



Turkey, Cappadocia , 16-18 April 2013

IMPLEMENTATION OF WFD IN BULGARIA

EXPIERIENCE OF EARBD

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RIVER BASIN MANAGEMENT IN BULGARIA

- Bulgaria started to implement requirements of the EU water policy legislation during the pre-accession process between 2000 – 2006 and WFD with the same deadline.
- Bulgaria implemented the water basin management principle identifying river basin management districts and establishing river basin management authorities.



BASIN DIRECTORATES

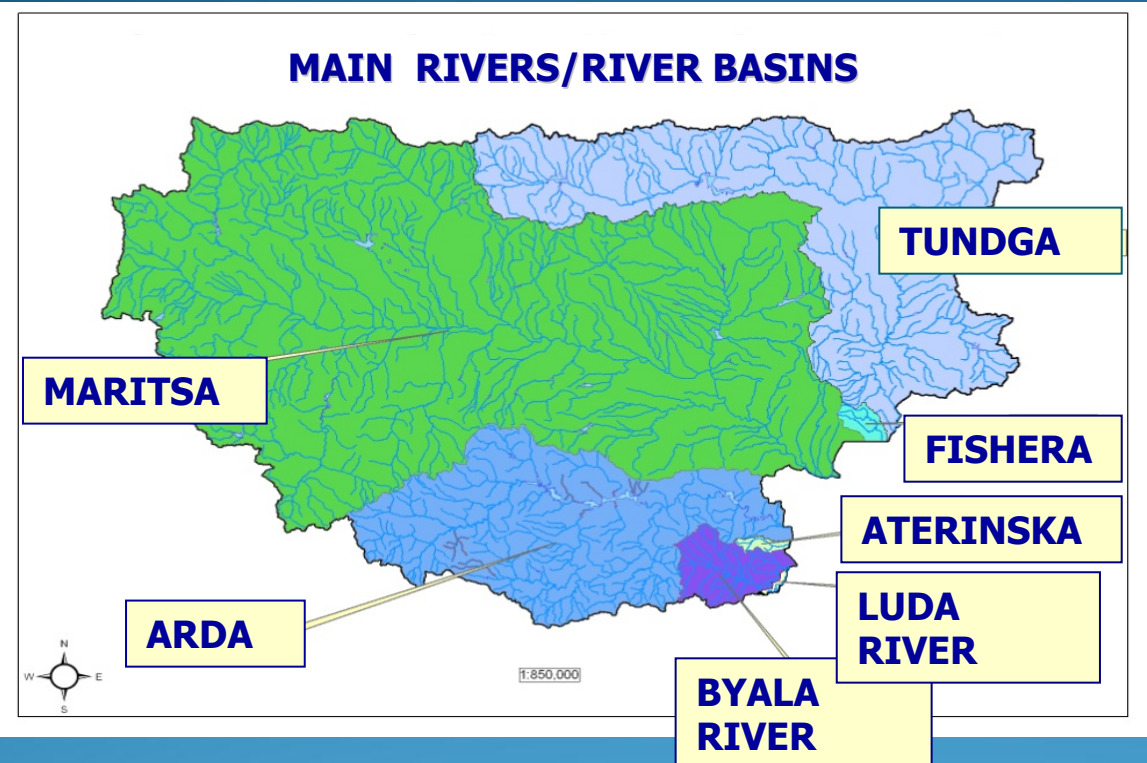
MAIN RESPONSIBILITIES OF BASIN DIRECTORATE:

- ❑ **MANAGEMENT**, including public consultation
(Planning - RBMP, FRMP)

- ❑ **REGULATION**
(permissions for water use, waste water, discharge, ext.)

- ❑ **CONTROL**
(control of conditions of permissions and collection of taxes)

EAST AEGEAN RIVER BASIN DISTRICT



AREA - 35 230 km²
32% of area of the country

POPULATION - 2 264 319 -
30% of total population

REGIONS – 10,
MUNICIPALITIES – 92,
SETTLEMENTS - 1772

Category of SW	Number of types	Number of WB
River	5	247
Lake	7	61

HMWB – 88
 AWB – 15
 33% of SWB

Ground water
 48 GWB

EAST AEGEAN RIVER BASIN DISTRICT

EARBD RBMP was adopted by order of the Minister of Environment and water in March 2010.



Main pressures and impacts:

- organic pollution from urban waste water
- nitrate pollution from agriculture
- hidromorphological changes cosed by regulation of flow, corrections of rivers, luck of fish asses, ext – hydropower, flood defence, irrigation, ext.
- local pollution by some metals cosed by industry mainly past pollutions from mining activities

EAST AEGEAN RIVER BASIN MANAGEMENT PLAN

**GOOD WATER STATUS AND
GOOD STATUS OF WATER RELATED ECOSYSTEMS
UNTIL 2015**

**Good status of surface
water bodies**

**Good status of
groundwater bodies**

**Good chemical
status**



**Good ecological
status**



Good status



**Good chemical
status**



**Good quantity
status**



Good status



Reducing climate change effect

EARBD OBJECTIVES

STATUS 2009

SW GOOD STATUS
108 WBs (35%)

SW STATUS WORSE THAN GOOD
200 WBs (65%)

OBJECTIVES 2015

SW GOOD STATUS
183 WBs (60%)

SW STATUS WORSE THAN GOOD
125 WBs (40%)



PoM

GW GOOD STATUS
19 WBs (40%)

GW STATUS WORSE THAN GOOD
29 BT (60%)

GW GOOD STATUS
29 WBs (60%)

GW STATUS WORSE THAN GOOD
19 WBs (40%)

Program of measures (PoM) is the key instrument for achieving the objectives of the RBMP

PROGRAM OF MEASURES

1. Measures connected with settlements
2. Measures connected with industrial sources
3. Measures connected with agriculture
4. Measures related to protected areas
5. Measures connected with climate change

There are:

- ❑ **268 different measures in the catalogue of measure in EARBD RBMP**
- ❑ **3647 measures on place**

KEY MEASURES

12 types:

- Purification of the urban waste water beyond of the UWWD
- Decreasing of nitrogen pollution from agriculture beyond of the requirements of Nitrate directive
- Improving status in the polluted areas by the past activities
- Improving connectivity of river
- Improving of the hydromorphological conditions
- Improving the hydrological regime and / or establishment of minimal environmental flow

KEY MEASURES - 12 types:

- Measures for improving efficiency of irrigation
- Advices in Agriculture
- Research to improve knowledge and gaps and to decrease the uncertainties
- Measures to decrease the emissions, discharges and loses of the priority substances and dangerous substances
- Improving purification of the industrial waste water beyond the IPPC directive requirements
- Measures, connected with the protection of the biodiversity

IMPLEMENTATION OF PROGRAM OF MEASURES

EARBD reported implementation of the PoM on 1 of March 2013

- All basic measures (WFD art.11.3a), required under the legislation specified in 11 EU Directives are “on-going”.
- All 8 other basic measures (WFD art.11.3 b 1) are “on-going”
- 216 supplementary measures (art.11.4 and 11.5 WFD) - 95 not started, 118 - are “on-going” and 3 are completed.

IMPLEMENTATION OF PROGRAM OF MEASURES

- Measures in agriculture have mostly implemented, due to funding provided
- A large percentage of “on-going” measures are administrative measures which are in the responsibilities in frame of the Ministry of Environment and water
- Most agglomerations (above 2000 p.e.) have developed projects for construction of WWTPs, financing under Operational Programme Environment
- Main reasons for not starting the measures are lack of funding and lack of initiatives from the responsible institutions

SECOND RIVER BASIN MANAGEMENT PLAN 2015-2021

- The work of the development of the second RBMP is on-going.
- On 22.12.2012 was published Timetable and work program for the development of the RBMP and public consultation measures.
- There was published also Timetable and work program for the development of the FRMP and public consultation measures, including coordination between 2 plans.

SECOND RIVER BASIN MANAGEMENT PLAN 2015-2021

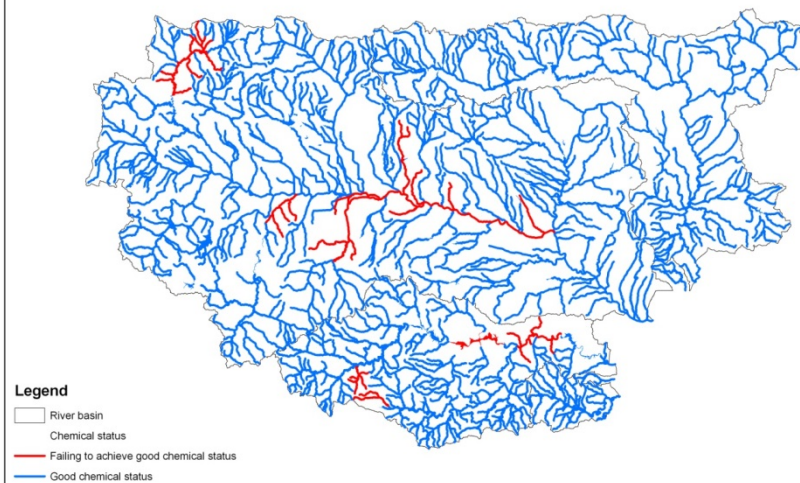
- It is on-going public consultation for both plans and local meetings are organized based on river basin principle.
- It was assess need of consultant services for the next plan and first specifications for the public procurements are prepared.
- The 2012 status of water is assessed as base for the Art.5 characterization for the second RBMP and continue work on pressure – impact analyses

STATUS OF SURFACE WB 2012

Ecological status/potential of water bodies in EARBD



Chemical status of water bodies in EARBD



EARBD	number WB	% WBs
high	29	9
good	94	31
moderate	93	30
poor	85	28
bad	7	2

EARBD	number WB	% WBs
Good	298	97
Bad	10	3

MAIN CHALLENGES IN FIRST RBMP CYCLE

- To ensure common understanding of WFD requirements both between water managers and policy makers and also among the main stakeholders
- Integration of scientists to the implementation process in order to develop common methodologies at national level in all aspects of implementation



MAIN CHALLENGES IN FIRST RBMP CYCLE

- Due to the fact that all RBDs in Bulgaria are international, there is a need to establish working mechanisms to coordinate achievement of the environmental objectives in transboundary context with our neighbour countries
- Establishment of working cooperation and coherent integration of water policy issues among the related administrations at different levels



MAIN CHALLENGES IN FIRST RBMP CYCLE

- To ensure funding for the implementation the program of measures and in particular the commitments under the Urban Wastewater Treatment Directive.
- Integration of WFD implementation with other policies – Biodiversity, Agriculture, Energy.



**HOW TO ADDRESS
THE CHALLENGES?**

SOME ANSWERS

- Bulgarian Ministry of Environment and Water started **cooperation with different research institutes**
- Bulgaria started **cooperation with neighbor countries** for transboundary coordination in context of Common Implementation Strategy of WFD including common projects in water field

SOME ANSWERS

- To achieve the objectives, set out in the RBMPs the national legislation was amended in order to establish **coordination between Environmental Impact Assessment Directive for new projects and objectives and measures established in the RBMPs.**
- Bulgaria tried to integrate measures to protect biodiversity and especially Habitat and Bird directive issues in the first RBMPs

SOME ANSWERS

- Soon it was published the new Regulation for characterization of surface waters, which governs the terms and conditions for characterization, classification and presentation of status / potential of surface water bodies, which establish legally the **new classification system** in compliance with WFD.
- The work to finalize **Intercalibration exercise** continue. There is mobilization and ensured financing for further monitoring and research activities. Still we need of cooperation with our neighbour countries to continue work in Ecoregion 7.

INTERCALIBRATION OF THE METHODS FOR BQE ASSESSMENT

1. Achieved IC results for Ecoregion 12

- Eastern Continental GIG for Rivers (common with Romania, Hungary and other countries):
 - BQE Macroinvertebrates
 - BQE Phytobenthos (Diatoms)
 - BQE Macrophytes
- Black Sea GIG (common with Romania):
 - BQE Phytoplankton

Borders of ecoregions in Bulgaria
(revised in 2010)



2. Identified common river types for Ecoregion 7 with Turkey and Greece - possibilities for intercalibration:

Large lowland rivers with fine substrata - Maritza (Meric, Evros) river



Sub-Mediterranean temporary rivers

THANK YOU FOR ATTENTION!

