

# Sustainable Production in water limited environments of Mediterranean agro-ecosystem

## SUPROMED

**Program:** PRIMA Section I

**Start date :** 01-10-2019

**Total budget:** 2.030.000 €

**Duration:** 36 Months



## SUPROMED in brief

SUPROMED provides a holistic crop-livestock water management system resilient to climate change, supported by a web platform specially designed to smartly advise farmers on the efficient water, energy and fertilizer management for Mediterranean systems.

## SUPROMED PARTNERS



- University of Castille-La Mancha (**Spain**)
- Technical Institute of Agronomy for Albacete Province (**Spain**)
- Grupo Hispatec Informática Empresarial S.A. (**Spain**)
- Technical Unit of The Euro-Mediterranean Information System on Know-how in the Water sector (**France**)
- University of Thessaly (**Greece**)
- 3D s.a. General Aviation Application (**Greece**)
- Lebanese University, Faculty of Agronomy (**Lebanon**)
- Difaf (**Lebanon**)
- National research Institute of rural engineering, Water and Forests (**Tunisia**)
- National Institute of Field Crops (**Tunisia**)

supromed.eu



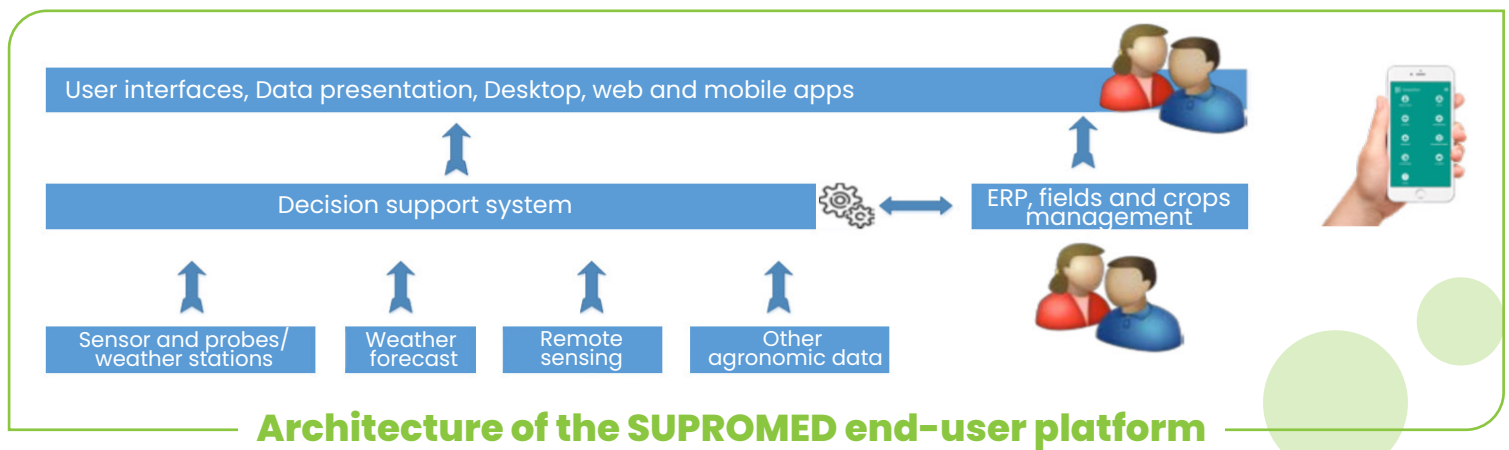
## SUPROMED Project objectives

- Improve food security by increasing irrigation water productivity
- Increase the agricultural income and decrease the impact on the environment by optimizing and reducing the use of inputs
- Increase the resilience of agricultural systems to climate change through the development of tools for forecasting and advising against extreme climatic events
- Implement advanced methodologies for farm management, promoting the creation of qualified and specialized jobs



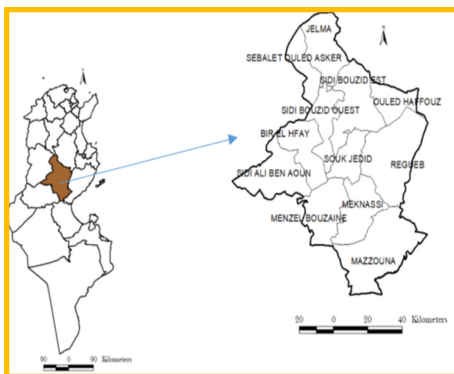
## Models and tools

**SUPROMED** integrates a validated set of models and tools in an **online platform** to **increase the production and incomes of farms** thanks to a more efficient and reduced use of water, energy and fertilizers, while **decreasing the impact on the environment**.



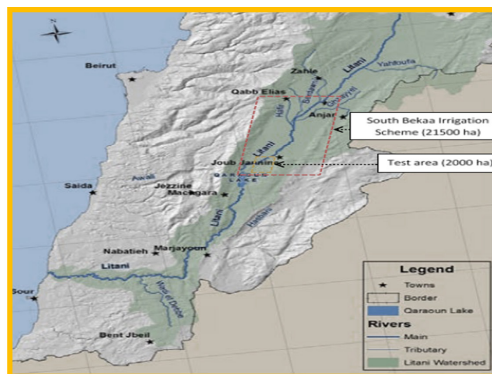
**Architecture of the SUPROMED end-user platform**

## Demosites



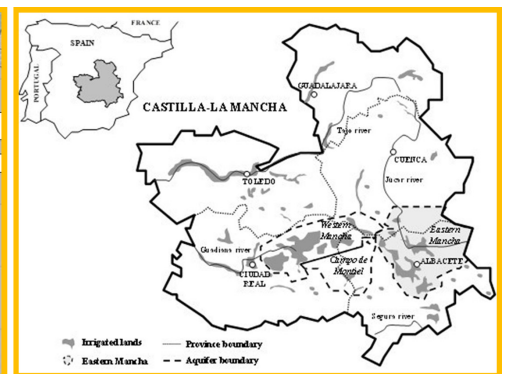
### Tunisia Sidi-bouزيد

- Lack of water resources
- Groundwater shortage and increasing pumping cost
- Low integration of ICT in the agricultural sector



### Lebanon South Bekaa Valley

- High dependence on groundwater for irrigation
- Lack of technical assistance
- Need for an Early Warning System (EWS) for irrigation



### Spain Eastern Mancha

- Imbalance between water supply and demand
- Poor animal production system
- Decrease of agricultural profitability