

# International River Basin Management High Level Symposium. Cappadocia, Turkey. 16-18 April 2013



## Country presentation: SPAIN





- 1. Country Water Facts and Figures**
- 2. Water management framework in Spain**
- 3. Current status of RBMPs**

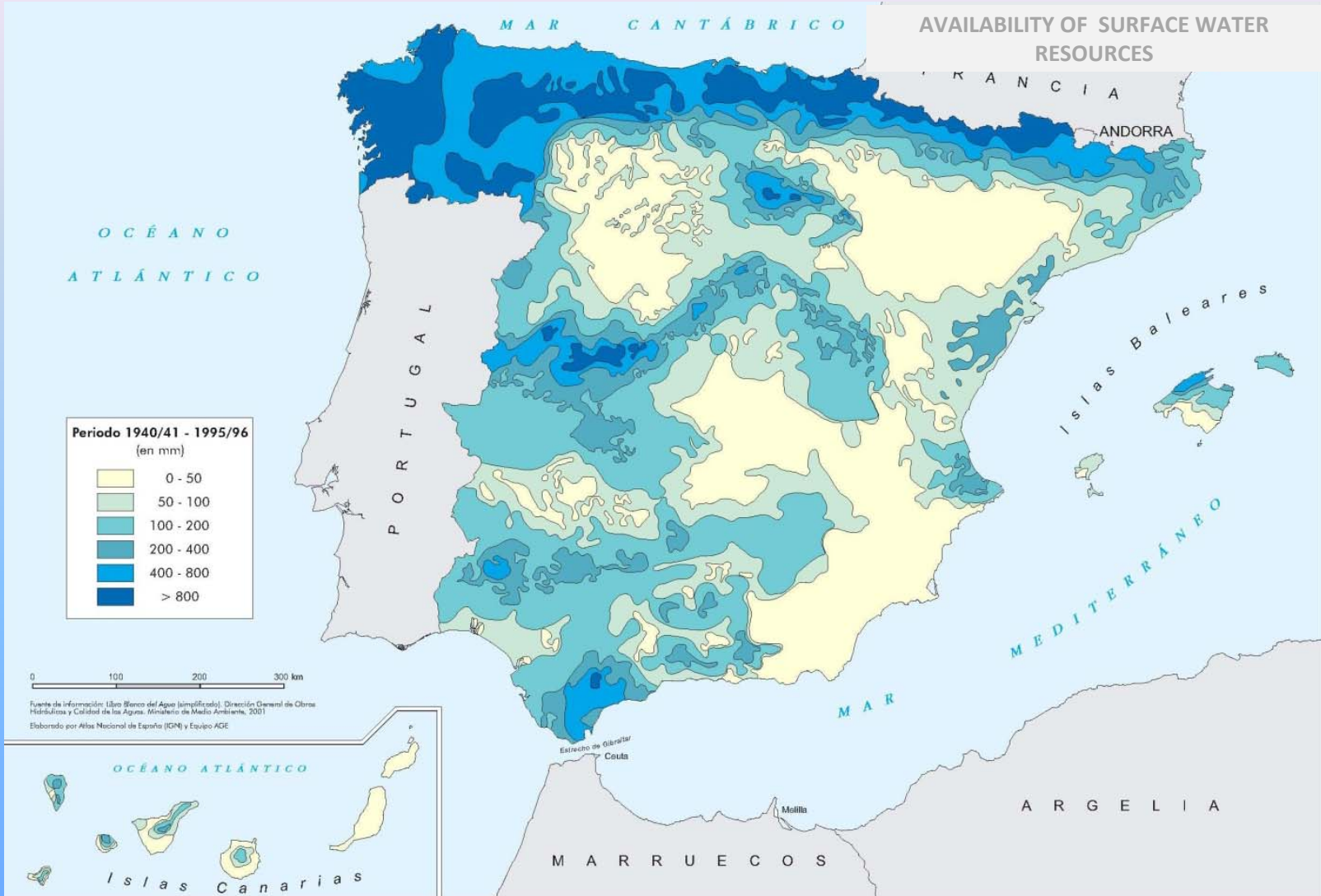


Presentation structure



INTERNATIONAL RIVER BASIN  
MANAGEMENT  
HIGH LEVEL SYMPOSIUM.  
Cappadocia, Turkey, 16-18 April 2013

# COUNTRY SHEET (WATER FACTS AND FIGURES)



Water facts and figures



**INTERNATIONAL RIVER BASIN  
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<b>Area km<sup>2</sup></b>	780,000 km <sup>2</sup>	506,314 km <sup>2</sup>
<b>Number of river basins</b>	25	25
<b>Annual precipitation capacity</b>	643 mm/m <sup>2</sup>	665 mm/m <sup>2</sup>
<b>Annual available surface water</b>	501 billion m <sup>3</sup>	337 billion m <sup>3</sup>
<b>Annual available groundwater</b>	98 billion m <sup>3</sup>	56.6 billion m <sup>3</sup> <sup>(1)</sup>
<b>Used groundwater</b>	14 billion m <sup>3</sup>	29 billion m <sup>3</sup> <sup>(2)</sup>
<b>Annual total available water</b>	13.1 billion m <sup>3</sup> /y ( % 93 of it is allocated)	5.5 billion m <sup>3</sup> /y (18,9%) <sup>(2)</sup>
<b>Population (2010)</b>	112 billion m <sup>3</sup>	86 billion m <sup>3</sup>
<b>Used water for irrigation</b>	74 milion	47 million
<b>Used water for drinking</b>	32 billion m <sup>3</sup> (%73)	24 billion m <sup>3</sup> (79,2%)
<b>Used water for industry</b>	7 billion m <sup>3</sup> (%16)	4.6 billion m <sup>3</sup> (15,4%)
<b>Used water for livestock</b>	5 billion m <sup>3</sup> (%11)	1.6 billion m <sup>3</sup> (5,4%)
<b>Used water for other uses</b>	-	-
<b>Total used water</b>	-	-
<b>The ratio of total used water to water potential</b>	44 billion m <sup>3</sup>	30 billion m <sup>3</sup>
<b>Hydro power</b>	40%	36%
<b>- Installed</b>	17,372 MW	18,217 MW
<b>- produced</b>	62 Billion KWh	35.7 Billion KWh

(1) Reservoir capacity

(2) White Book about Water in Spain



LEGAL BACKGROUND

 Water Framework Directive (WFD- 2000/60/CE)

Implementation of the WFD in Spain (before dic 2003):  
CIS (Common Implementation Strategy)

Water Planning Regulations (RD 907/2007)

Modification of the Spanish Water Law (RD 1/2001) by Law 62/2003

Water Planning Instruction (ARM/2656/2008)

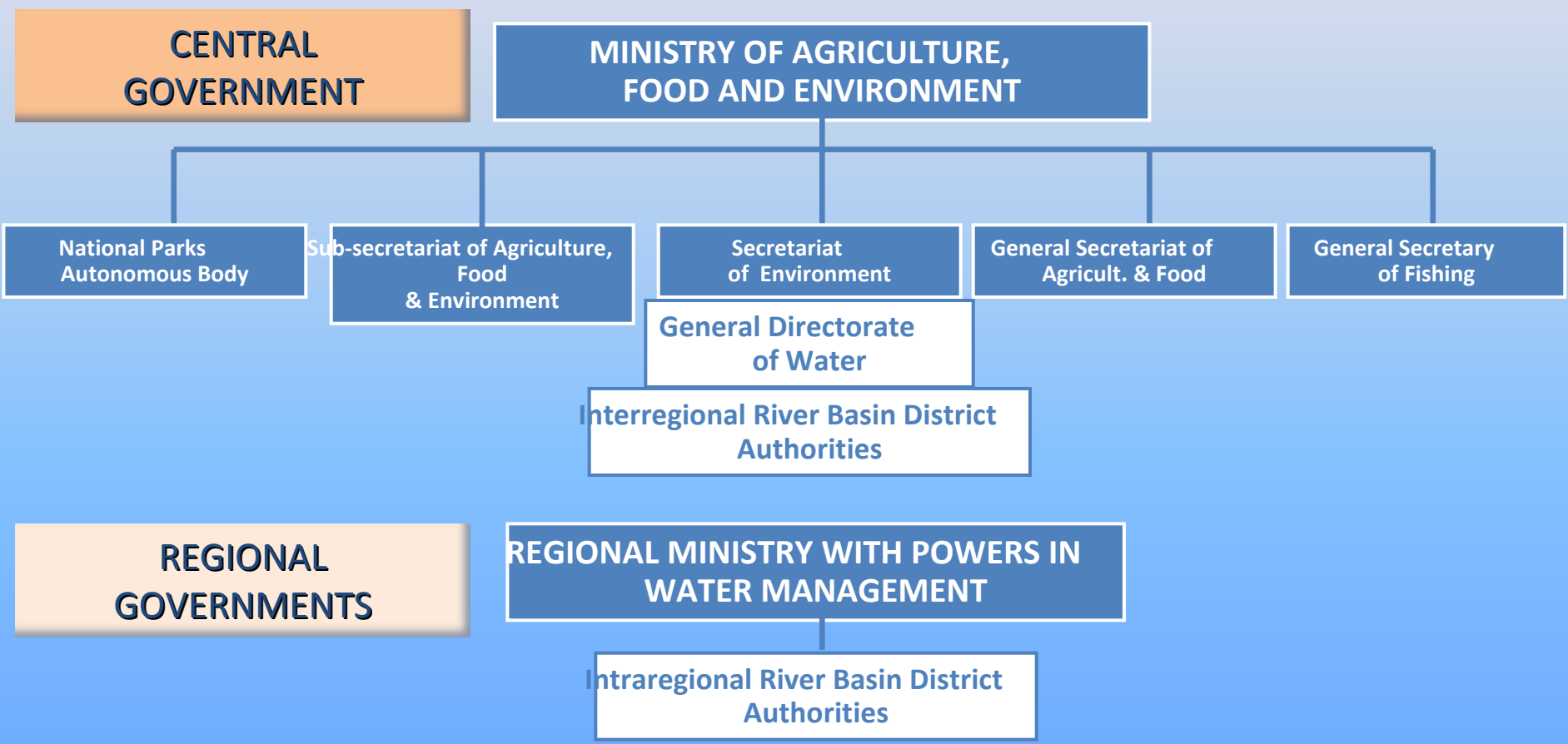
*Other Administrative legal measures:*

- RD 126/2007, creation of Competent Authorities (CAs)
- RD 125/2007, creation of the River Basin Districts



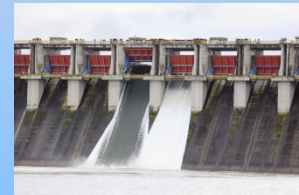
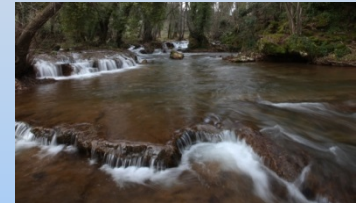
**WATER AUTHORITIES. PUBLIC ADMINISTRATIONS**

Central Government and regional governments. Both with powers in water management



## WATER AUTHORITIES. MAIN DUTIES OF CENTRAL GOVT (WATER DIRECTORATE)

- Elaboration of basic legislation and coordination and follow up of the EU legislation implementation, including WFD, Flood and other relevant Directives
- Elaboration and follow up the National Water Management Plan and the harmonization of River Basins Management Plans in Spain
- Control and Vigilance of Water Quantity and Quality (monitoring networks, SAD)
- Execution and supervision of Water Infrastructures Works and control and vigilance of water infrastructures
- Coordination of Drought and Flood Emergency Plans
- Sectorial plans and programs: River restoration, irrigation, water quality, adaptation to climate change, awareness campaigns, etc.



Photos: www.magrama.es



Water management framework in Spain



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**WATER AUTHORITIES. TERRITORIAL AND ADMINISTRATIVE UNITS**



**Water management framework in Spain**



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## WATER AUTHORITIES. TERRITORIAL AND ADMINISTRATIVE UNITS



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## WATER AUTHORITIES. TERRITORIAL AND ADMINISTRATIVE UNITS

83.6 Interregional basins  
16.4 Intraregional basins  
%



Water management framework in Spain



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## RIVER BASIN MANAGEMENT PLANS: PROCESS OF IMPLEMENTATION

### MAIN LINES OF ACTION

- River Basin Management Plan
- Programme of measures
- Strategic Environmental Impact Assessment
- Public consultation process

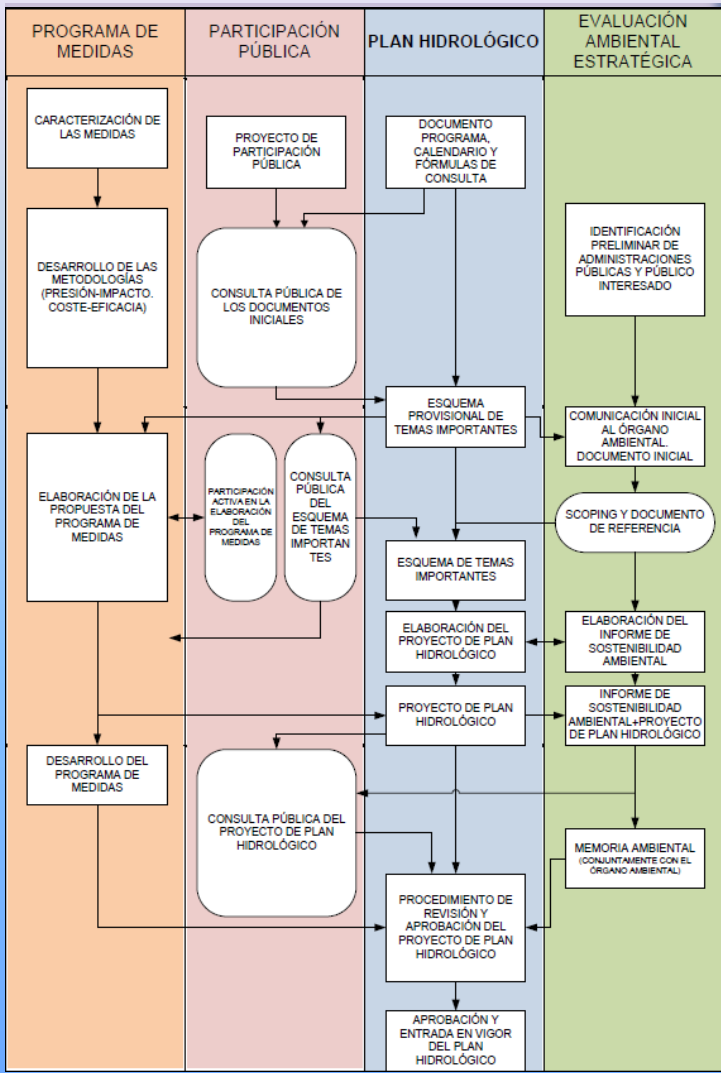
### CONTENTS OF THE RIVER BASIN MANAGEMENT PLANS

- 6 years cycle -  
2015/2021/2027

- ✓ ***WATERBODIES CHARACTERISATION (surface/groundwater)***
- ✓ ***EVALUATION OF WATER USES, PRESSURES AND IMPACTS***
- ✓ ***ESTABLISHMENT OF CONTROL AND MONITORING NETWORKS (quantity/quality)***
- ✓ ***MONITORING PROGRAMS***
- ✓ ***ENVIRONMENTAL OBJECTIVES***
- ✓ ***REGISTER OF PROTECTED AREAS***
- ✓ ***PLANS AND PROGRAMS (spec. drought-floods)***
- ✓ ***ECONOMIC ANALYSIS***
- ✓ ***COST-BENEFIT ANALYSIS OF MEASURES***



## RIVER BASIN MANAGEMENT PLANS: PROCESS OF IMPLEMENTATION



- ✓ **PRELIMINARY DOCUMENTS: River basin description, timetable and consultation framework**
- ✓ **SCHEME OF IMPORTANT ISSUES**
- ✓ **STRATEGIC ENVIRONMENTAL ASSESSMENT**
- ✓ **PROGRAMME OF MEASURES**
- ✓ **INITIAL PROPOSAL & ENVIRONMENTAL SUSTAINABILITY REPORT**
- ✓ **FORMAL APPROVAL OF ENVIRONMENTAL REPORT**
- ✓ **PROPOSAL OF RIVER BASIN MANAGEMENT PLAN**
- ✓ **REPORTING WISE. GIS and databases**



Current status of RBMPs  
In Spain



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## UP-TO-DATE IMPLEMENTATION OF RIVER BASIN MANAGEMENT PLANS



**Current status of RBMPs  
In Spain**



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***Thank you for you attention***

***Teşekkürler***