IMPLEMENTATION OF TISZA PROGRAMME OF MEASURES IN ROMANIA

National Administration "Romanian Waters"
National Institute of Hydrology and Water Management

Final Stakeholder meeting
" Sustaining and replicating lessons on land/water management from the UNDFP/GEF Tisza project"
Uzhgorod, 12-13April 2011

TISZA JOINT PROGRAMME OF MEASURES

- The Tisza JPM in Romania is based on the national programmes of measures
- JPM is structured according to the Significant Water Management

- Organic pollution
- Nutrient pollution
- Hazardous substances pollution

→ Similar to the Danube RBD

- Hydromorphological alterations
- Water quantity and their integration with water quality

→ Specific for the Tisza RB

WATER RESOURCES PLANNING PROCESS IN ROMANIA

SCHEME OF DEVELOPMENT AND MANAGEMENT
- components-

QUANTITY WATER MANAGEMENT → DEVELOPMENT PLAN OF RIVER BASINS

QUALITY WATER MANAGEMENT → RIVER BASIN MANAGEMENT PLANS

PROGRAMME OF MEASURES IN ROMANIA

- Water quality management : River basin /hydrographical space Management Plan *according to WFD*
  - Significant water management issues (SWMIs) and *associated measures*
    - Nutrient pollution
    - Organic pollution
    - Hazardous substances pollution
    - Hydromorphological alterations
- Water quantity management and *associated measures*: River basin / hydrographical space development plan
- Integration : scheme of development and management of river basins

RIVER BASIN MANAGEMENT PLANS - Programmes of Measures -

- ✓ River Basin Management Plan - PoM : submitted to public consultation process where main stakeholders have been involved
- ✓ Strategic Environmental Assessment
- ✓ Governmental Decision 80/2011
- ✓ Submitted to EC

RIVER BASIN DEVELOPMENT PLANS - Programmes of Measures -

- The background studies for the Scheme of Development and Management of Water Resources by Hydrographical Basins – River Basins Development Plans (including the programmes of measures) are finished. The studies - based on national, regional and local development strategies – have been subject to public consultation with the involvement of main stakeholders.
- Currently inter-ministerial Working Group, which analyze the proposed content of WRDP, is into force.
- After completion the WRDP will be subject to all procedures as stipulated by Water Act and related legislation (including SEA).

RIVER BASIN MANAGEMENT PLANS - Programmes of Measures -

- The WFD obliges Member States to develop river basin management plans and programmes of measures and to report those to the Commission (Art.13).
- The purpose of PoM → to achieve the environmental objectives of the WFD.
- Article 11(7) of the WFD establishes that measures have to be made operational by December 2012
- Article 15(3) WFD states that Member States will submit an interim report to the Commission describing progress in the implementation of the planned programme of measures by 2012.

RIVER BASIN MANAGEMENT PLANS
-Implementation of PoM in Tisza basin -

EUROPEAN LEVEL

- Concept: most important measures, relevant and feasible indicators.
- Identification of a limited number of key types of measures that will provide the bulk of improvement towards the achievement of WFD objectives across the majority of river basins in the EU.
- Identification a common quantitative indicators of relevance for the selected key types of measures that enable measuring progress in implementation of the PoMs.
- The quantitative indicators → to identify a baseline that allows comparing the past situation with the one in 2012 ; it is not expected to report precise quantities for the quantitative indicators, but only estimations (rough costs, estimated number of population etc.

TYPE OF MEASURE	INDICATOR
TO REDUCE POINT SOURCE POLLUTION	
➢ Construction or upgrades of wastewater treatment plants beyond the requirements of the Directive on Urban Waste Water Treatment (more advanced treatment than required in the UWWT Directive or constructions below the size threshold given in the UWWT Directive; please consider only WFD measures)	1.Number of plants / projects where the construction or upgrade of wastewater treatment plants beyond the requirements of the Directive on Urban Waste Water Treatment has started in comparison to number of plants / projects planned.
	2.Permits issued / updated for the construction or upgrades of wastewater treatment plants beyond the requirements of the Directive on Urban Waste Water Treatment
	3.Population equivalent affected until 2012 by the construction or upgrades of wastewater treatment plants beyond the requirements of the Directive on Urban Waste Water Treatment
	4.Estimated total cost of the construction or upgrades of wastewater treatment plants beyond the requirements of the Directive on Waste Water Treatment until 2012
➢ Upgrades or improvements of industrial wastewater treatment plants (including farms) beyond the requirements of the Integrated Pollution Prevention and Control (IPPC) Directive (please consider only WFD measures)	1.Number of plants / projects where the upgrades or improvements of industrial wastewater treatment plants (including farms) has started in comparison to number of plants / projects planned 2. Permits issued / updated for the upgrades or improvements of industrial wastewater treatment plants (including farms) 3. Estimated total cost of the upgrades or improvements of industrial wastewater treatment plants (including farms)
➢ Projects, schemes to construct or improve stormwater and combined sewer overflows (tanks, construction gates etc.)	1. Number of projects or schemes to construct or improve stormwater and combined sewer overflows 2. Number of urban agglomerations affected by projects or schemes to construct or improve stormwater and combined sewer overflows 3. Size / population of urban agglomerations affected by projects, schemes to construct or improve stormwater and combined sewer overflows 4. Estimated total cost of projects or schemes to construct or improve stormwater and combined sewer overflows
TO REDUCE DIFFUSE SOURCE POLLUTION	
➢ Reduce nutrient pollution in agriculture beyond the requirements of the Nitrates Directive (please consider only WFD measures)	1.Area covered by measures to reduce nutrients pollution in agriculture beyond the requirements of the Nitrates Directive 2. Proportion of land used for agriculture covered by measures to reduce nutrients pollution in agriculture beyond the requirements of the Nitrates Directive
➢ Reduce pesticides pollution in agriculture	1.Area covered by measures to reduce pesticides pollution in agriculture 2. Proportion of land used for agriculture covered by measures to reduce pesticides pollution in agriculture
➢ Remediation of contaminated sites (historical pollution including sediments, groundwater, soil)	Total area of the sites where remediation measures have started in relation to the total foreseen
HYDROMORPHOLOGY MEASURES	
➢ Improving longitudinal continuity (e.g. establishing fish passes, demolishing old dams)	✓Number of projects constructed to improve longitudinal continuity in relation to the total foreseen
➢ Improving lateral connectivity (e.g. river restoration, removing of embankments, reconnecting rivers to floodplains)	✓Length of rivers (in kms) affected by constructed projects to improve lateral connectivity in relation to the total foreseen
➢ Improvements of flow regime in existing infrastructures	✓Number of projects constructed to improve flow regime in existing infrastructures
➢ Establishment of minimum ecological flows	✓Length of rivers (in kms) affected by constructed projects to establish minimum ecological flows
WATER QUANTITY MEASURES	
➢ Water efficiency measures for irrigation (technical measures)	1.Number of projects improving water efficiency in irrigation 2. Area covered by projects improving water efficiency in irrigation 3. Total water saving potential of projects improving water efficiency in irrigation
WATER PRICING MEASURES	
➢ Water pricing in households	✓Area covered by water pricing measures in households
➢ Water pricing in industry	✓Number of sites affected by water pricing measures in industry
➢ Water pricing in agriculture	✓Area covered by water pricing measures in agriculture

OTHER MEASURES	
➢ Drinking water protection measures (e.g. establishment of safeguard zones, buffer zones)	1.Number of drinking water protection zones 2. Total area of drinking water protection zones 3. Number of drinking water abstractions safeguarded by drinking water protection zones 4. Percentage of drinking water abstractions safeguarded by drinking water protection zones
➢ Research, improvement of knowledge base reducing uncertainty	Total cost of research

MANAGEMENT OBJECTIVES RELEVANT FOR INTEGRATION OF WATER QUALITY AND QUANTITY (1)

ITRBMP objective:

- ❑ Ensure that all adverse effects linked to any additional water supply / water quantity infrastructure (like dams or reservoir) are fully taken into account in the environmental assessments for such infrastructure.

MEASURES BEING IMPLEMENTED

- ❑ A list of dams with height between 15 and 50 m was developed.
- ❑ Ongoing studies search design solution, specific to Romanian dams, to ensure fish migration.

MANAGEMENT OBJECTIVES RELEVANT FOR INTEGRATION OF WATER QUALITY AND QUANTITY (2)

ITRBMP objective:

- ❑Put in place water tariffs based on a consistent economic assessment of water uses and water value, with adequate incentives to use water resources efficiently and an adequate contribution of the different water uses to the recovery of the costs of water services, in compliance with WFD requirements.

MEASURE BEING IMPLEMENTED

- ❑GD 1202/2010 – establishing new water tariffs which takes into account a more efficient water use, cost recovery for water services and environmental protection (including polluter pay principle).

MANAGEMENT OBJECTIVES RELEVANT FOR INTEGRATION OF WATER QUALITY AND QUANTITY (3)

ITRBMP objective:

- ❑ Set up appropriate coordinated measures to restore sustainable balance between water resources availability, water demands and supply.

MEASURES BEING IMPLEMENTED

- ❑ Ongoing implementation of projects concerning water supply systems rehabilitation – reducing water loss through water supply networks.
- ❑ Increasing the safety of Mihoesti (Aries r.) , Berdu (Firiza r.), Runcu (Mara r.) and Varsolt (Crasna r.) dams and reservoirs.
- ❑ New dams and reservoirs in Bihor county – for water supply – with adequate measures for environmental protection.

MANAGEMENT OBJECTIVES RELEVANT FOR INTEGRATION OF WATER QUALITY AND QUANTITY (4)

ITRBMP objective:

- ❑ Progress towards a harmonized implementation of the Water Framework Directive (2000/60/EC) and the Floods Directive (2007/60/EC).

MEASURES BEING IMPLEMENTED

- ❑ National Management Plan and River Basin Management plans have been approved by the Government and submitted to EU
- ❑ The National Strategy for Flood Risk Management on medium and long term was developed and it was approved by Government Decision - GD 846/2010.
- ❑ The plans for flood defense, drought, ice water, hydraulic structures accidents and accidental pollution at river basins level and at counties level were up-dated and legally approved.
- ❑ Risk analysis and coverage plans at counties level were up-dated and legally approved .

MANAGEMENT OBJECTIVES RELEVANT FOR INTEGRATION OF WATER QUALITY AND QUANTITY (5)

ITRBMP objective:

- ❑ Protection, conservation and restoration of wetlands/floodplains to ensure biodiversity, pollution reduction in relation to the achieving of good status in the connected river and flood protection.
- ❑ To determine the implementation steps for restoration and re-connection of lost floodplains and wetlands along the Tisza River and its tributaries, a priority ranking needs to be developed considering the socio-economic context, and introduced taking flood retention and nutrient reduction into account.

MEASURES BEING IMPLEMENTED

- ❑ Legal measures for protection and conservation of existing wetlands / floodplains included in SPA and SCI.
- ❑ Ongoing integrated approach of the water bodies and natural protected areas.

MANAGEMENT OBJECTIVES RELEVANT FOR INTEGRATION OF WATER QUALITY AND QUANTITY (6)

ITRBMP objective:

- Design land use development measures (e.g. agriculture, future irrigation projects) and overall flood management measures in such a way that they contribute to reaching good ecological status and good ecological potential.
- Increased irrigation and related surface water abstraction.

MEASURES BEING IMPLEMENTED

- Studies concerning the irrigation reform in Romania were done .
- In future only economically viable land will be considered for irrigations.
- The land is irrigated using modern equipment with high returns.
- Specific works to reduce water loss through the channels were realized.

MANAGEMENT OBJECTIVES RELEVANT FOR INTEGRATION OF WATER QUALITY AND QUANTITY (7)

ITRBMP objective:

- Set up appropriate coordinated measures to ensure good groundwater quantity.
- Groundwater depletion because of over abstraction.

MEASURE BEING IMPLEMENTED

- The issue is not significant in the area so, no special measures are necessary.

MANAGEMENT OBJECTIVES RELEVANT FOR INTEGRATION OF WATER QUALITY AND QUANTITY (8)

ITRBMP objective:

- Identify climate change impacts at the Tisza basin-wide scale and assess whether and how these impacts affect the Tisza scale Programme of Measures and vice versa (e.g. are certain measures effective or can certain measures be considered as no-regret measures in relation to climate change adaptation).

MEASURES BEING IMPLEMENTED

- A new National Adaptation Plan to Climate Changes (2011 – 2020) will be presented in 2011.
- A study concerning "Scenarios of climate change regime in Romania during 2001 – 2030" was elaborated by the Romanian Meteorological Administration.

MANAGEMENT OBJECTIVES RELEVANT FOR INTEGRATION OF WATER QUALITY AND QUANTITY (9)

ITRBMP objective:

- Hydromorphological pressures from flood protection measures.

MEASURES BEING IMPLEMENTED

- Flood protection works provided to be achieved in the next period focus on increasing the transport capacity of water courses, dykes are proposed only if it is necessary to protect the population.
- Ecological- friendly measures are proposed.

MANAGEMENT OBJECTIVES RELEVANT FOR INTEGRATION OF WATER QUALITY AND QUANTITY (10)

ITRBMP objective:

- Accidental pollution due to flooding

MEASURES BEING IMPLEMENTED

- A proposal to up-date the procedure to be followed in case of accidental pollution for transboundary waters was made.
- Law 259/2010 – Dykes safety law.

MANAGEMENT OBJECTIVES RELEVANT FOR INTEGRATION OF WATER QUALITY AND QUANTITY (10)

ITRBMP objective:

- Loss of wetlands.

MEASURE BEING IMPLEMENTED

- Some studies concerning reconnection and restoration of wetlands are in preparation.

Thank you very much for your attention!