# Project Description

PRECIMED project will research, develop and validate a Decision Support System (DSS) for Fertirrigation management, which will include models for a massive analysis of real-time crop and meteorological data to improve water, nutrients and energy use efficiency in agriculture.

# Project Partners

INRA SCIENCE & IMPACT

CSIC Consejo Superior de Investigaciones Científicas

OdinS Let us invent Smart Solutions

جامعة صفاقس Université de Sfax

University of Thessaly Founded 1984

GSRT General Secretariat for Research and Technology

Hellenic Republic Ministry of Development and Investments


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# PRECIMED

PRIMA Partnership for Research and Innovation in the Mediterranean Area

# PRECIMED

## Precision Irrigation Management to Improve Water and Nutrient Use Efficiency in the Mediterranean Region


PRECIMED is a project funded by the European Commission in line with rules for participation of H2020 and is centrally managed by the PRIMA IS

Goal of the project is to give an appropriate and real-time solution to the existent irrigation problem in the water management for regions with water scarcity in the Mediterranean basin through integration and adaptation of technologies.

## Objectives

The main objective of PRECIMED will be the development, validation and transfer of a data driven irrigation management system, in order to improve Water and Nutrient Use Efficiency (WUE and NUE respectively) in the Mediterranean region, by integrating the knowledge about fertilizers and irrigation water management with Information Communication Technologies (ICTs).

## Methodology

The development process of PRECIMED will be carried out using an Agile/SCRUM framework. It follows an approach known as "adaptive life cycle".
It is based on:

- End user: is a key pillar and should actively work during the project life cycle,
- Iterative cycles: "n" iterative and repetitive cycles until the end users are happy with the solution,
- Incremental added value: each iterative will deliver to end user a deliverable product with new and improved functionalities.

## Expected Impacts

The main impact foreseen by **PRECIMED** is to improve the farm productivity through the reduction of costs and the increase of the crop yield with a solution that minimizes the environmental impact due to the sustainable use of resources (water, fertilizers and energy consumption) and reduce the human laborious tasks while feasible business models are generated for the different farming scenarios.