

RISKBASE

3rd Thematic Workshop “Exchange of Experiences with the 1st generation of EU WFD River Basin Management Plans”

Barcelona, 4-5 may, 2009

Keynote

**ASSESSMENT OF THE RBMP
DRAFT PRESENTED IN
BALEAR ISLANDS**

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Main problems

- Surface Water Bodies:
 - Rivers: nutrient & organic pollution (agriculture/livestocks & treated wastewater releases to rivers), hydromorphological alteration (abstractions, infrastructures, agriculture & urbanization pressures)
 - Wetlands (lake & transitional): nutrient & organic pollution ((agriculture/livestocks & treated wastewater releases); hydromorphological alteration -abstractions, sediment filling, infrastructures (agriculture & urbanization pressures)
 - Coastal water bodies: not clearly identified
- Groundwater Bodies:
 - Overexploitation (abstractions for irrigation & urban uses), and marine intrusion in coastal GWBs
 - Organic pollution (irrigation, livestock & treated wastewater reusing in agriculture)

Main problems

- Surface Water Bodies:
 - Lack of enough flow measurers
 - Chemical status is not determined
 - Fish indicators are not used for determining ecological state
 - Hydromorphological indicators are not considered in determining ecological state
- Groundwater Bodies:
 - Lack of flow measurers
 - Lack of enough density of chemical measurers

Quality of information for elaborating the RBMP

- Lack of information and control of water use licensing
- Lack of control and monitoring networks
- Lack of environmental flows/volumes
- Lack of environmental cost identification & repercussion analysis
- Lack of integration between land planning & agriculture and water policy
- Existence of contradictory data in different chapters of the RBMP
- Time period for series used to estimate water resources is not clearly stated
- Complementary and background documentation not available for interested parties and general public.

Programme of Measures

Part 1: Studies & Programmes

- P1. Improvement of hydrological, hydrogeological & ecological state information: 14,3 M€ (2015)
- P2. Operation of control networks: 6,4 M€ (2015); 19,3 M€ (2027)
- P3. Updating & consolidation of water use rights: 2 M€ (2015)
- P4. Use rules for GWB: 1,04 M€ (2015); 1,88 M€ (2027)
- P5. Regenerated wastewater reusing plan: 0,56 M€ (2015); 1,26 M€ (2027) → (studies + comm measures)
- P6. Quantification of agriculture water consumption: 1,02 M€ (2015); 3,06 M€ (2027) → (teledetection)
- P7. Artificial recharge: 0.4 M€ (2015)

Programme of Measures

Part 1: Studies & Programmes

- P8. Protection of water quality: 4.46 M€ (2015); 5 M€ (2027)
- P9. Improvement of urban water supply: 1.01 M€ (2015); 1.19 M€ (2027)
- P10. Hydrological working of wetlands: 1.03 M€ (2015)
- P11. Flooding prevention: 5.64 M€ (2015); 15.88 M€ (2027) → studies
- P12. Water saving & conservation: 1.08 M€ (2015); 2.89 M€ (2027) → communication activities
- Emergency in drought events: 0 M€ (2027)
- P13. Studies for new infrastructure: 0.4 M€ (2015); 1,2 M€ (2027)

Programme of Measures

Part 1: Studies & Programmes

- P14. Sea water desalination plants: 0.18 M€ (2015); 0.54 M€ (2027) → studies
- P15. RBMP following up & public participation: 1.87 M€ (2015) [0.2 M€ design & running public participation]; 5.61 M€ (2027)
- TOTAL: 41.43 M€ (2015); 76.34 M€ (2027)

Programme of Measures

Part 2: Infrastructures

- P1. Improvement of hydrogeological information: 10.43 € (2015); 17.14 M€ (2027)
- P2. New water supply & substitutions: 16.1 M€ (2015); 35.9 M€ (2027)
- P3. Interconnection of infrastructures: 89.51 M€ (2015); 128.51 M€ (2027)
- P4. Wastewater collection & treatment: 287.31 M€ (2015); 665.81 M€ (2027)
- P5. Reusing of treated wastewater: 70.95 M€ (2015); 431.95 M€ (2027)
- P6. Desalination plants: 34 M€ (2021)
- P7. Control of distribution network spills & irrigation modernization: 35 M€ (2015); 145 M€ (2027)

Programme of Measures

Part 2: Infrastructures

- P8. Prevention and defense against flooding: 145 M€ (2015); 495 M€ (2027)
- P9. Wetland protection and restoration: 8 M€ (2015); 64 M€ (2027)
- TOTAL: 662.3 M€ (2015); 2017.3 M€ (2027)

Main features of PoM

- Sectoral approach → lack of integration (water authority rather committee of competent authorities)
- Supply oriented and traditional approach in flood management → hard public works prevalence (95% budget)
- Soft part oriented to cover basic knowledge gaps → lack of economic instruments addressed to sustainable water use and of instruments for implementing environmental flows and environmental volumes
- There is no evidence of effectiveness analysis of measures neither of cost-effectiveness analysis.
- Confusion between objectives and measures.

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Thank you for your attention

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