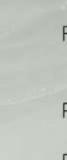
Co-funded by the Eco-innovation













www.artica4nr.eu

Project information

Call (part) identifier CIP-EIP-Eco-innovation-2013

Funding scheme CIP-Eco-Innovation-Pilot and market replication projets

Project coordinator CEIT - www.ceit.es

01/07/2014 - 31/12/2016 Duration

Overall budget 1,440,143.00 € (EU contribution: 50 %)

Contract number ECO/13/630386



www.artica4nr.eu

Replication of the art-ICA controllers for improving the eco-efficiency and sustainability of nutrient removal wastewater treatment plants

The artICA4nr project has been co-funded by the Eco-innovation Initiative of the European Union under grant agreeement nº 630386



## THE PRODUCT: art-ICA controllers

The art-ICA controllers automatically optimise effluent quality and energy consumption in conventional nitrogen removal wastewater treatment plants. These controllers are part of ICA 2.0 suite, offered by MSI Grupo (www.eficienciaenergeticaedar.com)

The art-ICA controllers have been technically validated in two Spanish WWTPs: Galindo-Bilbao WWTP and Mekolalde WWTP.

## THE PROJECT: artICA4nr

Speed up the time-to-market of art-ICA

Replicate art-ICA in three new plants

Quantify the environmental and economical benefits of art-ICA

Validate art-ICA using low-cost NH4-N and NO3-N ISE sensors

## **EXPECTED RESULTS**

By 2021 (five years after the end of the project) the art-ICA controllers will be working in about 80 wastewater treatment facilities.

Energy savings: 4 GWh/year

Reduction in CO<sub>2</sub> emissions: 1160 t CO<sub>2</sub>/year

Reduction in N discharges: 1000 t N/year

The art-ICA controllers will be showcased in two international fairs and two national workshops in Spain and Portugal.



art-ICA will be replicated in three WWTPs.

The Navarrosillos WWTP 113000 PE (Spain)







The Velilla de San Antonio WWTP. 123000 PE (Spain)

OBJECTIVES