Thematic Process 4.5: Enhancing Education and Capacity Building

4.5.4 “Facing the changes in due time: Specific training for basin organizations”

Knowledge network for a better basin management

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KNOWLEDGE NETWORK FOR A BETTER BASIN MANAGEMENT

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Ministry of Agriculture, Food and Environment, Spain
- General principles
  - Training and governance
  - Importance of knowledge management
  - Knowledge networks: main elements

- Examples of existing information & training systems and tools
  - International – Regional: WISE, CODIA, EMWIS
  - National – Basin level: CEDEX, SIAgua (CHJ)
General principles

Importance of knowledge network for a better basin management

Developing the capacities of Basin Organizations is necessary by enforcing the training of their members, at different levels:

- technical
- management
- governance (including all stakeholders involved)

Importance of knowledge management (KM):

- Our society is changing from a traditional economy to a knowledge-based economy
- Technical advances combined with the access to “world wide net” is bringing a revolution in the access to and dissemination of information
- Administrate the overdose of information requires a knowledge management (KM) strategy to maximise benefits
Knowledge Networks: Main elements

KNOWLEDGE MANAGEMENT by water information and training networks and tools

a. POLICY and strategy aspect. The framework
b. DATA collection, treatment, statistics and dissemination
c. RESEARCH and modelling
d. TRAINING, Education
e. ...
Water Information System for Europe (WISE): is a partnership between the European Commission and the European Environment Agency, known as “the Group of Four” (Go4). The main roles and responsibilities of the partners are:

- **DG Environment**, leads the policy and strategic aspect of WISE.

- The **European Environment Agency** hosts the Water Data Centre and the thematic WISE webpages. Eurostat is collecting and disseminating water statistics, also as a part of WISE data and themes, and provides significant input in the development of the GIS part of WISE and in particular ensuring the link to INSPIRE.

- The Joint Research Centre (JRC) conducts environmental monitoring and water resources modelling including nowcasting and forecasting services.
The **Conference of Ibero-American Water Directors** (CODIA) arises as a response to the mandate from the Ibero-American Ministers of Environment (Spain, 2001), to create a forum in the region with the participation of the organisations responsible of **water management policy** in Ibero-America.

- **Water Data Information System**: SIAGUA [http://www.siagua.org/](http://www.siagua.org/)

- **Ibero-American Training Program** on Water issues (face-to-face & e-learning) extended to stakeholders
Mediterranean example

- The EURO-MEDITERRANEAN INFORMATION SYSTEM ON KNOW-HOW IN THE WATER SECTOR (**EMWIS**) is the first regional project (1990) in the Euro-Mediterranean Partnership area (43 countries: EU+MEDcountries). Provides a **strategic** tool for exchanging information (**data** and knowledge) in the water sector.

Now, today ......

- MEDITERRANEAN WATER KNOWLEDGE PLATFORM (proposed project) labeled by **Union for Mediterranean** (UfM), promoted by **International Office for Water** (OIEau) and **Mediterranean Water Institute** (IME), with two components:
  
  - **Data** information system and statistics on water for IWRM analysis and decision making. (EMWIS)
  
  - “White Paper on Water in the Mediterranean”, to facilitate the IWRM **policy** and planning at regional level. (IME & MENBO).
National Centre for Public Works Studies and Experimentation (CEDEX)

- Numerous **training** and **research** activities in the national and international scope (Masters, Courses, Conferences, etc.), including documentation actions: drafting of technical documents and publications; elaboration of document databases, etc.

At basin level (Jucar):

- **Information system (SIA Júcar)** for the follow-up and revision of the hydrological plan: [http://aps.chj.es/idejucar/home.html](http://aps.chj.es/idejucar/home.html) Includes a web application to data and cartography, Web Map Service and downloading page.

- **Training** to stakeholders included in the RBMP’s Public Participation Process
Avoid duplication on existing networks and make use of potential synergies

Pay attention on all the four components: policy, data, research and training

Training is needed at different levels, including managers, technical staff and stakeholders in the river basin management

A step forward is needed in the transparency of the information interchange