

Friday, 26th October 2007

- 09:00 Registration
Session 1: Introduction
 09:30 Welcoming addresses, *Mr. Christodoulos Artemis, Director of Water Development Department, MANR&E*
 10:00 The INECO Project - Principles and Approach, *Prof. Dionysis Assimacopoulos, National Technical University of Athens, Greece, INECO Project Coordinator*
 10:30 Coffee Break
Session 2: The Focal Problem of Groundwater Overexploitation and Depletion
 11:00 Groundwater overexploitation in Cyprus: Effects and underlying causes, *Dr. Andreas Christodoulides, Water Development Department, MANR&E*
 11:30 Discussion groups: Identifying causes and effects of groundwater overexploitation, *All participants*
 12:30 Key note speech: Constructive engagement and public participation in the WFD context, *Ms. Eleni Manoli, National Technical University of Athens, Greece*
 13:00 Reporting of group discussion outcomes and plenary discussion, *Workshop moderators, All participants*
 13:45 Lunch - End of Day 1

Saturday, 27th October 2007

- Session 3: Discussion on objectives and alternatives**
 09:30 Defining objectives and identifying alternatives - Aims and expected outcome, *Dr. Ioannis Glekas*
 10:00 Key note speech: Economic and institutional instruments for enhancing sustainable water management in the context of the WFD implementation, *Prof. Antonio Massarutto, Istituto di Economia e Politica dell' Energia e dell' Ambiente, Universita Commerciale Luigi Bocconi*
 10:30 Coffee Break
 11:00 Discussion groups on objectives for addressing groundwater overexploitation, *All participants*
 11:30 The EU policy for groundwater protection and the current situation in Cyprus, *Mr. Charis Omorphos, Water Development Department, MANR&E*
 12:00 Reporting of group discussion outcomes and plenary discussion, *Workshop moderators, All participants*
 13:00 Wrap-up and conclusion, *Prof. Dionysis Assimacopoulos*
 13:15 Lunch - End of Workshop

Workshop Moderators:

Prof. E. Vlachos, Colorado State University, USA
Prof. B. Barraque, Laboratoire Techniques Territoires et Sociétés, Centre national de la recherche scientifique (CNRS-LATTS), France
Prof. D. Assimacopoulos, National Technical University of Athens, Greece
Dr. I. Glekas, Aeoliki Ltd., Cyprus

The INECO Consortium



School of Chemical Engineering, National Technical University of Athens, Greece
 Prof. Dionysis Assimacopoulos - *e-mail*: assim@chemeng.ntua.gr



French Water Information Center, International Office for Water, France
 Dr. Jean-Marc Berland - *e-mail*: jm.berland@oieau.fr



International Network of Basin Organisations
 Mr. Jean-Francois Donzier - *e-mail*: jf.donzier@wanadoo.fr



Istituto di Economia e Politica dell' Energia e dell' Ambiente, Università Commerciale Luigi Bocconi, Italy
 Prof. Antonio Massarutto - *e-mail*: antonio.massarutto@uniud.it



Aeoliki Ltd, Cyprus / Dr. Dimitris Glekas - *e-mail*: aioliki@cytanet.com.cy



Water Development Department, Ministry of Agriculture, Natural Resources and the Environment, Cyprus
 Mr. Christodoulos Artemis - *e-mail*: director@wdd.moa.gov.cy



Tunis International Center for Environmental Technologies, Tunisia
 Mr. Ahmed Bouzid - *e-mail*: boc@citnet.nat.tn



Water Management Research Institute, National Water Research Center, Ministry of Water Resources and Irrigation, Egypt
 Dr. Fathy El Gamal - *e-mail*: wmri@link.net



Central Administration for Soil, Water and Environment, Ministry of Agriculture and Land Reclamation, Egypt
 Prof. Samy El Fellaly - *e-mail*: escc@link.com.eg



International Consultants, Egypt
 Prof. Magdy Mohamed Abou Rayan mrayan@usa.com



Conseil et Développement s.a.l., Lebanon
 Mr. Claude Tabbal - *e-mail*: condev@condev-lb.com



Studies and Integration Consulting, Syria
 Mr. Malek Haddad - *e-mail*: info@s-i-consulting.com



Agence de Bassin Hydrographique Constantinois-Seybousse-Mellegue, Algeria
 Mr. Khatim Kherraz - *e-mail*: kherraz@abhscsm.dz



ISKANE Ingénierie, Morocco
 Dr. Abderrahmane Affia - *e-mail*: iskane@casanet.net.ma

Contact for queries and further information

Dr. Ioannis Glekas, Aeoliki Ltd - 41, Themistokli Dervi str., CY-1066, Nicosia, Cyprus
 Tel: +357 22875707 - Fax: +357 22757778 - E-mail: iglekas@aeoliki.com



Institutional and Economic Instruments
 for Sustainable Water Management in the Mediterranean Region
 web site: <http://environ.chemeng.ntua.gr/ineco>

STAKEHOLDER WORKSHOP
 "Building a common vision for managing groundwater resources in Cyprus"

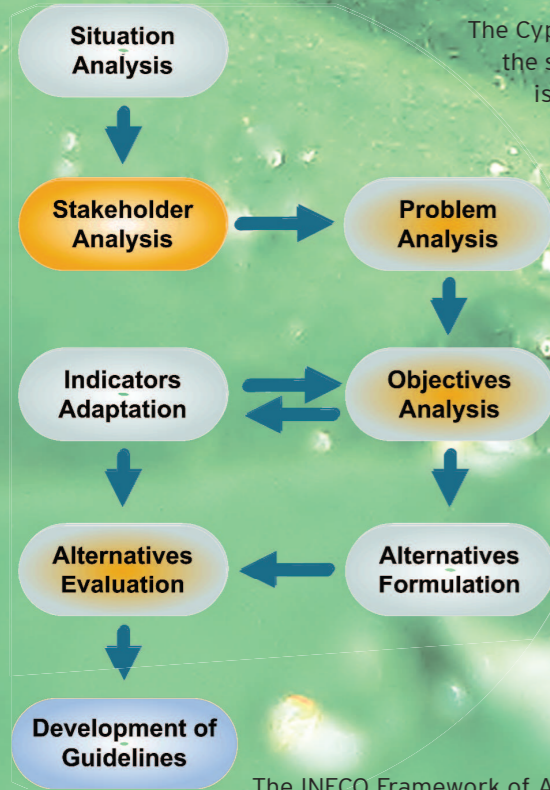
26th-27th October 2007
Coral Beach Hotel, Peyia, Paphos



INECO is a Coordination Action supported by the European Commission through the 6th Framework Programme, and addressing the "Specific Measures in Support of International Cooperation (INCO Programme) - Mediterranean Partner Countries (MPC)" Priority (Contract no: INCO-CT-2006-517673).

THE INECO PROJECT

INECO is a Coordination Action Project supported by the European Commission through the 6th Framework Programme, addressing the "Specific Measures in Support of International Cooperation (INCO Programme) - Mediterranean Partner Countries (MPC)" Priority. The INECO Consortium brings together 14 institutions from 10 Mediterranean Countries (Greece, France, Italy, Cyprus, Tunisia, Egypt, Lebanon, Syria, Algeria and Morocco), including public (6), private (7) and international organisations (1). The goal of INECO is to introduce an interdisciplinary approach to water management building upon the integration of three major aspects: environment, economics and society. INECO will discuss shared problems in the decision-making process and the deficiencies of the present governance structures around the Mediterranean Basin. Research focuses on alternative institutional and economic instruments which can promote equity, economic efficiency and environmental sustainability in the sharing and governing dimensions of water resources management.



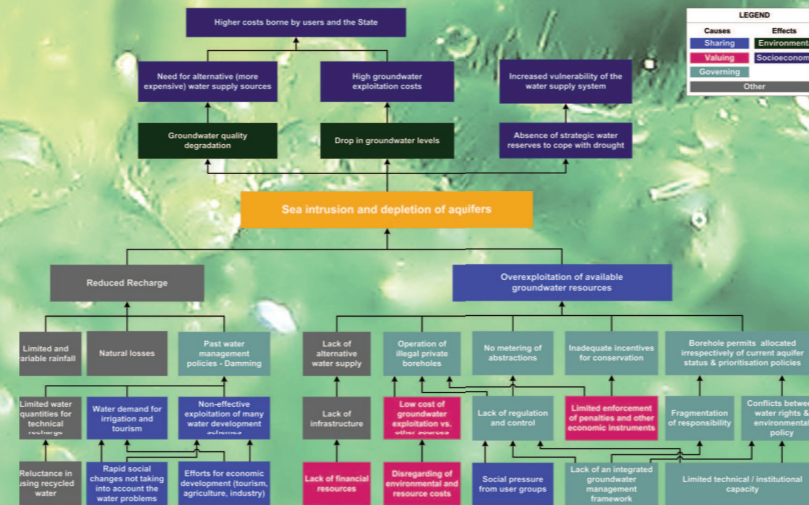
The INECO Framework of Activities

The Cyprus workshop is the fourth of the stakeholder workshops organised by INECO in Egypt, Syria, Lebanon, Cyprus, Tunisia, Algeria and Morocco. The workshops aim to develop a constructively engaged Integrated Water Resources Management process, and lay the foundations for reaching a common understanding on what the real problems are and how these could be addressed in a commonly agreed water resources management situation.

INECO IN CYPRUS - GROUNDWATER OVEREXPLOITATION

In Cyprus, INECO will discuss on the focal water management problem of depletion and sea water intrusion in groundwater. During the past few decades, the heavy groundwater over-pumping, a practice adopted in order to cope with an increasing demand for domestic and irrigation purposes or to mitigate drought effects, has resulted in the depletion of almost all inland aquifers. Seawater intrusion is also a major problem in many coastal aquifers (13 out of 19 groundwater bodies, i.e. 68%, are at risk from over-pumping).

The overexploitation of groundwater resources can be mainly attributed to the lack of coordination in the existing groundwater management framework, which, in turn, leads to ineffective and conflicting decision making processes, social pressures from user groups during the process of borehole permit issuing, and in the non-strict enforcement of penalties and sanctions. The present inequality between agricultural users supplied by public infrastructure and those solely depending on private boreholes encourages further overexploitation and mismanagement of aquifers, especially when an increase in public water supply tariffs is introduced. The current problem is exacerbated by the reduced natural recharge of many riverbed aquifers, due to the construction of large hydraulic schemes and dams, which did not adequately consider downstream impacts. Furthermore, the strong involvement of public authorities in the construction and management of infrastructure impacted on the level of involvement of farmers in the development and management of irrigation schemes, and fostered their adherence to traditional, water-intensive cropping patterns and groundwater extraction.



Causes and effects of aquifer depletion in Cyprus

THE CYPRUS WORKSHOP OBJECTIVES

The workshop aims to strengthen the alliance between the INECO Research Team and Local Stakeholders in Cyprus by:

- Discussing on the focal water management problem experienced in the region;
- Promoting the development of a process where each contributor gains both a better understanding of the problem and insight on how other participants see the problem;
- Initiating the participatory involvement of stakeholders in determining, defining and evaluating alternative institutional and economic instruments towards problem mitigation.

The workshop will serve as a discussion forum on the problems and challenges faced by stakeholders. It will offer the opportunity for participants to share their experiences, knowledge, ideas, preferences, hopes, fears, opinions, and values.

