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# **PHARE Project in Poland "Setting-up of a basin information system" 2005**

- International Office for Water - Cooperation - International actions - Integrated water resources management (IWRM) -

Date de mise en ligne : Tuesday 4 November 2008

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The PHARE Project "**Setting up of a basin information system in Poland**" was co-financed by the European Union, the French Ministry for Foreign Affairs and the Polish Government, and managed by the International Office for Water in co-operation with Gdansk RZGW.

The main results expected from this project were:

1. **The preparation of a data dictionary** on surface water quality that could be used by all organisations collecting and using these data in Poland;
2. **The structuring of a database** on surface water quality in Gdansk RZGW.

The project was implemented in three phases:

1. Assistance with the organisation of a partners' network
2. Data harmonisation and standardisation:

definitions (data dictionary);

codification procedures and code updating;

computerised data exchange formats.

3. Application of standards to a specific topic with the implementation of an information system on surface water quality in Gdansk RZGW.

**The results obtained were as follows:**

• **The networking** of Polish administrative organisations that will have to exchange water data at the project completion (Water Agencies (RZGW), Ministry, Institute of Meteorology, Voidvoidship's Department of the Environment, Voidvoiship administration).

• **An information seminar on French experience** in water data management was organised in France and **addressed to Polish experts representing the network members**. It presented RNDE (National Water Data Network) and SANDRE (National Data and Reference Centre for Water).

• **Organisation of the first meetings of the Polish Data Managers' Group** (practical and technical organisation, identification of priority topics...).

• **Definition of a common language for information exchange:**

Elaboration of the conceptual model for data on ground water quality in Poland

Development of a data dictionary that defines concepts and the descriptive elements retained in the conceptual data model;

Development of reference frames and code lists.

• **Selection of a standard information exchange format, independent from the computerised equipment used** (namely POWER: Polish Water Exchange Reference):

Identification of the exchange format structure;

Definition of procedures and scenarios for exchanging information on surface water quality;

Definition of data exchange patterns. (see diagram)

- **Structuring of the Gdansk Water Agency database** dealing with surface water quality (development of data files and data acquisition models);

- **Implementation of data exchanges between the network members:**

Development of specifications for data transfer interfaces;

Adaptation of the interface software;

Testing of information exchanges between the Agency and its partners on a pilot basin: entering significant values of 30,230 parameters into the Agency's new database, which were measured by 64 gauging stations between 86/01/28 and 97/05/20 and stored in other administrations.

- **Beginning of data enhancement:**

Identification of the first data enhancement outputs (statistical analysis of the number of values per parameter, recorded by period, and per range of values, ...);

Development of the data processing software;

Application to the exchanged data.