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Programme of measures in the Romanian River Basin Management Plans

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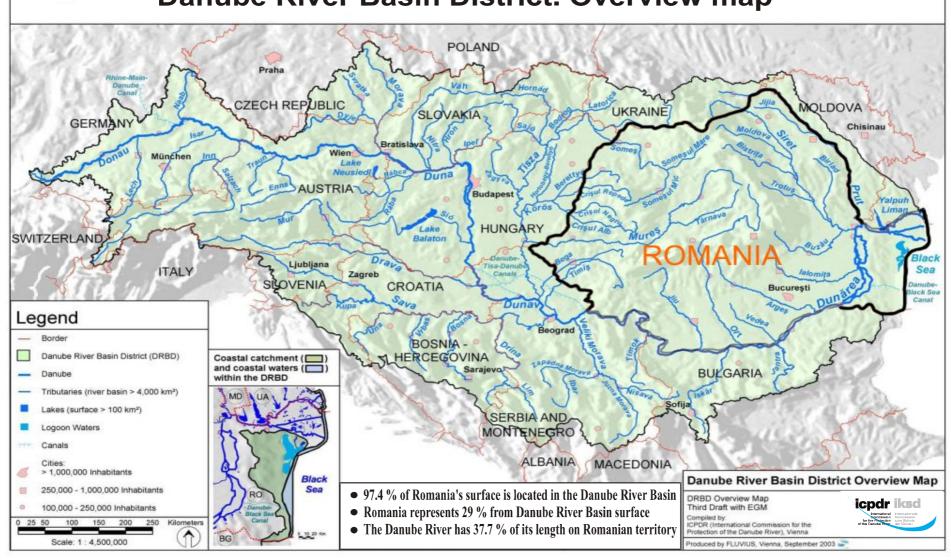
WFD IMPLEMENTATION IN ROMANIA

"Member States shall ensure the appropriate administrative arrangements, including the identification of the appropriate competent authority, for the application of the rules of this Directive within each River Basin District lying within their territory" (Art. 3)

- The Ministry of Environment and Sustainable Development is the national competent authority for WFD strategic implementation in Romania (Law 310/2004)
- The National Administration "Romanian Waters" represents the competent authority for the WFD implementation in Romania through elaboration of River Basin Management Plans
- Setting up of European Integration Department at level of National Administration "Romanian Waters" and EU Directives implementing bureaus at level of its branches

Towards the Programme of Measures Present Situation in Romania

Danube River Basin District. Overview map



Towards the Programme of Measures Present Situation in Romania



Planning units for implementation of River Basin Management Plans

Elaboration of River Basin Management Plans

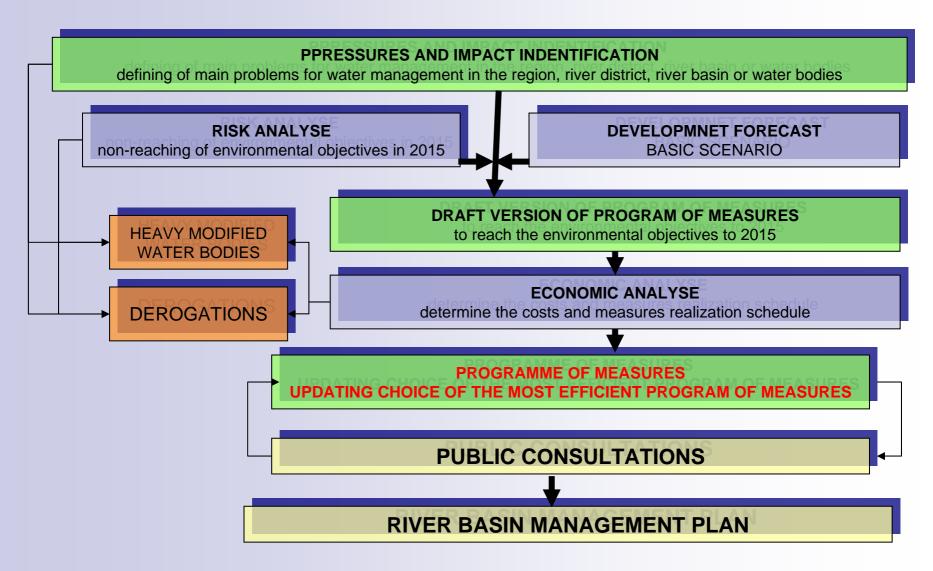
- Description of the review characteristics of the River Basin District
- Review of significant pressures and their impact assessment on water resources
- Integrated water monitoring
- Setting the preliminary register of protected areas
- Economic analysis of water use and water users
- Developing the environment objectives
- Preliminary Programme of Measures
- Setting the draf of River Basin Management Plan
- > Public information and consultation (6 luni)
- Finalizing of RBMP, including case by case the recommandations / observations of stakeholders
- Final version of RBMP
- Analysis of implementation status and review of POM
- Reaching water good status

2009

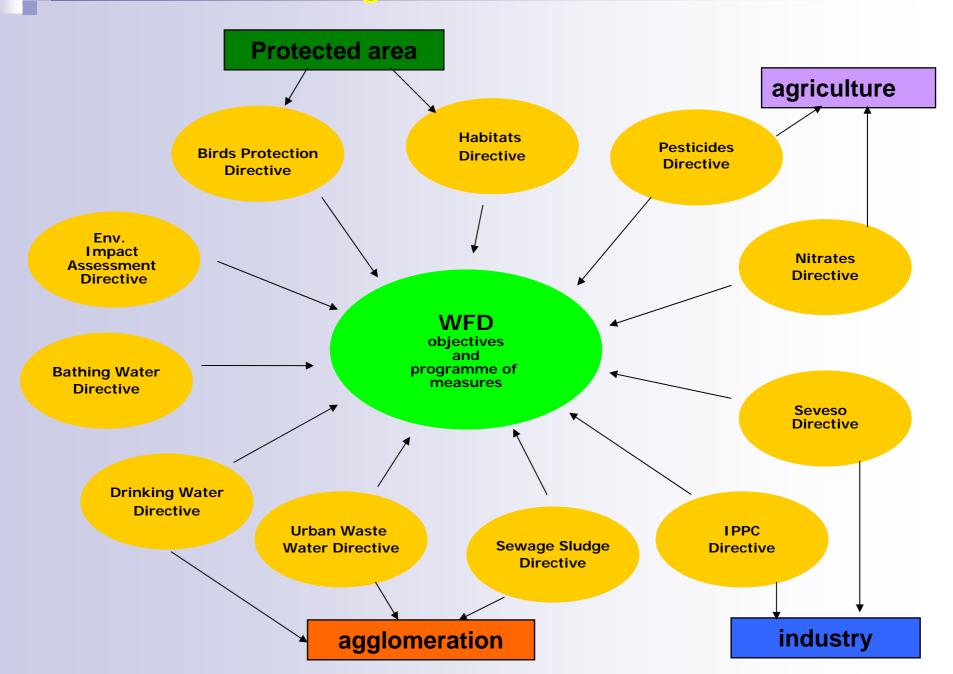


2012

Programme of measures process



One Coherent Management Frame

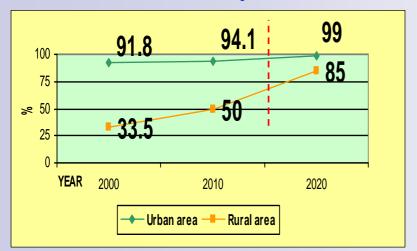


Basic measures for reducing the chemical pressures from urban agglomerations

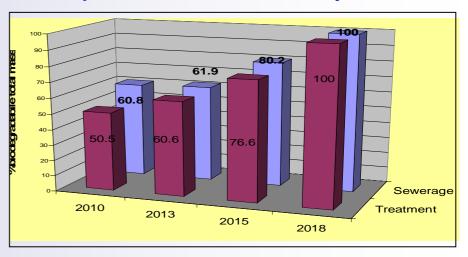
Implementation planning

European directive	Transitional period	Costs (bil. EURO)
Drinking Water Directive 98/83/EC	2015	5.6
Urban Waste Water Treatment Directive 91/271/EEC and Sewage Sludge Directive 86/278/EEC	2018	9.5

Trend for connection rate of population to the water systems



Trend of connection rate of population equivalent to the wastewater systems



Strategies for developing the water and wastewater infrastructure systems

- Measures according to the national legislation which implement the European Directives ("COMPLEMENTARY POSITION PAPER OF ROMANIA CHAPTER 22- ENVIRONMENT (CONF-RO 52/04), Brussels 24 November 2004
- Priorities according to national, regional and local politics
 - Governmental Programmes for development of municipal water and environmental infrastructure 2006-2009 that include priority investments according to the National Plans for the Implementation of the Acquis
 - National Stategic Reference Framework 2007-2013;
 - ➤ Sectorial Operational Programme for Environment 2007 2013, Priority Axis 1 "Extension and modernization of water and wastewater systems (3,27 bil. Euro with 85% UE grant)
 - National Rural Development Programme 2007–2013
 - National Strategy for water management;
 - National Strategy for sustainable development of public services for water and wastewater infrastructure systems(2005-2025)
- Developing and implementing projects finnaced by international organisation (EU, ISPA, MUDP, SAMTID, SAPARD, World Bank programmes) and public private partnerships

Basic measures for water and waste water systems

- Construction/modernization of water sources intended for drinking water abstraction;
- Construction/rehabilitation of water treatment plants;
- Extension/rehabilitation of water and sewerage networks;
- Construction/upgrading of wastewater treatment plants;
- Construction/rehabilitation of sludge treatment facilities;
- Metering, laboratory equipment, leakage detection equipment, etc.;
- Technical assistance for project preparation (including tender documents), management and publicity (including public awareness), institutional governance improvement.





Basic measures for reducing the pressures from industrial activities

Strategic documents for industry sectors

- National Development Plan 2007 2013
 - Prioritisation tool of public investments for social and economic development (Priority axysis 3 "Protection and improvement of environment quality")
 - Financing plan: 58,7 bld. Euro (43% EU, national budget 48%, 9% private)
 - > Financing sources:
 - Structural Funds (CF, FDER);
 - Public funds from national budget for each specific industrial sector
 - National and international loans (BEI, BERD, etc.)

Sectoral Operational Programme "INCREASE OF ECONOMIC COMPETITIVENESS"

- Consolidation and environment-friendly development of the Romanian productive sector and establishment of a favourable environment for sustainable enterprises' development
- > Financing plan: 2,554 bil. Euro

Category of basic measures

Water Abstraction – Sewerage - Treatment

- Implementing an automatic system for monitoring of abstracted water flow
- Building the separativ system for collecting/treatment of meteoric waters
- Improvment of pre-treatment plant for waste water from technologic proceses
- Upgrading/rehabilitation of water treatment plants;
- Meetering of laboratory and monitoring of waste waters discharged into water resources
- Implementing an automatic system for monitoring of waste waters discharged into water resources

Upgrading the production technologies (clean technologies and BATs)

- Reducing the loosing of hazardous substances into water
- Upgrating the technologies (environment friendly)
- Recirculating / recovery of substances
- Rehabilitation of cooling water instalations and increasing of internal recirculation rate of technologic waters

Waste management

improvment / building landfill



Accidental polutions

Basic measures for reducing the pressure efects from agriculture Nitrate Directive 91/676/EEC –GD 964/2000

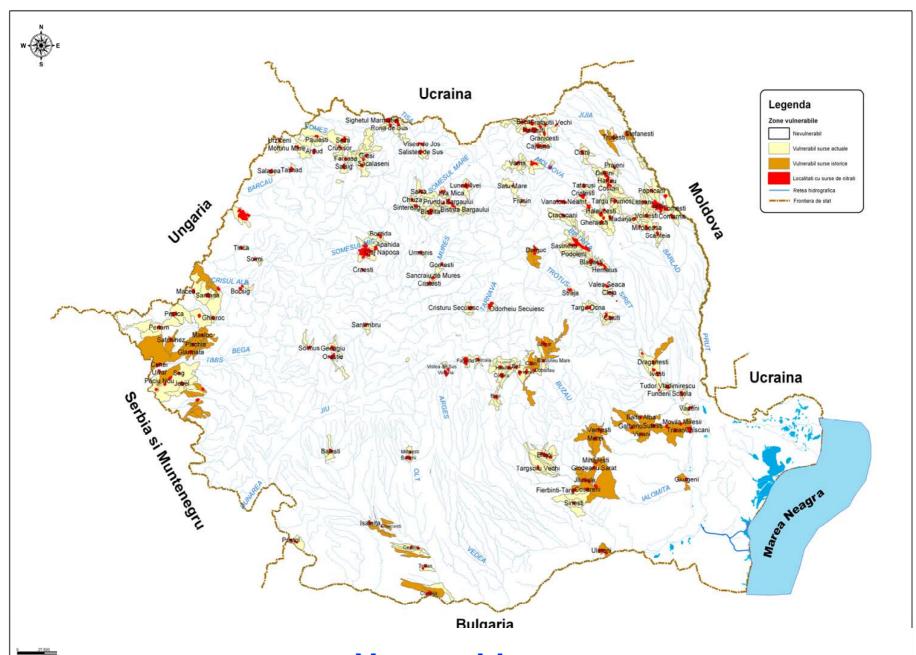
 Objective: reducing or prevention of water polution due to the nitrats from agriculture

Requirments:

- Identification of vulnerable areas
- Setting up the Good Agriculture Practice (annex II)
- Establishing the action plans for vulnerable areas (anexa III)
- Requirements for monitoring

Measure for:

- Point sources (animal breeding units)
- Diffuse sources (application of chemical fertilisers and manure, pesticides)



Vurnerable areas

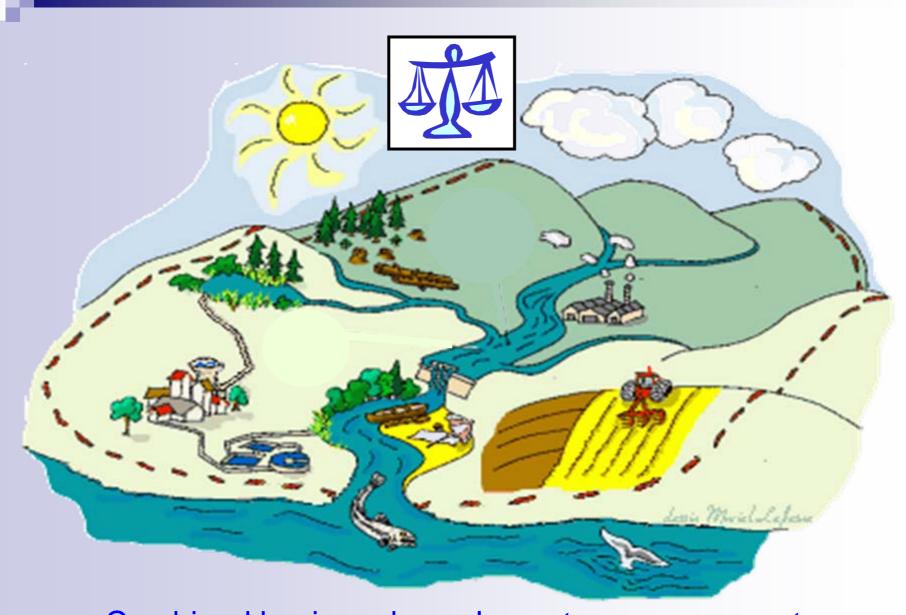
Example of basic measures

Animal breeding units :

- Building / Upgrading / Extension / Rehabilitation of WWTP (even tertiary step and desinfection for discharges into water resources);
- Building / / Impermeabilizing of storage reservoirs for waste waters / treated waste water and using them for washing and/or irrigation;
- Building/rehabilitation of sludge storage platforms from WWTP;
- Building platforms for manure storage (dry manure system) for application during indicated periods;
- Application of existing BATs under requirments of IPPC Directive.

Diffuse sources:

- Application of specific action plans for each commune located in the vulnerable areas (including the Good Agriculture Practices);
- Reducing the risk from handling and stocking of pesticides;
- Measures for authorizing, notification, homologation and other measures for handling of pesticides.

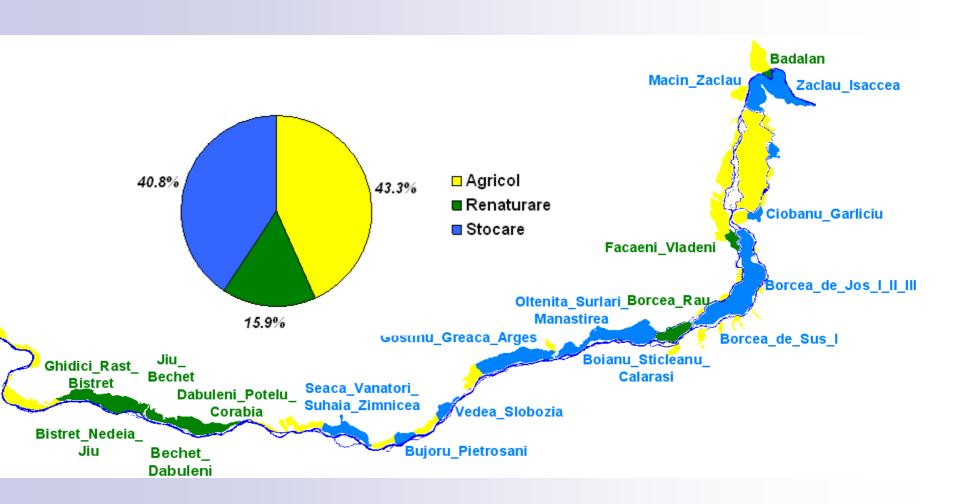


Combined basic and supplementary measures at the river basin scale

Measures for reducing the hidromorphological alterations

- National strategy for drought and flood defense;
- River basin planning (under quantitative aspects);
- Ministry Order no. 1163/2007 concerning approval of measures for improvement of technical design solutions and realising the hydrotechnical works for watershed, in order to reach the environmental objectives for water bodies (including technical norm NTHL-01 for application)
- The project "Ecologic and economic redimensioning of Romanian Danube plain " (2008-2010)
- Measures resulting from designation test of HMWB (according to WFD Common Implementation Strategy, Guidance on the identification and designation of the heavily modified and artificial water bodies)
 - Ex. Restoration of rivers and wetlands
 - assure longitudinal and lateral river continuity (reducing of hydromorphological pressures, reconstruction of weirs; construct fish passes/ bypasses)
 - giving space to the river (ex. land aquisition, restoration of dead branches)
 - ecological river development concepts

Study "Ecological and Economical Re-dimensioning of Romanian Sector of Lower Danube"



Catalogue of protected areas (Art. 6)

- Areas designated for the abstraction of water intended for human consumption under Article 7;
- Areas designated for the protection of economically significant aquatic species;
- Areas designated for the protection of habitats or species where water is an important factor in their protection (including relevant Natura 2000 sites)
- Areas designated as Vulnerable Zones under Directive 91/676/EEC
- Areas designated as bathing waters under Directive 76/160/EEC;

Register of protected areas is in process of elaboration for river basin level and national levels.

Cost recovery (art. 9)

Member States shall:

- Take account of the principle of recovery of the costs of water services
- Assurance till 2010:
- Incentives water pricing policies for users to use water resources efficiently, and thereby contribute to the reaching of environmental objectives
- an adequate contribution of the different water uses, disaggregated into at least industry, households and agriculture, to the recovery of the costs of water services, based on the economic analysis conducted according to Annex III and taking account of the polluter pays principle.

Estimated trend for affordability ratio

