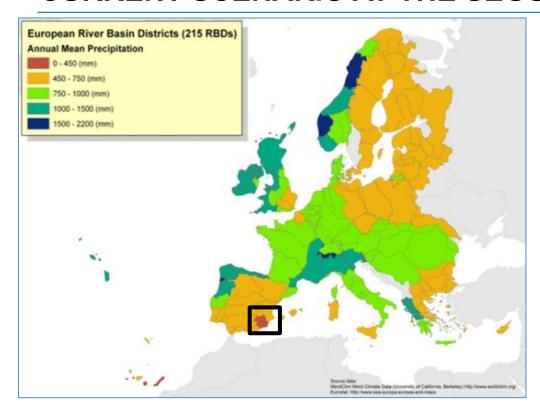


CURRENT SCENARIO AT THE SEGURA RIVER BASIN



Segura River Basin

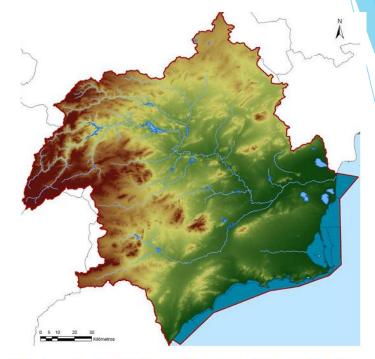
Annual mean precipitación: 365

mm/year

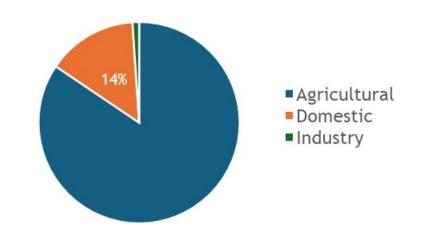
Natural water resources: 785 hm³/year

Agricultural water demand: 1526 hm³





Water demand at Segura River Basin





UNDERSTANDING THE CHALLENGES

Natural limitations

(Low rainfall and high evaporation rates)

Scarce natural resources (Surface and groundwater)



DANA 2019, Los Alcazares (Murcia, Spain)



Water-inten sive crops

Climate change and droughts



SOLUTIONS FOR WATER-EFFICIENT AGRICULTURE



Integrated water resources management

Renewable groundwater
External transfers
Reclaimed water
Desalination



Advance irrigation technologies & digital monitoring

Drip irrigation
Sensors tracking soil
moisture
Floating solar
Photovoltaic systems
Integrated exploitation
control system



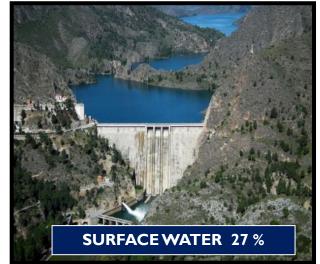
Crop diversification and soil management

Crop rotation
Cover cropping
Organic matter addition
Balanced fertilization





INTEGRATED WATER RESOURCES MANAGEMENT







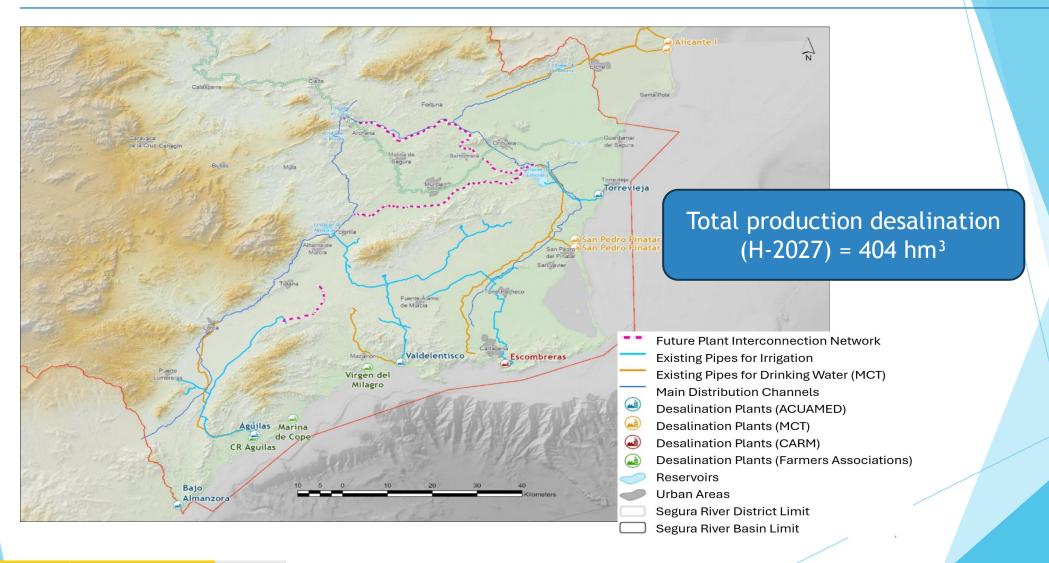




DEFICIT 15 %

Mixture of water from different sources to get the appropriate salinity for plants and to avoid soil degradation in agricultural areas

INTEGRATED WATER RESOURCES MANAGEMENT – INTERCONNECTION NETWORK FOR DESALINATION PLANTS





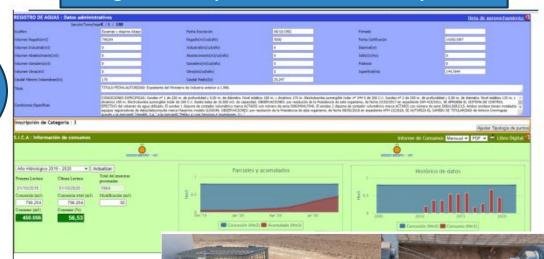


ADVANCE IRRIGATION TECHNOLOGIES AND MONITORING OF WATER





Integrated exploitation control system



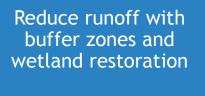


ENVIRONMENTAL PROTECTION MEASURES AT MAR MENOR

Background:

- Largest coastal lagoon in Europe with several protected area designations (Ramsar, Natura 2000, ZEPIM and ZEPA/ZEC)
- Campo de Cartagena is a major agricultural hub with 46.000 ha of irrigated crops
- Pollution from agricultural runoff has led to eutrophication causing biodiversity loss and environmental degradation

Framework of
Priority Actions for
the recovery of Mar
Menor



Mar Menor Protection Law

Environmental protection measures



Strenghtening inspections for control of law compliance

Limitations on fertilizer use





