



# The development of NWIS in Cyprus: EMWIS National Focal Point

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EMWIS Promotion Seminar  
Nicosia, Cyprus  
May 10, 2007

# Presentation Outline

- EMWIS Overview
- NWIS Description
- NWIS in Cyprus
- The Road Ahead

# EMWIS Overview

## Euro-Mediterranean Information System on the Know-how in the Water Sector

- Enables exchange of information, experiences and good practices with other Mediterranean countries
- Facilitates synergies between national institutions
- Improves access to stakeholders
  - « who does what »
- Exploits new information and communication technologies
- Serves as a water portal for each country
- A node of the Euro-Med system



# EMWIS Implementation Problems

- Difference in level between the participating countries
- Lack of coordination between organizations and institutions within the same country
- Difficulties in access to water data
- Differences in Information and Communication Technology

# From EMWIS to NWIS

- Enhancement of National Water Information Systems will improve the overall EMWIS system.
  - Remove all obstacles at the national level that impede the advancement of EMWIS
  - Facilitate and harmonise data and information exchange




# National Focal Points

- EMWIS functions are carried out through an interconnected network of National Focal Points (**NFP**)
  - One NFP for each participating country
- In Cyprus:
  - The Water Development Department of the Ministry of Agriculture, Natural Resources and Environment is the NFP for EMWIS



# NFPs responsibilities

- Implementation and management of the national water information server as an EMWIS node
- Information collection and implementation of the thematic directory
- Agreements with information source managers for access through EMWIS
- Development of common access to these information sources
- Defining a set of technical, financial and organizational recommendations and a roadmap for the improvement or implementation and operation of a NWIS

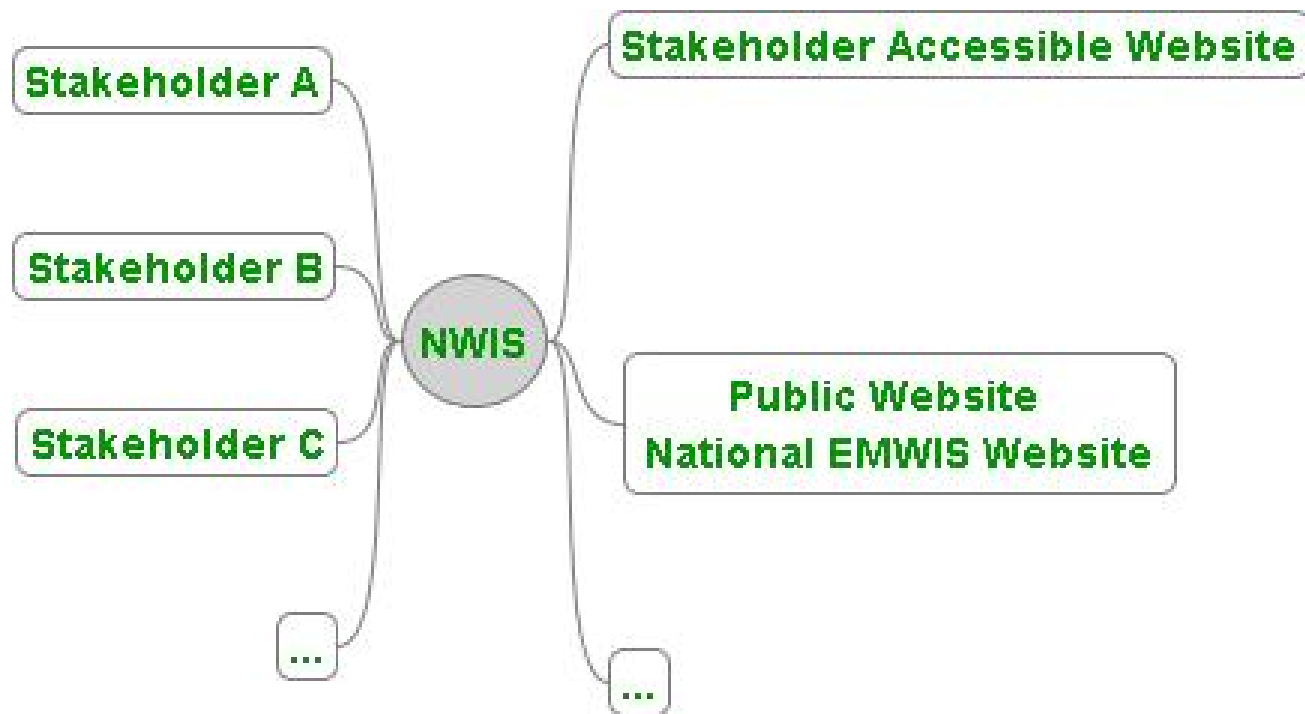


# NWIS: A Gateway to National Water Information

- A National Water Information System (**NWIS**) is an online system that:
  - integrates data and know-how from all national stakeholders
  - makes available all stored information to all parties interested
  - Serves as a decision support tool to water management
- NWIS can also be used for a variety of tasks
  - More than a simple “computerized system”



# NWIS Vision



# NWIS in Cyprus

- Feasibility study
  - EasyInfo Consulting Company
  - Completed July 2005
- Deliverables
  - Stakeholders identified
  - Problems detected
  - Suggestions

# Stakeholders Identified

- Water Development Department-NFP
- State General Laboratory
- Water Boards
- Meteorological Department
- Geological Survey Department
- Medical Services and Public Health Services
- Department of Agriculture
- Environmental Service
- Department of Fisheries and Marine Research
- Municipalities
- Sewage Boards
- Research Institutions
- Farmers
- Tourism Sector

# Problems Identified

- Lack of policy on data sharing
- Lack of standard operating procedures
- No standard data exchange format and structures
- Lack of staff
- Some stakeholders have no database system
- Availability, suitability of data

# Suggestions

- Establish a NWIS committee
  - Each stakeholder nominate a representative
- Utilize the currently available systems
- Develop the system
  - Web-base application
  - GIS interface
  - Distributed database
- Include information other than quantitative data
- Give access to other stakeholders and users of water information

# Pre-existing Work

- Environment Information System – ENVIS
  - Funded by USAID and implemented by USGS
  - Three major stakeholders involved:
    - WDD, GSD and Meteorological Department
  - Four subsystems covering
    - Surface water
    - Ground water
    - Water Quality
    - Meteorological data
  - Of limited use
    - Restricted number of users
    - Cannot accommodate all required type of data
- Phased out to be replaced by CYMOS

# Ongoing Work

- **CYMOS –Cyprus Monitoring System**
  - Data base of quantity and quality information on surface water and groundwater
- **Part of The Transition Facility Project**
  - Development of Integrated Water Monitoring Programs and Tools for cost effective monitoring and Assessment to Support Sustainability of Water Resources and the implementation of WFD 2000/60/EC in Cyprus
- **EU funded project**
  - Departments to be involved in CYMOS:
    - WDD, SGL, DFMR, GSD
- **A first step towards a Cyprus NWIS**



# Vision for Cyprus NWIS

- Overcome Deficiencies of current systems
  - Not XML-based
  - Not web-based
  - Limited stakeholder participation
- Envisioned NWIS will address the above problems and:
  - Provide an integrated framework for water management
  - Serve as a knowledge repository for the involved stakeholders
  - Operate as a water information portal



# Accomplishments

- EMWIS National Focal Point website
  - Designed, implemented by the WDD
  - Second, upgraded version in preparation
    - The public part of the NWIS
  - Linked with the WDD website
    - Daily updates on water information
    - Wealth of information on water issues in Cyprus
- Feasibility study completion and evaluation
- Preparatory meetings with main stakeholders

# WDD WebSite

Τμήμα Αναπτύξεως Υδάτων - Αρχική Σελίδα - Windows Internet Explorer

http://www.moa.gov.cy/moa/wdd/Wdd.nsf/index\_gr/index\_gr?OpenDocument

Τμήμα Αναπτύξεως Υδάτων - Αρχική Σελίδα

ΚΥΠΡΙΑΚΗ ΔΗΜΟΚΡΑΤΙΑ

ΤΜΗΜΑ ΑΝΑΠΤΥΞΕΩΣ ΥΔΑΤΩΝ

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Συνήθειες Ερωτήσεων | Χάρτης Πλοήγησης | Σύνδεσμοι | Επικοινωνία

Αναζήτηση:

Ειδική Αναζήτηση

Το Τμήμα

Υδατική Ανάπτυξη

Εξοικονόμηση Νερού

Αποχετευτικά Συστήματα

Ενημέρωση

Νέα

Νομοθεσία

Οδηγία Πλαίσιο 2000/60/ΕΚ περί Υδάτων

Εκδόσεις

Προσφορές

Αιτήσεις

Ηλεκτρονικά Έντυπα

Επιδοτήσεις

Διεθνείς Συνεργασίες

Οπτικοακουστικά

ΚΑΛΩΣΗΛΘΑΤΕ ΣΤΟ ΔΙΚΤΥΑΚΟ ΜΑΣ ΤΟΠΟ

Μέσω της ιστοσελίδας μας μπορείτε να ενημερωθείτε για το ιστορικό της ανάπτυξης των υδάτινων πόρων της Κύπρου. Γίνεται ενημέρωση για την πληρότητα των φραγμάτων και δίδονται στατιστικά στοιχεία για τη συλλογή και τη χρήση του νερού στην Κύπρο. Στις σελίδες μας, θα βρείτε επίσης, έντυπα για την υποβολή διαφόρων αιτήσεων, εκδόσεις, φωτογραφικό υλικό, καθώς και συνδέσεις με την Ευρωπαϊκή Ένωση και άλλες σχετικές σελίδες με θέμα το νερό

ΕΚΣΤΡΑΤΕΙΑ ΕΞΟΙΚΟΝΟΜΗΣΗΣ ΠΟΣΙΜΟΥ ΝΕΡΟΥ 2007

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ΠΛΗΡΟΤΗΤΑ ΦΡΑΓΜΑΤΩΝ

ΔΗΜΟΣΙΑ ΔΙΑΒΟΥΛΕΥΣΗ

για το Σχέδιο Διαχείρισης των Υδάτων της Κύπρου

ΑΝΑΚΥΚΛΩΣΗ ΗΜΙΑΚΑΘΑΡΤΟΥ ΝΕΡΟΥ

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Πατήστε το play

ΕΚΣΤΡΑΤΕΙΑ ΕΞΟΙΚΟΝΟΜΗΣΗΣ ΠΟΣΙΜΟΥ ΝΕΡΟΥ

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ΤΜΗΜΑ ΑΝΑΠΤΥΞΕΩΣ ΥΔΑΤΩΝ

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(2 items remaining) Waiting for http://www.moa.gov.cy/moa/wdd/Wdd.nsf/index\_gr/index\_gr?OpenDocument

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# EMWIS-Cy WebSite



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# The Road Ahead

- Actions
  - Stakeholders awareness campaign
  - Forming a NWIS committee
  - Data gathering and organization
  - Upgrading of the EMWIS National Focal Point portal to include information from all significant stakeholders in Cyprus
  - Design and implement a plan for information sharing and knowledge dissemination

- 
- Visit us at:
    - <http://www.emwis-cy.org>
    - <http://www.moa.gov.cy/wdd>
  - Contact:
    - [aachilleos@wdd.moa.gov.cy](mailto:aachilleos@wdd.moa.gov.cy)



# Thank You For Your Attention

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