Implementation of the water Directives in Romania

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- 97.4% of Romania’s surface is located in the Danube River Basin
- Romania represents 29% from Danube River Basin surface
- The Danube River has 37.7% of its length on Romanian territory
River basins /sub-units in Romania

- SH SOMES - TISA
- SH SIRET
- SH PRUT - BARLAD
- SH CRISURI
- BH MURES
- SH BANAT
- BH OLT
- SH BUZAU - IALOMITA
- SH ARGES - VEDEA
- SH DOBROGEA - LITORAL

Delta Dunarii
Ape Costiere
Implementation of WFD in Romania

- **Legal**: Water Law 107/1996

- **Organizatorical**:
  - Ministry of Environment and Climate Change, Department of Water, Forests and Fisheries
  - National Administration “Apele Romane”
    - 11 River Basin Administrations
    - National Institute for Hydrology and Water Management (INHGA)

- **Consultative**: River Basin Committees

- **Technical**:
  - Elaboration and implementation of guidelines, studies, research, training
  - Endowment with hardware and software for GIS, database and with lab devices for ensuring monitoring
  - Participation in international projects
  - Participation at international, European, basinal and bilateral activities
WATER RESOURCES PLANNING

SCHEME OF DEVELOPMENT AND MANAGEMENT - components -

QUANTITY WATER MANAGEMENT

QUALITY WATER MANAGEMENT

RIVER BASIN DEVELOPMENT PLANS

RIVER BASIN MANAGEMENT PLANS
RIVER BASIN MANAGEMENT PLAN

GOAL and OBJECTIVES

Setting of measures, actions, solutions and works for protection of surface and ground waters through:

- prevention of further deterioration and reaching and maintaining of good status of aquatic ecosystems
- promotion of sustainable water use
- progressive reduction of pollution from priority substances and ceasing out of discharges, emissions and losses of priority hazardous substances
- progressive reduction of groundwater pollution and further
- pollution prevention

ELABORATION DEADLINE

22 December 2009

UPDATE

each 6 years
The main steps through WFD implementation

- National management plan - the synthesis at the national level of 11 river basin management plans (RBMPs)
  - Elaboration at 22 December 2009
  - RBMPs were presented, discussed and approved in the river basin committees
  - Reporting to European Commission at 22 March 2010
- Approved through governmental decision 80/2011 after SEA procedure
- Elaboration and reporting to the EC of the interim report on POM implementation – 2012
- 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) - 2013

- Interim overview of significant water management issues at the river basin level (22.12. 2013 – 22.06. 2014) – public consultation process!

SIGNIFICANT WATER MANAGEMENT ISSUES IN THE DRBD AND AT THE NATIONAL LEVEL

**Organic pollution**
- Zero emission of untreated wastewaters

**Nutrients pollution**
- No threat or impact by eutrophication

**Hazardous substances pollution**
- No risk or threat to human health or to aquatic ecosystem

**Hydromorphological alterations**
- Acquatic ecosystems habitat for all native species
Corpurile de apa de suprafata
PROGRAM OF MEASURES

Categories of pressures:
- Agglomerations
- Agricultural activities
- Industrial activities
- Hidromorphological alterations

⇒ BASIC MEASURES:
⇒ minimum set of obligatory measures
⇒ WFD Art. 11/3 and Annex VI part A
  ➢ UWWT-Directive
  ➢ Nitrates Directive etc

⇒ SUPPLEMENTARY MEASURES:
⇒ set of additional measures to reach the environmental objectives
⇒ WFD Art. 11.4 and Annex VI part B
  ➢ Legislative, administrative, economic instruments
  ➢ educational projects, research etc.

⇒ Total costs 2010-2027 – around 21 billions Euro
Basic measures for human agglomerations

- RO is a sensitive area - more advanced wastewater treatment for nutrients for all agglomerations above 10,000 p.e.

- Compliance deadlines:
  - agglomerations above 10,000 p.e. by 2013 for wastewaters collection and 2015 for advanced wastewater treatment;
  - agglomerations 2000 - 10000 p.e. – by 2018 for wastewaters collection and secondary treatment

- Basic measures are generally:
  - Works for extension/construction of sewerage network, for extension/construction of UWWTPs with secondary and advanced treatment (nutrients removal) and sludge management.
Basic measures for human agglomerations

**IMPLEMENTATION PERIOD**

<table>
<thead>
<tr>
<th>EU Directive</th>
<th>Transition period</th>
<th>Associated costs (billion EURO)</th>
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<tr>
<td>Drinking Water Directive 98/83</td>
<td>2015</td>
<td>5.6</td>
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<tr>
<td>Waste Water Directive 91/271</td>
<td>2018</td>
<td>12.8</td>
</tr>
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</table>

Connecting rate to water infrastructure

Water supply infrastructure

Waste water infrastructure
Basic measures for agriculture (Nitrate Directive)

✓ NVZs were designated in 2005 - 6.94% of country surface and then revised in 2008 and enlarged - 58% of the surface. Since June 2013, whole territory approach is applied

Measures generally refer to:
- implementation of the provisions of Good Agriculture Practices Code and APs
- construction of manure storage and waste water storage facilities
- construction/upgrading waste water treatment plants
- implementation of BAT
Characterisation

Monitoring programme

River Basin Management Plan

Good status

Flood Risk Management Plan

Preliminary evaluation of floods risk

River Basin Management Planning

Risk Management Planning

River Basin Management Plan
FLOODS RISK MANAGEMENT
LEGAL FRAMEWORK AND IMPLEMENTATION STEPS


1) PRELIMINARY FLOOD RISK ASSESSMENT – 22.03.2012

2) FLOOD HAZARD AND RISK MAPS - 22.03.2014

3) FLOOD RISK MANAGEMENT PLAN - 22.12.2015
FLOOD RISK AND FLOOD RISK REDUCTION IN CLIMATE CHANGE CONTEXT

National Strategy for Flood Risk Management: general framework for objectives and measures

River Basin Development Plan
(STRATEGIC PLAN for QUANTITATIVE Water Management issues including FLOODS)

Floods Defense Plans at the locality, county and river basin level
-adress to operative measures, before, during and after floods

National Plan for Floods Protection, Prevention and Mitigation
(PROJECT having as result hazard and risk maps and FLOOD MEASURES PLANNING)
POTENTIAL SIGNIFICANT FLOOD RISK AREAS
# Timetable of the WFD and MSFD

|-------------|--------------|

<table>
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<tr>
<th>Timetable Items</th>
<th>River Basin Management Plans (1st cycle in 2009)</th>
<th>National marine strategy</th>
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<tr>
<td>Reporting Cycle</td>
<td>6 year reporting cycle</td>
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<tr>
<td>Analysis</td>
<td>Initial assessment (characteristics, pressures/impact, socio-economic analysis), determination of GEnS, environmental targets 2012 (and each 6 years thereafter)</td>
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<td>Monitoring</td>
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<td>Monitoring 2014 (“Technical and administrative support for the joint implementation of the MSFD in Bulgaria and Romania”)</td>
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<td>Measures</td>
<td>Measures 2009/2012 (and each 6 years thereafter)</td>
<td>Measures 2015/2016 (and each 6 years thereafter)</td>
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<td>GS/GP +</td>
<td>GS/GP + prevent deterioration + progressive reduction and phasing out of PS/PHS 2015</td>
<td>GEnS 2020</td>
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<tr>
<td>work continuously done</td>
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Thank you for attention!