China-Spain Cooperation in Water

GOBIERNO DE ESPAÑA
MINISTERIO PARA LA TRANSICIÓN ECOLÓGICA Y EL RETO DEMOGRÁFICO
CONFEDERACIÓN HIDROGRÁFICA DEL JÚCAR O. A.

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MITECO

- **MITECO** : *Ministry for the Ecological Transition and the Demographic Challenge*.
- Responsible for **environmental protection**, **climate change**, and the **energy transition**.
- Promotes **renewable energies**, **energy efficiency**, and **decarbonisation** of the economy.
- Manages **water resources**, **biodiversity conservation**, and the protection of **nature.**
- All **water basin authorities** in Spain depend on MITECO

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China-Spain Water Cooperation upcoming events

- **China-Spain MOU on Green Growth signed 2024**
- **Spain will co-lead with China** Interactive Dialogue 2 *"Water for Prosperity"* at the **UN Water Conference (Dec, 2026)**.
- **Preparatory meetings** were held in **Dakar (25–27 January)**
- **Main objectives:**

  Present the joint approach of the Dialogue
  Introduce a first roadmap proposal, to be led by MITECO

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A brief history of water policy in Spain

Water Laws of the 19th Century

Creation of water basin bodies 1926 (JRBA 1934)

National Hydraulic Works Plans

Water Law of 1985 (DPH, Quality, Planning)

Structure of the water basin bodies 1989

Distribution of water powers in Spain

The State of the Autonomies: **Spanish Constitution (CE) of 1978**
Shared and concurrent competences in environment and water resources management
Complex Reality between the General State Administration (AGE) and the 17 Autonomous Communities (CCAA)

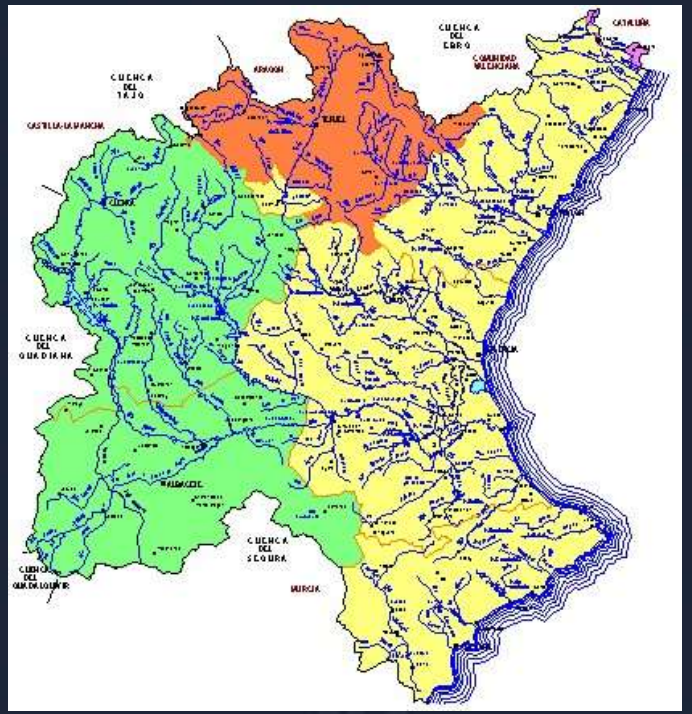
The State* (149.1.22 CE)** *It has exclusive jurisdiction over* ***legislation, management and granting of hydraulic resources and uses when the waters flow through more than one Autonomous Community.

Water Basin Authorities

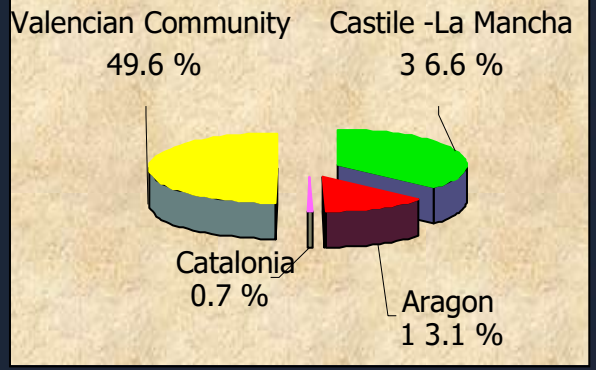
- **Responsabilities (article 23 TRLA)**
  - Preparation, monitoring and review of the PHC.
  - Administration and control of the DPH.
  - Administration and control of uses of general interest.
  - Project, construction, and operation of works carried out with the agency's own funds, those commissioned by the State, and those resulting from agreements.
- **OTHER POWERS (article 24 TRLA)**
  - Granting of authorizations and concessions in Hydraulic Water Domoin (except for general interest)
  - Inspection of authorizations and concessions
  - Flow measurements, hydrological studies, flood studies, and water quality control studies
  - Project, construction and operation of the works included in its plans
  - Definition of water quality plans and programs and demand management actions
  - Provision of technical services related to its purposes and advice to other administrations, institutions and individuals

Jurcar River Basin Authority

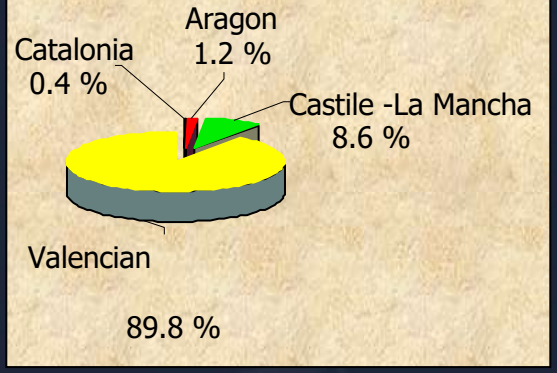
Total area (km ^{2})	44,871
Area excluding coastal waters (km ^{2})	42,735
Permanent population	5,178,000
Total equivalent population	5,697,000
Irrigated area (ha)	390,000
Total contribution (hm ^{3} /year)	3,800
Total water demand (hm ^{3} /year)	3.240



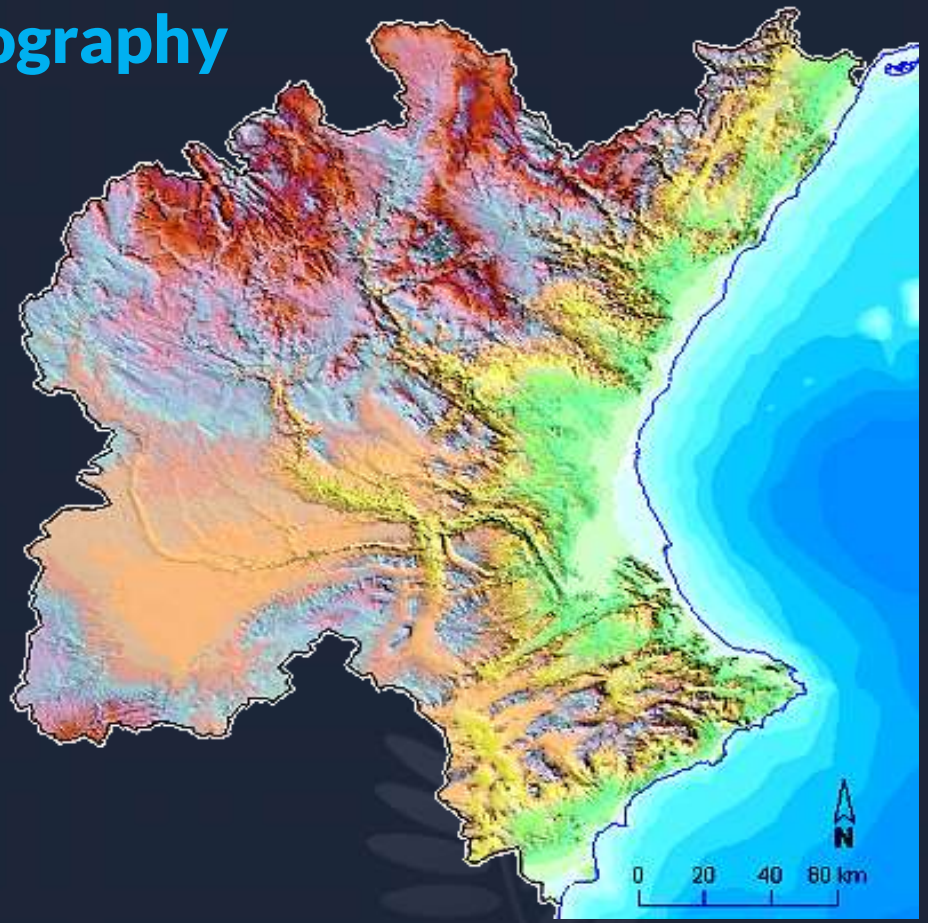
Surface



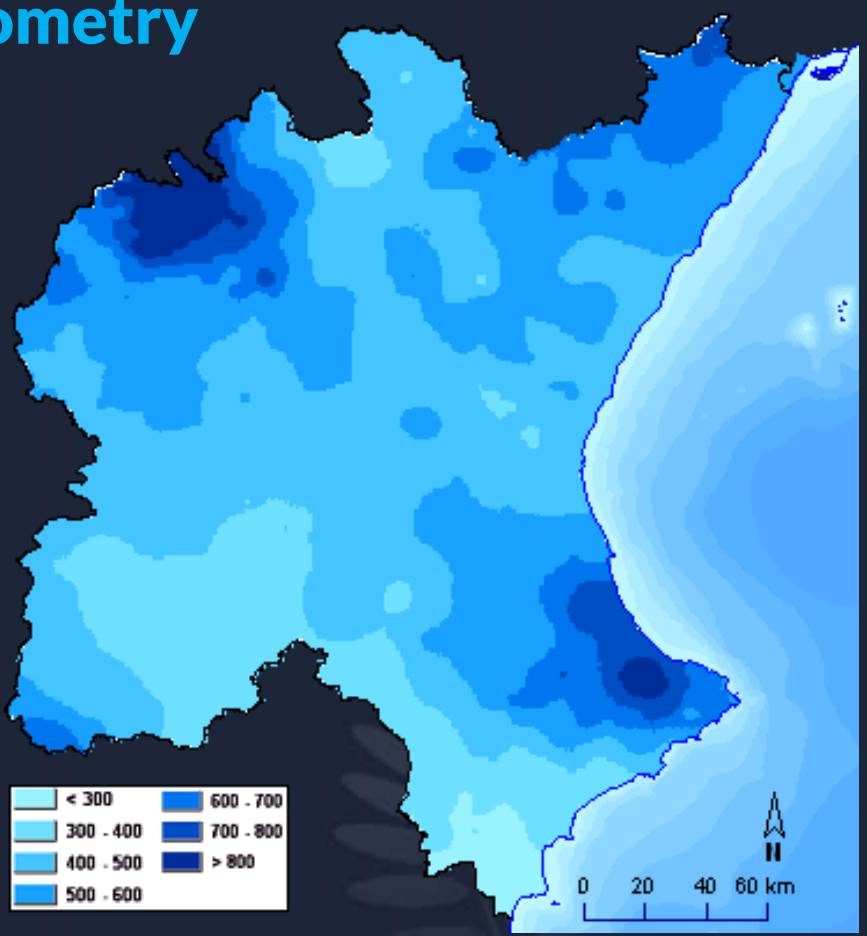
Population



Orography



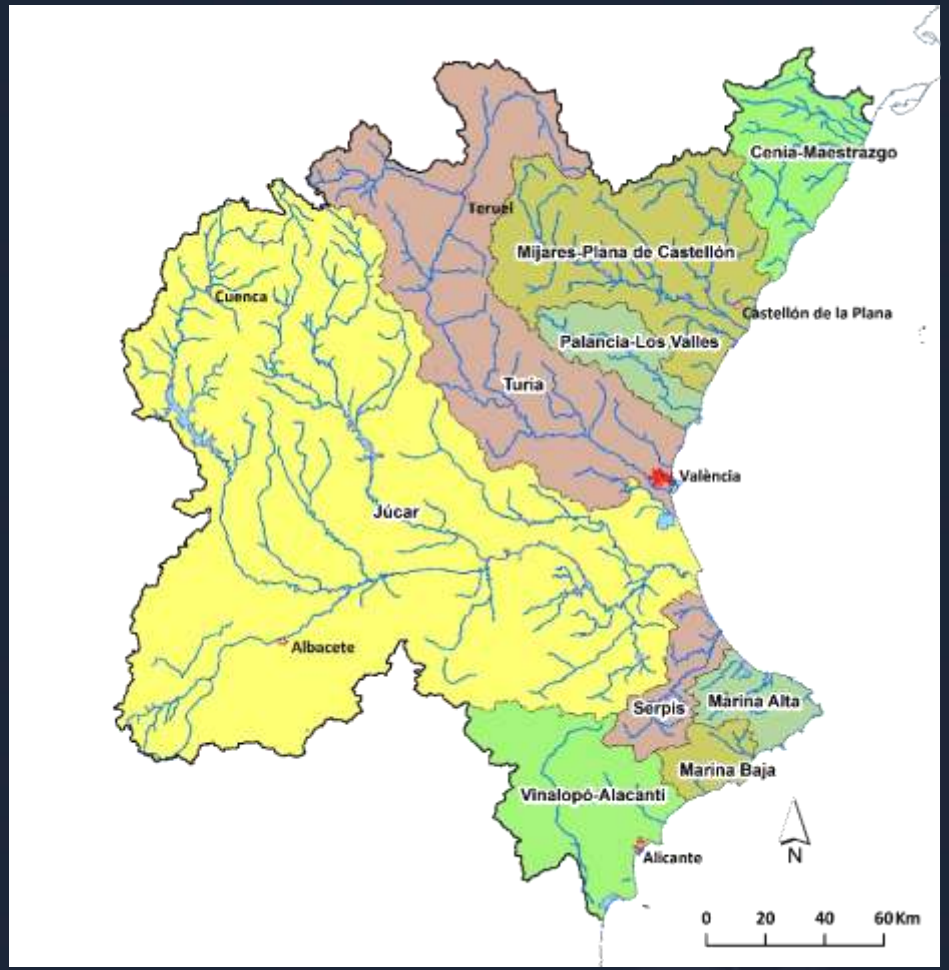
Pluviometry



Average annual **rainfall** : 485 mm

Groundwater Bodies

90 groundwater bodies



Explotation Systems

Regulation and transport infrastructures

- **3,300 Hm ^{3} of surface water storage capacity.**
- Main reserves located on the Júcar (**Alarcón-Contreras- Tous**) and the Turia (**Benagéber and Loriguilla**).
- Main supply channels **:**

✓Júcar-Turia Canal

✓Campo del Turia Canal

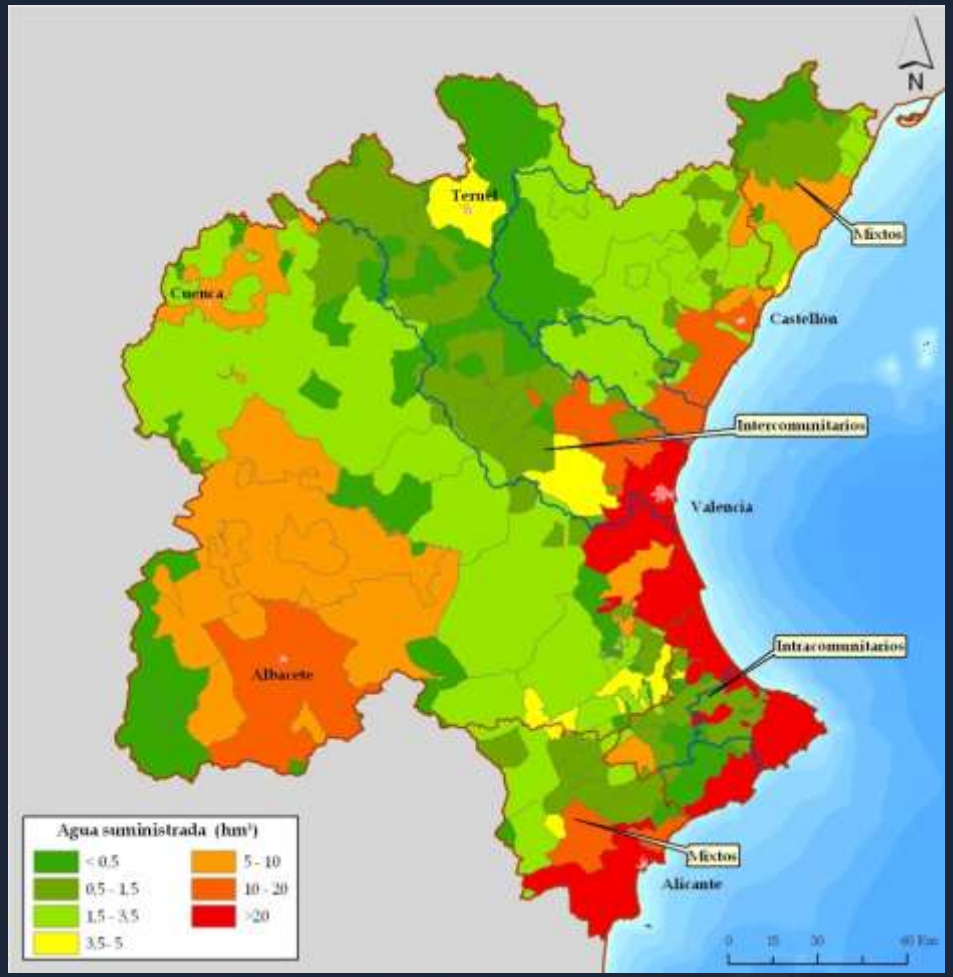
✓Royal Júcar Canal

✓ Tajo-Segura Aqueduct

Irrigation demand

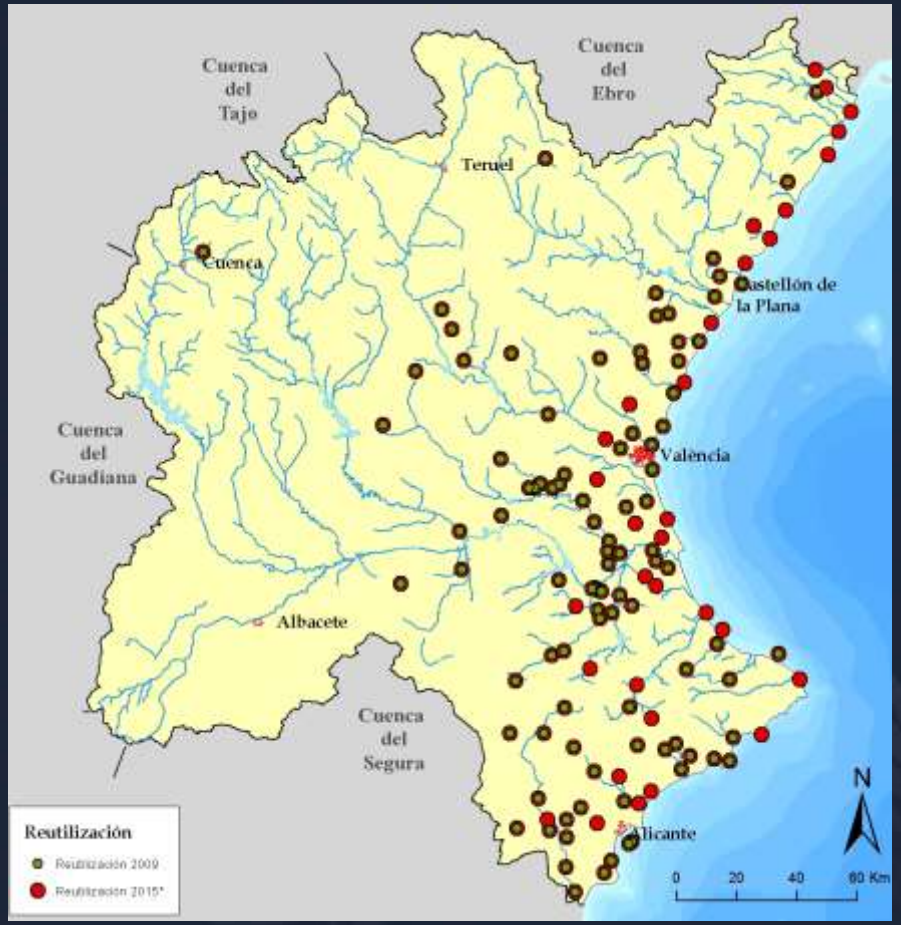
TOTAL DEMAND: 2,526.6 hm³ /year

Urban demand



TOTAL DEMAND 549 Hm3/year

Main Wastewater treatment plants



WASTEWATER PLANTS	TOTAL REPURIFIED
Pinedo	119.56
Alicante (Rincón de León)	24.93
Quart - Benàger	17.99
South Lagoon	7.44
Gandia-La Safor	17.52
Castelló de la Plana	16.19
Pobla de Farnals	10.12
Elx (Algoros)	8.93
Carraixet Basin	13.45
Swedish	2.66
Dénia - Ondara - Pedreguer	6.60
Alicante South	0.00
Benidorm	16.15
Sagunto	5.21
Alicante North	0.00
Paterna - Jarro Fountain	5.03
Peñíscola	4.18
Alicante (Mount Orgegia)	8.06
Benicarló	5.95
Altea	2.99
Vinalopó Valley	5.76
Alcoi	7.33
Villena	3.09
Ontinyent - Agullent	6.46
Santa Pola	2.94
Vinaròs	2.42
The Vila Joiosa	2.65
Novelda	2.57
Vall d'Uixó	1.84
Olive	1.40
Canet d'en Berenguer	1.37
Valley dels Alcalans	0.73
Stone Fountain	5.23
Rest	288.20

Desalination plants

DESALINATION PLANTS	Capacity (hm3/year)
MUTXAMEL	18.25
ORPESA	23.73
MONCOFA	11.68
XÀBIA	9.49
DENIA	8.76
SAGUNTO	8.36
TOTAL	**80.27**

The JRBA headquarters host the Mediterranean Network of Basin Organizations (REMOC)

MOU

Dept. of Water Resources of Hubei Province
&
Jucar River Basin Authority

Dept. of Water Resources of Hubei Province

- Primary provincial government entity responsible for water management
- Oversees the monitoring of surface water (117 million hm^3) and groundwater (117 million hm^3), ensuring high-quality standards in major rivers.
- Manages major infrastructure, including the Yangtze and Han River systems or the Three Gorges Reservoir area.

Jucar River Basin Authority

- Created in 1934, +90 years experience
- Oversees 43.000 km2 which represents 8% Spanish territory
- Public Entity, dependent of MITECO (Ministry for the Ecological Transition and the Demographic Challenge)
- Main role is Water Governance:
  - Planning and integrated managment of water resources
  - Mangaging water infrastructures

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MOU Hubei Water Dept-Jucar River Basin Authority

Strengthen and Develop **cooperation** in water management and water planning

Share experiences on **protection and use of water resources**, achieving equilibrium between basin protection and economical and social development

Establish a long term cooperation framework

Future visit to Hubei Province:

- Site visits and studies on Yangtze River water basin
- Promote large scale water protection projects
- Share experiences

Next steps…

- Define a long term common strategy
- Agree on a working plan with specific actions
- CEWP as a tool to promote our cooperation
- Search financing for future common projects

Thank you

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