

PRODIM is a transnational cooperation project, which aims at formulating a methodological framework to confront drought and water shortage based on proactive planning. This is materialized through the following steps:

- a) identification of areas under high water scarcity risk
- b) building of a knowledge based system for estimation of anticipated impacts of water shortage
- c) preparation of both a strategic water shortage preparedness plan and an emergency plan.

Case studies from Greece, Italy, Cyprus and Malta have been examined, in order to validate and customize the proposed plans.

### Partners

- |    |   |                   |
|----|---|-------------------|
| 1  | Centre for the Assessment of Natural Hazards, N.T.U.A. (Lead Partner) | Athens, GREECE    |
| 2  | Prefecture of Cyclades  | Syros, GREECE     |
| 3  | Eastern Crete Develop,emt Org.  | Crete, GREECE     |
| 4  | University of Thessaly  | Volos, GREECE     |
| 5  | Cyprus Meteorological Service   | Larnaca, CYPRUS   |
| 6  | Malta Resources Authority   | Marsa, MALTA      |
| 7  | Prefecture of Laconia   | Laconia, GREECE   |
| 8  | Catania University, Dep of Civil and Environmental Engineering        | Catania, ITALY    |
| 9  | University of Calabria, Dep. of Soil Defence                          | Calabria, ITALY   |
| 10 | Regional Agency for Environment Protection of Basilicata, ARPAB       | Basilicata, ITALY |
| 11 | Presidency of the Sicilian Region, Hydrographic Regional Office       | Palermo, ITALY    |

### Scientific Committee

- |                |        |
|----------------|--------|
| G. Tsakiris    | Greece |
| G. Rossi       | Italy  |
| A. Cancelliere | Italy  |
| S. Michaelides | Cyprus |
| J. Mangion     | Malta  |
| N. Dalezios    | Greece |
| S. Paritsis    | Greece |
| G. Mendicino   | Italy  |
| T. Vega        | Italy  |

### Organizing Committee

- |               |
|---------------|
| G. Tsakiris   |
| D. Rigopoulos |
| M. Antaki     |
| H. Vangelis   |
| D. Tigkas     |
| D. Pangalou   |
| C. Mitsiani   |

National Technical University of Athens  
School of Rural & Surveying Engineering

### Centre for the Assessment of Natural Hazards & Proactive Planning

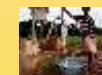
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### CENTRE FOR THE ASSESSMENT OF NATURAL HAZARDS & PROACTIVE PLANNING

## INTERNATIONAL SYMPOSIUM Water Shortage Management



Friday, 20 June 2008

ATExcelixis Conference Centre  
El. Venizelou 154 & Romylias  
Kastri-N.Erythraia, Athens

[www.ntua.gr/hazard](http://www.ntua.gr/hazard)

## Scope of the Symposium

The Symposium aims at disseminating the results of the European Project '*Proactive management of water systems to face drought and water scarcity in islands and coastal areas of the Mediterranean*' convened in the framework of INTERREG IIIB / ARCHIMED, to a wider audience including decision makers, stakeholders and the public.

The main conclusions derived address the issues:

- drought severity assessment
- impacts to water resources availability and demand
- formulation of effective mechanisms to face drought and water shortage
- formulation of preparedness and emergency plans
- stakeholders and public participation in decision making

The **Centre for the Assessment of Natural Hazards and Proactive Planning (CANAH)** was established in 2004 within the School of Rural and Surveying Engineering of the National Technical University of Athens.

The objective of the Centre is multiple:

- To conduct advanced research in the area of natural or man induced hazards
- To assist the State on similar topics by promoting proactive planning
- To increase the awareness of the public on natural risks and their management

The Centre aims at establishing a new forum where advanced scientific knowledge, fertile discussions and new productive ideas will be exchanged aiming at developing innovative methodologies and policies for combating natural hazards.

## Friday, 20 June 2008 (morning session)

8 <sup>:30</sup> - 9 <sup>:00</sup>	Registration of the Participants
9 <sup>:00</sup> - 9 <sup>:20</sup>	Welcome speeches
9 <sup>:20</sup> - 9 <sup>:40</sup>	Drought and Water Shortage: An Overview <i>G. Tsakiris</i>
9 <sup>:20</sup> - 9 <sup>:40</sup>	Drought Identification from Earth and Space <i>N. Dalezios</i>
10 <sup>:00</sup> - 10 <sup>:20</sup>	Strategic Water Shortage Preparedness Plan for Complex Water Supply Systems <i>A. Cancelliere</i>
10 <sup>:20</sup> - 10 <sup>:40</sup>	Regional Drought Assessment based on SPI and RDI indices <i>S. Michaelides, S. Pashiardis</i>
10 <sup>:40</sup> - 11 <sup>:00</sup>	<i>Coffee break</i>
11 <sup>:00</sup> - 11 <sup>:20</sup>	Water Resources Management in Agriculture Under Drought & Water Shortage Conditions <i>A. Senatore</i>
11 <sup>:20</sup> - 11 <sup>:40</sup>	Drought and Streamflow <i>I. Nalbantis</i>
11 <sup>:40</sup> - 12 <sup>:00</sup>	Drought & Water Shortage Management in Malta <i>E. Sapiano</i>
12 <sup>:00</sup> - 12 <sup>:20</sup>	Time Series Analysis of Climatic and Vegetation Data <i>M.T. Noto</i>
12 <sup>:20</sup> - 12 <sup>:40</sup>	Management of Coastal Aquifers under Drought Conditions <i>G. Kourakos, V. Christelis, G. Kopsiaftis, A. Mantoglou</i>
12 <sup>:40</sup> - 13 <sup>:00</sup>	Brackish water use <i>D. Alexakis</i>
13 <sup>:00</sup> - 13 <sup>:20</sup>	Rain Water Harvesting <i>S. Giakoumakis</i>
13 <sup>:30</sup> - 15 <sup>:00</sup>	<i>Lunch</i>

## Friday, 20 June 2008 (afternoon session)

15 <sup>:00</sup> - 15 <sup>:15</sup>	Expert System for facing water shortage <i>D. Argialas, A. Tzotsos</i>
15 <sup>:15</sup> - 15 <sup>:30</sup>	Drought Identification in Greek regions <i>D. Tigkas</i>
15 <sup>:30</sup> - 15 <sup>:45</sup>	Rules and Constraints for desining a Preparedness Plan <i>H. Vangelis</i>
15 <sup>:45</sup> - 16 <sup>:00</sup>	Public Participation and Institutional Capacity <i>D. Pangalou</i>
16 <sup>:00</sup> - 16 <sup>:30</sup>	<i>Coffee break</i>
16 <sup>:30</sup> - 18 <sup>:00</sup>	Applications: <ul style="list-style-type: none"><li>▪ Naxos</li><li>▪ Crete</li><li>▪ Sicily</li><li>▪ Cyprus</li><li>▪ Malta</li><li>▪ Lakonia</li><li>▪ Basilicata</li><li>▪ Thessaly</li></ul>
18 <sup>:00</sup> - 19 <sup>:00</sup>	<i>Discussion and Conclusions</i>
19 <sup>:00</sup>	<i>End of the Symposium</i>