



Editorial

Dear Reader,

Welcome to the third issue of WADI Newsletter. My name is Alexandra Carvalho and I work as Director of planning and engineering at EDIA.

I am writing this editorial from EDIA headquarters, which are located in the city of Beja, in the southern part of Portugal. We are a public company that planned, funded, built and now operates the Alqueva project, a large irrigation project in the Alentejo region.

The Alqueva irrigation network starts at a big reservoir – the Alqueva artificial lake, covering 250 km² and holding over 3,100 hm³ of water. From here a network of large channels and reservoirs distributes large volumes of water to 120,000 hectares of irrigated farm land. In 2017 we distributed around 400 hm³ of water mainly for agriculture and supplemented water supply for human use in the region, besides assuring environmental best-practices.

EDIA participates in the WADI project as a demonstration site. As we approach the end of the project, we are preparing the demonstration tests in Portugal. These consist of:

- a training workshop to present the WADI methodology as well as traditional leak detection methods to EDIA's staff and other water utilities in the region;
- a Ground Leak Detection Campaign (GLD) performed with conventional sound-based methods over a sample network;
- an aerial campaign with plane and drone, covering the same sample network as the GLD campaign.

The results of the GLD campaign will serve as benchmark for WADI methodology and will be compared with the outcome of the aerial campaign to evaluate the accuracy of our airborne remote sensing technique.

Besides all of this, we are also pleased to welcome the whole team as our guests for the next project meeting and review taking place in June here in Beja. This will be a chance for us to show our partners the Alqueva project and the Alentejo region.

I hope you will enjoy reading this issue of WADI's newsletter, which includes an insight article with a focus on ground leak detection methods along with information on the latest scientific publications and

presentations at international conferences and news from our community of sister projects.

Should you participate in the ICCS or IGARSS Conferences don't hesitate to get in touch with us. On the 11th June we will also be attending the ICT4Water Cluster Annual Meeting (more information below).

I invite you to stay up-to-date on our activities by visiting our website and by following the hashtag #WADltech on Twitter.

Alexandra Carvalho

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In the spotlight



From ground to sky to detect water leaks

In some European countries half of the water flowing in the supply system gets lost because of the difficulties experienced by water utilities to monitor leaks in their networks. A new airborne detection ...

News from the project



Report on the Action Plan to foster Digital Single Market for Water Services

Developing advanced digital water treatment solutions will contribute dramatically to achieve good status of European water bodies.



Theme: 01: Remote Sensing
Sub-theme: 07: Remote sensing for water resources management
Multispectral approach assessment for detection of losses in water transmission systems by airborne remote sensing
C. Chantard¹, J.-C. Krupar², P. Barthel³, P. Deltat⁴, Y.-M. Fournil⁵, J. Pivrot¹, J.-F. Naud⁶,
P. Bihoué¹, N. Lemaire¹, S. Legoff¹, G. Serré¹

Multispectral approach assessment for detection of losses in water transmission systems by airborne remote sensing

The paper presented at the 13th International Hydroinformatics Conference (HIC2018) is available for download.



A reliable water leak detection service

WADI's methodology to be presented at the ICCS Conference



WADI flies to Japan

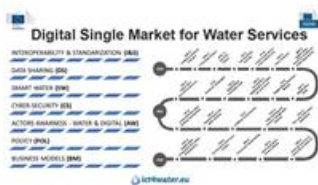
ONERA will present a scientific paper in the 39 th annual IGARSS Symposium



Sister projects

New section on WADI website WADI pays tribute to its sister projects with a section of the website dedicated to the ICT4Water Cluster . Get to know the most innovative projects in the water sector!

News from the ICT4Water Cluster



ICT4Water cluster Annual meeting

On 11 th of June, the ICT4Water cluster (a hub for EU-funded research and innovation projects on ICT applied to water management) will organise its annual meeting in Brussels, prior to the WSSTP Water Innovation Europe (WIE).



From Space to Tap — Satellite Technology for Improved Water Management

A briefing note from the SPACE-O project explores how advanced technology can be used by the water sector to optimize performance (in the case of water utilities) and improve management.



The STOP-IT project

The European research project STOP-IT is part of the ICT4Water cluster and focuses on the strategic, tactical and operational protection of critical water infrastructures against physical and cyber threats.



SMART-Plant supporting decision-making to reduce carbon footprint

The implementation of innovative resource recovery technologies at industrial scale level is always a big decision making challenge. To ease this task, the SMART-Plant H2020 project is testing a Decision Support System (DSS).

Recommended events



This project has received funding from the European Union's Horizon 2020 Programme for research, technological development and demonstration under grant agreement No. 689239



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