REWATER

sustainable and safe water management in agriculture

Sustainable and safe water management in agriculture: increasing the efficiency of water reuse for crop growth while protecting ecosystems, services and citizens' welfare - REWATER

Newsletter no 1, 2017

The project

REWATER proposes to develop an innovative joint research and application of technologies producing a final integrated solution for reuse of wastewater (WW) for agricultural purposes, and their economic and environmental evaluation with a Life Cycle Assessment. This systematic approach, inspired in technological, organizational and bio-based economy, will minimize negative impacts of WW reuse in the environment, decreasing the undesirable introduction of emerging contaminants (ECs) in agriculture and aquatic systems and reducing their spread within the food chain.

Work programme includes tuned improvement or development of:

1) biosensors for in-field rapid and selective detection of micropollutants and their corresponding metabolites and/or degradation products (MMDs),

2) treatment processes for MMDs removal through integration of electrochemical and biological technologies,

3) ecotoxicological tools to evaluate treated water for reuse and develop expeditious surveillance, and

4) analytical monitoring, scaling-up and environmental/economic assessment.

REWATER will provide tools and solutions contributing to WW reuse, environmental health, and economic and social welfare.

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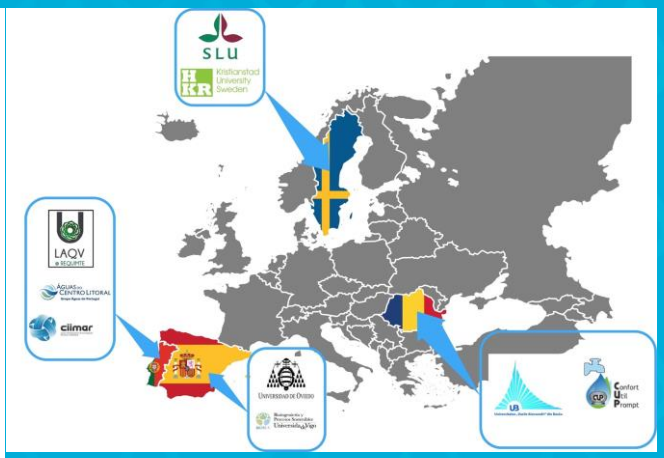
Consortium

Partner Number and Acronym	Organisation Name
Partner 1 REQUIMTE	REQUIMTE/LAQV-GRAQ - Green Chemistry Associated Laboratory - Portugal
Partner 2 CIIMAR	Interdisciplinary Centre of Marine and Environmental Research - Portugal
Partner 3 AdCL	Águas do Centro Litoral, S.A. Portugal
Partner 4 UVIGO	University of Vigo, Group Bioeng. and Sustainable Processes, Dep. Chemical Engineering - Spain
Partner 5 UNIOVI	Universidad de Oviedo, Dep. Physical and Analytical Chemistry - Spain
Partner 6 UBc	"Vasile Alecsandri" University of Bacau, Faculty of Engineering - Romania
Partner 7 CUP	Focsani Public Utilities Company Romania
Partner 8 KU	Kristianstad University, School of Education and Environment, Man and Biosphere Health - Sweden
Partner 9 SLU	Swedish University of Agricultural Sciences, Dep. Biosystems and Technology - Sweden



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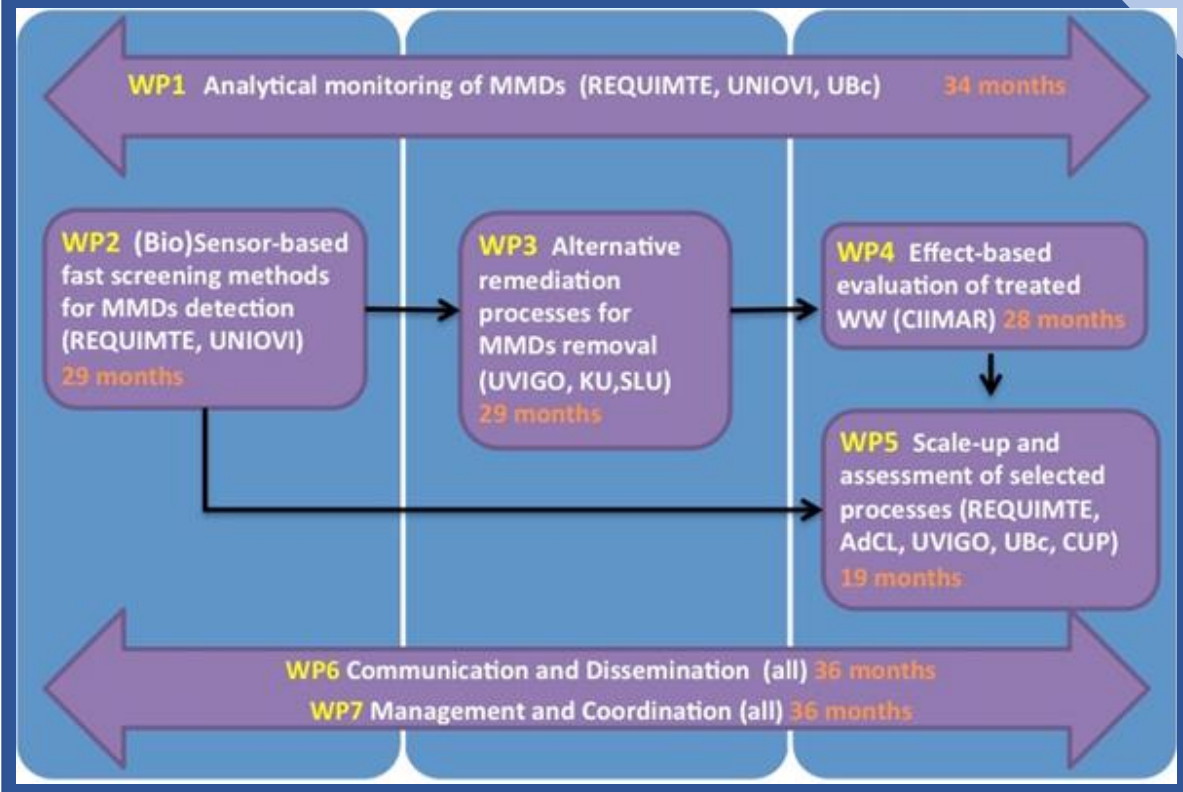
Research methodology



The image from the front page was generated using Google Maps and represents the wastewater treatment plant administrated by Partner 7 CUP.

REWATER

https://www2.isep.ipp.pt/rewater/