

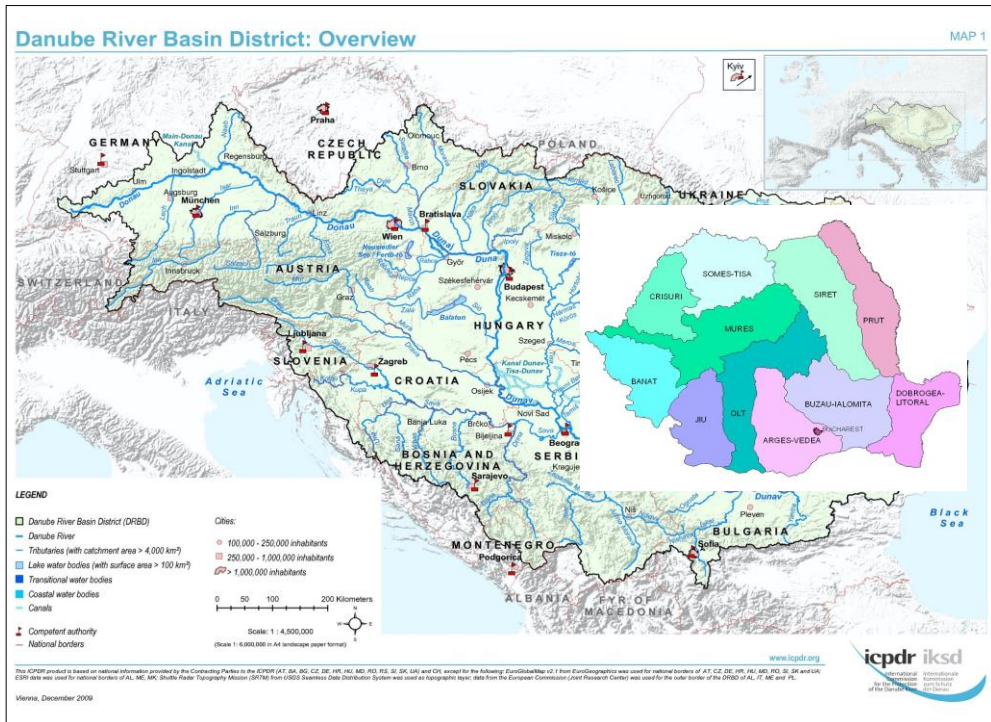
Development of the River Basin Management Plan at the regional, national and international level Case study: Romania

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Director
Ministry of Environment, Water and Forests

ECRAN Multi-beneficiary Workshop, Tirana, 20-22 June 2016

Districul Hidrografic al Dunării

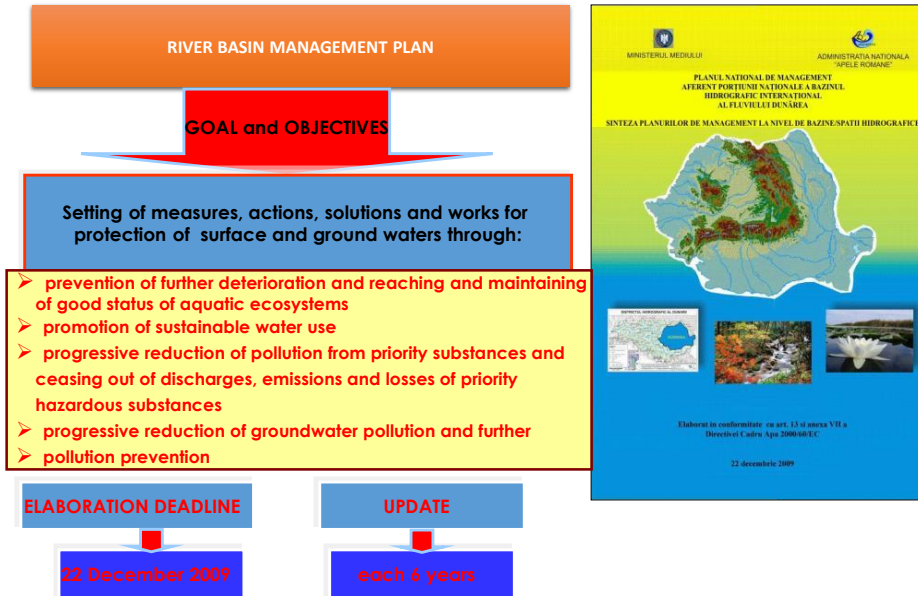




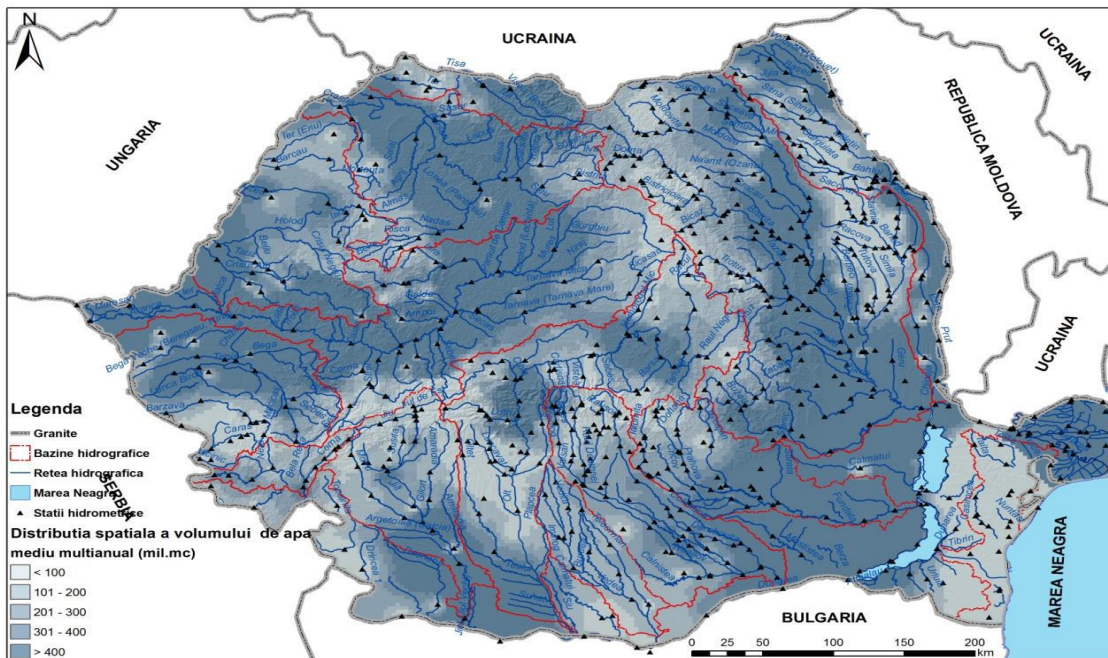
Implementation of WFD in Romania

- **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
- **Organizational:**
 - ◆ 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

RIVER BASIN MANAGEMENT PLAN (RBMP)



5

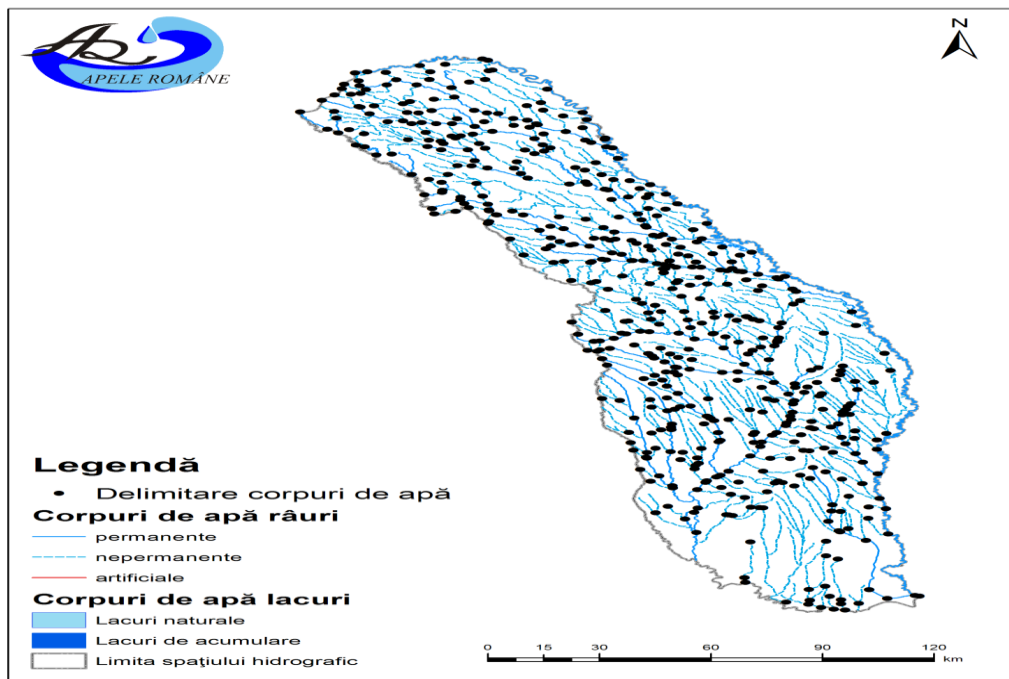
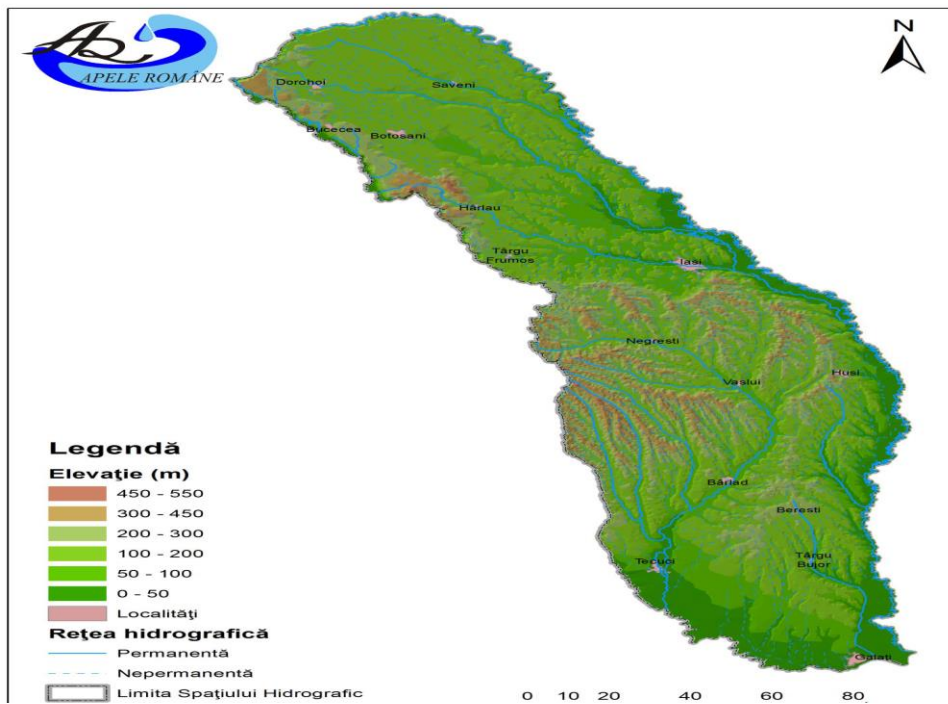


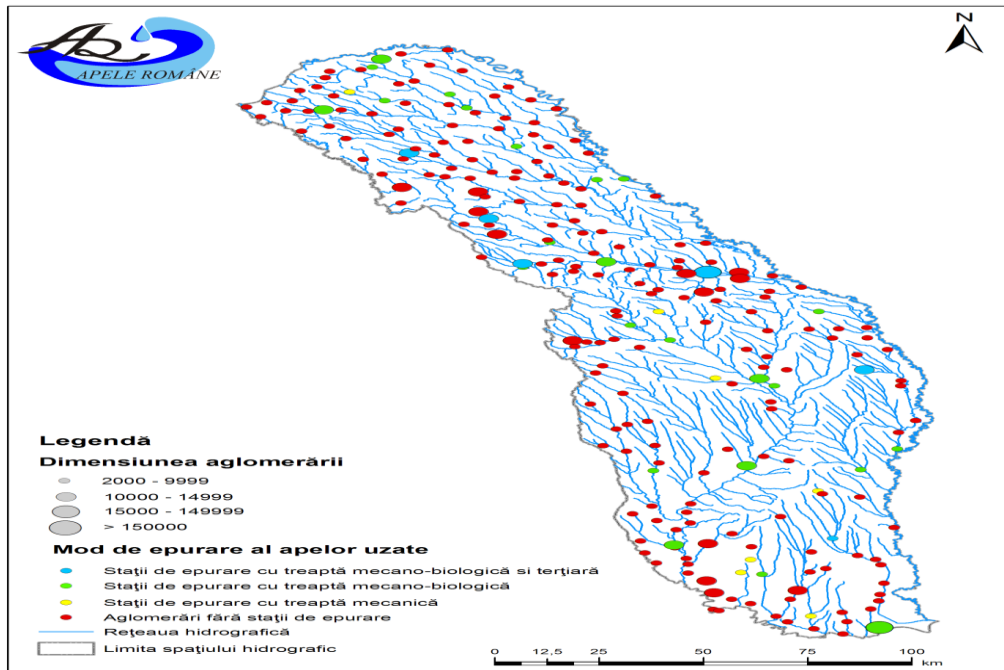
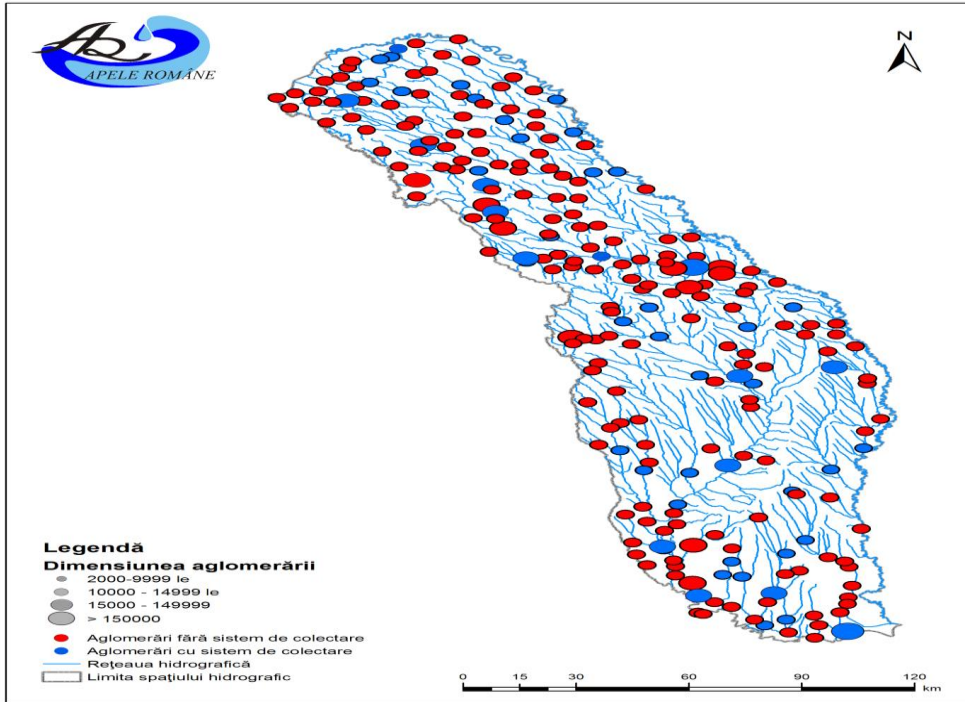


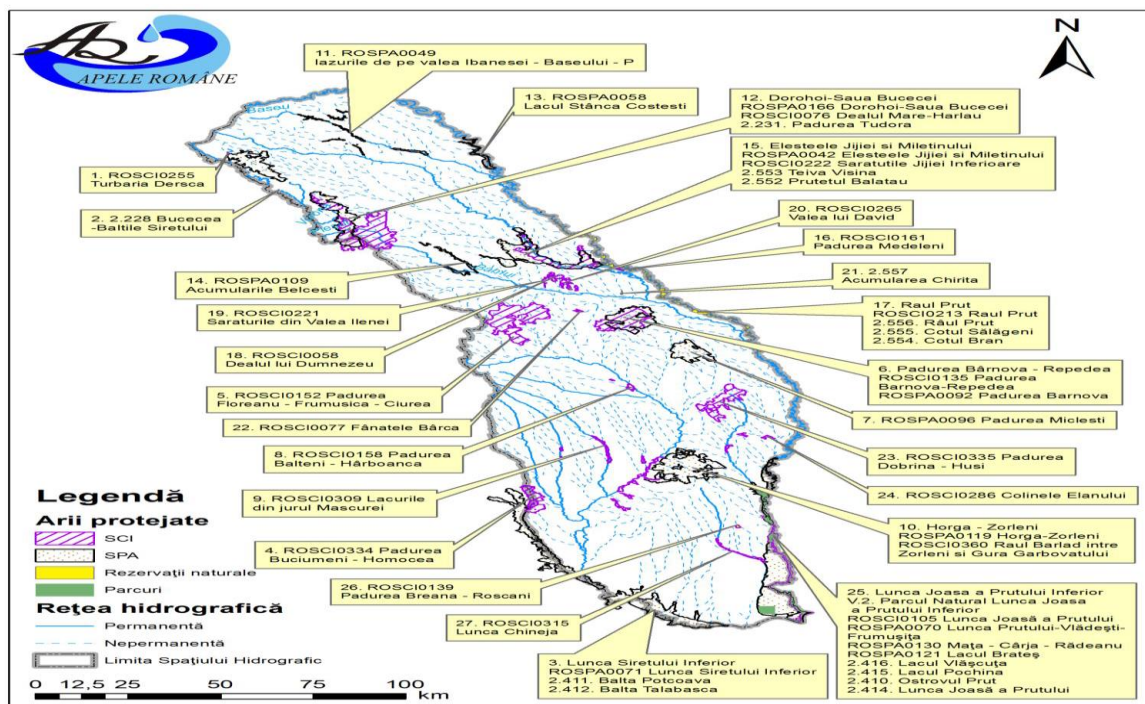
River basins /sub-units in Romania

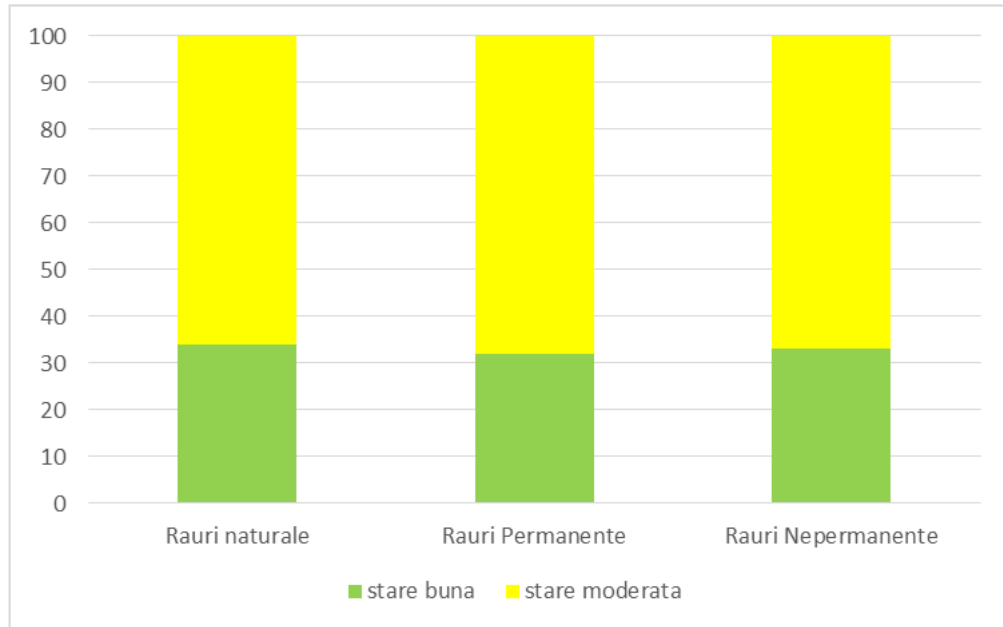
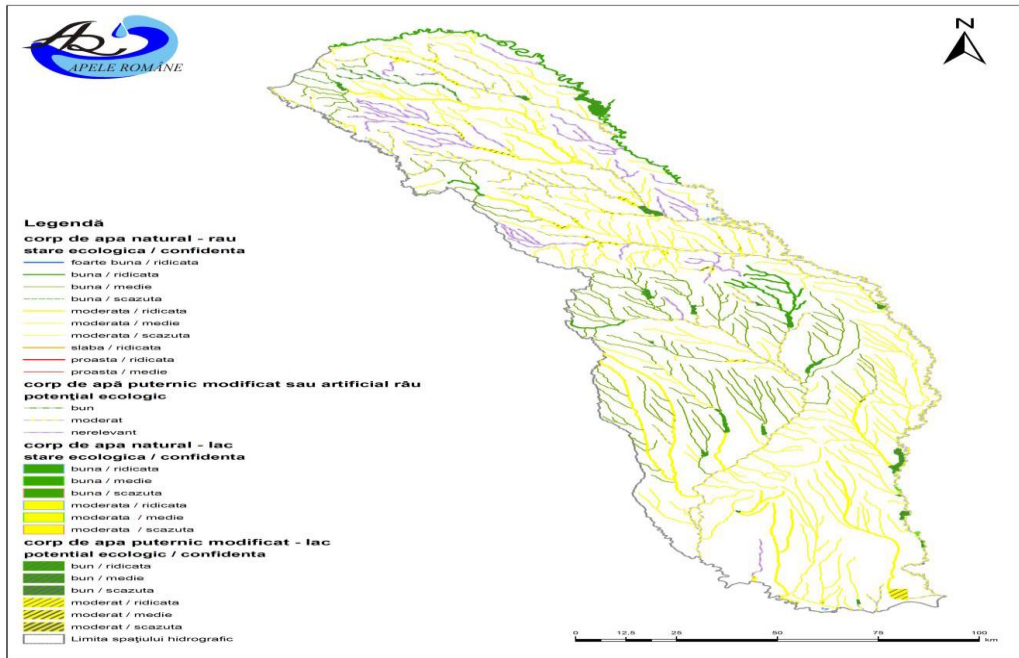
Development of the RBMP at the sub-basin level-Prut-Bârlad district

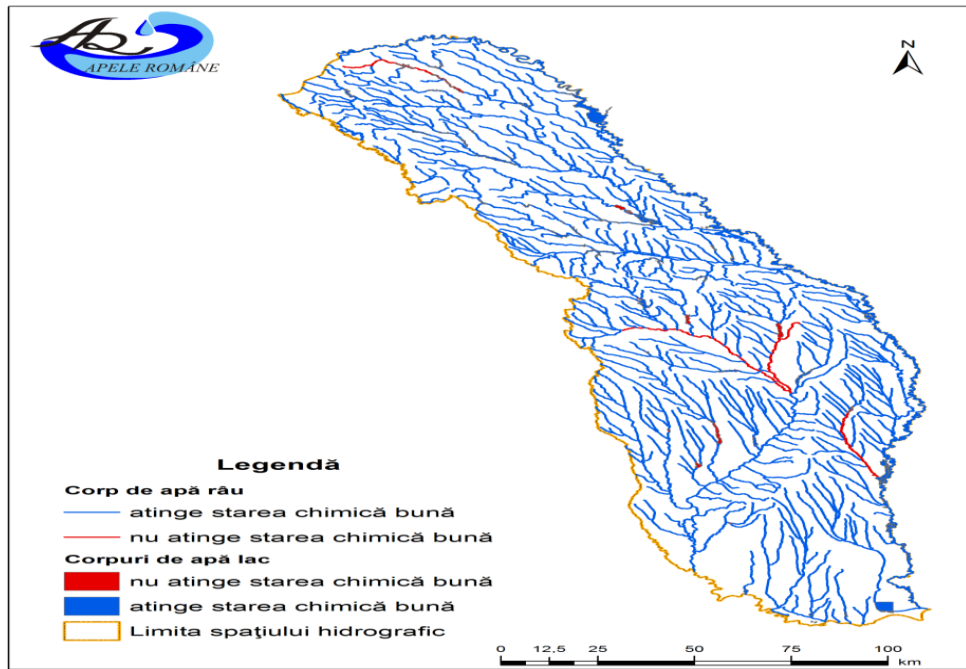
- Prut-Bârlad sub-basin is located in the north-eastern part of Romania and one of the 11 national sub-basins
- Prut River Basin is transboundary being shared by Romania, Republic of Moldova and Ukraine
- In Prut-Bârlad sub-basin agriculture is the major activity and consequently a significant pressure on water status
- This area is often affected by water shortage due to the climate conditions





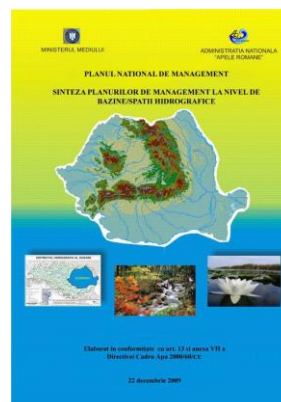






The main steps through WFD implementation

- ✓ 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
- ✓ Updated 2015



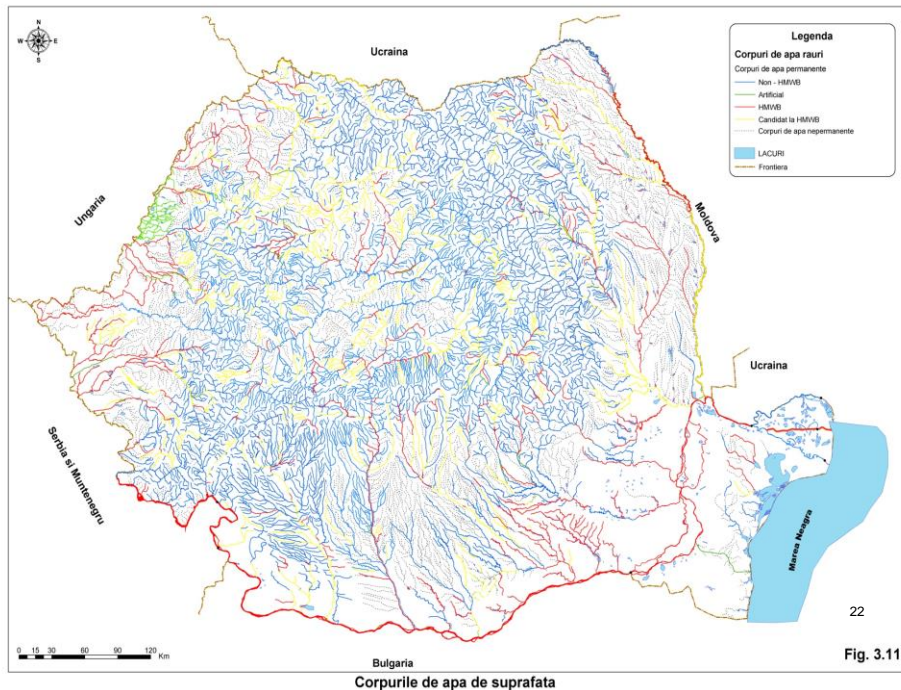
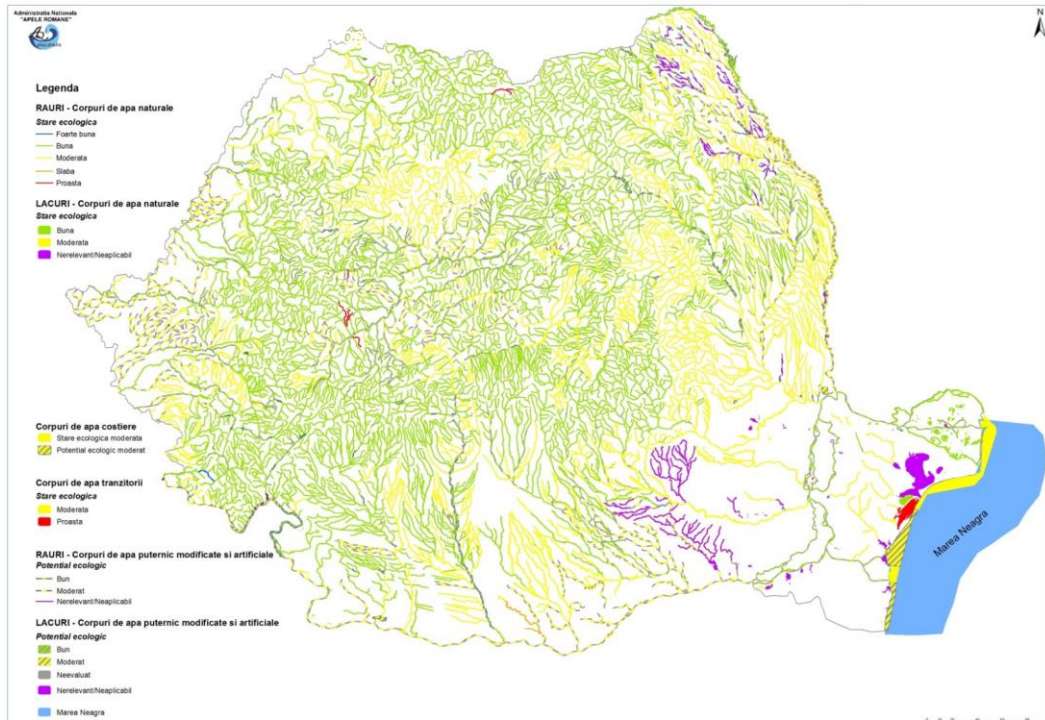
19

Pressure – Impact – Risk – Response

- **Significant potential pressures :**
 - **Point sources:** 1492 (841 municipalities, 480 industrial units, 59 farms, 139 other types)
 - **Diffuse sources:** 2061 (1731 municipalities, 42 industrial units, 288 farms)
 - **Hydromorphological pressures:** 2197 (reservoirs, water intakes, restitutions, derivations, embankments, navigable channels, etc.)
 - **Other antropogenic pressures:** 1272 water users that have risk for accidental pollutions, 75 water bodies for aquaculture activites, etc.
- **Significant pressures:**

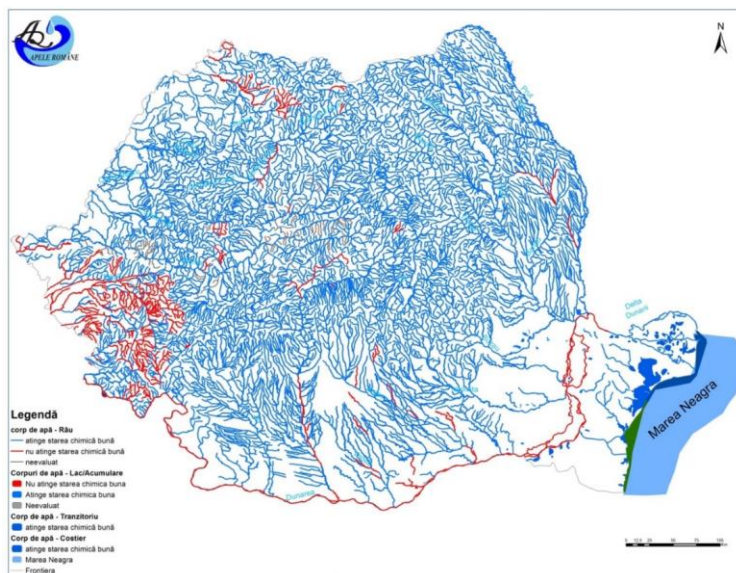
Cross checking the potential pressures with the reaching the environmental objectives for water bodies (ecological status / potential and chemical status):

 - 132 point pressures (347 municipalities, 112 industrial activitiies, 20 farms)
 - 276 hydromorphological pressures
- **Antropoghenic impact assessment and risc for:**
 - Organic polution
 - Nutrient polutions
 - Priority substances polution
 - Hydromorphological akleration



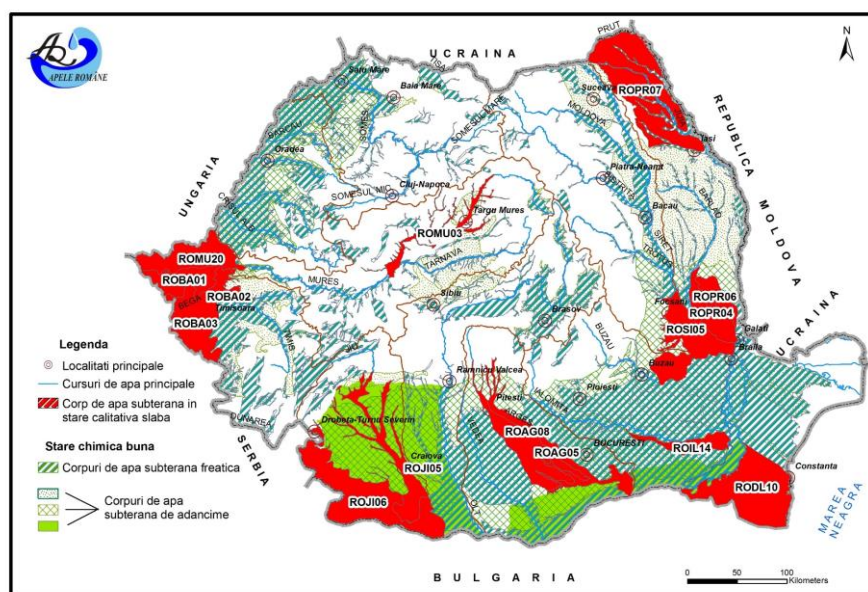
Corpurile de apă de suprafață

Results: SWBs - Chemical status



- monitoring data from 2013 mainly, but also from 2009 - 2012;
- over 97% of SWBs assessed - 94% in GCS;
- comparing with 1st RBMP: the percentage of SWBs in GCS has increased with 1,2 %;
- trend analysis of concentrations of priority substances in sediment showed decreasing trend

Results: GWBs – Chemical status



PROGRAM OF MEASURES

Categories of pressures:

- Agglomerations
- Agricultural activities
- Industrial activities
- Hydromorphological alterations

⇒ BASIC MEASURES:

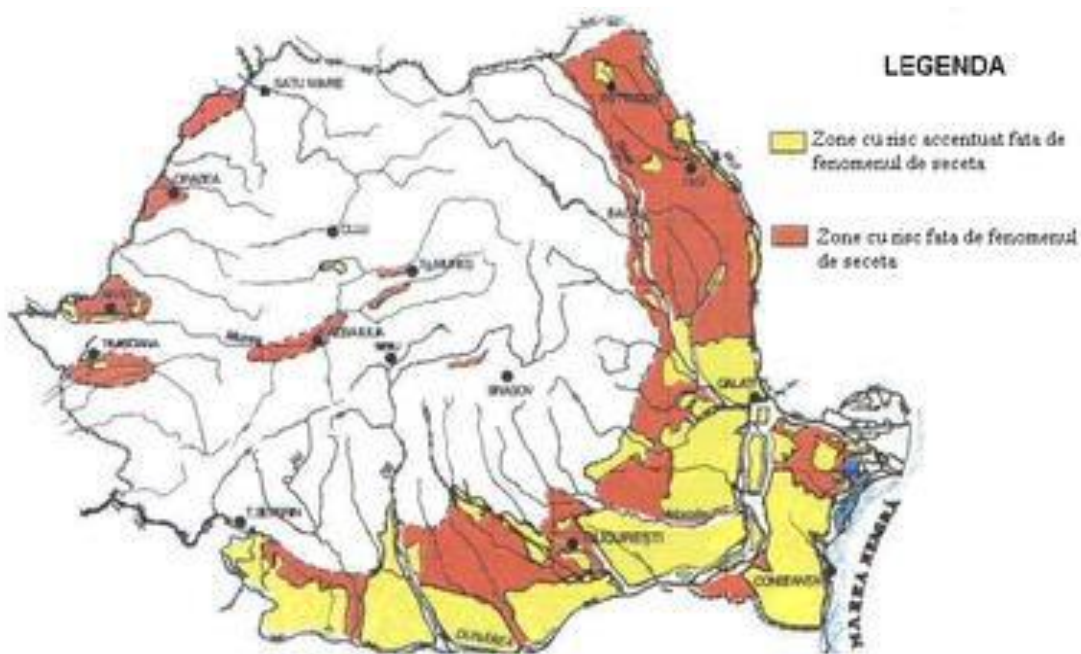
- ⇒ minimum set of **obligatory** measures
- ⇒ WFD Art. 11/3 and Annex VI part A
 - UWWT-Directive
 - Nitrates Directive etc

⇒ SUPPLEMENTARY MEASURES:

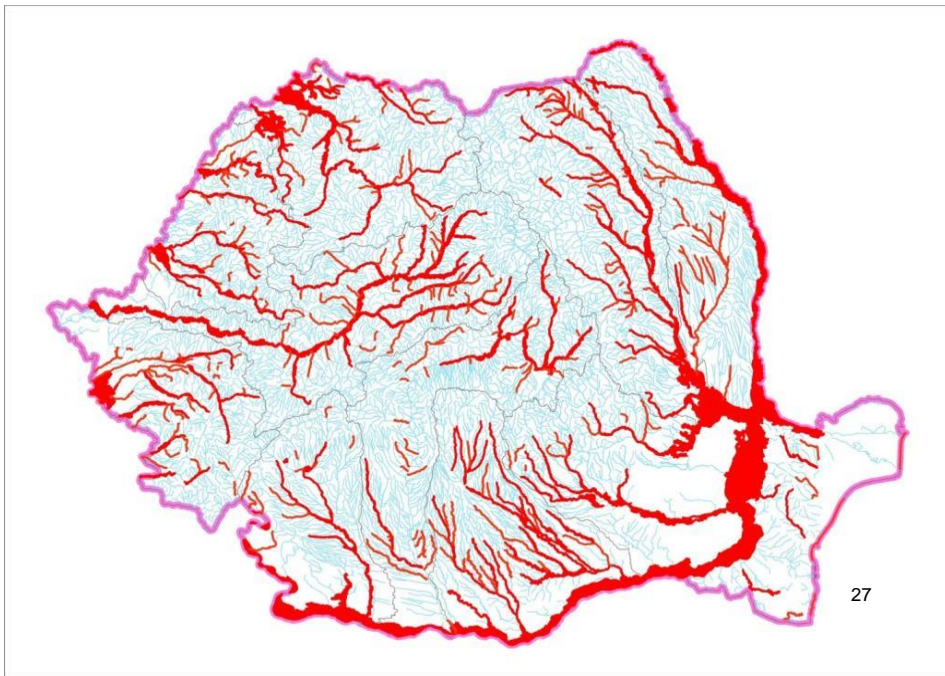
- ⇒ set of **additional** measures to reach the environmental objectives
- ⇒ WFD Art. 11.4 and Annex VI part B
 - Legislative, administrative, economic instruments
 - educational projects, research etc.

- Total costs 2010-2027 – around 21 billions Euro

25



POTENTIAL SIGNIFICANT FLOOD RISK AREAS



The International
Commission for the
Protection of the Danube
River (ICPDR)

has been established to implement the
objectives and provisions and to
achieve the goals of the Danube River
Protection Convention and the
coordinating organism for WFD
implementation



Delineated Surface Water Bodies

Draft DRBM Plan - Update 2015 - MAP 3



Water-related Protected Areas (>500 ha)

Draft DRBM Plan - Update 2015 - MAP 18



Ecological Status and Ecological Potential of Surface Water Bodies

Draft DRBM Plan - Update 2015 - MAP 21



Chemical Status of Surface Water Bodies

Draft DRBM Plan - Update 2015 - MAP 22



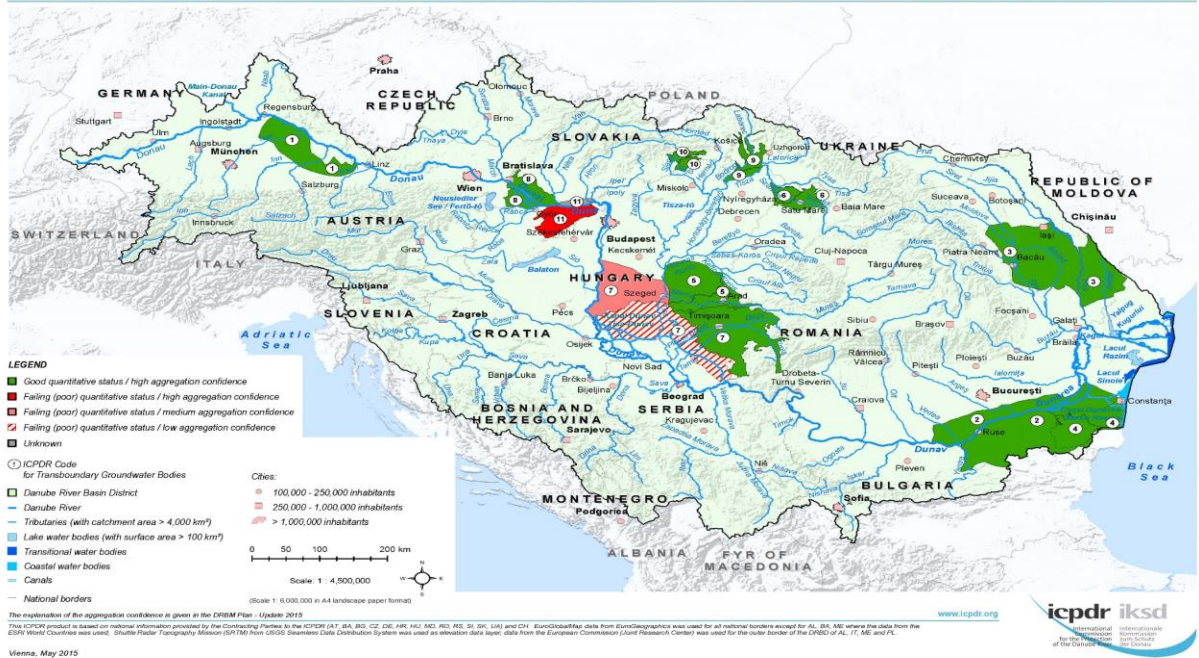
Transboundary Groundwater Bodies of Basin-Wide Importance

Draft DRBM Plan - Update 2015 - MAP 4



Quantitative Status of Groundwater Bodies of Basin-wide Importance

Draft DRBM Plan - Update 2015 - MAP 23



Thank you for
your attention!

