

# Workshop

## Basic and supplementary measures and anticipated effects

15 - 17 February 2016  
ECRAN 61384

### Proposal for setting up the environmental objectives for Drina RB



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## Structure of the presentation

- Legal basis
- Environmental objectives
- Example environmental objectives
- Examples: Macedonia
- Suggestions for Drina River Basin



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## WFD REQUIREMENTS: ENVIRONMENTAL OBJECTIVES (1)

### Legal basis

- Article 4 WFD sets out the "**environmental objectives**" mainly in **Article 4.1**.
- The normative definitions for the environmental objective of "good status" are described in great detail in **Annex V**.



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## WFD REQUIREMENTS: ENVIRONMENTAL OBJECTIVES (2)

The **main environmental objectives**:

- (a) surface waters
- (b) groundwaters
- (c) protected areas)

- **No deterioration** of status for surface and groundwaters and the protection, enhancement and restoration of all water bodies  
Achievement of good status by 2015, i.e. good ecological status (or Potential) and good chemical status for surface waters and good chemical and good quantitative status for groundwaters
- **Progressive reduction of pollution** of priority substances and **phase-out of** priority hazardous substances in surface waters and prevention and limitation of input of pollutants in groundwaters
- **Reversal of any significant, upward trend of pollutants** in groundwaters.  
Achievement of Standards and objectives set for **protected areas** in Community legislation.



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## WFD REQUIREMENTS: ENVIRONMENTAL OBJECTIVES (3)

### Key issues:

where more than one of the objectives relates to a given body of water, the most stringent shall apply (Art. 4.2), irrespective of the fact that all objectives must be achieved.

Taking into account the results of the intercalibration exercise Member States are obliged to set detailed values defining the status for each water body.

For **heavily modified and artificial water bodies**, Article 4.1 point (a) indent (iii) sets out "specific objectives" for these specific water bodies. In Article 4.3, strict criteria for the designation of artificial or heavily modified water bodies are described.

The assessment of "good ecological potential" includes economic considerations and it is linked to the possible mitigation measures.

**It has been agreed that artificial and heavily modified water bodies do not constitute a conventional objective or exemption.**



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## WFD REQUIREMENTS: ENVIRONMENTAL OBJECTIVES (4)

The environmental objectives that need to be achieved under the WFD are:

### For surface water

- achievement of good ecological status and good surface water chemical status by 2015;
- achievement of good ecological potential and good surface water chemical status for heavily modified water bodies and artificial water bodies;
- prevention of deterioration from one status class to another;
- achievement of water related objectives and standards for protected areas;



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## WFD REQUIREMENTS: ENVIRONMENTAL OBJECTIVES (5)

The environmental objectives that need to be achieved under the WFD are:

### For groundwater

- achievement of good groundwater quantitative and chemical status by 2015;
- prevention of any deterioration in status;
- reversal of any significant and sustained upward trends in pollution and prevention /limiting input of pollutants to groundwater;
- achievement of water related objectives and standards for protected areas.



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## Examples: Environmental objectives

- Reaching the good water status and good chemical status and respectively of the good ecological potential and good chemical status (for modified or artificial water body) for surface water bodies
- Reaching good chemical status and good quantitative status for groundwater bodies
- Reaching the environmental objectives for protected areas according with the specific legislation
- Non-deterioration of the surface and groundwater status.

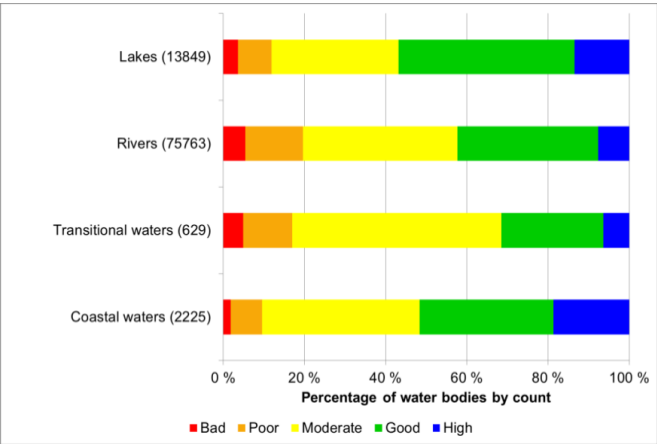


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# Ecological status/potential



Preliminary results from analysis of 144 RBD reported by 24 EU Member States to the WISE-WFD database

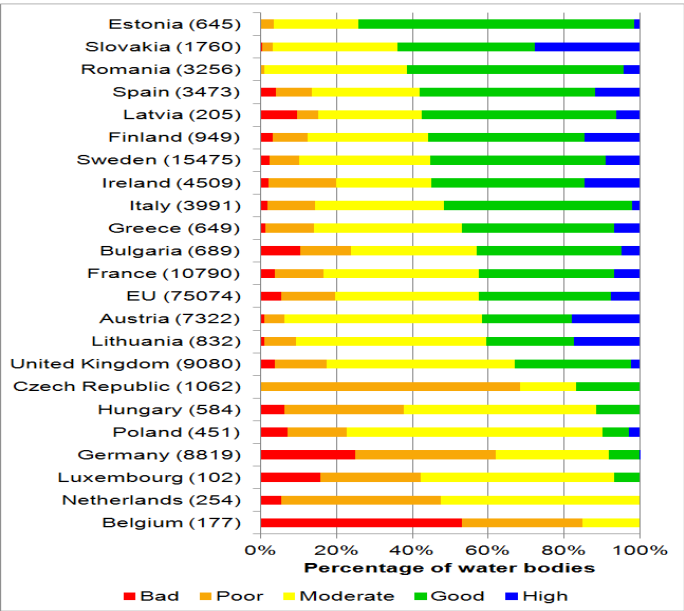


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# Ecological status of



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## Environmental Objectives – MK (1)

- Avoid a further deterioration of the status of the water bodies
- Achieve a good status and a good environmental potential for all its water bodies
- A good status and environmental potential shall be achieved gradually and in line with the goals set forth by the Macedonian Water Law
- Reduce chemical pollution
- Achieve water related protected areas objectives



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## Environmental objectives – water bodies

Istocka 1	Good			
Istocka 2	Bad	Y	Good	
Istocka 3	Poor	Y	Good	
Golema 1	Good			
Golema 2	Moderate	Y	Good	
Golema 3	Moderate	Y	Good	
Golema 4	Moderate	Y	Good	
Golema 5	Moderate	Y	Good	
Golema 6	Bad	Y		Good potential
Golema 7	Bad	Y		Good potential
Golema 8	Poor	Y		Good potential
Kurbinska	Moderate	Y	Good	
Kranska 1	High			
Kranska 2	Moderate	Y	Good	
Bratinska 1	High			
Bratinska 2	Poor	Y	Good	

## Effects – Environmental objectives

Objectives	Sub-objective	Indicators	Alternatives		
			"0" No action	1 Realistic	2 Full WFD
Overall Objective 1: Improvement of environmental conditions ensuring good water and soil quality for human health and ecosystem by 2025  Indicator: Measurable decline in levels of the main pollutant groups and pressures on water, sediment and biota	1a: Good surface water quality:	Reduce/prevent further eutrophication/organic pollution			
		Reduce/prevent further hydromorphological changes			
		Reduce/prevent further habitat fragmentation			
		Maintain biological water quality (phytoplankton, macrophytes, invertebrates and fish)			
		Reduce/prevent hazardous substances pollution			
	1b: Good groundwater quality:	Control water abstraction			
		Reduce/prevent water pollution from point and non-point sources			
		Maintain good physical and chemical characteristics			
	1c: Good ecological	Reduce/prevent further eutrophication/organic pollution			
		Reduce/prevent further hydromorphological changes			
		Reduce/prevent further habitat			

## Environmental objectives MK (2)

### *For the surface water bodies:*

- **EO 1: Improvement of environmental conditions ensuring good water and soil quality for human health and for the ecosystem by 2025 (long-term)**
- **EO 2: To control water levels (prevent losses) and promote sustainable use (short-term & continuous)**
- EO 3: To ensure sustainable fisheries (mid-term)
- EO 4: Reducing pesticide/fertilizer loadings, waste from packaging and pressure from agriculture (short-term & continuous)
- EO 5: Reduction of physical pressures (short-term & continuous)



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## Environmental objectives MK (3)

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Regional Accession Network **ECRAN**

**For the groundwater bodies:** (These include the abovementioned Environmental Objectives 1, 2, 4 and 5, as well as the following objectives):

- EO 6: The drinking water supply is to be based on pure groundwater without the need for more than simple treatment (long-term); To ensure that the water supplied to the population only contains nitrate in natural concentrations (short-term & continuous).
- EO 7: The groundwater resource must be safeguarded against overexploitation (mid-term).
- EO 8: The groundwater must be protected against contamination (short-term & continuous); there must be no pesticides or other hazardous substances in groundwater used for the supply of drinking water (short-term & continuous).



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Environment and Climate  
Regional Accession Network **ECRAN**

## Environmental objectives categories

The environmental objectives can be grouped into **eight thematic areas**:

**Water quality** (e.g. avoid the deterioration of water bodies quality; achieve water bodies good status);

**Water quantity** (e.g. promote demand and supply management of water according to the availability in each catchment area and ensure the integrated management of surface water sources and groundwater);

**Risk management** and Public Water Domain valorization (e.g. promote economic value of water resources; promote the coastal areas planning; prevent and manage risk situations and environmental, social and economic impacts);

**Institutional and legal framework** (e.g. meet the objectives stated in national and European Community environmental protection regulations);

**Economic and Financial Framework** (e.g. promote sustainability management models);

**Monitoring** (e.g. Ensure the operability of monitoring networks);

**Research and knowledge** (e.g. promote scientific research and knowledge about the natural heritage as well as monitoring species, habitats and ecosystems; ensure the existence and operation of information systems on water resources);

**Communication and governance** (e.g. strengthen and promote institutional linkage and coordination between policies and instruments).



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## Environmental objectives Drina PoM

### Suggestions

- Avoidance or reduction of water pollution
- Protection and improvement of the sustainable use of groundwater with respect to its quantity and quality.
- .....protected areas (ecosystem habitats)-  
reduce and control of the use of the pesticides
- Sustainable water use hydropower



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## Thank you!



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