

The main aim of the **ITACA** project is to research new technological concepts of purifying industrial or urban wastewater that efficiently and sustainably allow the current treatment process to be converted into a strategy for reuse, use of substances, subproducts and waste, and energy recovery, minimising impacts on natural environment.

Parallel research into advanced systems of measuring, automation and control of treatment and recovery processes is also taken into account. This research will result in a centralised management system that will automatically and independently decide the sequence and control of new effluent treatments, the objective of the study.



The research activities carried out by Aqualia on the **ITACA** project are based on the following water treatment processes:

- New technology to remove nutrients using autotrophic nitrogen removal systems in the water line.
- Microalgae for the removal of contaminants in real wastewater.
- Microbial electrochemical cells for wastewater treatment without energy consumption.

Duration: September 2011 – December 2014, divided in 4 annuities
Total budget: 15,475,454 €
Aqualia: 3,107,854 €

PROJECT PARTICIPANTS:



GRANT:

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