

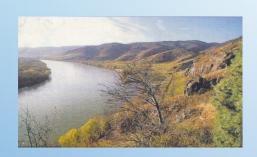
National Administration "Apele Române"

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Implementation of the water Directives in Romania

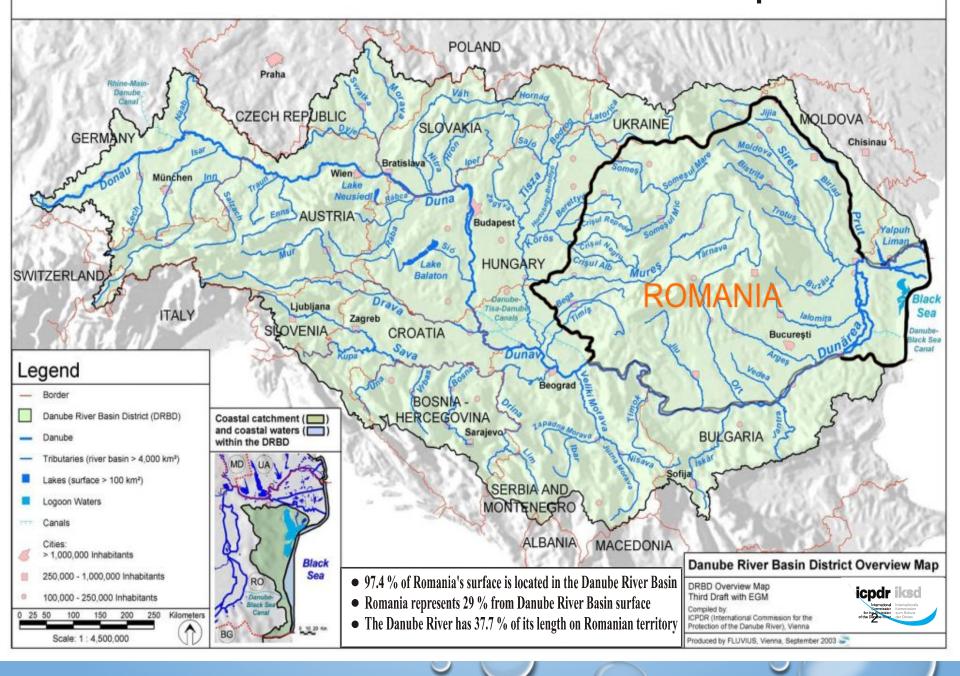


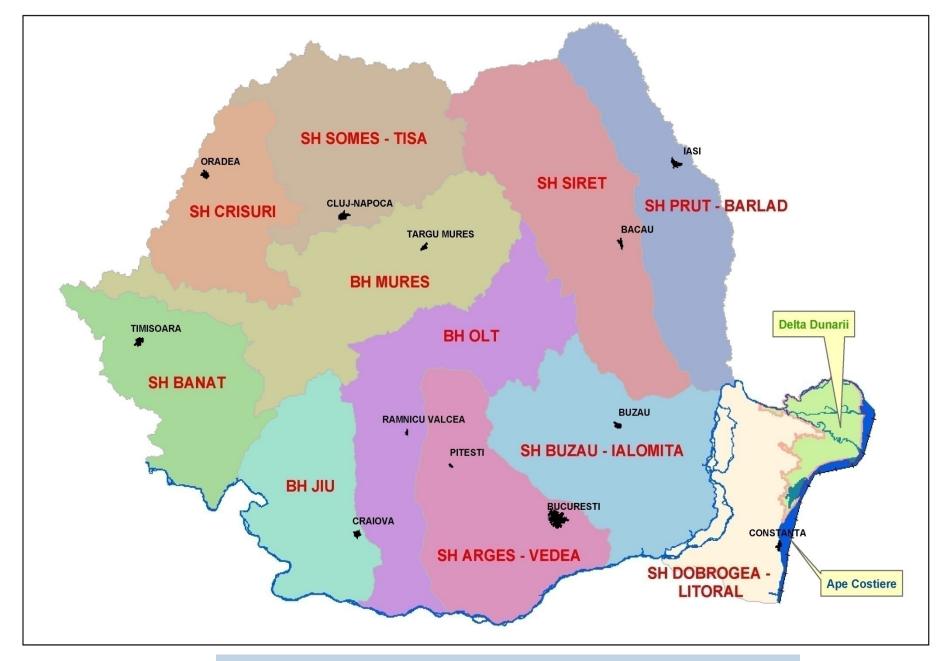




Mrs. Elena TUCHIU, Director of Management Plan Department National Administration "Apele Romane", Romania

Danube River Basin District. Overview map





River basins /sub-units in Romania

Implementation of WFD in Romania

- Legal: Water Law 107/1996
- amended and completed by the Law 310/2004, Law 112/2006, OUG 3/2010, Law 146/2010 for transposition of the Water Framework Directive 2000/60/EC and of the Floods Directive 2007/60/EC

> Organizatorical:

- Ministry of Environment and Climate Change, Department of Water, Forests and Fisheries
- → National Administration "Apele Romane"
 - → 11 River Basin Administrations
 - → National Institute for Hydrology and Water Management (INHGA)
- Consultative : River Basin Committees
- > Tehnical:
 - Elaboration and implementation of guidelines, studies, research, training
 - ➡ Endowment with hardware and software for GIS, database and with lab devices for ensuring monitoring
 - Participation in international projects
 - Participation at international, European, basinal and bilateral activities

WATER RESOURCES PLANNING

SCHEME OF DEVELOPMENT AND MANAGEMENT

- components-





RIVER BASIN MANAGEMENT PLAN (RBMP)

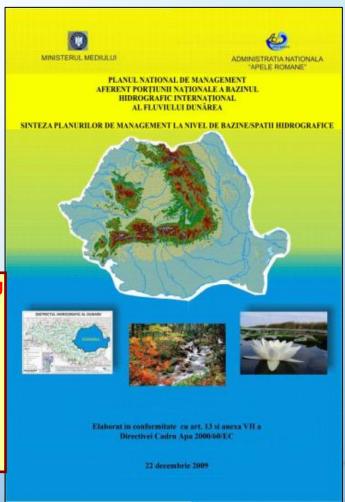
RIVER BASIN MANAGEMENT PLAN

GOAL and OBJECTIVES

Setting of measures, actions, solutions and works for protection of surface and ground waters through:

- prevention of further deterioration and reaching and maintaining of good status of aquatic ecosystems
- promotion of sustainable water use
- progressive reduction of pollution from priority substances and ceasing out of discharges, emissions and losses of priority hazardous substances
- progressive reduction of groundwater pollution and further
- pollution prevention

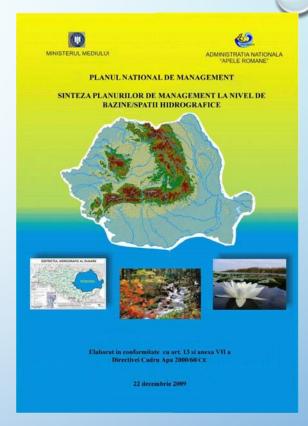




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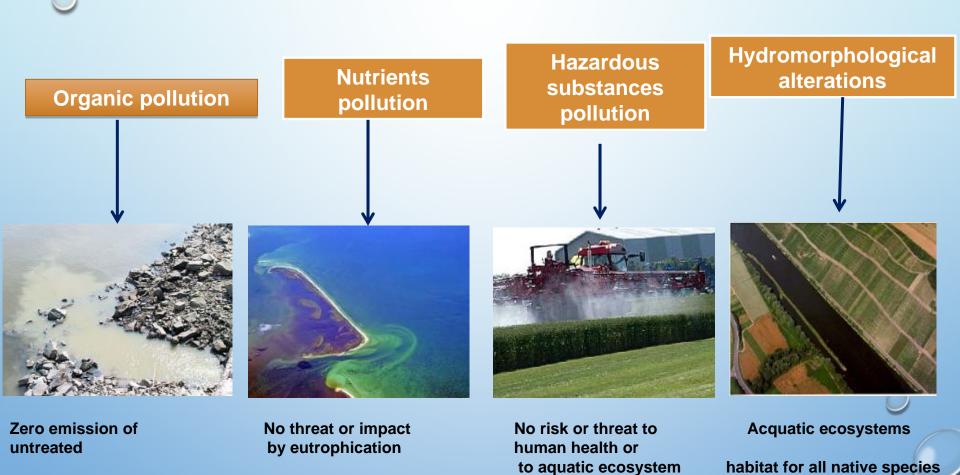
The main steps through WFD implementation

- ✓ National management plan the synthesis at the national level of 11 river basin management plans (RBMPs)
- Elaboration at 22 December 2009
- RBMPs were presented, discussed and approved in the river basin committees
- Reporting to European Commission at 22 march 2010
- ✓ Approved through governmental decision 80/2011 after SEA procedure
- ✓ Elaboration and reporting to the EC of the interim report on POM implementation 2012
- ✓ Update of characteristics of the river basins, review of the environmental impact of human activity and economic analysis of water uses (art. 5 of WFD) 2013

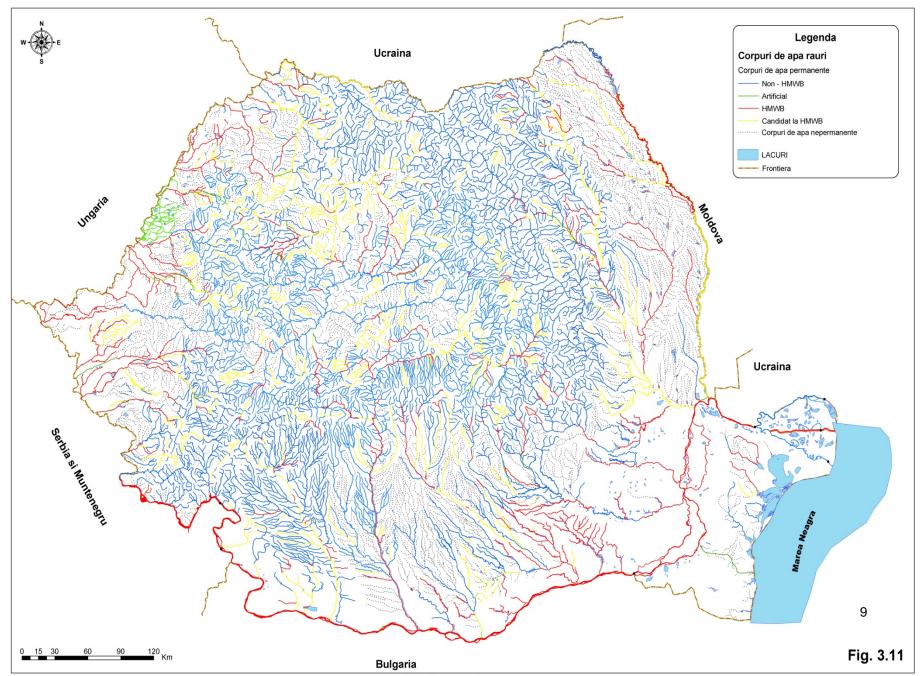


- ✓ Interim overview of significant water management issues at the river basin level (22.12. 2013 22.06. 2014) public consultation process!
- ✓ current and next steps 2014 2016: Elaboration, approval and reporting of the second River Basin Management Plans and of the second National Management Plan

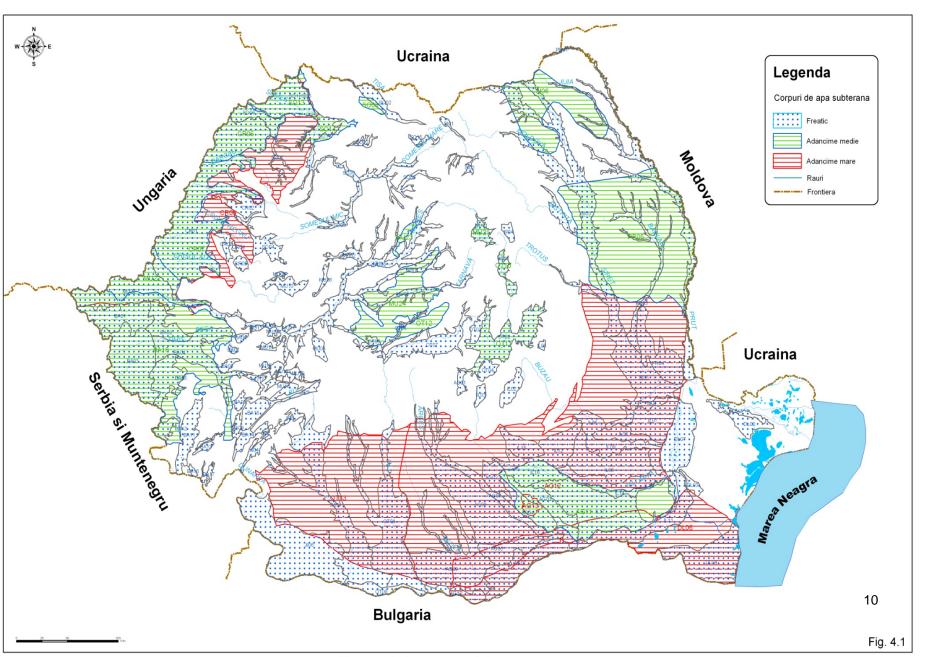
SIGNIFICANT WATER MANAGEMENT ISSUES IN THE DRBD AND AT THE NATIONAL LEVEL



wastewaters



Corpurile de apa de suprafata



Corpuri de apa subterana

PROGRAM OF MEASURES

Categories of pressures:

- Agglomerations
- Agricultural activities
- Industrial activities
- Hidromorphological alterations

⇒BASIC MEASURES:

- ⇒ WFD Art. 11/3 and Annex VI part A
 - UWWT-Directive
 - Nitrates Directive etc

⇒SUPPLEMENTARY MEASURES:

- set of **additional** measures to reach the environmental objectives
- ⇒ WFD Art. 11.4 and Annex VI part B
 - > Legislative, administrative, economic instruments
 - educational projects, research etc.
- ➤ Total costs 2010-2027 around 21 billions Euro

Basic measures for human agglomerations

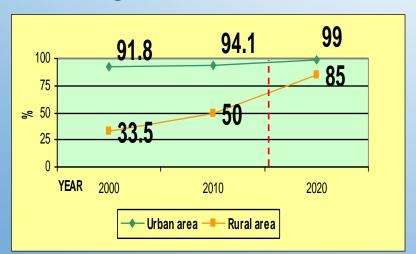
- ✓ RO is a sensitive area more advanced wastewater treatment for nutrients for all agglomerations above 10,000 p.e.
 - ✓ Compliance deadlines:
 - agglomerations above 10,000 p.e. by 2013 for wastewaters collection and 2015 for advanced wastewater treatment;
 - agglomerations 2000 -10000 p.e. by 2018 for wastewaters collection and secondary treatment
 - ✓ Basic measures are generally:
 - Works for extension/construction of sewerage network, for extension/construction of UWWTPs with secondary and advanced treatment (nutrients removal) and sludge management.

Basic measures for human aglomerations

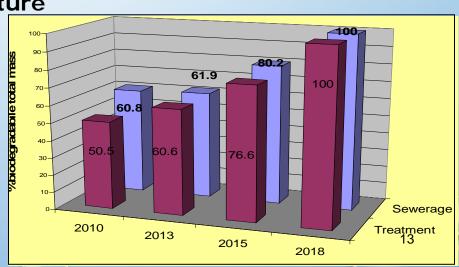
IMPLEMENTATION PERIOD

EU Directive	Transition period	Associated costs (billion EURO)
Drinking Water Directive 98/83	2015	5.6
Waste Water Directive 91/271	2018	12,8

Connecting rate to water infrastructure



Water supply infrastructure



Waste water infrastructure

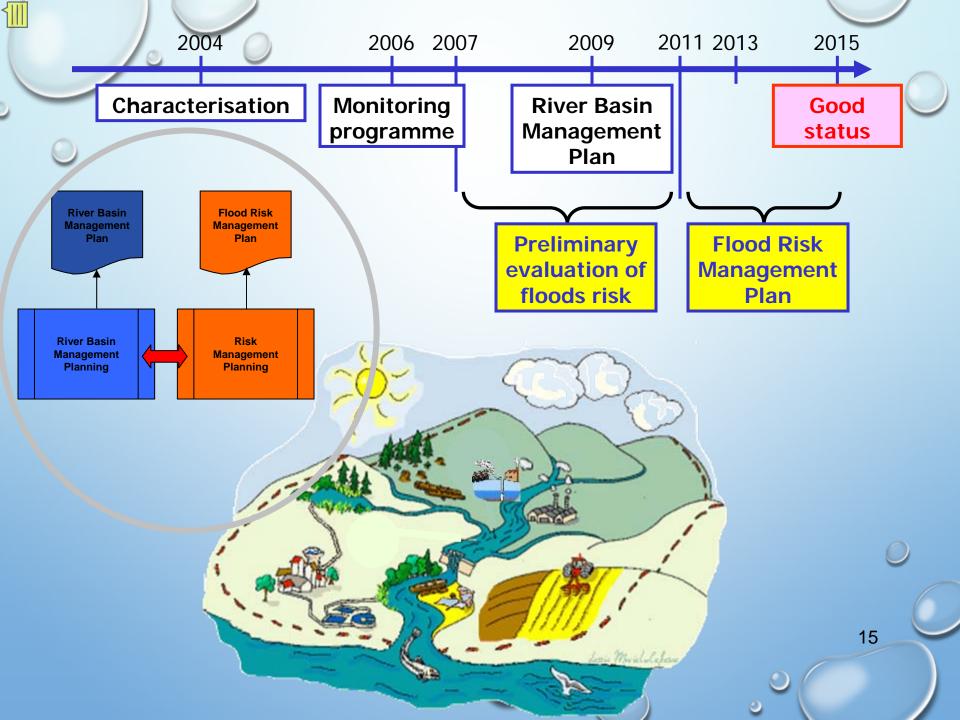
Basic measures for agriculture (Nitrate Directive)

✓ NVZs were designated in 2005 - 6.94% of country surface and then revised in 2008 and enlarged - 58% of the surface. Since June 2013, whole territory approach is applied



Measures generally refer to:

- -implementation of the provisions of Good Agriculture Practices Code and APs
- -construction of manure storage and waste water storage facilities
- construction/upgrading waste water treatment plants
- implementation of BAT



FLOODS RISK MANAGEMENT LEGAL FRAMEWORK AND IMPLEMENTATION STEPS

- Directive 2007/60/EC (Floods Directive) transposed into the national legislation (Water Law 107/1996 with further amendments)
- **National Strategy for Flood Risk Management on medium and long term**(G.D. 846/2010)



- 1) PRELIMINARY FLOOD RISK ASSESSMENT 22.03.2012
- 2) FLOOD HAZARD AND RISK MAPS 22.03.2014
- 3) FLOOD RISK MANAGEMENT PLAN 22.12.2015

FLOOD RISK AND FLOOD RISK REDUCTION IN CLIMATE CHANGE CONTEXT

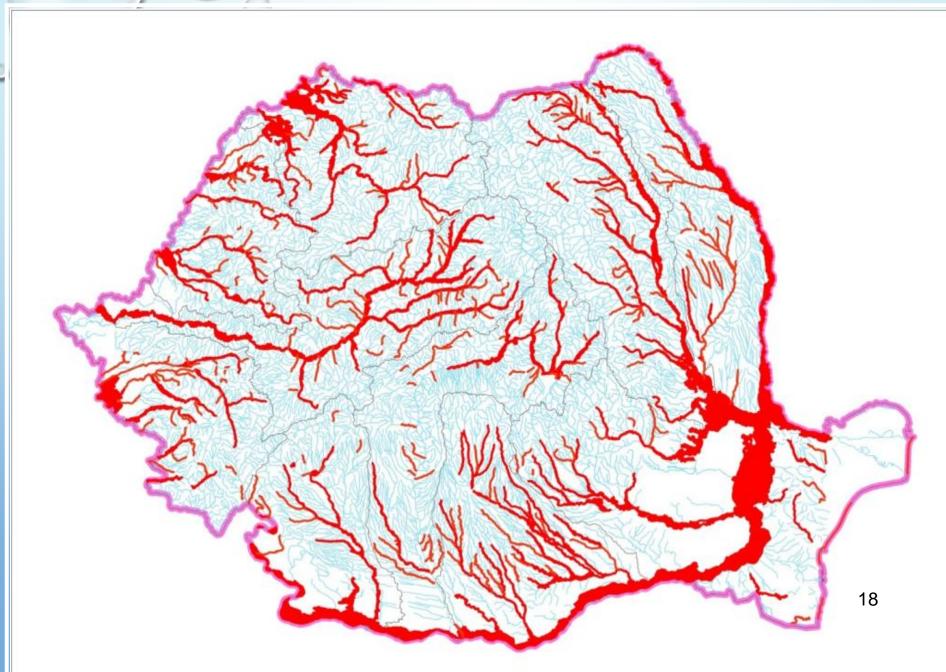
National Strategy for Flood Risk Management: general framework for objectives and measures

River Basin Development Plan (STRATEGIC PLAN for QUANTITATIVE Water Management issues including FLOODS) Floods Defense Plans at the locality, county and river basin level

-adress to operative measures, before, during and after floods

National Plan for Floods Protection, Prevention and Mitigation (PROJECT having as result hazard and risk maps and FLOOD MEASURES PLANNING)

POTENTIAL SIGNIFICANT FLOOD RISK AREAS



TIMETABLE OF THE WFD AND MSFD

WFD (2000) Water Law 107/1996 s.a.		MSFD (2008) GO no 71/2010, Law 6/2011		
River Basin Management Plans (1st cycle in 2009)		National marine strategy		
6 year reporting cycle		6 year reporting cycle		
Analysis of the characteristics of the RBD,		Initial assessment (characteristics,		
pressures and impacts and economic analysis		pressures/impact, socio-economic analysis),		
of water use		determination of GEnS, environmental targets		
2004, 2013		2012		
(and each 6 years thereafter)		(and each 6 years thereafter)		
Monitoring		Monitoring		
2006		2014 ("Technical and administrative support for the joint implementation of the MSFD in Bulgaria and Romania")		
Measures		Measures		
2009/2012		2015/2016		
	2015 (and each 6 years thereafter)		(and each 6 years thereafter)	
GS/GP + prevent deterioration + progressive		GEnS		
reduction and phasir		2020	0	

