

Lessons learned from the process elaboration of the 1st and 2nd Romanian River Basin Management Plans and 2027 deadline challenges for achieving the environmental objectives

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Danube River Basin District: Overview





RBMP development process



2009-2010: 1st RBMP was finalized and reported to EC
National Management Plan-synthesis at the national level of 11 River Basin Management Plans (RBMPs)
2012: Elaboration the interim report on PoM progress
2013:

• 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)

Interim overview of significant water management issues
2014: Elaboration of the draft of the 2nd RBMPs and of
the draft 2nd National Management Plan



Elaborat in conformitate cu art. 13 si anexa VII Directivei Cadru Apa 2000/60/CE

 2015: Elaboration of the 2nd RBMP and of the 2nd National Management Plan RBMP were presented, discussed and approved in the River Basin Committees
2016: Reporting to the EC, approval through GD

Progress in the 2nd RBMP approach in comparison with the 1st RBMP

- Elements which are the basis for the 2nd RBMP:
- same approach strong points of the 1st RBMP kept
- lessons learnt, bridging gaps and solving weaknesses of the 1st RBMP improving knowledge base
- main data and information used:
 - monitoring of first PoMs implementation
 - monitoring program

Surface waters – main aspects

- Typology biotic validation
- SWBs delineation and HMWB designation updated
- Pressures and impact assessment: potential significant pressures definition, cumulative effect, WB level and sub-basin level (upstream and downstream), first inventory of priority substances emissions, discharges and losses Driver Pressure State Impact Response approach with clear link between pressures, objectives and measures (updated risk assessment)
- Monitoring improvement: monitoring network further developed by increasing the number of monitored quality elements and parameters



Lessons from the 1st and 2nd River Basin Management Plans

- The relationship between pressures-response and effectiveness of measures is a complex process, especially concerning hydromorphological pressures and biological quality elements due to:
 - approaches based in some cases on "expert judgement" (suppose uncertainties, inaccuracy of the in-depth understanding of process)
 - insufficient scientific knowledges
- The process is more complicated in the case of WBs with multiple pressures aprox. 40% out of the SWBs with significant pressures are represented by WBs with multiple pressures (two or more pressures/WB)
- □ for all water bodies which do not reach good ecological status/good ecological potential in 2015 exemptions have been applied
- progress in the achieving the environmental objectives between planning cycles lead to reduction of exempted water bodies to ecological status
- RO approach: all WBs will reach their environmental objectives in 2027 estimation might be too ambitious
- the benefit of the restoration and mitigation measures addressing HYMO alterations is difficult to be assessed. The methodologies and case studies performed at European level are very different in terms of monetary assessment of the benefits
- additional measures addressing hydromophological alterations are expected to be proposed, the costs will be significant higher due to their large investments costs (wetlands and floodplain conservation and restoration and fish facilities construction) disproportionate costs

Result : it might be possible that not for all water bodies, their environmental objectives be reached up to/in 2027

Programme of Measures (1)

- □ Driver-Pressure-State-Impact-Response (DPSIR) approach
 - ✓ The measures are applied for drivers and pressures: Human agglomerations, Industrial activities, Agricultural activities, Hydromorphological alterations, Other activities
- Basic measures requirements for implementation and compliance with EU Directives
- measures for human agglomerations building the drinking water and waste water infrastructure (DWD, UWWTD and Sludge Directive)
- measures for industrial activities for reduction of industrial pollution, according to the IED permits and water management licenses requirements
- > measures for agricultural activities:
 - implementation of the provisions of Good Agriculture Practices Code and Action Programs all territory approach under Nitrate Directive
 - reduction of pesticide emissions implementation of the National Action Plan for pesticides
- > Hydromorphological measures regarding:
 - longitudinal continuity (for ensuring fish migration)
 - lateral continuity
 - establish the ecological flow for aquatic ecosystems
 - other measures and instruments

□ Other basic measures and supplementary measures

Programme of Measures (2)



Almost 9.5 bilion Euro has been spent in the 1st planning cycle implementation

Results:

- > percentage of SWBs in GES/GEP has increased only by 6.71%
- percentage of SWBs in GCS has increased only by 4.43%
- the percentage of GWBs in GCS has increased only by 2.9%

- The DPSIR-approach is a cyclic, iterative and complex process:
- new European legislative requirements additional mandatory measures
- continuous changes in assessment of the significant pressures and corresponding measures and their effect on environmental objectives of WBs
- improvement of the monitoring data and the methodologies for assessment of the WBs status have consequences on changing of planned measures or adding new measures
- Insufficient knowledge on integrated environmental objectives (WFD, FD, MSFD, HSDs, etc
- Not complete knowledge on impact of climate changes on each WB status and on necessary mitigation and adaptation measures
- Problems to convince stakeholders related to the needs for implementing certain measures - take more time than expected
- Planned costs for implementation of the measures can be affected by the macroeconomic context (i.e. recent crisis)

Thank you for your attention!

