

PRB ACTIVITY REPORT

PRB: DUERO

WORKING GROUP:	D – Reporting
ACTIVITY:	RBMP reporting

1. Description of the activity

The current activity aims the implementation of a framework project, at a national level, with the goal of developing the necessary mechanisms and tools in order to perform the reporting according to the implementation plan for WISE.

Since it is a mayor project that involves a large number of River Basin Authorities, the work is done by two Spanish river basins, the Duero and the Ebro. The authorities of both river basins are working co-ordinately in order to build the required elements.

The two river basins have their own peculiarities. The Duero river basin is an international one, shared by Portugal and Spain. On the other hand, the Ebro river basin shows a complex administrative situation, being necessary to coordinate the activity in a territory shared by nine autonomous regions.

The Spanish strategy for reporting is shown in Figure 1. To achieve the goal two phases have been set. The first step covers the activities for 2006 and 2007. The second one deals with the activities for 2007 and 2008. In such a way, there will be time enough to spread the achievements over the other River Basin authorities in order to succeed in the reporting for the RBMP.

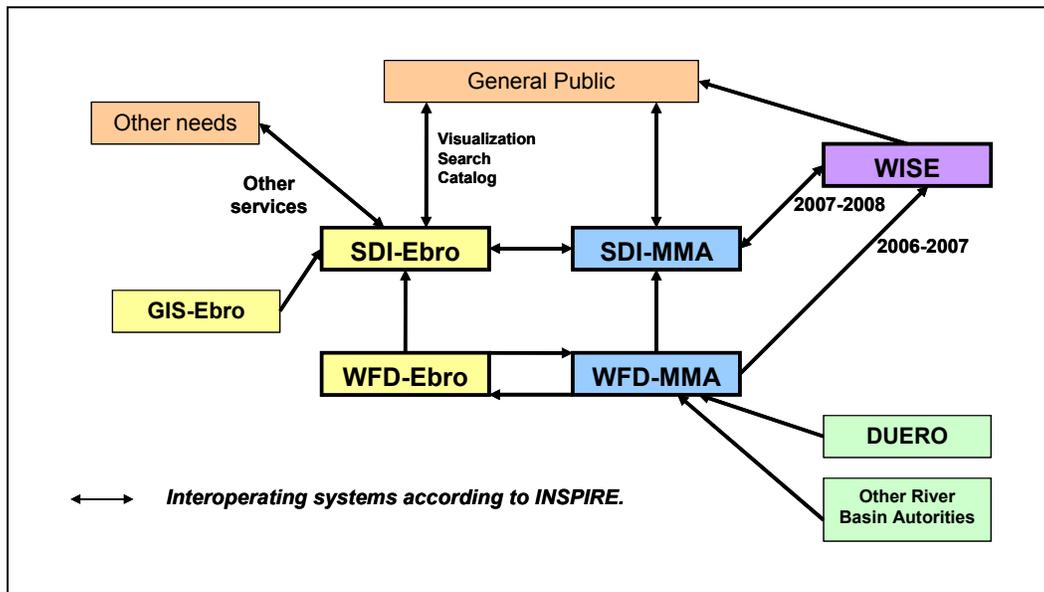


Figure 1: Summary of the Spanish Strategy for reporting to WISE.

During the first phase a new information system will be implemented. The system will have the following functionalities:

1. It will store the data required for the articles 5, 6 and 8 reporting: Characteristics of the river basin district, the environmental impact of human activity, the economic analysis of water use and the monitoring networks.
2. It will also implement additional features to generate, together with the WISE Access Tools, the files to be transferred to WISE, both alphanumeric information (XML) and geographic information (shape files).

So far, there has been done some research on the databases from Duero and Ebro (WFD-Ebro and WFD-Duero), that have similar data models but different procedures and interfaces.

The second phase intends to build the Spatial Data Infrastructure nodes (SDI), following INSPIRE specifications. It is also intended that the nodes will interoperate with WISE, improving the current procedures for data loading.

As a pilot, the SDI-Ebro is being implementing by Ebro PRB. This node retrieves the data stored in the WFD-Ebro database and publishes it to the Web through standard services.

2. PRB activity vs. status of national implementation

The strategy of the PRB will be copied at a national level by means of a similar information system composed by WFD-Spain and SDI-Spain. This system will gather information from the information system in each Spanish river basin.

The first task the Ministry of Environment is involved in, it is that related to the difficulties of the collection of the Spanish data. It is also working no how to match the Spanish results and the Portuguese ones, since the Duero is an international basin.

There are several problems identified so far. Most of them are caused by the geographic, administrative, social and cultural differences among the different territories in Spain. For instance, most of the territory is managed by the Ministry of environment (Duero and Ebro river basins depend on the Ministry). However, those basins that are completely inside the Autonomous regions borders depend on the regional government (this is the case of the basins inside Catalonia, Basque Country, etc.).

Despite the fact mentioned above, since it is the Member State the one that must do the reporting, the Spanish government has to collect and validate the information before reporting it to the European Commission through the node belonging to the Member State.

The main difficulties found are the differences in the criteria for the identification and selection of water bodies, the different information systems that support the information, and the fact the information to gather information in the different official languages in Spain. The pilot activities aim to overcome all this difficulties mentioned.

3. Main results achieved in 2005

The results for 2005 are the development of two pilot information systems: WFD-Ebro and WFD-Duero. The systems store, manage and update the information needed for the article 5 of the WFD. WFD-Duero stores the data sent for the article 5 reports, and also a working set that is

updated and improved continuously. On top of that, a new version of the system is being implemented in order to allow web communication.

4. Activity follow up in 2006

During 2006 it will be necessary to work in the following areas:

1. Improvement of WFD-Duero, adapting its architecture to open through Internet. This will allow the spreading of information related to the WFD.
2. Testing of the access tools provided by European Commission to ease the file transfer to WISE.
3. To continue the development of SDI-Ebro. This started in 2005.
4. To start the development of the SDI-Duero node. This node will allow a more efficient information exchange of the data stored in WFD-Duero.

As a result of these activities, a document will be written. This document will have recommendations to suggest improvements and adaptations for the different Spanish river basins. The goal is to ease the implementation of a solid, reliable and efficient Spanish System for reporting, compliant to the WISE deployment and INSPIRE principles.

5. Others

This activity is a framework for the rest of activities on reporting that the Spanish river basins are working on. These activities are:

- WFD-Duero
- SDI-Ebro
- GIS-tools (Ebro)

To find more information about the activities mentioned, it is possible to visit the Web sites:

<http://www.chebro.es>
<http://www.chduero.es>
<http://www.ideo.es/sdiger>

It is also important to mention Sdiger project, that consists of the development of a Spatial Data Infrastructure to enable the access to geographic information resources related to the WFD in an international scenario. It involves Adour and Garonne river basins, (L'Agence de l'Eau Adour-Garonne-France), and the Ebro river basin, (Confederación Hidrográfica del Ebro-Spain).

The activities developed during the project are the following:

1. Activities related to metadata (development of new profiles based on ISO19115, etc.)
2. Creation of a common data model object oriented to map the models of each river basin.
3. Creation of generic services, such as catalogue, feature or map servers.
4. Creation of applications: generic clients for geodata searching, gazetteer and geographic information visualization, other applications on reporting for WFD, etc.
5. Creation of a multilingual web site (Spanish, French and English) to access data and services.