

BeWater

Making society an active participant in water adaptation to global change

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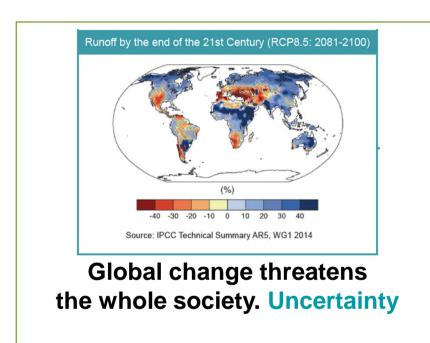


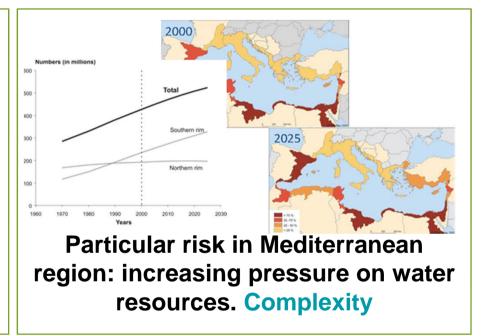




European Union's Seventh Programme for research, technological development and demonstration under grant agreement No 612385

A collaborative response to Global Change





ADAPTATION

Dialogue and collaboration between science and society for sustainable water management & adaptation to the impacts of global change in the Mediterranean

Key objectives

Cyprus

Apply an innovative, stakeholder-driven method of societal transition towards a less vulnerable more sustainable and adaptive river basin management

Promote the **transfer** of BeWater results into management and adaptation policy

Promote mutual and multi-directional learning among partners, entities and actors within and between the river basins and with the broader society

Enhance social participation and build societal resilience

Dialogue and collaboration between science and society

Participatory methodology



Co-creation of four **River Basin Adaptation Plans**



Iterative approach

Science based work: case study partne

project partners

Participatory events:

experts and stakeholders

Science based work project consortium

Applying BeWater approach to other river basins & sectors



by or can affect the transition towards a more sustainable, resilient and adaptive river basin management?

Identify stakeholders for the river basin

What is the available scientific information on the current and future situation in

What do we want to achieve in the river basin?

Compile available information on climate change impacts and future trends

Develop narratives on the current status and identify challenges of the river basin



the options to achieve this?

Develop a model for the river basin

Formulate water management options



Assess the impacts of the options through the model



How do the options fit within the relevant policy and decision-making Evaluate the options based on multiple decision criteria



Evaluate the role of existing policies in the implementation of the options



Which synergies or conflicts arise between the options and how can they be grouped together? Identify key stakeholders and their potential roles in implementing the options



Assess co-benefits and conflicts arising between options in order to group them in bundles

When should the options be implemented?



Assess the optimal timing for implementing the options

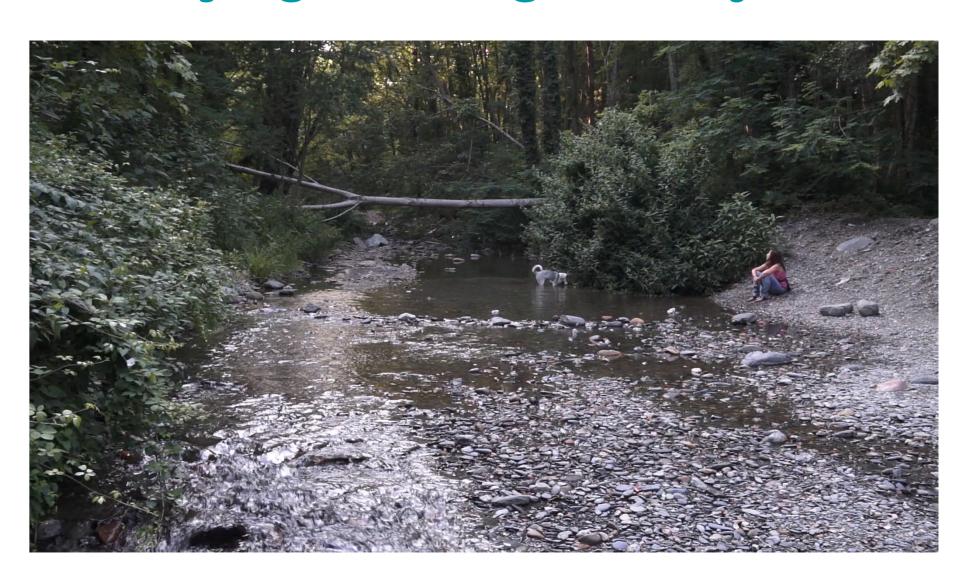


River Basin Adaptation Plan

Participation for better problem identification, more suitable solutions and increased consensus \rightarrow sustainable decisions Stakeholder workshops



Problem scoping: Identifying challenges & objectives



Collaborative diagnosis: the current and future state of the basins

Science-based information:

- Series of meteorological data
- Climate projections at regional scale
- Land use changes
- Demographical trends
- DPSIR analysis
- Biophysical and socio-economic vulnerability and impact analysis
- ...



Stakeholder inputs:

- Citizen perceptions on current and foreseen challenges arising from climate change impacts
- Drivers of global change in the basin
- Relationship between key factors characterising the basin's dynamics
- Current and planned regional and local policies
- Common vision about the desired state of the basin
- ...

River basins challenges

Vipava (Slovenia):

- Water availability during droughts in growing season
- Flood risk reduction
- Appropriate water quality

Rmel (Tunisia):

- Water quantity
- Water quality
- Agriculture
- Forest & biodiversity management
- Awareness of civil society
- Human resource and employment

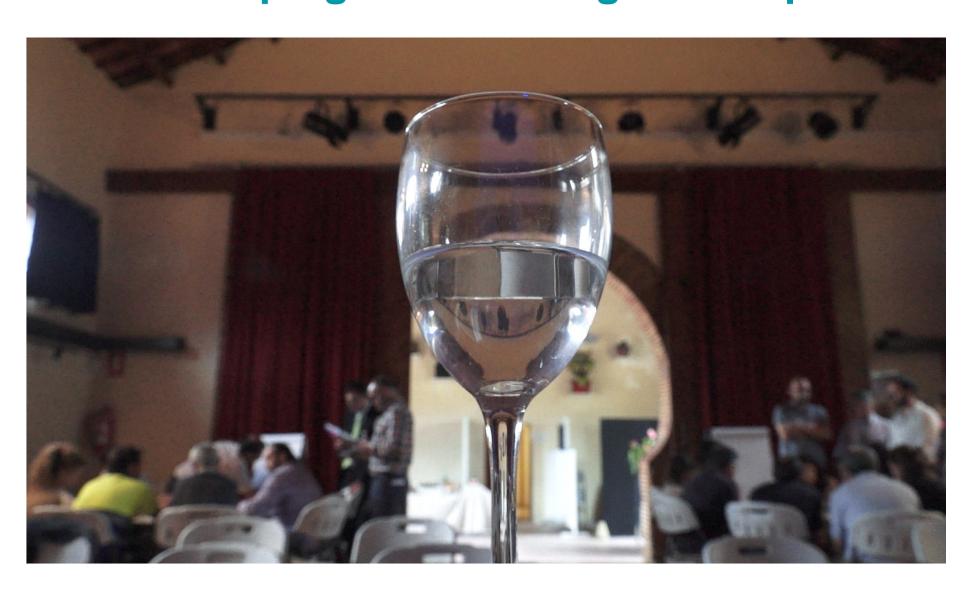
Tordera (Spain):

- Water quantity
- Water quality
- Health of forests & water ecosystems
- Integrated Water Management

Pedieos (Cyprus):

- Quantitative and qualitative status of groundwater
- Quantitative and qualitative status of surface water
- Flooding from the river

Problem solving: Co-developing water management options



Challenges and solutions in Pedieos (Cyprus)



Evaluation of water management options







Preparing Adaptation Plans Implementation-oriented information

Policy framework

Current relevant legislation

Plans and programs

Local policy development

Stakeholder willingness

Key stakeholders

Actors to be engaged

Position of public authorities

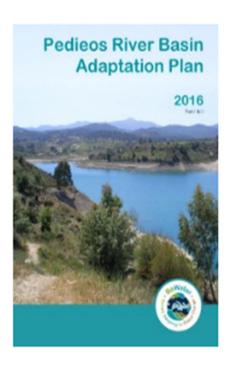
References

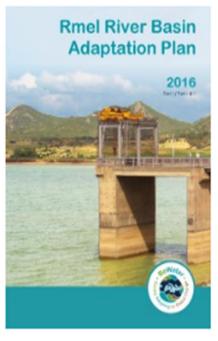
Similar cases

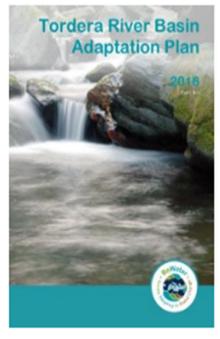
Barriers and opportunities

Funding

Four Adaptation Plans





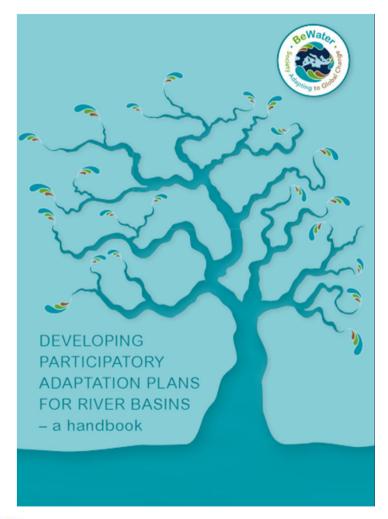








Handbook of lessons learned







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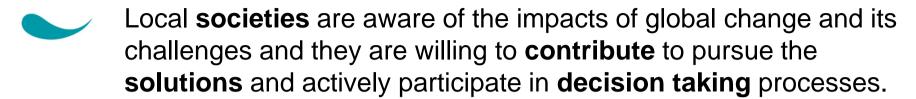
Policy recommendations: EU, national/regional, local levels



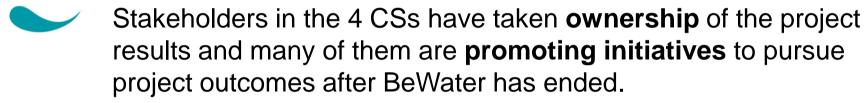
Policy recommendations: EU, national/regional, local levels

- Adaptation should be understood not merely as a technical approach but rather as a wider political and social process: societal vision building and collaboration across and between sectors to develop more robust and suitable solutions.
- Small scale, replicable interventions should be funded and supported by the EU to achieve wider-reaching adaptation impact.
- There is need to increase the political will for stronger forms of participation within adaptation decision-making processes, and for a subsequent reform of governance process.
- Defining clear goals about the aim of the participatory process is crucial for ensuring legitimacy, political uptake and sustained engagement.

Final remarks







Mainstreaming into policy development, plans and programs has been fostered.









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