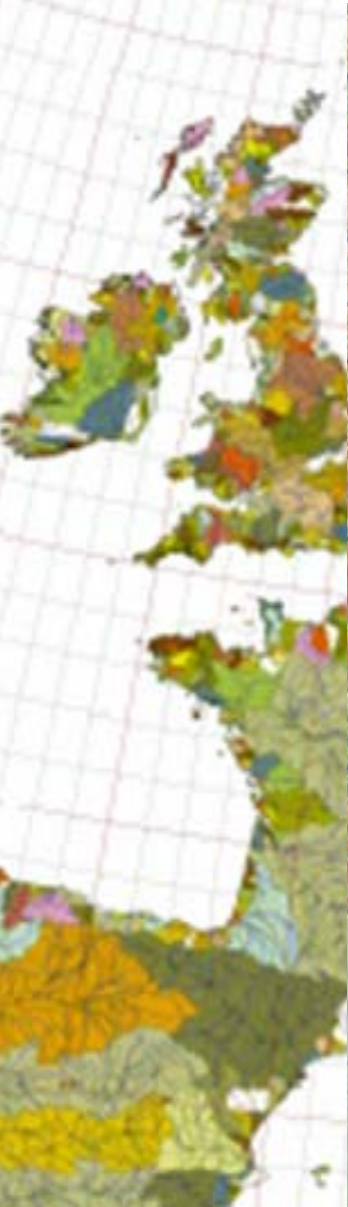
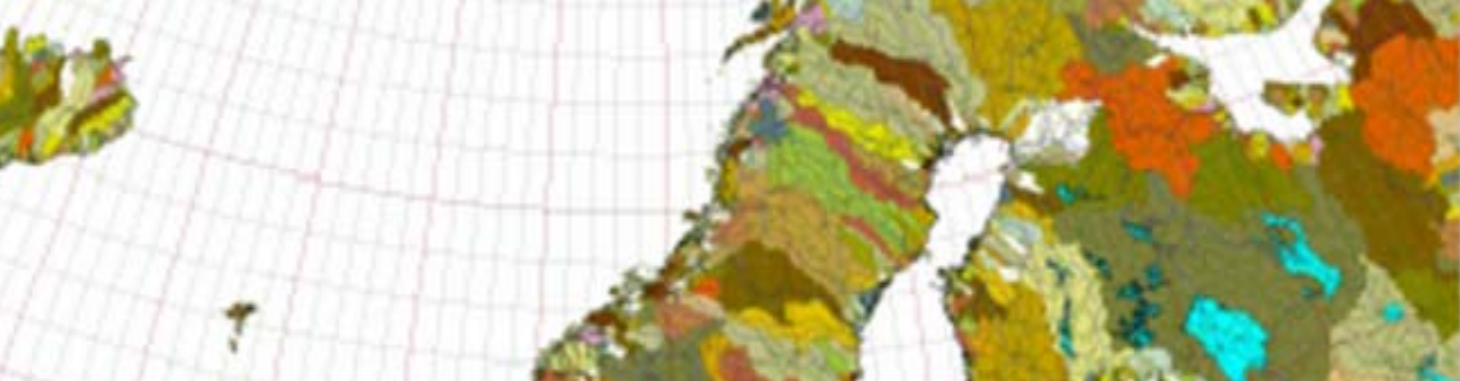


**IMPLEMENTATION OF THE WATER
FRAMEWORK DIRECTIVE 2000/60/EC
AND OF NEW DIRECTIVE 2006/118/EC
ON GROUNDWATER PROTECTION IN
ROMANIA**



**ROMANIA AND
BULGARIA JOIN
EU – 1.01.2007**



plan and a programme of measures for the International Danube River Basin – till 2009



Danube River Basin: 18 countries(13);

Sofia Convention 1994

icpdr

International
Commission
for the Protection
of the Danube River

iksd

Internationale
Kommission
zum Schutz
der Donau

BILATERAL COOPERATION

- Romania has bilateral agreements in the field of water management with all its neighboring countries: Hungary, Serbia-Montenegro, Bulgaria, Moldova, Ukraine.

- Activities:

- up-dating the bilateral agreements with neighbouring countries; e. g.: Romania and Hungary has updated the agreement in order to meet the requirements of the Water Framework Directive.
- harmonization of activities from the River Basin Management Plan for transboundary rivers regarding typology, water bodies, monitoring, etc;

NATIONAL EFFORTS

- Romania prepared and sent to EC the WFD

Art. 5 National Report containing:

- identification, deliniation and characterisation of all water bodies

- economic analisys of water use

- Romania revised and up-graded the Hydrological and Hydrogeological National Network according to the WFD requirements

- the Report on Monitoring System and

Activities will be sent to EC in March 2007

PHARE PROJECTS

- **Ecologisation of Danube River and transport facility:**

- Components:
 - Self-propelled depollution ship
 - Danube River water quality monitoring equipment
- Period: 2000 - 2004
- Budget: 3.73 mil. Euro (of which 2.8 mil. Euro from PHARE)

- **Integrated monitoring of Black Sea between Midia and Vama Veche:**

- Components:
 - Endowment of laboratory equipment
 - Endowment of speed boat for intervention in case of accidental pollution
- Period: 2001 - 2004
- Budget: 2.87 mil. Euro (of which 2.2 mil. Euro from PHARE)

- **Implementation of the new Water Framework Directive on pilot basins:**

- Components:
 - Procurement of monitoring equipment
 - Technical assistance for implementation of WFD on 2 pilot river basins
Somes si Arges
- Period: 2001 – 2005
- Budget: 2.65 mil. Euro (of which 1.3 mil. Euro from PHARE)

- **Integrated management of transboundary groundwater in Dobrogea Area –on going project**

- **Development of a pilot River Basin Management Plan- Ialomita-Buzau Water District –on going project**

and Risk Assessment of Romania's Water Bodies (1)

Hydrogeological Map of Romania is reflecting groundwater bodies main typologies:

1. In the Romanian and Western Plains, Moldavian Platform and main rivers alluvial deposits – porous granular typology;
2. In Carpathian Mountains and Southern Dobrogea – fissural karstic typology.

In spite of the complex Hydrogeological Structure of the Romanian territory, we succeeded to limit the total number of gw bodies at 131, from which 20 at risk and 19 transboundary, allocated to the River Basin Districts on the predominant water abstraction principle

and Risk Assessment of Romania's Water Bodies (2)

- 32 (28) typologies for surface water courses;

| | Surface Water Bodies | Deliniated | HMWB | Water bodies at risk |
|---|----------------------|------------|------|----------------------|
| • | Inland rivers | 3717(2347) | 413 | 651 |
| • | Transitional | 6 | 1 | 3 |
| • | Coastal | 3 | 1 | 3 |

Outline of the Danube RBM Plan

1. Significant pressures and impacts of human activity
2. Identification and mapping of protected areas
3. **Monitoring networks and monitoring results**
4. **Environmental objectives and exemptions**
5. Characteristics of the river basin district
6. Economic analysis of water use
7. **Programme of measures**
8. **Register of more detailed programmes and management plans**
9. Public information and consultation measures incl. results
10. List of competent authorities
11. Contact points for obtaining background documentation

8. Register of more detailed programmes and management plans

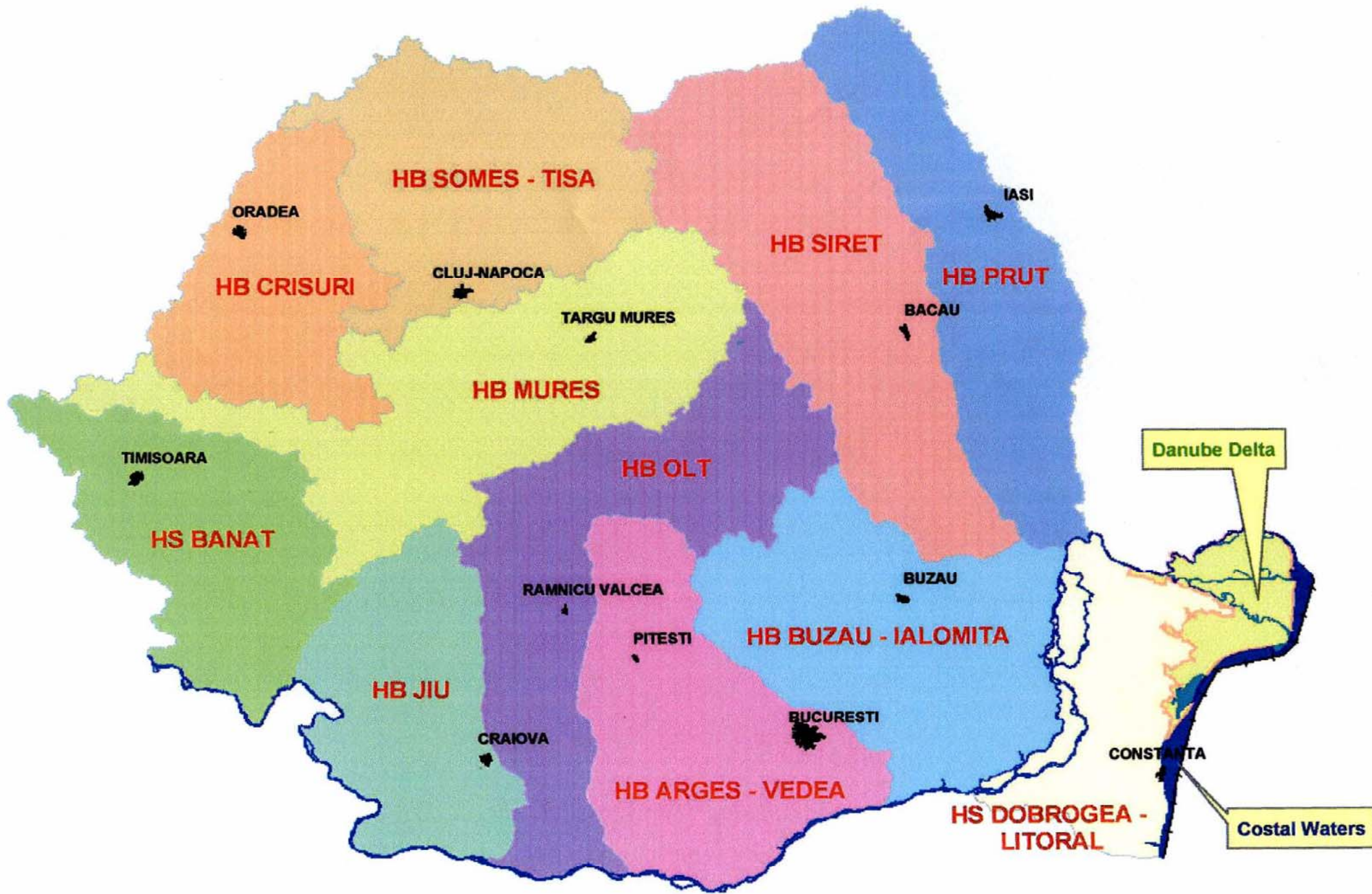
1. Sub-basin management plans (transboundary waters)

- Tisza River Basin (SK, UA, RO, HU and CS)
- Sava River Basin (SI, HR, BA and CS)
- Prut River Basin (RO, MD and UA)
- Danube Delta (RO and UA)
- Dobrogea Groundwaters (RO and BG)

8. Register of more detailed programmes and management plans(II)

2. National management plans

- Germany
- Austria
- Czech Republic
- Slovak Republic
- Hungary
- Slovenia
- Croatia
- Bulgaria
- Romania



River sub-basins/sub-units for the elaboration of the Management Plans

WATER RESOURCES

| Resource category | Theoretically | Usable | Water supplied in 2005 (Billion cubic m.) |
|-------------------|---------------|--------|---|
| • Inland rivers | 42 | 25 | 7,2 |
| • Danube river | 87 | 30 | 7,2 |
| • Groundwater | 11 | 6 | 1,6 |
| • TOTAL | 140 | 61 | 16 |

Romania is relatively poor in water resources, disposing of only 1,870 cubic meters of water/inhabitant/year, compared with 4,000 cubic meters of water/inhabitant/year in Europe

Main problem is not water scarcity, but pollution

PROTECTION AGAINST POLLUTION BY CERTAIN DANGEROUS SUBSTANCES IMPLEMENTATION

- Inventory of direct discharges in very deep geological strata, authorized in accordance with the provisions of Art. 20, par. (2) of Water Law no. 107/1996, including the revision of the studies based on which the licenses are issued;
- Inventory of indirect discharges from economic units that are using, tipping and storing the dangerous substances laid down in Lists I and II.
- Inventory of all re-injections into the same aquifers of water used for geothermal purposes, of water from oil drillings and of water pumped out of mines.
- Up-dating of the whole inventory of existing hydro-geological drillings, accompanied by the identification of the present owners. Following this step, the appropriate

PROTECTION OF GROUNDWATER AGAINST POLLUTION AND DETERIORATION

- Establishes specific measures to prevent and control groundwater pollution responding to Article 17(1) and (2) of WFD, in particular:
 - Criteria for the assessment of good chemical status
 - Criteria for the identification and reversal of significant and sustained upward trends and the definition of starting points for trend reversals
- Complements prevent/limit provisions of pollutants inputs contained in WFD and aims to prevent the deterioration of status of all bodies of groundwater

IMPLEMENTATION OF DIRECTIVE 2006/118/EC

- **Transposition** by Governmental Decision till 1st of September 2007
- **Implementation** - 1st of January 2009
 - Initial study on threshold values establishment – National Institute for Environmental Engineering -2005
 - Final study on Directive 2006/118/EC implementation – 2007
 - Threshold values for groundwater in Romania – officially established till 22 December 2008 and reported to EC

OBTAINED RESULTS–TEAM EFFORTS

- **Ministry of Environment and Water Management – Directorate for Water Resources Management**
- **National Administration “ROMANIAN WATERS” and its 11 Water Directorates**
- **National Institute of Hydrology and Water Management (NIHWM)**



Thank you for attention!