

# REGION OF MURCIA

## An example of a water regional strategy: an opportunity for cooperation

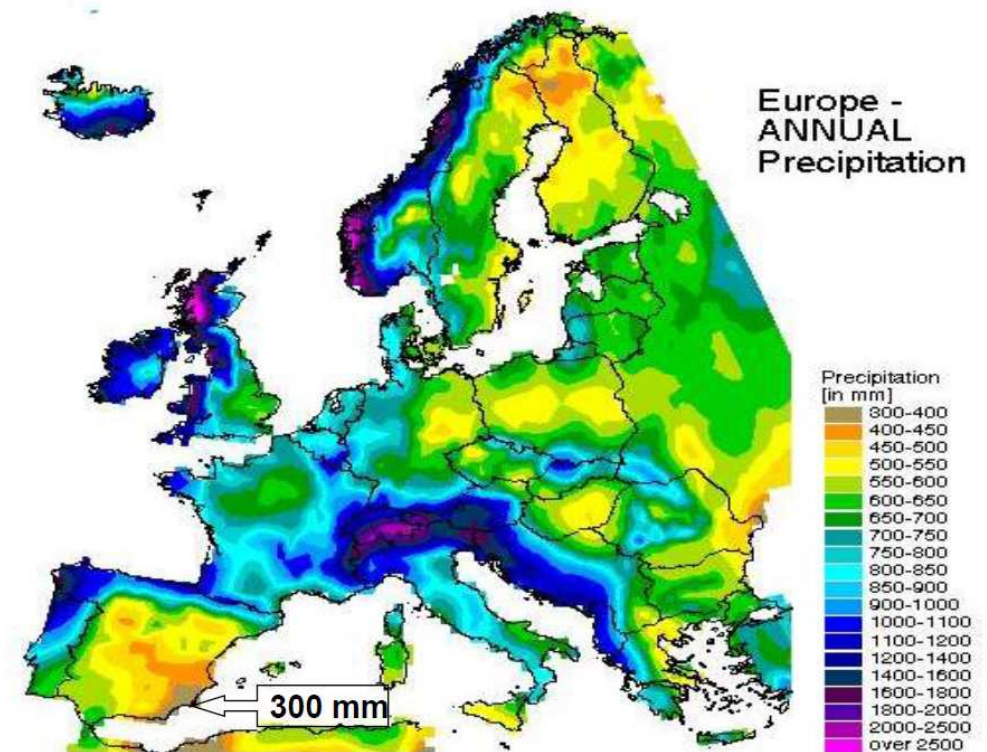
Esteban Pelayo  
Office of the Region of Murcia in Brussels

Tackling Challenges in Environmental Water Research: International and Regional Cooperation – CZELO, Brussels, 6<sup>th</sup> of May 2014



## Summary

- ✓ Strategy on water innovation of the Region of Murcia
- ✓ Examples of cooperation profiles  
[www.agritechmurcia.com](http://www.agritechmurcia.com)  
[Link Water Cluster](#)

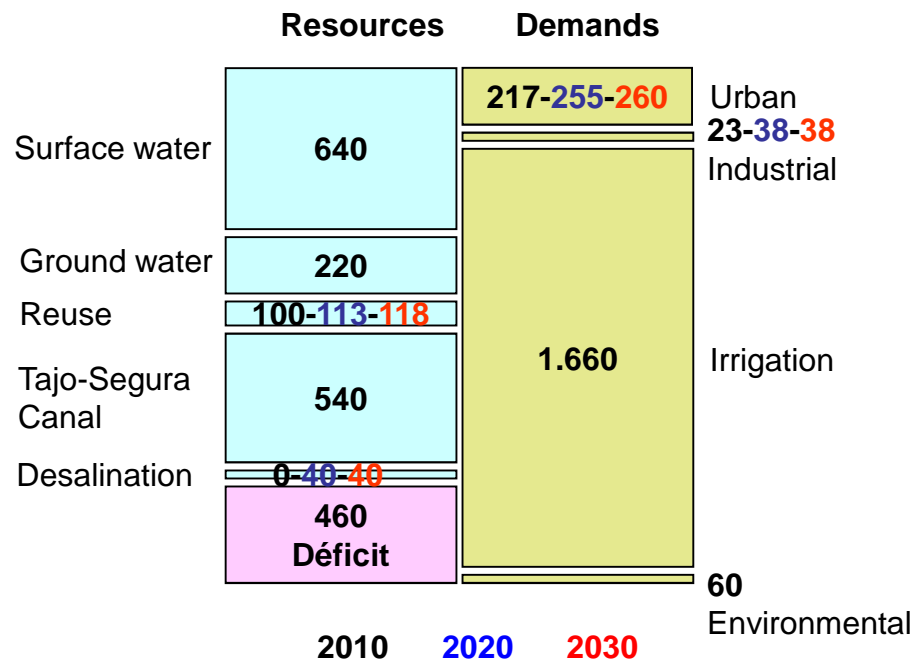


## Water is a priority in research and innovation strategies

RIS3Mur



## Water profile of Murcia Region



Source CHS - River Basin Authority



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## Examples of Research & Innovation projects

- FP7
  - [SWAM](#) regional strategy for sustainable water management
  - [Sirrimed](#): irrigation efficiency technique
  - [CarbGrowth](#): low quality water from wells and aquaculture for irrigation purposes
  - [OPIRIS](#): Online Professional Irrigation Scheduling Expert System
- LIFE+
  - [OFREA](#): water reuse in coastal areas using forward osmosis
  - [Biocell](#): fuel cells using hydrogen produced in WWTP
  - [WaterReuse](#): water efficiency in industries with organic load
  - [Riverlink](#): connection of habitats



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- Cooperation in WATER EIP
  - FinnoWater
  - WIRE - Water & Irrigated agriculture Resilient Europe

## Main actors

- **Regional Public Administration**
  - Ministry of Agriculture and Water
  - Ministry of Industry, Tourism, Enterprises and Innovation
    - Seneca Foundation - Regional Agency for Science and Technology
    - Murcia Regional Development Agency (INFO)
- **Universities**
  - UMU - University of Murcia.
  - UPCT - Technical University of Cartagena
- **Public Research Centers**
  - IMIDA - Institute for Agrofood Research and Development of Murcia
  - CEBAS - Applied Biology and Edaphology Centre of the Segura River
  - IEO - Spanish Oceanographic Institute
  - IGME- Spanish Institute Geological Miner
- **Technological Centres**
  - CETEC - Technological Centre for Shoes and Plastics
  - CTNC - Technological Centre for Canned Food
  - CETENMA - Technological Centre for Energy and Environment

## IMIDA

### Brief research cooperation profile



- PROFILE:
  - Public research institute focused in agricultural and food production.
  - Irrigation, water efficiency, geographical information systems, water reuse, cleansing, plant breeding for physiological lower consumption, etc.
- CONTACT
  - Mr. Fulgencio Contreras
  - Liaison office
  - Fulgencio.Contreras@carm.es
  - +34 968
  - www.imida.es
- EXAMPLES OF INTERNATIONAL PROJECTS
  - CARBGROWTH: low quality irrigation waters
  - SIRRIMED: Efficiency on irrigation
  - LIFE-Aquemfree: Use of photocatalysis to clean pesticides in water



## EcoHidro

Brief research cooperation profile



- PROFILE:
  - Company specialized in portable or small scale installations for water treatments
  - Integrated into an international holding company (Grupo WIND) with over 30 years experience in the water sector, which has a network of distributed enterprises worldwide.
- EXAMPLES PROJECTS
  - HIDROPURE: Equipment for water purification
  - Solar powering of water portable plants



- CONTACT
  - Mr. Toledo
  - [itoledo@ecohidro.es](mailto:itoledo@ecohidro.es)
  - +34 902 107 186
  - [www.ecohidro.es](http://www.ecohidro.es)



## Ritec

### Brief research cooperation profile



- PROFILE:
  - SME specialized in the design, production and installation of irrigation systems, fertirrigation, phytosanitary irrigation and climate control
- INTERNATIONAL PROJECTS
  - IRIS – Intelligent Reclaim Irrigation System (Eurostars)
  - OPIRIS – Expert system for irrigation
  - CarbGrowth – Low quality water for irrigation



- CONTACT
  - Mr. Luis Miguel Pelegrín
  - luismiguel@ritec.es
  - +34 968 446 000
  - www.ritec.es

## Syscomed

Brief research cooperation profile



- PROFILE:

- ICT SME specialized on control and automation of hydraulic systems, environmental, industrial and water networks.



- PROJECTS

- Telecontrol of the water distribution network for a desalination plant
- COMPAIR – Robotics in aircraft components
- Alucyc: Control applications in aluminum dross recovery

- CONTACT

Mr. Juan Celdran  
+34 902 934 981  
[Juan.Celdran@syscomed.es](mailto:Juan.Celdran@syscomed.es)  
[www.syscomed.es](http://www.syscomed.es)

## Esamur

### Brief research cooperation profile



- PROFILE:
  - Regional public enterprise established for the sanitation and wastewater treatment
- PROJECTS
  - Solar photocatalysis as a tertiary treatment to remove emerging pollutants from wastewater treatment plant effluents
  - Biogas production
  - Symbiotic WWTP



- CONTACT
  - Mr. Pedro Simon
  - +34 968 87 95 20
  - [esamur@esamur.com](mailto:esamur@esamur.com)
  - [www.esamur.com](http://www.esamur.com)

## Aguas de Murcia

Brief research cooperation profile



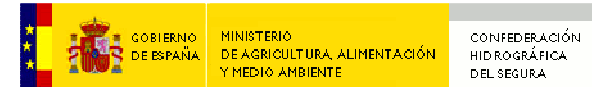
- PROFILE:
  - Water utility company which manages local public services supply, sanitation and water treatment.
- PROJECTS
  - Biocell: biogas valorization by means of PEMFC
  - Electrocoagulation for potabilization of water
  - Using biological means to detect toxicity
  - New counters class C to detect leakages



- CONTACT
  - Ms. Pilar Mejia
  - +34 968 278 000
  - [pmejia@emuasa.es](mailto:pmejia@emuasa.es)
  - [www.emuasa.es](http://www.emuasa.es)

## CHS – Segura River Basin Authority

Brief research cooperation profile



- PROFILE:
  - Segura River basin has one of the highest water reuse rate in Europe.
  - Interest on water governance, drought and flood risk management, climate change and desertification, erosion, fight against invasive species
- PROJECTS
  - Twinning project TR 09 IB EN 03: with Turkey
  - LIFE+ SEGURA RIVERLINK: free movement of fauna
  - LIFE+ RIVERPHY Rehabilitation of a Heavy Metal Contaminated Riverbed by Phytoextraction
  - Action Groups under the EIP Water



- CONTACT
  - Eduardo Lafuente Sacristán  
Confederación Hidrográfica del Segura  
+34 968 965 379  
eduardo.lafuente@chsegura.es  
twww.chsegura.es
  - Rosa Olivo del Amo  
+34 660 337 334  
rolivo@typsa.es

# Thank you for your attention

[of.murcia@info.carm.es](mailto:of.murcia@info.carm.es)

[Esteban.Pelayo@info.carm.es](mailto:Esteban.Pelayo@info.carm.es)

Tel.: +32 2223 3348

