

# Technological assessment for the efficient and sustainable treatment of wastewater in the anchovy sector

## Summary

High conductivity, associated with the presence of salts in wastewater generated by agri-food industries, is a challenge that difficulties the industrial process and can have great impact on the environment. An Operational Group has been created to carry out a technological assessment of wastewater treatments in the anchovy sector, in order to find solutions to this problem, which affects the productivity of this and other sectors related to salted product processes or intensive water pre-treatment.

## Objectives

The main objective of the Operational Group is the implementation of innovative strategies and solutions for an integral water cycle management in the canning sector, taking into account quality, efficiency and cost parameters. This would optimize the production process and achieve a more sustainable management of water and wastewater, reducing the environmental impact of the production process of the anchovy sector and other sectors affected by brine generation.

## Conclusions

An Operational Group was created including a pioneering company in the anchovy sector, a research centre and an engineering company (both experts in complex water treatment Systems) and the CWP, in order to work together to implement the obtained results into a real pilot project. Based on the study and the characterization of the production processes and wastewater generated, it has been concluded that the correct homogenization of the wastewater, as well as the use of exhaustive pre-treatment to guarantee the protection of biological processes, is crucial. Likewise, only an ordered design of the different process stages will allow the optimization of nutrient removal processes and the reduction of the effects of high salt concentrations.

## Operational Group Leader

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Tipologia d'entitat:

**Indústria agroalimentària**

## Keyword-category

Waste, by-products and residues man  
Water management

## Territorial scope

**Province**  
Girona

**County**  
Alt Empordà

## Project dissemination *(publications, seminars, multimedia...)*

Pàgina web: CWP

Newsletter i twitter CWP

Jornades: Immersió Estratègica CWP, Assemblea General CWP, reunions amb INNOVACC

## Project website

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www.cwp.cat

## Other project information

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### Project period

### Approved budget

Starting date (month-year):	Març 2017	<b>Total budget:</b>	<b>28.500,00 €</b>
End date (month-year):	Setembre 2017	<i>Funding source DARP:</i>	11.371,50 €
Project status:	<i>Finalised</i>	<i>Funding source EU:</i>	8.578,50 €
		<i>Own funds:</i>	8.550,00 €

### With the support of:

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*Ordre ARP/96/2016, de 27 d'abril, per la qual s'aproven les bases reguladores dels ajuts a la cooperació per a la innovació a través del foment de la creació de grups operatius de l'Associació Europea per a la Innovació en matèria de productivitat i sostenibilitat agrícoles i la realització de projectes pilot innovadors per part d'aquests grups (operació 16.01.01), i es convoquen els corresponents a 2016.*

*Id. projecte: 103 2016*