



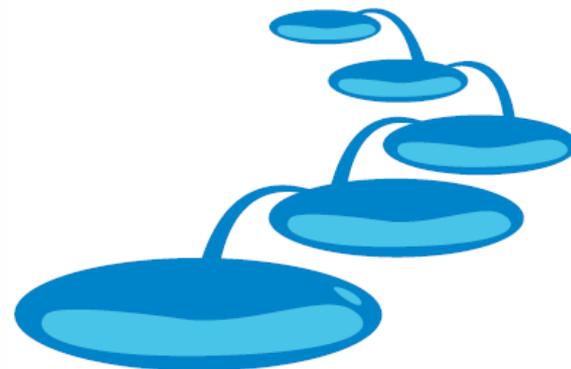
NOVIWAM

Southern European Regions

Novel Integrated Water
Management Systems



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NOVIWAM: WATER MANAGEMENT TRIPLE HELIX COOPERATION

29 SEPTEMBER, 2011
EUROPE-INBO 2011, PORTO, PORTUGAL

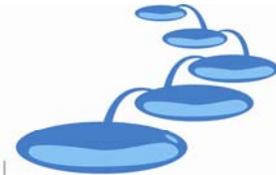


NOVIWAM Project

- ❖ *NOVel Integrated WAter Management Systems for Southern Europe - NOVIWAM*
- ❖ 7FP - Capacities
- ❖ 19 Partners – 5 Clusters
- ❖ Goals:



NOVIWAM | Novel Integrated Water Management Systems
Southern European Regions



- 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)

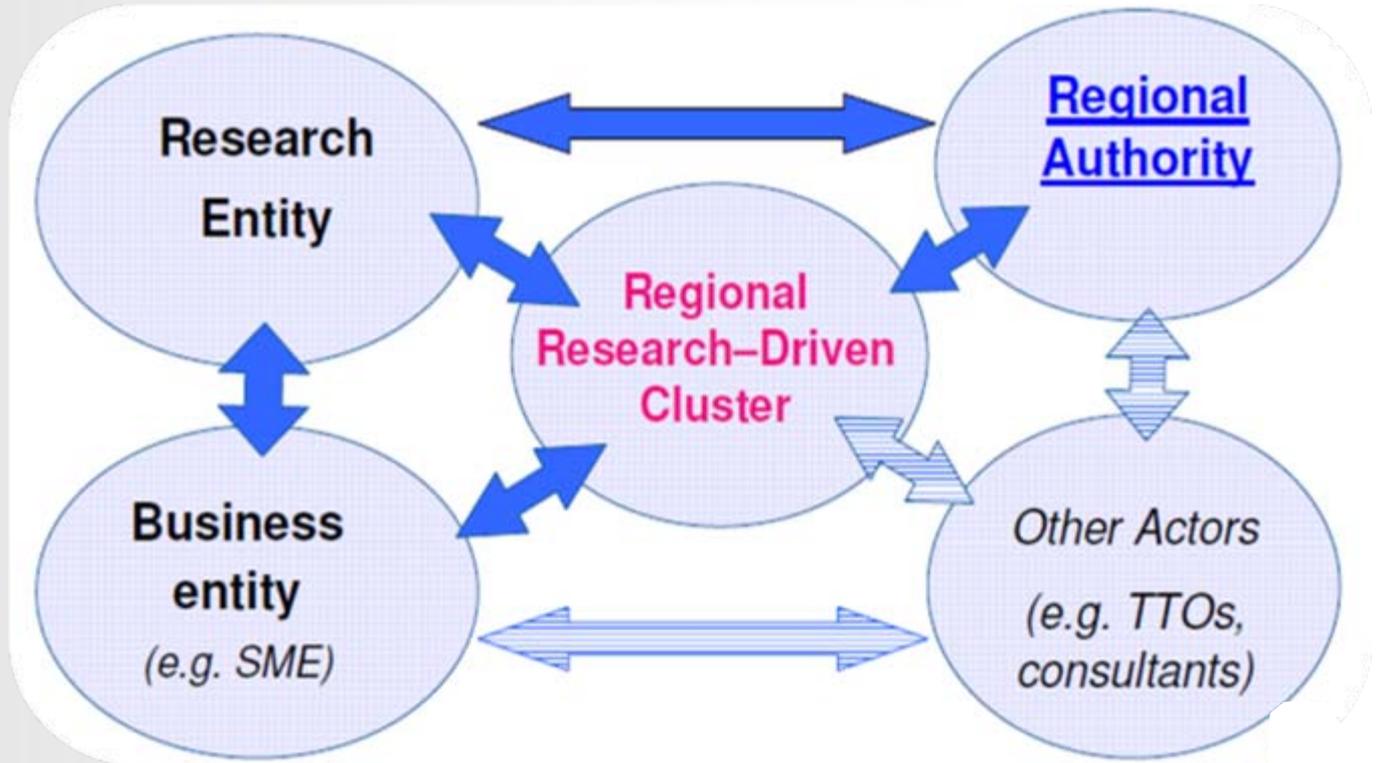


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TRIPLE HELIX





NOVIWAM Project

❖ 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**

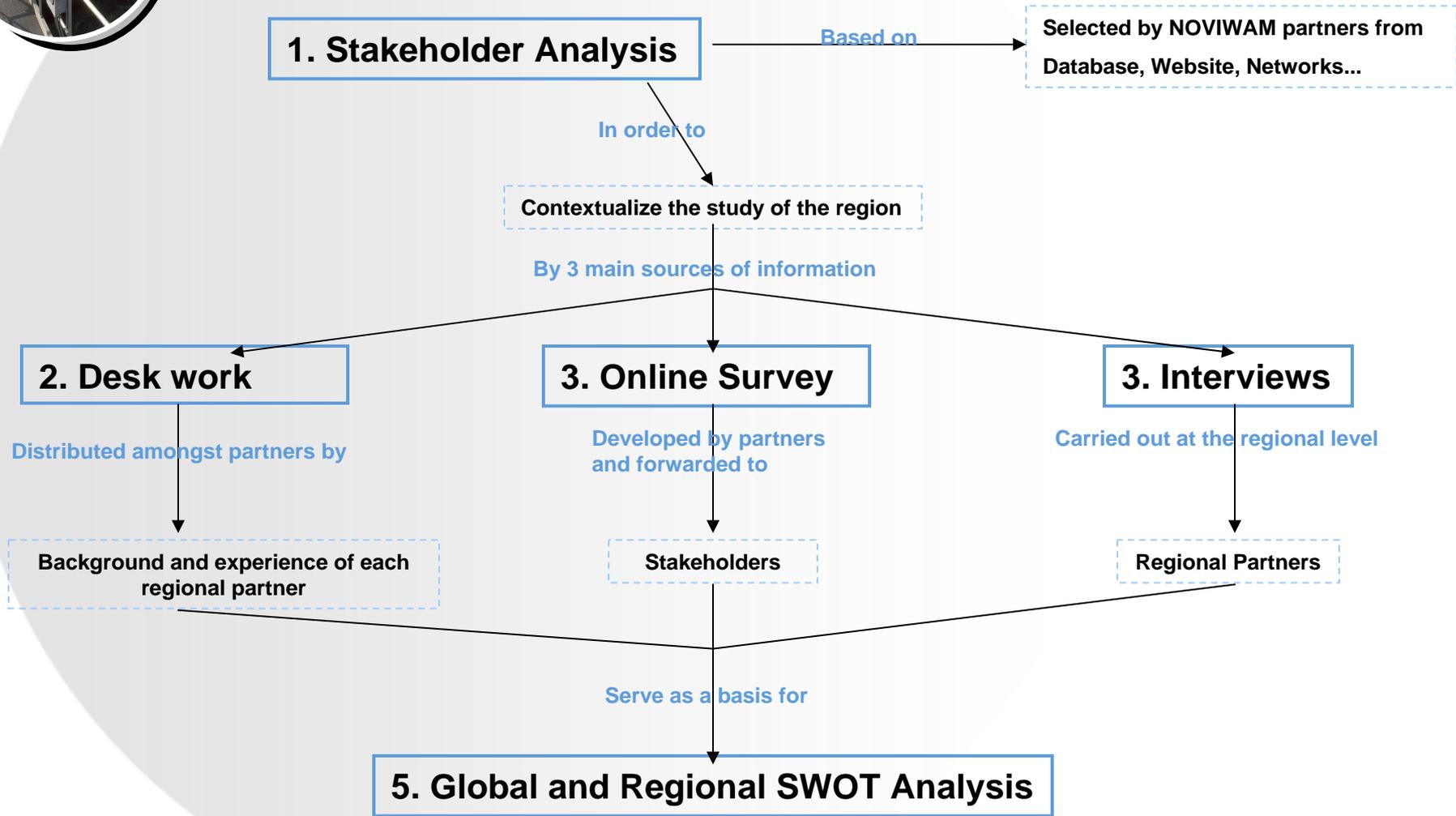
❖ Plus

- **WP5: Dissemination and Communication**
- **WP6: Management**





Methodology: Multiple discrete approach

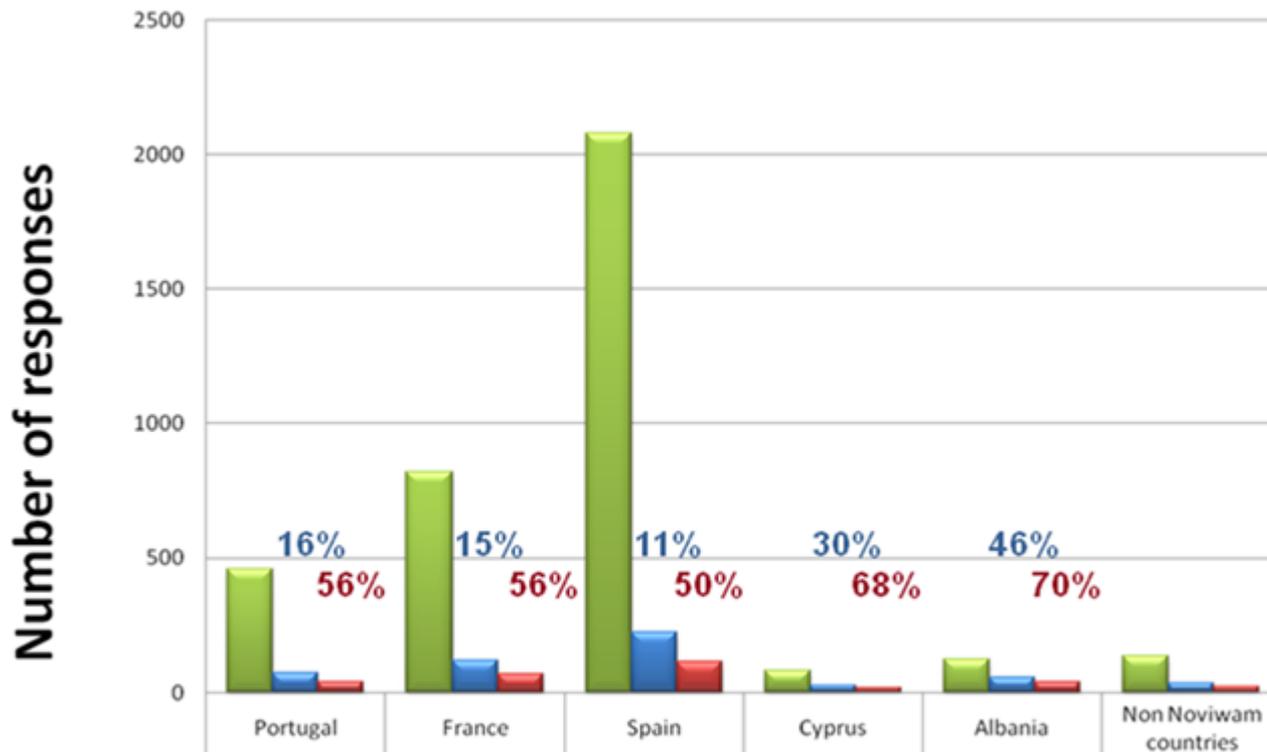




Methodology: Survey Results

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

Responses to survey



■ Number of contacts	461	818	2080	83	123	137
■ Responses	73	121	226	25	57	34
■ Complete responses	41	68	113	17	40	21





Methodology:SWOT

- ❖ What is a SWOT
 - A tool (not the purpose!!!)
 - Used in marketing to “GPS” your company/institution
- ❖ Internal Factors: $S \leftrightarrow W$
- ❖ External Factors: $O \leftrightarrow T$
- ❖ Critiques and optimization:
 - Usually bias (pessimistic or 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





SWOT Results

Opportunities

- ❖ 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.





JAP

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





JAP

Scientific activities

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





JAP

Capacity building activities

Objectives	Themes in the JAP
1- Bridging knowledge links between triple helix actors	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
2- Improving governance and institutional capabilities	Promotion of water management tools; cooperation between transboundary water authorities Increase data sharing amongst adm. Water governance models Water management & planning at transboundary river basin level



- ❖ 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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