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# Capacity building in data administration for assessing and monitoring transboundary water resources in the countries of Eastern Europe, the Caucasus and Central Asia (EECCA)

## Presentation of the pilot project proposal

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# Why this proposal ?

## Importance of efficient water information management

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- **Easy access to information on the status and evolution of water resources and uses is one of the keys to a successful water policy.**
- **Water resource managers need reliable, up-to-date and relevant information on issues such as regulations, planning, risk management and public information.**
- **The necessary information only exists in a fragmented, incomplete dispersed and heterogeneous way, either at international or national level**

**=> need efforts to rationalize and make this information readable, easily accessible and available**

## Justification from 2<sup>nd</sup> assessment under preparation

- **« Accurate and up-to date information on the quality and quantity status and trends in a basin system through monitoring is essential for effective protection and management. »**
- **« In most transboundary basins in the region, information exchange is still very weak and information produced in riparian countries is not harmonized. Joint monitoring and assessment almost do not exist. »**
- **« .... at the end of the 2<sup>nd</sup> assessment, we want to know how to develop harmonised monitoring and organise access to comparable data »**

## Justification from previous meetings

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- **Metadata database** initially envisaged during the **4th meeting of the parties** to the water convention (Bonn, November 2006).
- Subject developed during the **8th meeting of the monitoring working group** (Helsinki, June 2007),
- On request of the working group, a **first conceptual proposal** concerning the development of metadata database prepared by OIEau representing France, and presented during **9th meeting of the monitoring working group** (Geneva, March 2008)
- On request of the working group, France studied how to raise funds for this project: **FFEM project proposal** presented during the **10th meeting of monitoring working group** (Bratislava, June 2009)

# Characteristics of the proposed project

# Main characteristics

## ■ Title/ Amount/Duration

- **Title: “Capacity building in data administration for assessing and monitoring transboundary water resources in the countries of Eastern Europe, the Caucasus and Central Asia (EECCA)”**
- **Total amount : 800 000 €**
- **Planned duration: 18 months (May 2010 to Nov 2011?)**
- **Feasibility study just starting (Nov. 2009 to March 2010)**



# Main objectives

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## ■ Global objective

- To reinforce capacity in data administration within the relevant national and local authorities and joint bodies, thereby supporting both policies and actions related to transboundary water management.

## ■ Specific objective

- To facilitate data source identification,
- To develop the production and sharing of homogenous and consistent information necessary for water resource management, whether at national and local levels, or for regional assessments.

## 2 components of the action plan

- **Component 1: Simultaneous actions on 2 pilot transboundary basins**
  - Objective: to reinforce administration and data sharing capacity in two pilot basins respectively, using methods and approaches that can be replicated in other transboundary basins in the EECCA region.
  
- **Component 2: Actions undertaken at regional level**
  - Objectives
    - First regional web portal and catalogue of data sources
    - Disseminating results and guidance resulting of the project to other transboundary basins and countries in the EECCA region.

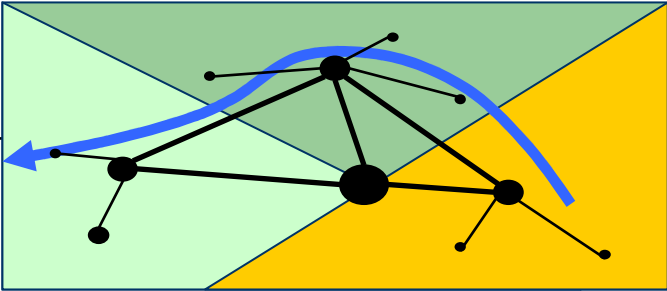
# Geographic area

- **Basin level: 7 potential pilot basins proposed by the Secretariat of the Water Convention**
  - **Daugava** (Russian Federation - Oblast, Belarus, Latvia)
  - **Neman** (Belarus, Lithuania, Russian Federation - Kaliningrad)
  - **Pripyat** (Belarus, Ukraine)
  - **Seversky Donets** (Russian Federation, Ukraine)
  - **Dniester** (Ukraine, Moldavia)
  - **Prut** (Moldavia, Romania, Ukraine)
  - **Transboundary waters of Central Asia** (Kirghizstan, Kazakhstan, Uzbekistan, Tajikistan, Turkmenistan)



- **Regional level: Targeting all EECCA countries**

## Component 1: Activities and outputs at basin level (1/2)

Activities	Outputs
<p><b>a/ Strengthening the cooperation on data administration between concerned institutions</b></p>	<ul style="list-style-type: none"> <li>- Protocols/ agreements</li> <li>- Draft water data master plan for the basin</li> </ul> 
<p><b>b/ Supporting the development of tools for efficient data administration</b></p>	
<ul style="list-style-type: none"> <li>- Implementing tools for managing metadata</li> </ul>	<ul style="list-style-type: none"> <li>- National / basin level catalogues of data sources</li> </ul>
<ul style="list-style-type: none"> <li>- Supporting the development of complementary tools for use by target partners</li> </ul>	<ul style="list-style-type: none"> <li>- Technical specifications for hardware and software development</li> <li>- Complementary tools for data management</li> </ul>

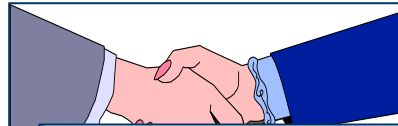
## Component 1: Activities and outputs at basin level (2/2)

Activities	Outputs
<b>c/ Setting up procedures and tools for sharing information</b>	
<ul style="list-style-type: none"> <li>- Organising data sharing between institutions</li> </ul>	<ul style="list-style-type: none"> <li>- Data sharing rules</li> <li>- Exchange scenarios specifications</li> <li>- Common data dictionary, codification procedures, exchange formats</li> </ul>
<ul style="list-style-type: none"> <li>- Reinforcing existing system interoperability</li> </ul>	<ul style="list-style-type: none"> <li>- Exchange procedures adopted</li> <li>- Exchange procedures implemented</li> </ul>
<b>d/ Supporting the production of useful information for transboundary management</b>	<ul style="list-style-type: none"> <li>- Data exchanges on priority themes</li> <li>- Maps, statistics, indicators and dashboard</li> <li>- On line tools for information dissemination</li> </ul>

## Component 2: Activities and outputs at regional level

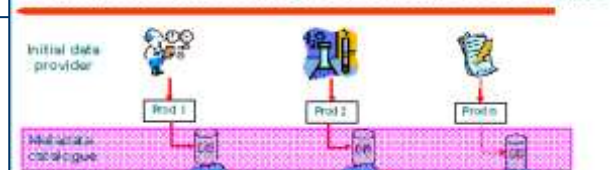
Activities	Outputs
<b>a/ Implementing regional tools on a server at IWAC</b>	<ul style="list-style-type: none"><li>- Regional Web portal</li><li>- Regional Metadata catalogue</li></ul>
<b>b/ Communication initiatives for disseminating results to other transboundary basins in the EECCA region.</b>	<ul style="list-style-type: none"><li>- Guidances and leaflets presenting the policies and techniques of the project's results</li><li>- Side event during the “Environment for Europe” ministerial conference planned at the end of 2011 in Astana (Kazakhstan)</li></ul>

# Examples of outputs at basin level (1/2)



- Agreements protocols between institutions

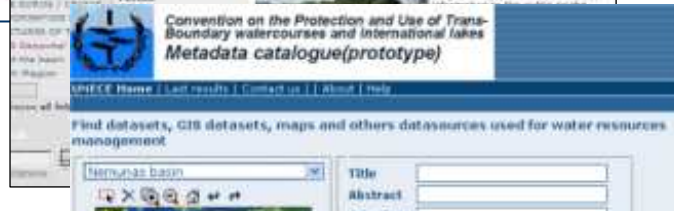
## Scenario for data exchanges at national level (example)



- Developing data exchange scenarios



- Implementing collaborative basin Web portal

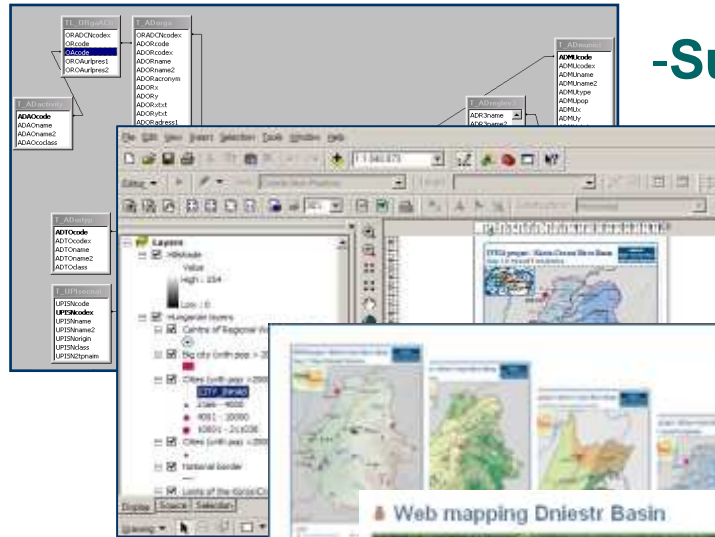


- Developing on line catalogue of data sources



- Developing access to information for decision making

# Examples of outputs at basin level



-Support to database development

- Harmonized transboundary GIS

- Maps series production

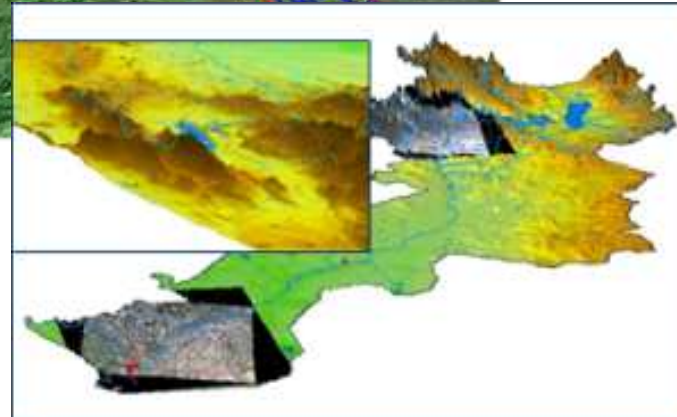


- On line mapping tools



-Specific mapping

(ex: satellite images on a 3D vision of the basin)



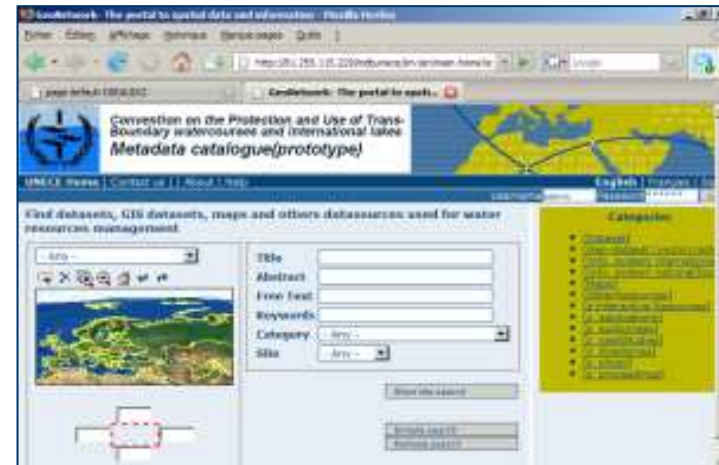


# Example of expected outputs at regional level

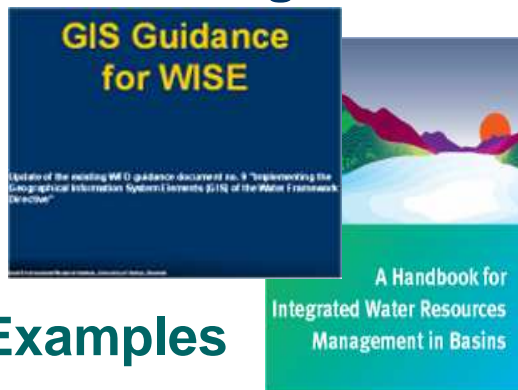
## Regional Web portal



## Regional catalogue of data sources



## Handbooks/guidances



Examples

## Events for experience exchange



# Information

- Today (11th of November) at 18h, room IV: open meeting in the framework of the feasibility study of the project
- Countries and regional organisations concerned by the preselected basins are particularly invited to participate in order to progress on the identification of the 2 pilot basins for this project

Concerned countries	Corresponding preselected basins
Belarus	Daugava, Neman, Pripyat
Latvia	Daugava
Lithuania	Neman
Moldavia	Dniester, Prut
Romania	Prut
Russian Federation	Daugava, Neman, Seversky Donets
Ukraine	Dniester , Pripyat, Seversky Donets, Prut
Kirghizstan, Kazakhstan, Uzbekistan, Tajikistan, Turkmenistan	Transboundary waters of Central Asia

# Thank you for your attention

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