



LOCATION



Spain

PARTNERS



1.1 & 1.2

Water and Energy Savings in Irrigated Crops

CHALLENGE

With the impact of climate change being felt by farmers across the EU, the need for irrigation has become an increasing issue. Water saving and energy saving are also key challenges for farmers. Many of the national modernised irrigation systems are closed solutions, limiting their interoperability and extension mechanisms.

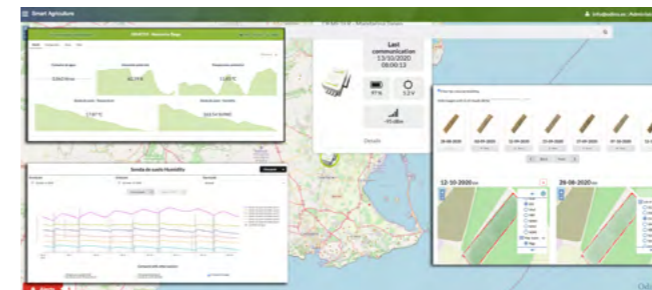
AIM

This pilot aims to optimise the irrigation of arable crops by improving the automation of irrigation zones. By using open and standards-based technologies, it will allow irrigation communities to choose and combine hardware and software from different providers ensuring interoperability.



HOW

Using interoperable remote-control systems and robust management systems, inputs from both soil sensors and meteorological stations, as well as satellite images, will optimise the irrigation system. The use of real-time monitoring and control of water supply, in combination with energy efficiency improvements, is based on informed decisions from farm to fork. The adoption of standards and open protocols makes it easy to integrate IoT devices which are standard compliant.



BENEFIT

The implementation of standards-based and interoperable elements will facilitate the exploitation and maintenance of irrigation systems achieving greater efficiencies in water and energy savings. This adds a level of long-term investment security.

