

Portugal's Adaptation approach to Climate Change Impacts on Water Resources



MARSEILLE, FRANCE '12

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ENAAC

Portuguese Strategy on Adaptation to Climate Change

4 Objectives:

🔥 Information and knowledge

🔹 It is the basis for the development of the strategy, focusing on the need to collect, consolidate, and develop a strong technical and scientific basis;

🔥 Reducing vulnerability and increasing the response capacity

🔹 It is the core of ENAAC and frames the work of identification of vulnerabilities, definition of priorities and implementation of the main adaptation measures;

🔥 Participation, awareness raising and dissemination

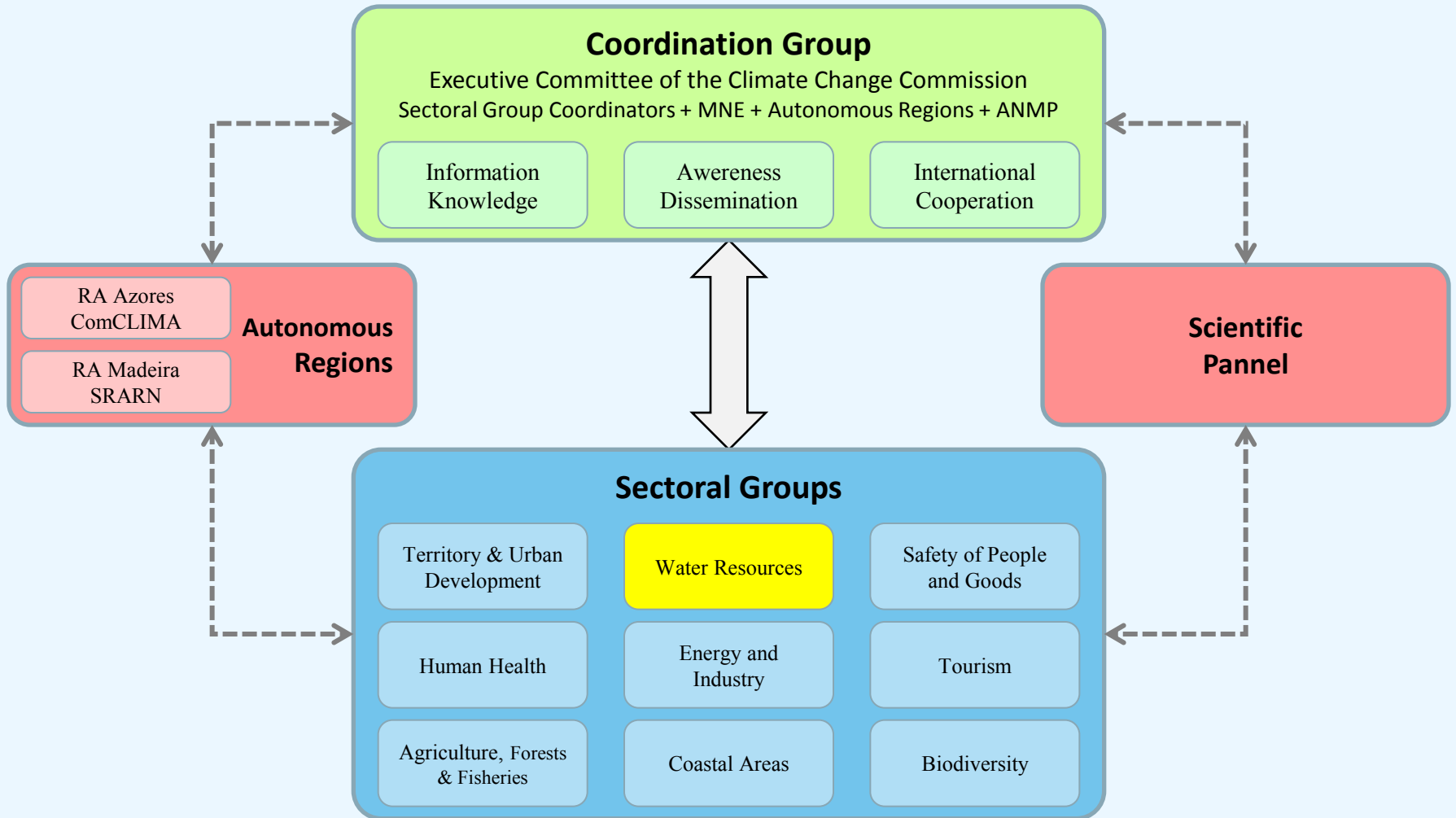
🔹 It highlights the importance of raising the awareness and promoting the involvement of stakeholders in the efforts to identify and implement the most adequate adaptation measures;

🔥 International cooperation.

🔹 It addresses cooperation efforts within the European Union, the UNFCCC and other international fora to promote coordination and information sharing and to support adaptation efforts in developing countries.

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Portuguese Strategy on Adaptation to Climate Change



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The first 2 years of implementation

- 🔥 **Compile, collect and organize existing information with relevance for adaptation to climate change**
 - 💧 A lot of research exists already, but is dispersed and is not easily accessible
- 🔥 **Making sectors begin to consider adaptation in a structured way**
 - 💧 Have a first list of priorities and potential adaptation measures for all sectors
- 🔥 **Initiate a Programme to support adaptation related projects**
 - 💧 Initiate a few studies with strategic relevance for Portugal; fill information gaps
 - 💧 Work with some sectors/companies to perform climate risk analysis of their activities
- 🔥 **Initiate and develop a communication strategy with the public on adaptation**
 - 💧 Internet site, School kit

Sectoral Strategy on the Adaptation to the Impacts of Climate Change on Water Resources

- 🔥 *Commissioned by INAG (National Water Authority)*
- 🔥 *Conducted by an inter-disciplinary team of water and sectoral researchers and specialists*
- 🔥 *Broad overview of impacts of climate change on water availability, demand and quality and its implications to a range of economic sectors*
- 🔥 *7 sectors considered -> Programmes of adaptation measures developed for each sector*

Sectoral Strategy on the Adaptation to the Impacts of Climate Change on Water Resources

Strategic Objectives and Specific Goals

Strategic objective	Specific goal
Reduce pressures on water resources	Manage water demand to reduce dependency on water
	Protect water bodies and their dependent ecosystems
Safeguard water supply reliability;	Improve water resources planning and management procedures
	Reinforce, upgrade or adapt water management infrastructures
Manage risk	Evaluate climate change induced risk
	Upgrade monitoring, forecast and alert systems
	Raise public awareness on climate change induced risks
	Upgrade of infra-structures for flood protection
Promote research and knowledge	Strengthen climate monitoring and analysis programs
	Review methodologies and criteria for the design and performance evaluation of water systems and infrastructures
	Promote public awareness and technical training

Sectoral Strategy on the Adaptation to the Impacts of Climate Change on Water Resources

Sectors and Programmes of Adaptation

Sector	Programs of adaptation measures
Water resources planning and management	Water bodies protection
	Improvement of water resources planning and management processes
	Increase of water storage and flow regulation capacity
	Diversification and reinforcement of water supply sources
Ecosystems and biodiversity	Preservation of physical, chemical and biological conditions and of biodiversity
	Preservation and enhancement of hydrological and hydromorphological conditions
Water services	Promotion of water use efficiency
	Diversification and reinforcement of water supply sources
	Improvement of quality control and water treatment capacity for human consumption
	Review/upgrade the operational procedures in wastewater drainage/treatment systems
Agriculture and forests	Increase of irrigation efficiency
	Promotion of agricultural soils water retention capacity
	Control and reduction of winter runoff
	Selection of forests species
	Water and organic matter content increase in forest soils
Electricity production	Enhancement of the robustness of the electricity production system
	Risk management and economic valuation
Coastal zones	Coordination of risk management and land management instruments
	Flood prevention and forecast
Tourism	Promotion of water use efficiency



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