Organisational set-up for the water data management and electronic reporting in Romania

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Water data management organization and electronic reporting
Content

- Organisation and institutional framework for water data management in Romania

- Water Information Management System in Romania (WIMS)

- Experience in electronic reporting activities and lessons learned

- Development of WIMS
Informational flow for water management data in Romania

- **Ministry of Waters and Forests**
  - **EUROPEAN COMMISSION**
  - **EIONET (EEA)**
    - **ICPDR**
    - **UNECE UN SDG**

- **National level**
  - **National Administration Romanian Waters**
  - **11 Water Basin Administrations**
    - **42 Water Management Systems**

- **River Basin level**
  - **National Institute of Hydrology and Water Management**

- **Local level**
Policies and data management

INTEGRATED WATER RESOURCES MANAGEMENT

WATER FRAMEWORK DIRECTIVE and other EU quality Directives

FLOOD DIRECTIVE DROUGHTS Sectoral developments

WATER QUALITY

River Basin Management Plans

Flood Risk Management Plans River Basin Development Plans

WATER QUANTITY

Bottom-up
Data collection

Top-down
Policies, methodologies

monitoring, models

Dam, dyke monitoring, intervention center

International Projects

INFRASTRUCTURE INVESTMENTS Internal Fund, External Loans

INTERNATIONAL COOPERATION

Internal Fund, External Loans

International Projects

FLOOD DIRECTIVE DROUGHTS Sectoral developments

INTERNAL FUND

International Projects

INFRASTRUCTURE INVESTMENTS Internal Fund, External Loans
Reporting and dissemination of data

Water Information Management System (WIMS) contributes to fulfill the requirements related to:

- **Reporting obligations:**
  - European Commission – WISE reporting (WFD, FD, UWWTD, MSFD, Nitrate Directive, etc.)
  - EEA
  - ICPDR
  - UNECE

- **Internal use:**
  - emission controls
  - permit process
  - preparation of information for interested or general public

- **Public access:**
  - Ministry of Waters and Forests web-page (www.ape-paduri.ro)
  - NARW (including Water Basin Administrations) web-page (www.rowater.ro)
  - NIHWM web-page (www.inhga.ro/)
  - Articles, papers, synthesis, projects results.
Romanian contribution
to the ICPDR database

DanubeGIS platform:
• supports the ICPDR in its tasks related to spatial data and other information
• organises data collection and process information to serve to the elaboration of Danube basin–wide reports, plans
• sharing and exchange information and good practices
• is open to public users – providing access to data and maps for the whole Danube Basin, according to an agreed data policy
  • scientific community can use the information for research projects
  • interested/general public are able to access certain data and information.
WISE - WFD Reporting
Lessons learned

- Long time preparation and development for reporting process;
- Codification of all the elements is necessary;
- Collection and dissemination of data: top-down and bottom-up approach;
- National content database - integration and correlation with other international requirements;
- Developing, maintaining and updating process of database needs special resources (human, technical, informational);
- Streamlining of reporting and avoiding double reporting;
- Connection of relevant databases: database on emissions, SIIF-UWWTD;
- Correlation with key aspects from other domains (MSFD, FD, Habitats and Birds Directives, INSPIRE, etc.);
- Development of QA/QC tools.
Main difficulties:

- data collection from local level and stakeholders;

- to understand the reporting requirements: gml formats, some INSPIRE requirements, etc.;

- to ensure the integrative approach (ex. RBMP_FRMP, Habitats and Species Directives)
Continuous and sustainable development of the water data management

- Improvement and development of WIMS
- Assuring the stability of the system (data feeding, human and informational resources)
- Development an integrated connection with the national INSPIRE database, SIIF-UWWTD, other environmental data
- Assuring the compliance with the requirements of the INSPIRE Directive

INSPIRE: Theme 1.8 – Hydrography:
- started necessary steps to develop the infrastructure (Web Geoportal)
- created Metadata and Spatial Data files.
THANK YOU !