

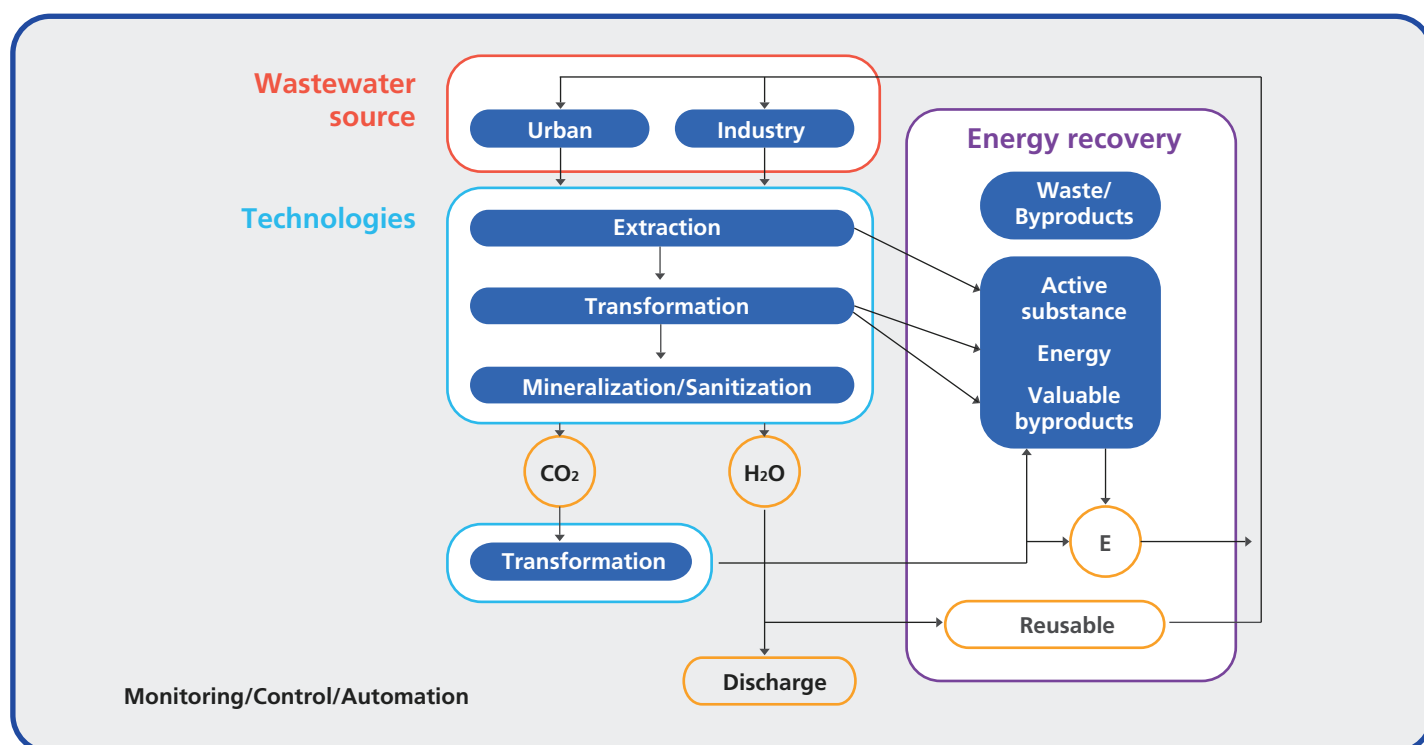


Research into treatment, reuse and control technology for the future sustainability of water purification.

# ITACA Project

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:

### Partners:

**Leader:** ADASA Sistemas S.A.

#### Other

**partnerts:** CESPAs Gestión de Residuos, S.A.  
JAP Energéticas y Medioambientales S.L.  
Desarrollos Ecológicos e Industriales, S.A.  
Hidroquimia S.L.  
Dow Chemical Iberica, S.L.  
Depuración de aguas del mediterráneo S.L.  
Técnicas Reunidas S.A.  
aqualia gestión integral del agua

### Main Collaborators:

Univ. de Alcalá  
Univ. de Santiago de Compostela  
Universidad de Almería



### GRANT:

The ITACA project is carried out under the INNPRONTA programme, financed by the Centre for Industrial Technological Development (CDTI) and co-financed by the ERDF fund under the Operational Programme 'Research, Development and Innovation for and by Enterprises - Technology Fund'.

