Interreg Sudoe

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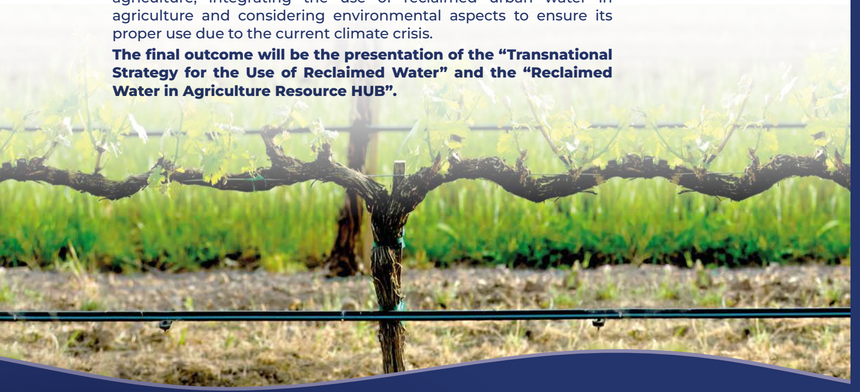
I-ReWater

Management of water resources in irrigated agriculture in the SUDOE space

For the next **three years (2024-2026)**, the main objective of the I-ReWater project will be to improve water resource management in agriculture, integrating the use of reclaimed urban water in agriculture and considering environmental aspects to ensure its proper use due to the current climate crisis.

The final outcome will be the presentation of the "Transnational Strategy for the Use of Reclaimed Water" and the "Reclaimed Water in Agriculture Resource HUB".



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COOPERATION IS IN YOUR HANDS

USC Universidade de Santiago de Compostela · HOPEN Terre de Houblon · ICVV Instituto de Ciencias de la Vid y del Vino · iniav Instituto Nacional de Investigação Agrária e Veterinária, I.P.

Fundación Juana de Vega · utad Universidade de Trás-os-Montes e Alto Douro · ipb Instituto Politécnico de Bragança Escola Superior Agrária · IRTA Institut de Recerca i Tecnologia Agroalimentàries

Universidad de Córdoba · Águas do Norte Grupo Águas de Portugal · INRAE · Agencia de Medio Ambiente y Agua de Andalucía Junta de Andalucía

gestagua · AMB Metròpolis Barcelona · Oficina del Regant · Govern d'Andorra

www.interreg-sudoe.eu/proyecto-interreg/i-rewater

PROJECT CO-FUNDED BY THE INTERREG SUDOE PROGRAMME THROUGH THE EUROPEAN REGIONAL DEVELOPMENT FUND (ERDF)

ERDF grant: 1.662.225 € | Total costs: 2.226.300 €

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I-ReWater

Sustainable management of water resources in irrigated agriculture in the SUDOE space

I-ReWater

Exploring the potential of a new resource

Climate change, over-exploitation of aquifers and high demand, among other factors, have made **reclaimed water** a **key asset** in water resource management and in the circular economy model. I-ReWater will validate its use in irrigated agriculture, contributing to greater sustainability of the integral water cycle. The use of inputs (fertilizers) could even be reduced, as reclaimed water contains high levels of nutrients such as nitrogen and phosphorus.

15 PILOT ACTIONS

A total of **13 trials will be carried out simultaneously on woody crops** (olive, vineyard, hop, and almond) and **2 additional trials on horticultural crops** (tomato and watermelon), with analysis of results at all levels: agronomic, social, and environmental. The entire fertigation network will be equipped with low-cost sensors at both soil and plant level in order to develop a new decision support system (DSS) that can be replicated at user level. This new ICT tool will allow farmers to know when and how much to irrigate, while also advancing towards Agriculture 4.0 in line with circular economy principles.





Another important task in I-ReWater will be to improve general understanding of reclaimed water, by fostering information exchange among all stakeholders.

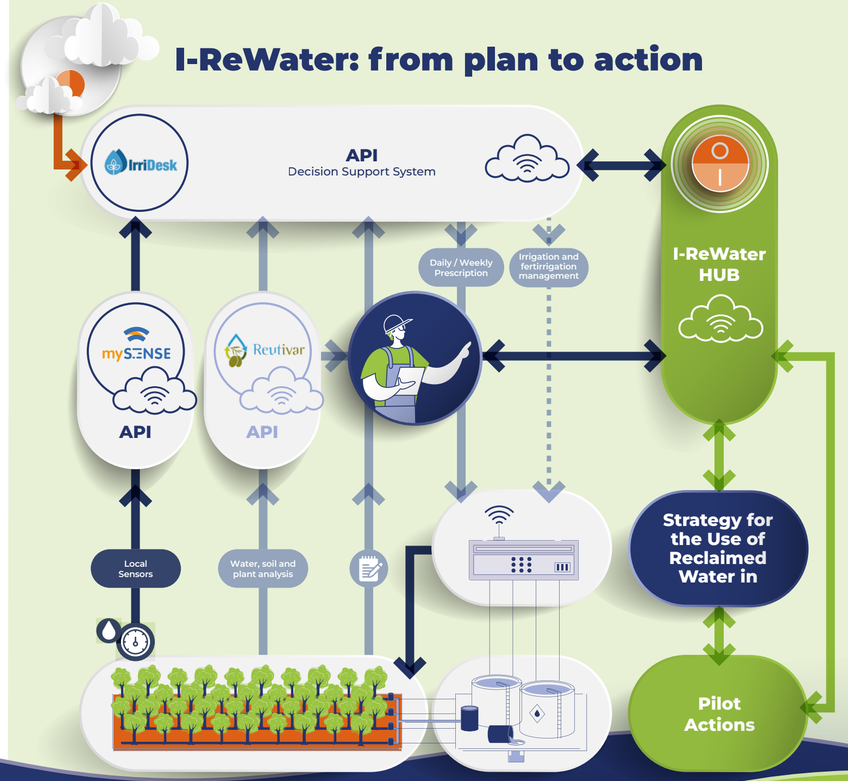
WHAT IS RECLAIMED WATER?

It is treated wastewater that undergoes additional treatment to reduce its pollutant load, making it suitable for reuse in various applications: agricultural, urban, industrial, recreational, aquaculture, livestock, forestry, or environmental purposes.

CONSORTIUM

The **16 partners** involved in I-ReWater form a multidisciplinary consortium, further supported by 39 collaborating entities.

I-ReWater: from plan to action



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Location of the 15 I-ReWater pilots in the SUDOE space