



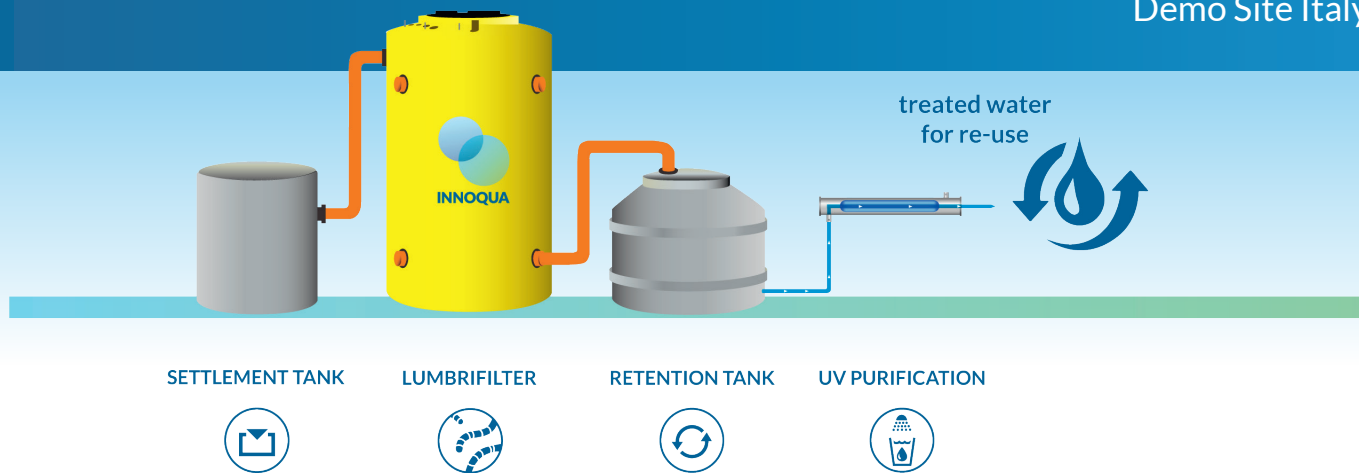
THE POWER OF EARTHWORMS

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 wastewater 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 pilot and demonstration sites in 11 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



Lumbrifilter at Vasto demo site

DEMO SITE VASTO

Vasto is a small city of approximately 42,000 people located on the Adriatic coast in central Italy's Abruzzo region. The surrounding area contends with a lack of appropriate sanitation, as portions of 19 wards are not fully connected to a public sewer network.

BENEFICIARIES: The INNOQUA system treats the wastewater from the Canale house, a single-family residence for four persons.

DESIGN CAPACITY: 0.5 m³/day

SOURCE OF WASTEWATER: Toilets and kitchens

SPECIFIC SCIENTIFIC RESEARCH OBJECTIVES:
To assess the potential for the INNOQUA technology to be implemented in individual private houses.

CONFIGURATION: In Italy the INNOQUA system consists of a lumbrifilter installed on the outflow of a septic tank. The system is completed by a UV lamp.

LOCATION: SS 16 Nord - C. da Canale, 32 A - 66054 Vasto (CH) Italy

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



INNOQUA system in the basement of the residential building

This demo site is run by the INNOQUA partner



WEBSITE: www.de5.it

CONTACT: Pietro de Cinque
pietro.decinque@de5.it