INNOQUA

# Fact Sheet
# Pilot Site Spain


# THE POWER OF DAPHNIAS

INNOQUA is a four-year EU-funded Horizon 2020 project. Bringing expertise from multiple disciplines, the 20 project partners are seeking to demonstrate a novel, modular system for waste-water treatment based on the purifying capacity of earthworms, zooplankton and microalgae, operating under real conditions.

Due to its modular configuration, the INNOQUA system can address multiple aspects of wastewater treatment and water re-use in water stressed communities, rapidly expanding cities and industries – both in developed and developing countries. The decentralised approach helps to reduce pressure on inadequate wastewater networks while reducing the water and energy demands of typical centralised wastewater treatments – supporting sustainable development.

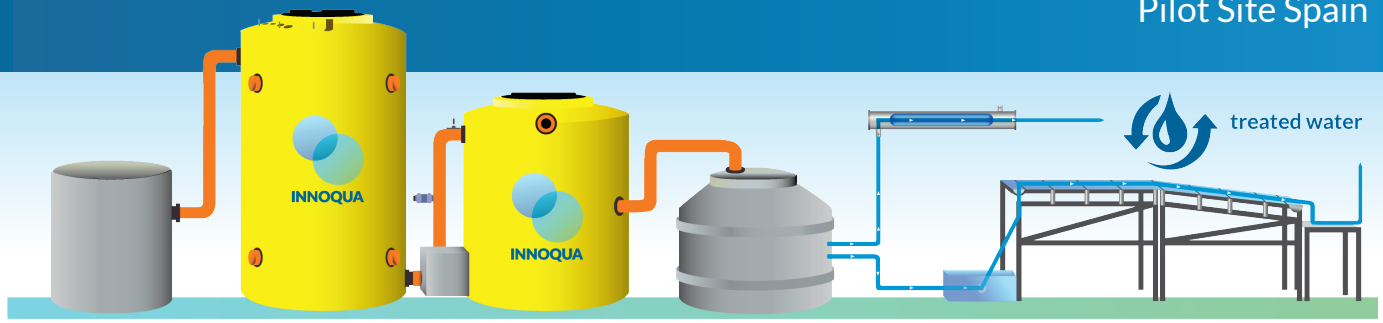
**INNOQUA has installed two pilot sites and eleven demo sites across eleven countries (France, Ireland, Italy, Romania, Scotland, Spain, Turkey, Ecuador, Peru, India and Tanzania) to demonstrate the long-term viability of modular and locally sustainable solutions under real conditions. The modules include lumbrifilter, daphnia filter, bio-solar purification and UV lamp.**

**The sites provide a robust platform for scientific research and act as a focus for local training and dissemination activities.**

**KEEP IN TOUCH — innoqua-project.eu**



This project has received funding from the European Union's Horizon 2020 research and innovation programme under grant agreement No 689817




SETTLEMENT TANK | LUMBRIFILTER | DAPHNIAFILTER | RETENTION TANK | UV PURIFICATION | BIOSOLAR PURIFICATION

The village of Quart

## PILOT SITE QUART

Quart is located in the southeast part of Spain close to the city of Girona, in the Catalonia region. The village is served by a municipal wastewater treatment plant (WWTP) which also collects the wastewater from Palol d' Onyar, another nearby village.

BENEFICIARIES: The INNOQUA system treats the raw wastewater from the villages of Quart and Palol d' Onyar. The pilot site works in parallel to the conventional WWTP in order to test various experimental conditions for research and validation purposes.

DESIGN CAPACITY: 1.5 $m^3$/day (10 population equivalent)

SOURCE OF WASTEWATER: Municipal

SPECIFIC SCIENTIFIC RESEARCH OBJECTIVES: To assess the potential for the INNOQUA technology to be implemented as a decentralised system treating municipal wastewater, the site is testing performance under different operating conditions.

CONFIGURATION: In Spain the INNOQUA system consists of a lumbrifilter and a daphniafilter installed on the outflow from a septic tank. Afterwards, the collected effluent can be further treated with a UV step. Moreover, alternatively to the daphniafilter, the BSP system can be operated as a different technological option.

LOCATION: Carretera S Feliu Guíxols - Vilarroja, 7
17241 Quart, Girona

To arrange a visit to this site, please contact the INNOQUA partner whose details are provided below.

Location of the pilot site

This demo site is run by the INNOQUA partner

Universitat de Girona

WEBSITE: www.udg.edu/en/grupsrecerca/Quimica-analitica-i-ambiental

CONTACT: Victoria Salvadó
Research Professor
victoria.salvado@udg.edu



This project has received funding from the European Union's Horizon 2020 research and innovation programme under grant agreement No 689817