



At a glance

Title: WEAM4i – WATER AND ENERGY ADVANCED MANAGEMENT FOR IRRIGATION

Instrument: Fp7 Env 2013 Water Inno&Demo-1

Total Cost: 7,610,10.80 €

EC Contribution: 5,166,916.90 €

Duration: 42 Months

Start Date: 01/11/2013

Consortium: 17 partners, from Spain, Portugal, Netherlands, Germany and France.

Project Coordinator: METEOSIM SL

Project Web Site: www.WEAM4i.eu

Key Words: Agriculture, water consumption, energy, irrigation, ICT

Eco-Innovation

WEAM4i

The challenge

The agriculture sector is accountable for around 30% of the total water consumption in Europe, but reaches up to 70% of total water consumption in several EU southern countries. In the past recent years, most of the efforts have been focused on water efficiency improvement. Furthermore, these water efficiency efforts have been carried out without taking care of energy aspects, resulting in a significant increase in energy consumption. In parallel, we are living a fast increase in terms of energy prices all across Europe. To Sum up: once important water savings have been achieved, the new challenge for the irrigation sector is to minimise the energy costs.

Project Objectives

Objectives: (i) Develop an innovative water & energy smart grid for irrigation: introducing demand-side management and matching with available energy offer. (ii) Develop an innovative integration approach: an ICT/cloud platform based on a Service Oriented Architecture (SOA)

Methodology

The work programme for WEAM4i project is divided into 9 logical Work packages (WPs), covering RTD, management and dissemination and market uptake activities. Full-scale demonstration activities will be performed in 3 EU countries (Portugal, Spain and Germany).

Expected Results

Companies and SMEs will benefit from the future commercialization of the outcomes while the users will reduce the operational costs of their irrigation systems.

Project Partners	
METEOSIM SL	http://www.meteosim.com/
HISPATEC	http://www.hispatec.es/
AQUAGRI ACE	http://www.aquagri.com/
FENACORE	http://www.fenacore.org/
FENAREG (Federação Nacional de Regantes)	http://www.fenareg.pt/
IVIA (Instituto Valenciano de Investigaciones Agrarias)	http://www.ivia.es/
ADASA	http://www.adasasistemas.com/
WATERWATCH (ELEAF)	http://www.waterwatch.nl/
LWK Niedersachsen	http://www.lwk-niedersachsen.de/
LGRAIN GmbH	http://www.lgrain.de/
UT SEMIDE	http://www.emwis.org/
INERGIA GRUPO	http://www.inergia-grupo.eu/
ECLAREON	http://www.eclareon.com/
Comunidad General de Regantes del Canal de Bardenas	http://www.cgardenas.net/
Hydrologic Research	http://www.hydrologic.com/
Ingenieurburo Schulz + Von der Ohe	
ZIM	http://www.zim-plant-technology.com/