



JPI MOTREM PROJECT



Integrated Processes for MOnitoring and TReatment of EMerging Contaminants for Water Reuse (MOTREM)

Project Description

MOTREM is intended to provide new technologies, and improve those that already exist, for controlling and treating emerging pollutants (EP), with special emphasis on water re-use.

The Project has the following general objectives:

- To develop new processes or modifications of biological and disinfection technologies in Wastewater Treatment Plants (WWTP) using advanced oxidation and bio-oxidation processes.
- To develop new technologies for monitoring WWTPs in regard to EP removal, including analytical procedures and assessment of ecotoxicology.
- To bring the "key enabling technologies" developed in the previous stages together to test them in an urban waste water treatment plant.

Some of the main criteria used for selecting the EPs in the project are that they should have an extensive presence in the WWTP used in the study, that they should be refractory to current water treatment processes, and that they are potentially harmful to ecosystems and human health.

The selection of EPs is also of particular interest for future policy-making, as the result of the project will establish feasible degradation levels on which a regulatory framework on emerging pollutants can be based.

The consortium in MOTREM combines cross- and multi-disciplinary expertise covering the design of water treatment processes, engineering, analytical chemistry and ecotoxicology for the development of integrated processes to ensure an outflow of new scientific knowledge and innovative business solutions.

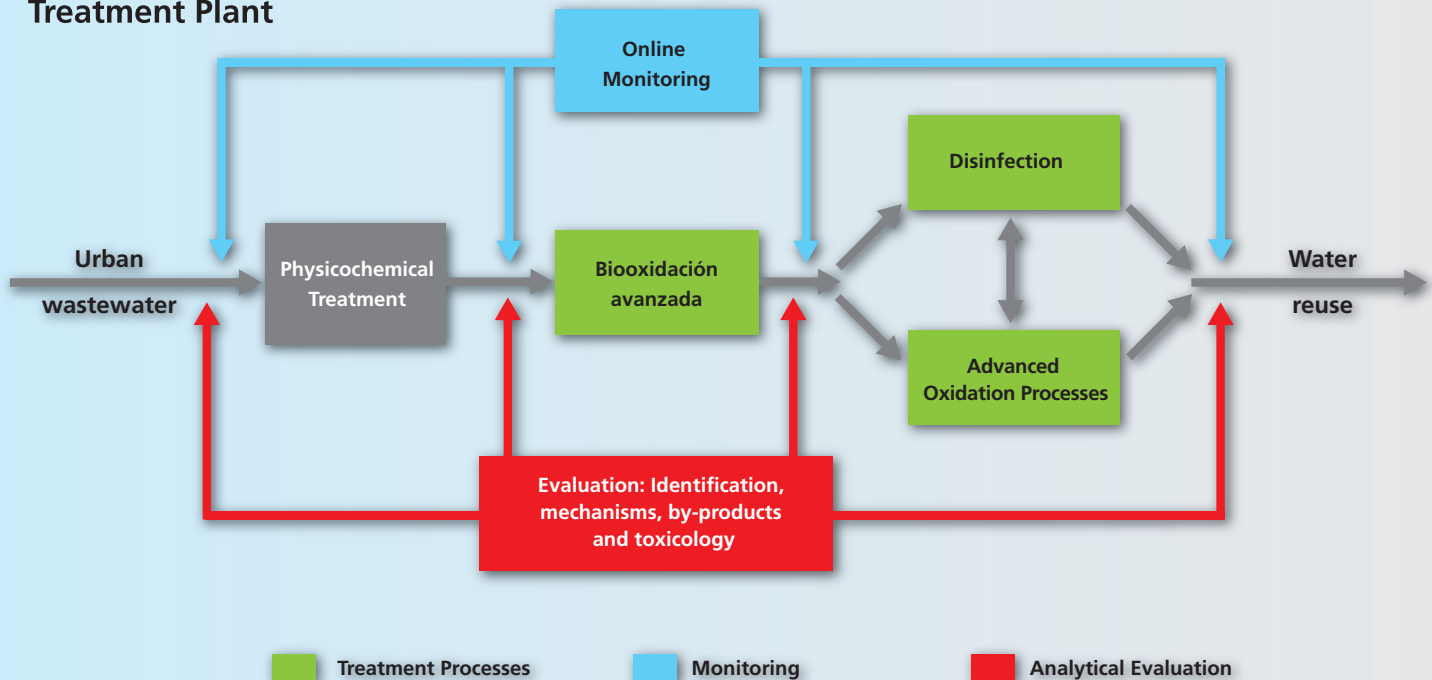


Location: EDAR de Estiviel (Toledo), EDAR de Tortosa (Tarragona) y EDAR de Mérida (Badajoz)

Duration: From the 1st of January 2015 to the 31st of December 2017

Total Budget in Euro: 1,592,989 € **Aqualia:** 189,061 €

Wastewater Treatment Plant



PROJECT PARTICIPANTS

- Universidad Rey Juan Carlos (Spain) (leader)
- Universität Stuttgart (Germany)
- University of Helsinki (Finland)
- Università di Torino (Italy)
- FCC Aqualia, S.A. (Spain)
- Bruker Española, S.A. (Spain)



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DETAILS OF FUNDING

Funding: Water JPI Pilot Call on Emerging water Contaminants – anthropogenic pathogens and pollutants.

Organism: Water Joint Programming Initiative (JPI) (UE).

Project: EXP 00075202 / IDI-20141188

Grant: Preferential loan of 75% of the budget with 20% non-refundable.

Funding Received

Aqualia: 141,795.75 €