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

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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.

