NOVIWAM Project

- **NOVel Integrated WAter Management Systems for Southern Europe - NOVIWAM**
- 7FP - Capacities
- 19 Partners – 5 Clusters
- Goals:
  - to facilitate triple helix cooperation (researchers, authorities and entrepreneurs) in each regional cluster
  - to become a wide European research-driven network of clusters
  - to define new water-related research and technological development (with main focus on tools and methods for IWRM)
4 Working Packages:
- **WP1**: Characterization of Regional Clusters and Research Agendas
- **WP2**: Definition of a Joint Action Plan
- **WP4**: Measures towards the implementation of the joint action plan
- **WP3**: Mentoring regions, mutual learning

Plus
- **WP5**: Dissemination and Communication
- **WP6**: Management
Methodology: Multiple discrete approach

1. Stakeholder Analysis

Based on
Selected by NOVIWAM partners from Database, Website, Networks...

In order to
Contextualize the study of the region

By 3 main sources of information

2. Desk work

Distributed amongst partners by
Background and experience of each regional partner

3. Online Survey

Developed by partners and forwarded to
Stakeholders

3. Interviews

Carried out at the regional level
Regional Partners

Serve as a basis for

5. Global and Regional SWOT Analysis

29 SEPTEMBER, 2011
EUROPE-INBO 2011, PORTO, PORTUGAL
Methodology: Survey Results

- Response rate
- % Completeness
- Complex survey tree
- >15min
- Stakeholder Power Analysis

Responses to survey

<table>
<thead>
<tr>
<th>Country</th>
<th>Number of contacts</th>
<th>Responses</th>
<th>Complete responses</th>
</tr>
</thead>
<tbody>
<tr>
<td>Portugal</td>
<td>461</td>
<td>73</td>
<td>41</td>
</tr>
<tr>
<td>France</td>
<td>818</td>
<td>121</td>
<td>68</td>
</tr>
<tr>
<td>Spain</td>
<td>2080</td>
<td>226</td>
<td>113</td>
</tr>
<tr>
<td>Cyprus</td>
<td>83</td>
<td>25</td>
<td>17</td>
</tr>
<tr>
<td>Albania</td>
<td>123</td>
<td>57</td>
<td>40</td>
</tr>
<tr>
<td>Non-Noviwam countries</td>
<td>137</td>
<td>34</td>
<td>21</td>
</tr>
</tbody>
</table>

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Methodology: SWOT

- What is a SWOT
  - A tool (not the purpose!!!)
  - Used in marketing to “GPS” your company/institution
- Internal Factors: S ↔ W
- External Factors: O ↔ T
- Critiques and optimization:
  - Usually bias (pessimistic of optimistic)
  - Solution: get data from different, independent sources.
  - Put the right question: SWOT ON THE USE AND DEVELOPMENT OF NEW TOOLS IN WATERSHED PLANNING
SWOT Results

Strengths

- Willingness of improvement from Water Authorities
- Legal framework is sound

Weaknesses

- Data management:
  - Lack of accessibility → poor use of the data
  - Insufficient knowledge and experience
- Complexity of the network of legal competency

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SWOT Results

Oportunities

- EU has set priorities for sustainable use of water (e.g. institutional reforms + WFD art 9 and 14)
- Increased cooperation amongst the entities.

Threats

- Global crisis may affect the RTD activities.
- Low social internalization of public participation.
Development of the Joint Action Plan

- **SWOT Analysis**: Identification of Strengths, Weaknesses, Opportunities and Threats
- **Selection of Themes**: Identification of Scientific and Capacitation themes relevant in the area
- **JAP Activities**: Development and selection of activities aimed at solving the problems identified in the SWOT based on the selected themes
### Scientific activities

<table>
<thead>
<tr>
<th>9 objectives</th>
<th>Themes in the JAP</th>
</tr>
</thead>
<tbody>
<tr>
<td>1- Assessment and monitoring of water bodies status</td>
<td>Influence of human activities – Tools &amp; Meth to evaluate Ecological impact on physico-chimical state of waterways</td>
</tr>
<tr>
<td>2- Management of extreme event risk scenarios</td>
<td>Identification of urban and rural flood risk areas - Sustainable urban drainage systems – Initiatives for avoiding urban growth in flood risk areas - Systems to alert</td>
</tr>
<tr>
<td>3- Management of groundwater bodies</td>
<td>Vulnerability assessment - Emergent pollutants – vulnerability assessment – nitrates contamination</td>
</tr>
<tr>
<td>4- Management of costal and transitional water bodies</td>
<td>Overexploitation &amp; saline water intrusion - Salinity in estuaries – Costal erosion – Sedimentation process – understanding of estuarine areas ...</td>
</tr>
<tr>
<td>5- Management of interior surface water bodies</td>
<td>Eutrophisation process (dams) – river ecosystem – impact of pharmaceutical products – snow processes</td>
</tr>
<tr>
<td>6- Water social and economical value</td>
<td>Social &amp; economic impacts of water pricing policy – water service costs recovery – prevention of social &amp; economic conflicts due to water uses – social &amp; economic equity - ...</td>
</tr>
<tr>
<td>7- Water infrastructures</td>
<td>Losses in infrastructures for irrigation – losses in water distribution network – coordination between infrastructures</td>
</tr>
<tr>
<td>8- Alternative sources</td>
<td>Desalinization – reuse of wastewater for agriculture – rain water</td>
</tr>
<tr>
<td>9- Integration of new technologies</td>
<td>Remote sensing, GIS</td>
</tr>
</tbody>
</table>
## Capacity building activities

<table>
<thead>
<tr>
<th>Objectives</th>
<th>Themes in the JAP</th>
</tr>
</thead>
<tbody>
<tr>
<td>1- Bridging knowledge links between triple helix actors</td>
<td>Promotion of public consultations, enforcement of open access to environmental information; tools for an efficient articulation between the different planning and management tools and actors; channels for the participation of researchers on the decision making, Initiatives to increase data transfer among the triple helix</td>
</tr>
<tr>
<td>2- Improving governance and institutional capabilities</td>
<td>Promotion of water management tools; cooperation between transboundary water authorities Increase data sharing amongst adm. Water governance models Water management &amp; planning at transboundary river basin level</td>
</tr>
</tbody>
</table>
- JAP report close to be released
- International conference by end 2012
- Interest in new Mediterranean clusters

Thank you for your attention!

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