FFEM-EECCA project
Capacity building in data administration for assessing transboundary water resources in the EECCA

Project presentation

April./2011

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Characteristics of the FFEM-EECCA project

General context

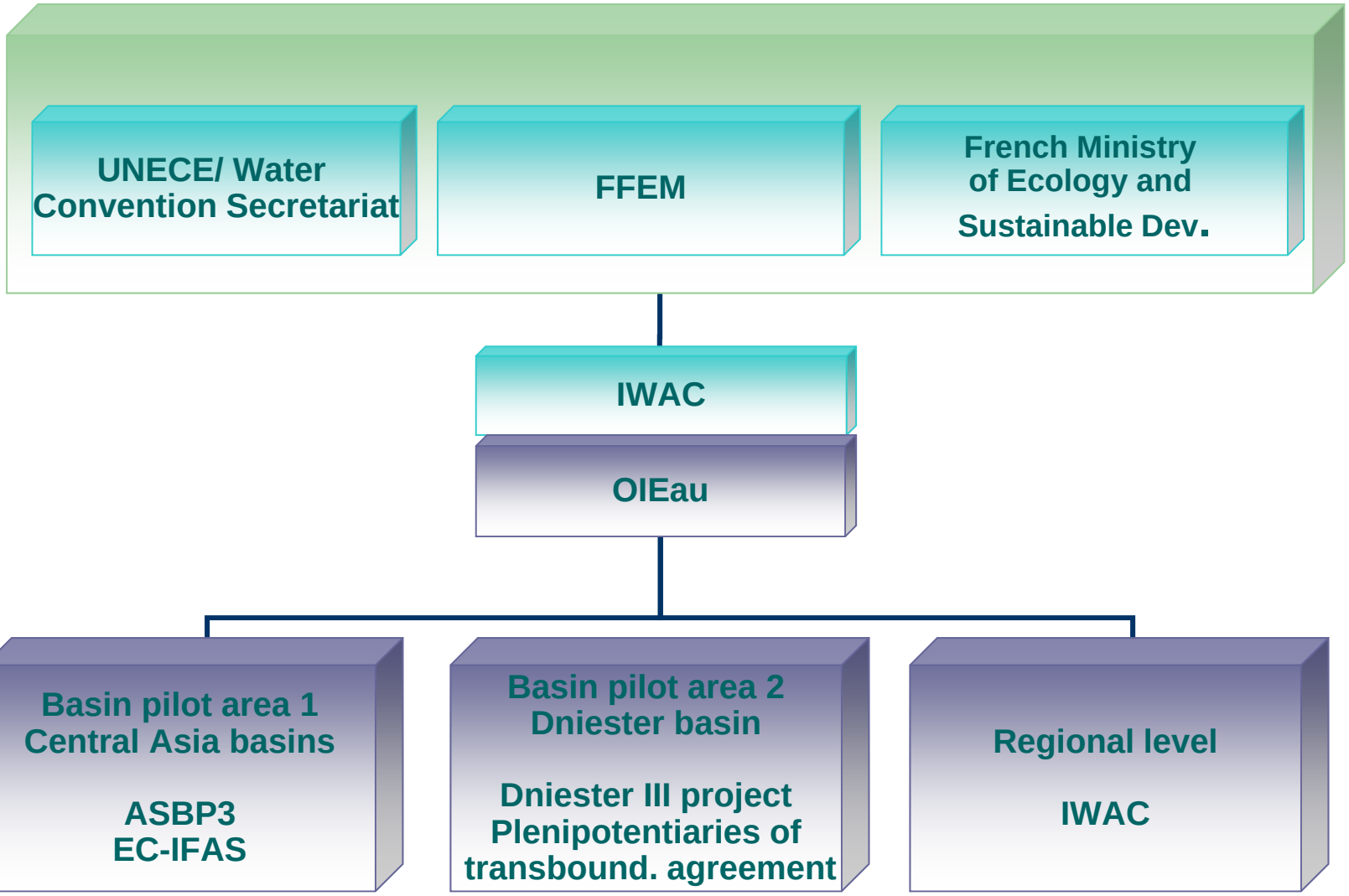
- Efficient IWRM requires to have access to the information necessary to better guide water resource management decision making
- In each transboundary basin and n each country, the data necessary to elaborate the requested information is produced/managed by various organisations
- Information generally in a fragmented, incomplete dispersed and heterogeneous way, either at international or national level
- Each level of decision in water management (national, local, regional) and each actor need different kind of information for decision making

=> need efforts to rationalize and make this information readable, easily accessible and available in order to produce useful information

UNECE-FFEM project characteristics

- **Title: "Capacity building in data administration for assessing transboundary water resources in the countries of Eastern Europe, the Caucasus and Central Asia (EECCA)"**
- **Developed in collaboration with the secretariat of the "*Convention on the Protection and Use of Transboundary Watercourses and International Lakes*"/ UNECE**
- **Location: 2 levels of implementation**
  - **Transboundary basins**
    - **Dniester basin**
    - **Aral sea basins**
  - **Regional (EECCA countries)**
- **Global project management**
  - **Steering : FFEM/ French Ministry of Ecology/ Secretariat of the water convention/ IWAC**
  - **Mandated beneficiary: HIS/IWAC**
  - **Prime contractor: IOWater**
- **Planned duration: 18 months (Nov. 2010 to April 2012)**
  - **Nov 2010 = signature of contracts**

FFEM Project governance



FFEM project global objective

- **On the 2 transboundary pilot areas:**
  - **to support development of capacities in data administration and data exchanges** within the main national and regional concerned authorities to develop the production of information necessary to better guide water resource management decision making

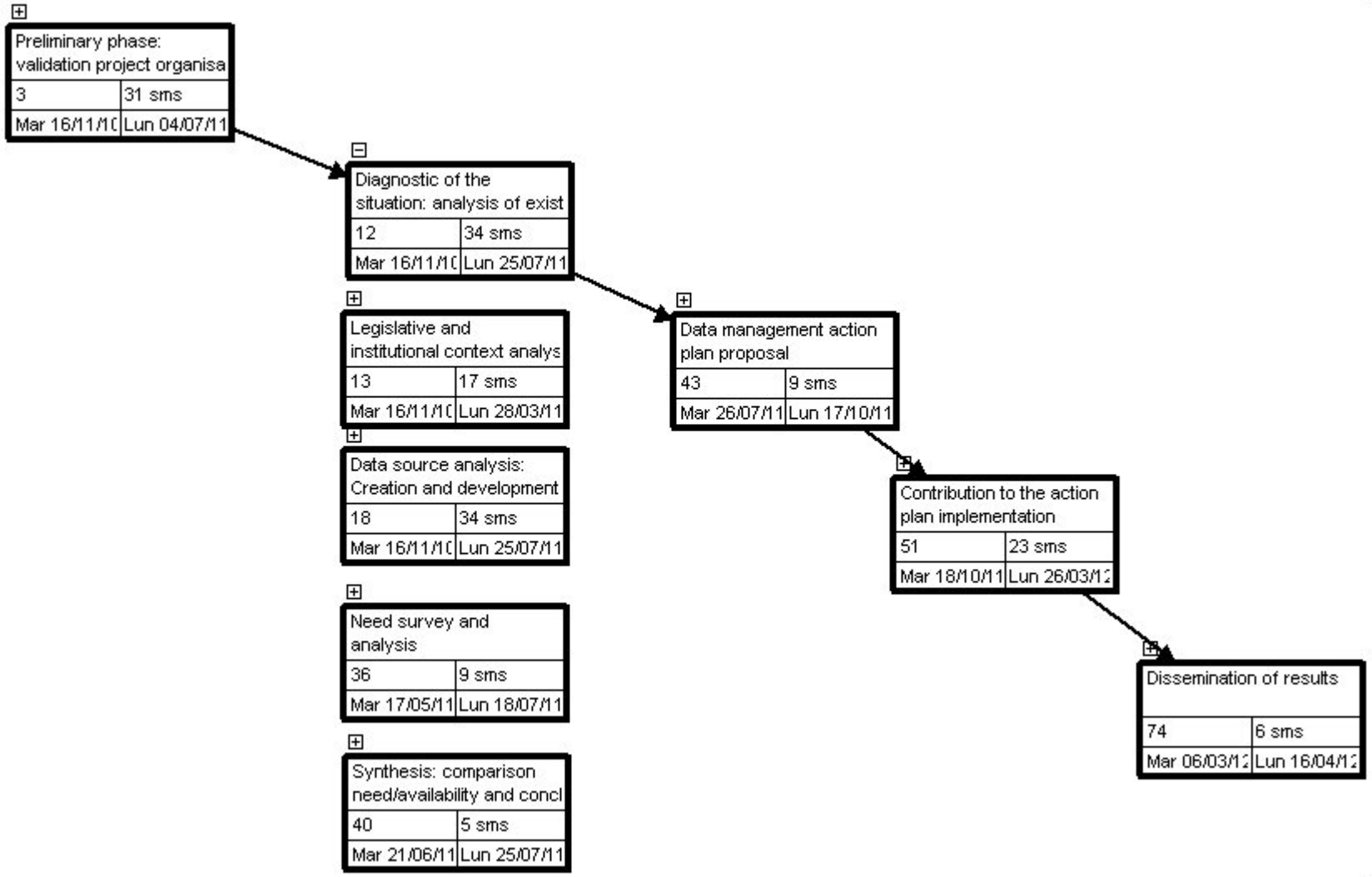
- **At regional level**
  - to develop **regional tools** aiming to facilitate identification of the available information
  - to **disseminate the results** and experience feedbacks obtained in the 2 pilot areas, to the other transboundary river basin area and to the other EECCA countries in order to help them develop their own information systems.

Main activities of the project

- **Component 1: Simultaneous actions on the 2 transboundary areas**
  - Preliminary phase: validation of project global organisation
  - **Diagnostic of the situation**: picture and analysis of existing situation
    - Potential stakeholders inventory
    - On line catalogue of data sources
    - Data flow diagrams per topics
    - Analysis of data/information needs
  - **Transboundary basin data management action plan proposal**
  - **Contribution to the action plan implementation**
  - Dissemination of results

- **Component 2: Actions undertaken at regional level**
  - Creation of a regional catalogue of data sources hosted by IWAC
  - Production/management of communication tools (leaflet, website, news letters..)
  - Production of guidance to support transboundary data management
  - Participation to regional meetings

Project action plan at basin level

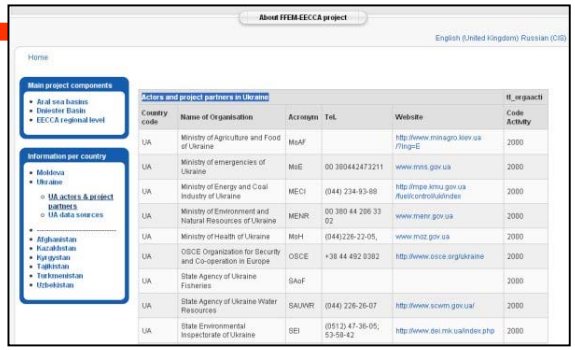


Focus on the diagnostic phase

(starting activities)

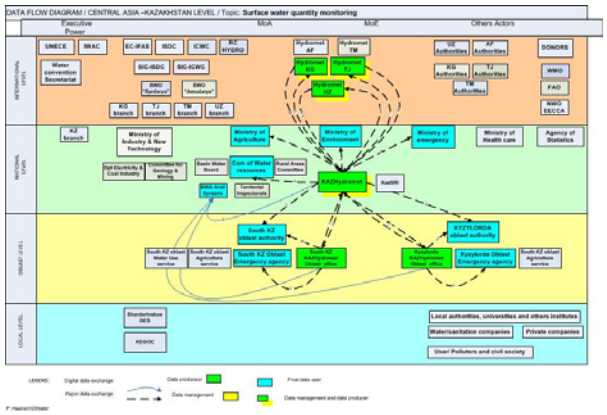
Analysis of the existing of the situation

- **Legislative and institutional context**
  - **On line database of actors and project partners**
  - Synthetic document



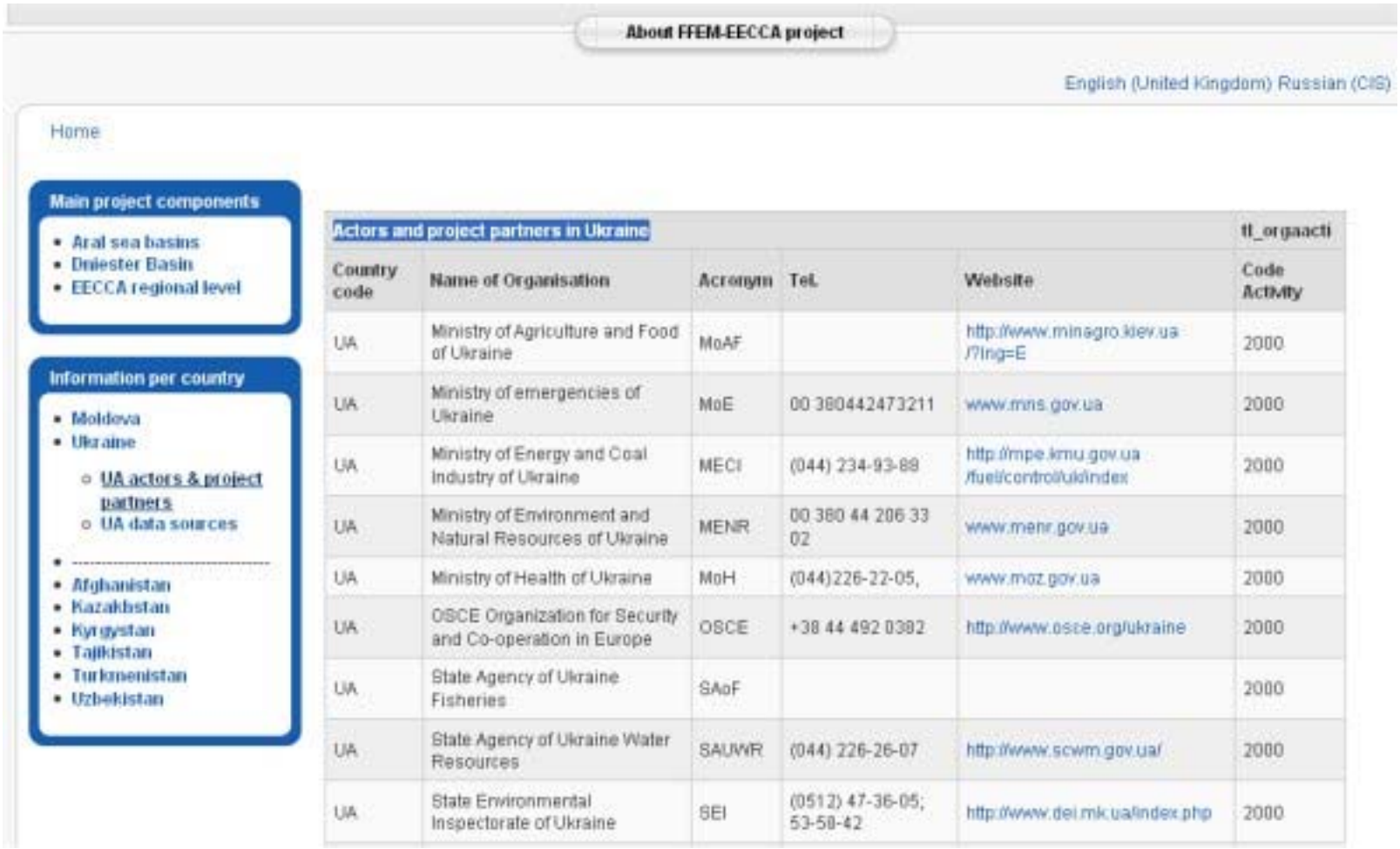
- **Data source analysis**
  - Objective: Inventory of
    - existing information systems
    - Existing data digital or paper datasets
  - Using the **online data source catalogue tool**
  - Training on metadata production/ capture into the catalogue
    - **National technical Workshops**
  - Possibility to install the catalogue at regional level, then latter at national level if needed

- **Diagrams of data flow**
  - Objective: Identification of main regular data flows between institutions
  - Done on priority topics at regional and national level



On line database of actors and project partners

- Example of list of actors in Ukraine



About FFEM-EECCA project

English (United Kingdom) Russian (CIS)

Home

Main project components

- Aral sea basins
- Dniester Basin
- EECCA regional level

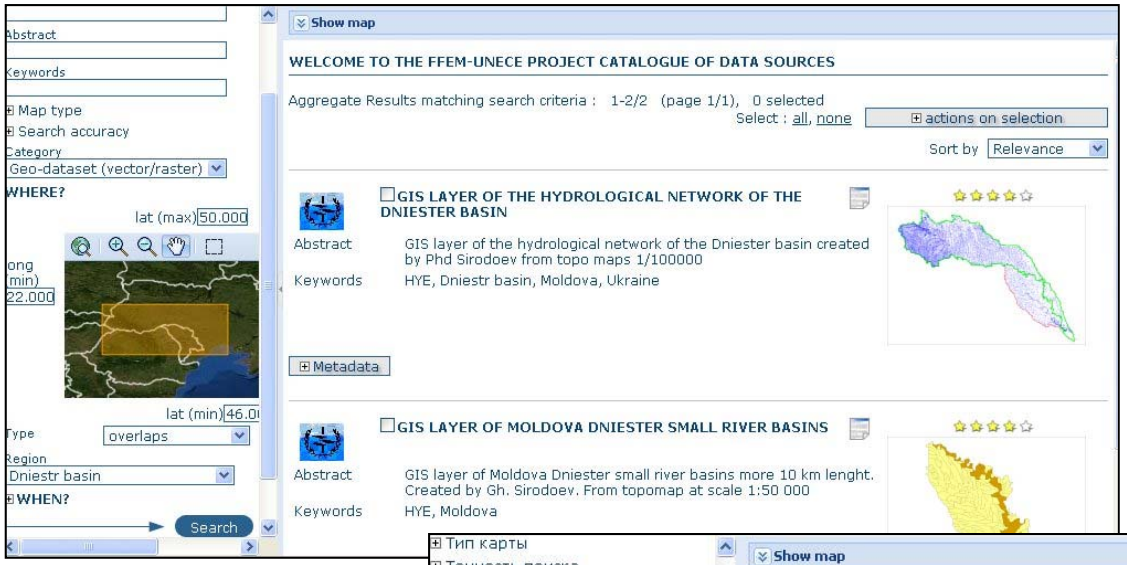
Information per country

- Moldova
- Ukraine
  - UA actors & project partners
  - UA data sources
- ----------
- Afghanistan
- Kazakhstan
- Kyrgystan
- Tajikistan
- Turkmenistan
- Uzbekistan

Actors and project partners in Ukraine — tl_orgaacti

Country code	Name of Organisation	Acronym	Tel.	Website	Code Activity
UA	Ministry of Agriculture and Food of Ukraine	MoAF		http://www.minagro.kiev.ua/?lng=E	2000
UA	Ministry of emergencies of Ukraine	MoE	00 380442473211	www.mns.gov.ua	2000
UA	Ministry of Energy and Coal Industry of Ukraine	MECI	(044) 234-93-89	http://mpe.kmu.gov.ua/fuel/control/uk/index	2000
UA	Ministry of Environment and Natural Resources of Ukraine	MENR	00 380 44 206 33 02	www.menr.gov.ua	2000
UA	Ministry of Health of Ukraine	MoH	(044)226-22-05,	www.moz.gov.ua	2000
UA	OSCE Organization for Security and Co-operation in Europe	OSCE	+38 44 492 0382	http://www.osce.org/ukraine	2000
UA	State Agency of Ukraine Fisheries	SAoF			2000
UA	State Agency of Ukraine Water Resources	SAUWR	(044) 226-26-07	http://www.scwm.gov.ua/	2000
UA	State Environmental Inspectorate of Ukraine	SEI	(0512) 47-36-05; 53-58-42	http://www.dei.mk.ua/index.php	2000

Catalogue of data sources – web link

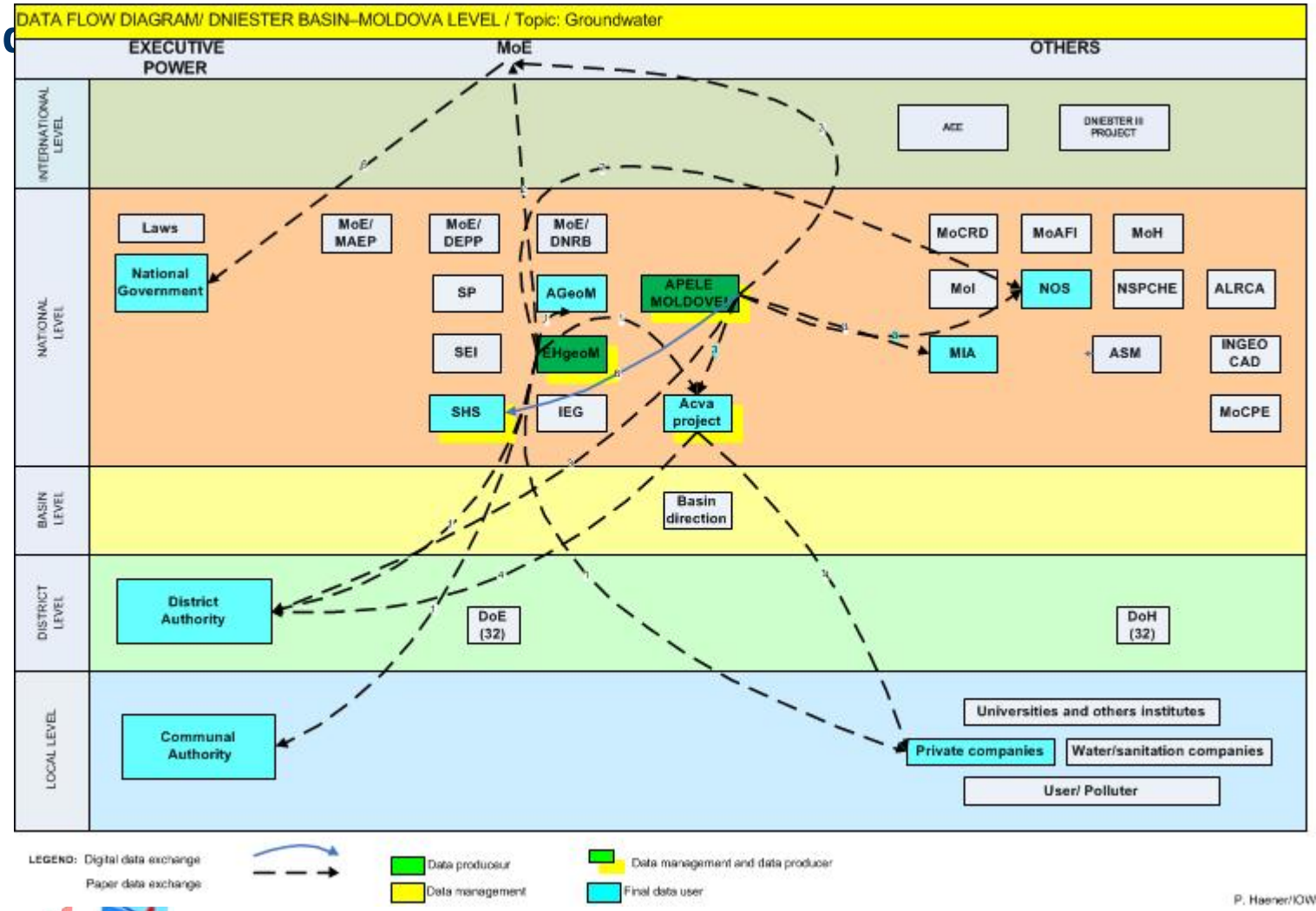


- Example of output when looking for GIS Layer on the Dniester basin

- Metadata indicates who manage what !

Data flow diagram/ example

- Draft diagram presenting the main exchanges of **ground water**

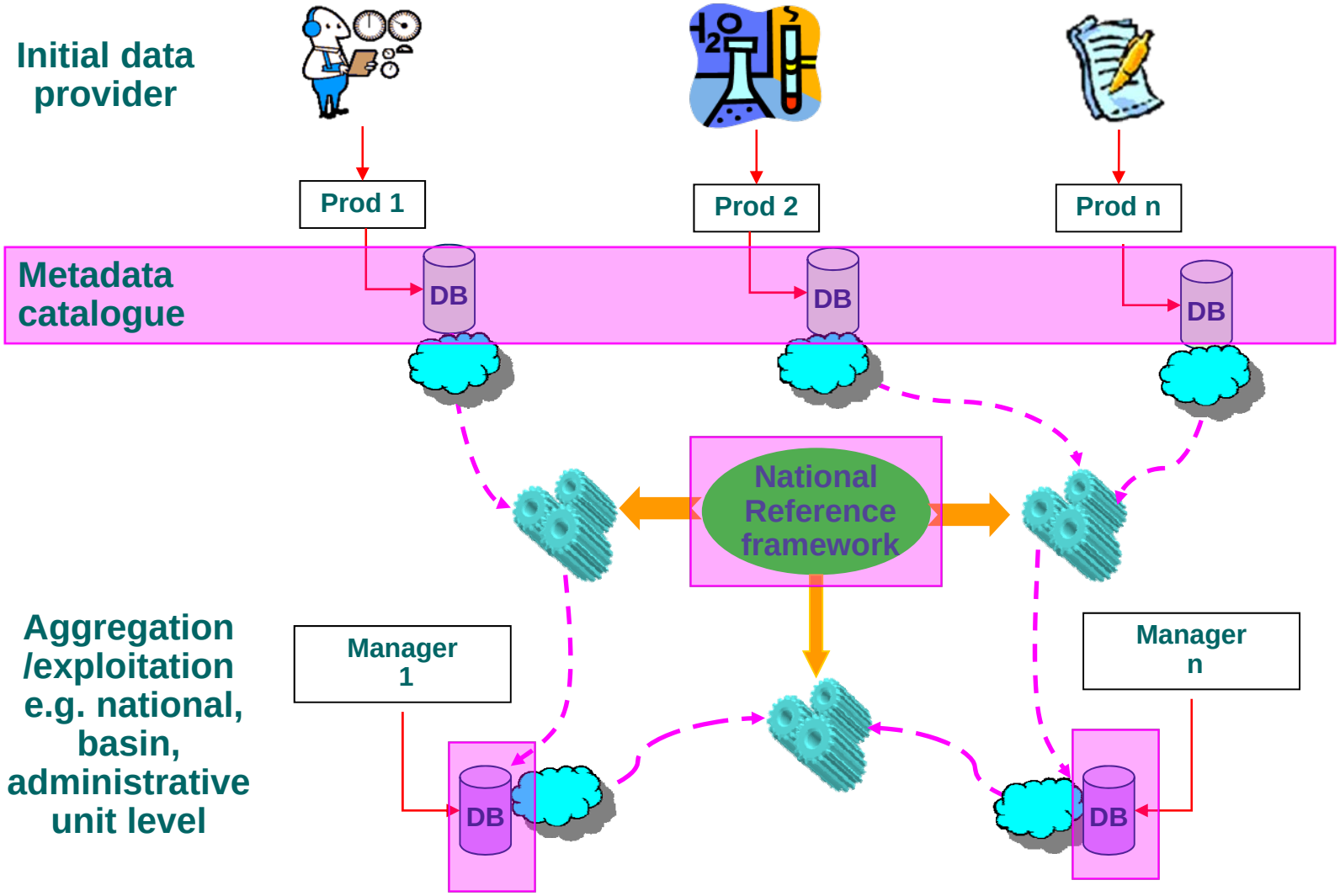


Analysis of needs (to be launched in June 2011)

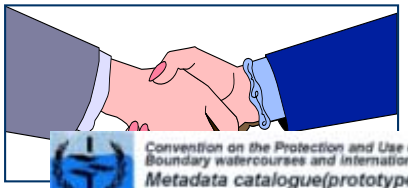
- **Identification of needs to facilitate the production of information necessary for activities and decision making**
  - **Target: the main regional, national and local water related authorities**
    - With first priority to the one participating to the analyse of existing situation
  - **Identification/analysis of needs in:**
    - **Data** (what complementary data?)
    - **Service** (what service? Ex map production, indicator production …)
    - **Tools** (which software?)
    - **Equipment** (which hardware?)
    - **Training** (which training related to data processing? Ex database, GIS, web services development , modelling ….)
- **Methodology**
  - Survey (on line survey + targeted survey)
  - Expert analysis

Examples of expected final outputs of the project

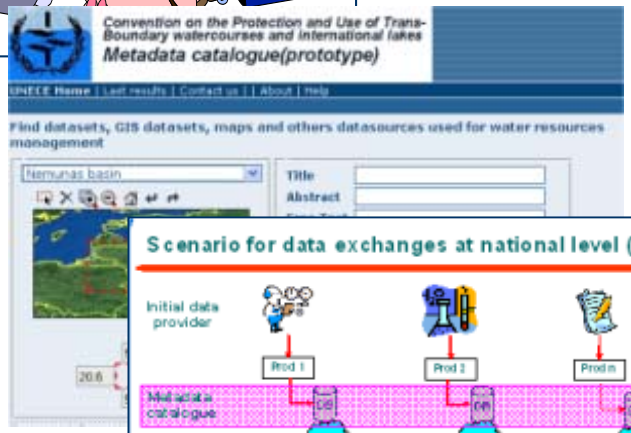
Organising data exchanges (example)



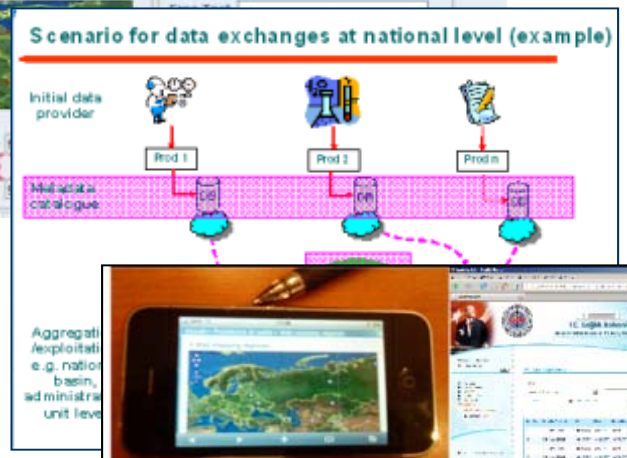
Examples of final outputs at national and basin level



- Partner need analysis and agreements on action plan related to data management



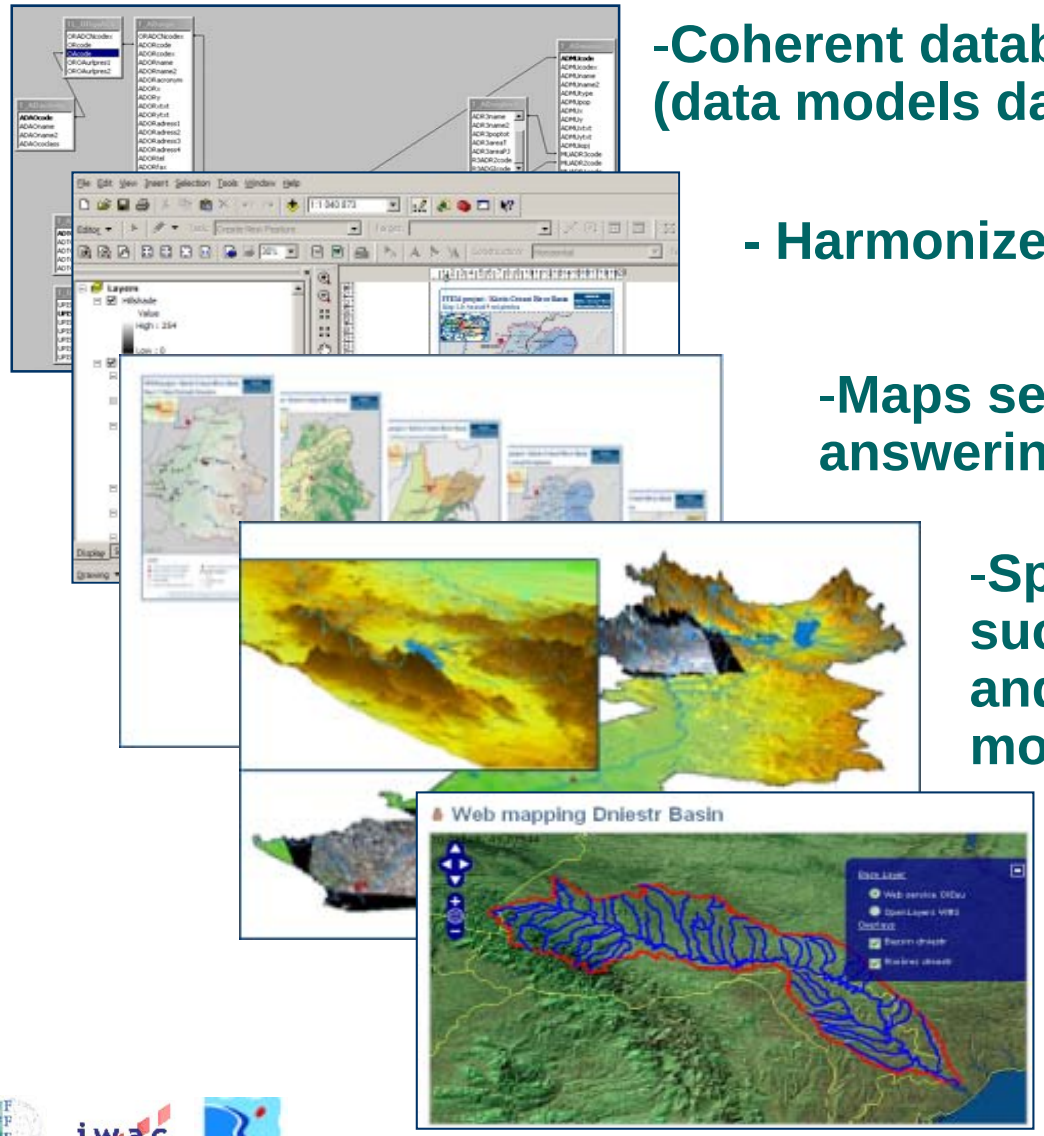
- On line catalogue of data sources (national and basin level)



- Partners information system reinforced to develop new data exchange scenarios

- New tools to facilitate access to information for decision making

Examples of potential services to reinforce the partner information systems and their interoperability



-Coherent database development (data models data dictionaries)

- Harmonized transboundary GIS

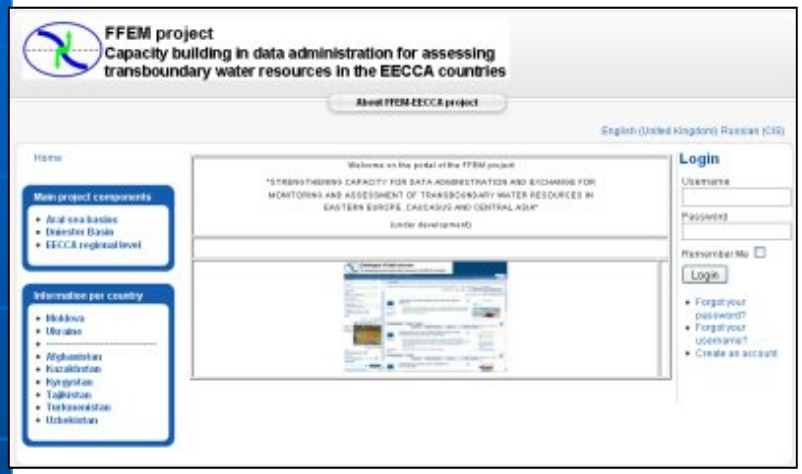
-Maps series production answering to the needs

-Specific processing such as satellite images and digital elevation model processing (3D)

-On line mapping tools and Web services

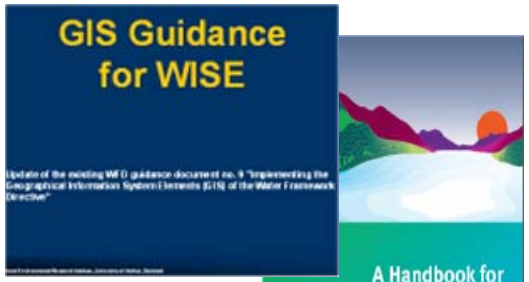
Example of expected outputs at regional level

- **Regional Web portal**



- **Regional catalogue of data sources**

- **Handbooks/guidances**



Examples

- **Events for experience exchange**

Conclusions

- A starting project to reinforce cooperation between institutions in water data management
- Working first at national level, considering the important role of the data producers
- Supporting the development of collaborative tools and methods of national and regional interest
  - Catalogue of data sources and data flow analysis
  - Analysis of needs
  - Actions plans definition
- Supporting the development of priority actions

Thank you
for your attention

For more information

http://www.aquacoope.org/ffem_eecca