



HYDROCARE - Hydrological cycle of the CADSES regions



Introduction

HYDROCARE – Hydrological cycle of the CADSES regions - is a spatial development project on the water resource and the hydro-meteorological events and originates from the acknowledgment of the strategic relevance of water for the linked issues of economic development and environmental protection. **HYDROCARE** has been approved in the 3rd call of the **INTERREG III B – CADSES** neighbourhood programme of the **EU**. CADSES stands for Central, Adriatic, Danubian and South-Eastern European Space (<http://www.cadses.net>). The project, which has started at the beginning of 2006, runs throughout the end of 2007, involves **11 institutions** from **6 countries (Italy, Germany, Greece, Poland, Romania, and Slovakia)**, and features a total budget of about 2.5 M€. The project is coordinated by an **Italian Lead Partner, the National Consortium of Universities for the Physics of Atmospheres and Hydrospheres – CINFAI**, which associates about 20 Universities all around Italy (<http://www.cinfai.it>). The official web-site of **HYDROCARE** is <http://www.hydrocare-cadses.net>.

Summary

HYDROCARE wishes to develop effective transnational tools for the rational exploitation of the water resource and for the management of the extreme hydro-meteorological events, with the purpose of preserving and enhancing economical

and environmental welfare. Such managing tools will be illustrated also in practical terms by performing some case studies. Fundamental objectives of the project are the reconstruction of the large and basin-scale hydrological cycle in the CADSES area, to be obtained by suitably merging observations (both local and remote) and models, and the development of a high level ICT network within a transnational frame, with the purpose of collecting and exchanging hydro-meteorological data. Provision of relevant information to end-users such as farmers, entrepreneurs, public administrations and agencies, is foreseen, with the release of a monthly updated bulletin for extreme events in the CADSES regions.

HYDROCARE entails a set of quite different and complementary partners covering a large portion of the whole CADSES region. Local authorities, technical services, and scientific institutions participate with their diverse expertises and experiences. The proposed integrated approach, based on the coupled analysis of both the water resource and hydro-meteorological events, derives from the appraisal of the suitability of transdisciplinary approaches to complex problems. Transnational collaboration is foreseen between bodies based in both old and new EU member states as well as in non-member states.

Objectives

- Development of an integrated view of the water resource management, bridging directly the evaluation of the quality and quantity of the water resources of the CADSES area with soundly based tools able to reconstruct and model the large and basin-scale hydrological cycle.
- Development of effective, internationally shared tools for public and private institutions for the correct management of the water resources as well as for planning future development of the CADSES area, with particular attention to dynamics of the costs of potable water.
- Development of a set of standards at European level for the collection, evaluation, storage and interpretation of the hydro-meteorological data coming from different sources, with particular regard to extreme events of great potential impact on the welfare of the population and on the state of the environment.

Essential Information

Project Title

Hydrological cycle of the CADSES regions - HYDROCARE

Start/End date

01/01/2006-31/12/2007

European Union Programme

INTERREG III B – CADSES – 3rd call

Total Budget

2.466.200,00 € (European Regional Development Fund Cofinancing: 1.441.625,00 €)

Lead Partner

National Consortium of Universities for the Physics of Atmospheres and Hydrospheres - Italy

Project Partners

1. National Consortium of Universities for the Physics of the Atmospheres and of the Hydrospheres - Italy
2. National Agency for the Environmental Protection and Technical Services - Department of Internal and Marine Waters Protection - Italy
3. Marche Region - Public Works Design Service - Italy
4. University of Camerino - Department of Earth Sciences - Italy
5. Autonomous Province of Trento - Service for Hydraulic Works - Italy
6. National Technical University of Athens - Department of Water Resources, School of Civil Engineering - Greece
7. Municipality of Kefalonia - Greece
8. Potsdam Institute for Climate Impact Research - Germany
9. Slovak Hydrometeorological Institute – Slovakia
10. Institute of Meteorology and Water Management - Branch of Wrocław - Poland
11. National Institute of Hydrology and Water Management -Romania

Contacts

Home Page of HYDROCARE

<http://www.hydrocare-cadses.net>

Lead Partner

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