 3 components as main keywords. The first is “ADRIA” which reminds the Adriatic geographic area where the project has been developed and has found its natural exploitation by linking central Italy to Dalmatia and Albania. The second keyword is “Rad” which stands for “Radar” and underlines the fact that the project merges the Adriatic interest with a prompt to the technological innovation by installing X-band meteorological radars of last generation. Finally, the third component is “Net” which anticipates the network concept and the realization of a decision-support platform which is able to collect and integrate project data and products in order to be exploited not only by regional civil protection agencies, but also by each European citizen who may access to all information about these extreme phenomena.

Today, after three years of intense work and cooperation, we have proudly reached these objectives. In particular, the ADRIARadNet consortium has at disposal four meteorological radar systems at X band, two of them with polarimetric capabilities and for the first time installed for operational purposes. These radar systems are of outstanding importance to forecast what is going to happen within the next few hours in terms of precipitation, a technique which is called very short-term prediction or simply “nowcasting” and is extremely useful to issue a warning to the population in specific areas due to severe storms. This also implies that the civil protection system is equipped to elaborate this information flow and to provide the alert in a very short time. In this respect we have designed and realized a platform for data processing, called DEWETRANET, able to ingest not only radar data, but also numerical forecasts from hydro-meteorological models and precipitation estimates from satellites. Thus, we are now able to observe extreme events, through the observation we are capable to predict scenarios, and by evaluating the latter we are ready to prevent from hydro-meteorological hazards.

The ADRIARadNet project can envisage a synergetic ecosystem where the inhabitants of the European Union as well as the regional governments, the technological managers and the research/development institutions can cooperate, consciously looking not only at the present but also at the future. In this way individual citizens can feel themselves ever safer being monitored by sentinels against floods. In this respect, the ADRIARadNet project can represent a successfully story of the IPA Adriatic CBC program, coherently interpreting the progressive and peaceful spirit of the European Union.



Frank Marzano
(Director of CETEMPS)



Final Meeting Dissemination conference



Paola Di Salvatore
(IPA Adriatic Managing Authority)



Mario Mazzocca
(Regione Abruzzo)



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

IPA Adriatic 2007-2013, the cross-border Cooperation Programme is the result of the joint programming performed by the concerned participating countries and it is part of the process of cooperation in the Adriatic.

Several factors make this cooperation important from a political and economic point of view: factors related to the political stability of the area and factors related to geographical and cultural proximity which make possible the intensification of multilateral relations between the Adriatic coastal regions to support local processes of harmonious growth sustainable development and unity among peoples. ■

www.adriaticipacbc.org

ADRIARadNet

It is a project conceived and coordinated by CETEMPS and Abruzzo region and cofunded by the European Union, Instrument for PreAccession Assistance

PARTNER

CETEMPS University of L'Aquila (Italy)
 Civil Protection of Abruzzo Region (Italy)
 Civil Protection of Marche Region (Italy)
 Branch of CIMA Research Found. (Albania)
 Institute of Geosciences IGEWE (Albania)
 Ministry of Interior, Civil Emergence (Albania)
 Dubrovnik Neretva County (Croatia)
 Beep Innovation Srl (Italy)

DETAILS

Acronym: ADRIARadNet
 Code: 2 ord./0231
 Funds: Priority 3 Measure 3.3
 Start: 1 October 2012
 Duration: 36 months
 Partners: 8
 Lead Partner: CETEMPS
 Budget: 2.668.183,00 €
 Contact: Prof. Frank S. Marzano (fsmarzano@ieee.org)
 Web: <http://cetemps.aquila.infn.it/adriaradnet/>

