

Implementing  
practical tools for

## WATER SUSTAINABILITY

Project Ô shows how **local, targeted** water treatment technologies can help **improve global water management** allowing everyone **to benefit from this shared resource**

### Project Ô enables water management and treatment technologies

The combination of innovative treatment technologies with two digital platforms will improve water management for communities in Europe and beyond.

- » Increasing the opportunity to reuse water
- » Improving the quality of water returned to the natural environment
- » Using less operating energy when treating water

## THIS AREA IS PART OF A CIRCULAR WATER ECONOMY

Along with three other areas, it has been supported by Project Ô to benefit from the first installations of innovative water management technologies.



### The Puglia region, Italy with Acquedotto Pugliese

Some freshwater sources can no longer be used. This can be due to contamination and the water source being too far from existing water treatment plants for processing.

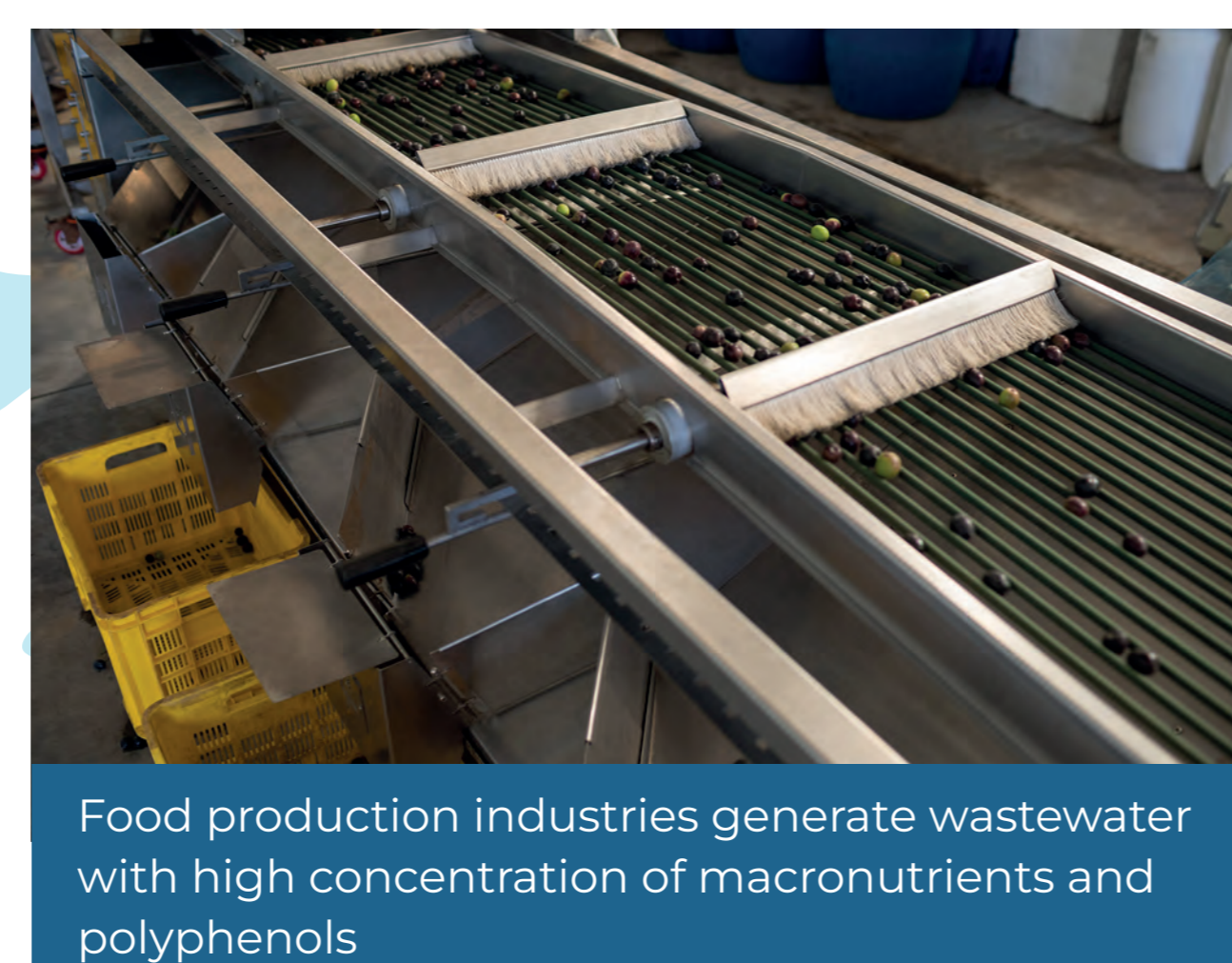


Abandoned wells in the Puglia region of Italy have contaminated freshwater

Project Ô has developed **ADV.VERT**, a technology that can treat contaminated water. It has low investment and operational costs, and a low environmental impact. It operates independently of a water treatment plant and can be used directly at the water site.

### Almendralejo, Spain with SOCAMEX

Industrial wastewater may contain toxic pollutants with the potential to damage wastewater treatment plant systems. This means that toxic pollutants could end up untreated in the environment.



Food production industries generate wastewater with high concentration of macronutrients and polyphenols

Project Ô has developed **MOBILE3TECH**, a technology to remove complex pollutants from wastewater. It ensures compliance with new water regulations, helps protect wastewater treatment plants and allows for a more effective reuse of water.

### Eilat, Israel at The National Center for Mariculture

47% of global fish supplies come from fish farming. Current land-based mariculture water treatment systems cannot remove nitrates and other pollutants, which can then build up in the tanks.

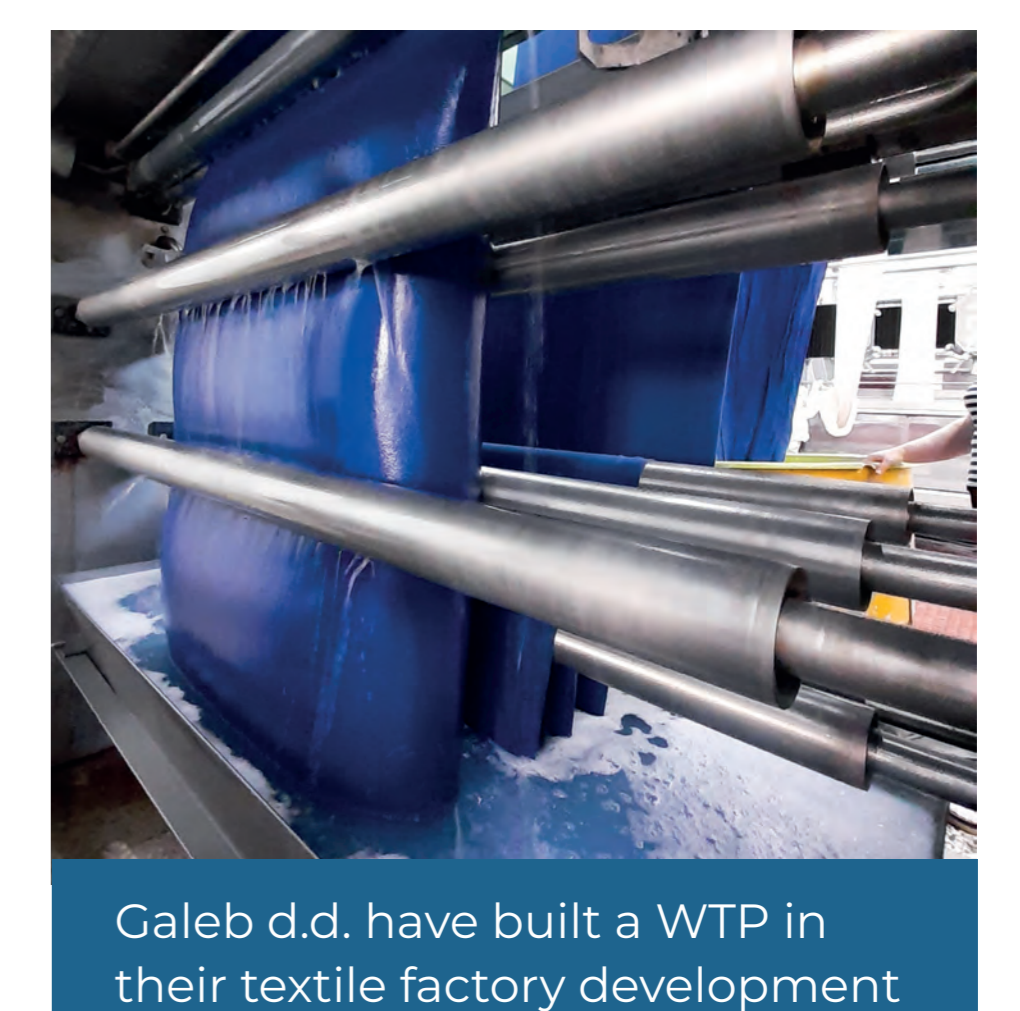


The NCM specialise in technologies supporting marine fish farming systems

Project Ô has developed **SALTECH** technology, a cost-effective nitrate removal process. It treats used land-based mariculture water allowing for an almost 100% closed loop of water use. It even provides commercial possibilities through water and nutrient reuse.

### Omiš, Croatia with Galeb d.d.

Textile production is a water-intensive industry. Water is used to clean raw materials and as part of the dyeing process. Production also relies on many different substances, which can end up in used water streams and are difficult to treat.



Galeb d.d. have built a WTP in their textile factory development

Project Ô has developed **PHOTO.CAT**, a technology to remove dyes from used water and increase the percentage of water available for reuse. This module also partially removes dissolved salt used in the dyeing process for further reuse.

## Partners

- » Aalborg University » Acquedotto Pugliese » CNRS » Eilat Municipality » EKSO » Ente Nazionale Italiano de Unificazione » Galeb d.d. » Heim.ART - Kulturverein » Hochschule Rhine-Waal » Institute for Methods Innovation » IRIS » Israel Oceanographic and Limnological Research » Kalundborg Symbiosis » National Center for Mariculture » Particula Group » Politecnico di Milano » Regione Puglia » SOCAMEX » Technion - Israel Institute of Technology » Universidade de Aveiro » Università di Torino » Universitat Politècnica de València

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Project Ô Website  
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