



Huella del Agua

PRODUCCIÓN ECOLÓGICA

#Huelladelagua pursues a more sustainable and efficient management of water resources in organic agricultural production through the transference of innovation and technology.



Aim of the project

The main objective of the project **'The water footprint in the Andalusian Ecological Sector'** is to develop an efficient irrigation management system in organic crops of berries, citrus fruits, olives and horticultural crops in rural areas of Andalusia. The project will use the **ISO 14046 standard for calculating the indicator for the water footprint**.

This advanced system will allow the application of the precise amount of water demanded by the crops at the right moment. The plots will be digitized with remote sensors that will register ad-hoc data and transfer it through ICTs to be processed. The results will be available through the web or mobile apps in order to help the farmer's decision making process.



Innovative aspects

Given that water has become a scarce and limiting resource for agriculture, **the implementation of smart technologies based on remote measurement** is essential to quantify real time consumption. **This necessity becomes crucial in organic farming, in which a sustainable and controlled use of water resources is a priority.**

ICTs use remote measurements to provide accurate and real time information to farmers about crop conditions. However, the information gathered must be interpreted and managed by irrigation experts to generate relevant results.

By using the obtained data, **the water footprint indicator and its incorporation into the traceability process will determine the consumptive use of water required in each phase of agricultural production.**

Along with the installation of sensors and digital meters in arable lands, this project provides users with software to facilitate the irrigation management —precise irrigation—, as well as a verified and systematic monitoring of real water consumption. This information, together with production data, is essential to estimate the specific water footprint for of each farm.