







Region of Murcia

SPAIN

D. Pedro Angosto Cano Brussels, 15th November 2022















Climatology of Murcia Region:

- Mild winters: an average of 11°C
- Warm summers: regularly exceeds 40°C.
- The average annual temperature is 18°C
- Rainfall: 244 mm/ anual (average last) 10m years).
- Hours of sunshine per year: 3.000
- Average relative humidity: 60

The Region of Murcia enjoys a Mediterranean climate of semi-arid type.

ANNUAL WATER BALANCE: STRUCTURAL WATER DEFICIT

Groundwater overexploitation

Estructural deficit 460 Hm³/Year

Irrigation Own resources Population supply

CONSUMPTION 1.500 Hm³/Year

DEMAND 1960 Hm³/Year









Hight Irrigation efficeincy based on:

- Strong presence of localized or irrigation techniques.
- The efficiency of our irrigation water is the largest in Spain.
- Strong investment in the restructuring and modernization of irrigation
 Water is paid by the farmers, the most expensive in Spain.

"What it teaches most is the need"

New technology in water management

A Model of Efficiency







Seawater desalination:

Spain is the world's fourth largest producer of desalinated water Murcia: 139 Hm3/year 9%
Working on improve energy efficiency.

The region of Murcia is considered the region with the most and best wastewater treatment.

Reuse over 100 Hm3/year water, accounting for 25% of all Spain 99% of the urban population of the Murcia region is connected to the sewerage system and 95% at a treatment plant.

We apply the highest purification technology (tertiary systems)

- Knowing the company's water footprint

 Reduce consumption

 Hygienic ecodesign in
 - Hygienic ecodesign in cleaning equipment Reducing pollutant loads
 - Reuse of wastewater

Hydroefficiency in the Food Industry:













WATERMAP Interreg Europe

What is the way to boost critical mass in innovation water ecosystems?

- Identify the problema or need: Research
- Technology transfer
- Training people
- Personalize the training to the target group



"Development, competitiveness and sustainability is based on improved knowledge"















Collaboration

The only way:

Close collaboration with knowledge-generating institutions





































































WATERMAP Interreg Europe

Collaborative project with iWatermap partners and stakeholders to improve our critical mass Example: Green Deal Agro2Circular Project (Agrofood, Wetsus, CTNC, INFO...)





Territorial Circular systemic solution for the upcycling of residues from the agrifood sector H2020 Agreement n.º 101036838

Objective 1

Demonstrating the first value chain for the upcycling of most representative agrifood sector wastes: Fruits&Vegetables and Multilayer Plastics

Objective 2

Providing to the A2C technological solution the circular systemic approach by building a multidimensional model enabling the solution territorial deployment

Objective 3

Maximizing project impacts and facilitating A2C systemic solution replication& scalability

A2C will implement a demonstrator in the Region of Murcia that can be replicated in different regions of Europe for a territorial implementation of the circular economy

More European funds to the Region of Murcia for issues related to water















REGION OF MURCIA - iWATERMAP Action Plan (2021-2023)

ongoing

1. IMPROVEMENT OF THE CRITICAL MASS

MAIN ACTIONS:

- 1. Business sustainability innovation voucher. Water footprint calculations. INFO Q3 2021 2023
- 2 Technology transfer area "water in the agrifood industry". Technological surveillance. CTNC Q1 2022-2023





→ RIS4Mur (2021-2027). Water Working Group is included

2. IMPROVEMENT OF HUMAN CAPITAL, TRAINING AND EDUCATION

MAIN ACTIONS:

- 3. Sustainability and circular economy sessions, ToT. CNR CIFEA Q2 2021 -2023
- 4. Water in the agrifood sector Infoday. CIFEA CTNC AGROFOOD Q3 2022 2023

3. IMPROVEMENT OF INTERNAZIONALIZATION

MAIN ACTIONS:

5. INetWater Meeting Point. INFO UMU UPCT CSIC CTNC AGROFOOD Q3 2021 - 2023



- I. Murcia Food Brokerage Event 2023
- II. International Symposium on Food Technologies
- **III.CTCAlimentacion Magazine**

Technological innovations in the water sector













Thanks for your attention

Pedro Angosto Cano

pedro.angosto@carm.es



