



W2DS

Wastewater Data
Solutions

Smarter data for more resilient wastewater networks.

MONITOR • UNDERSTAND •
PREDICT • ACT •



THE PROJECT

W2DS – Wastewater Data Solutions is an R&D project developing an integrated hardware, software and AI solution to monitor and manage inflow and infiltration (I/I) in wastewater networks.

By combining innovative sensors, wastewater quality monitoring, energy autonomy, data analytics and predictive models, W2DS aims to improve I/I detection and support more efficient, resilient and sustainable wastewater networks.

THE OBJECTIVES



Develop new monitoring technologies for wastewater networks, including water level and quality sensing.



Create a platform with I/I indicators, performance metrics, alerts and decision-support tools.



Apply AI to predict critical events, including surcharging and overflows.



Explore energy harvesting to increase monitoring system autonomy.



Validate the solution through pilot studies in relevant operational environments.

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EXPECTED RESULTS



Improved detection and quantification of I/I.



Enhanced monitoring of wastewater quality.



Progress towards energy-autonomous monitoring.



Predictive capabilities for critical network events.



More informed and preventive network management.

THE CONSORTIUM

Wada Solutions

Project leader. Development of water and wastewater monitoring and management solutions.

CeNTI

Applied research and engineering in intelligent water monitoring, validation and technology transfer, supporting industrial innovation.

Águas de Coimbra, E.M.

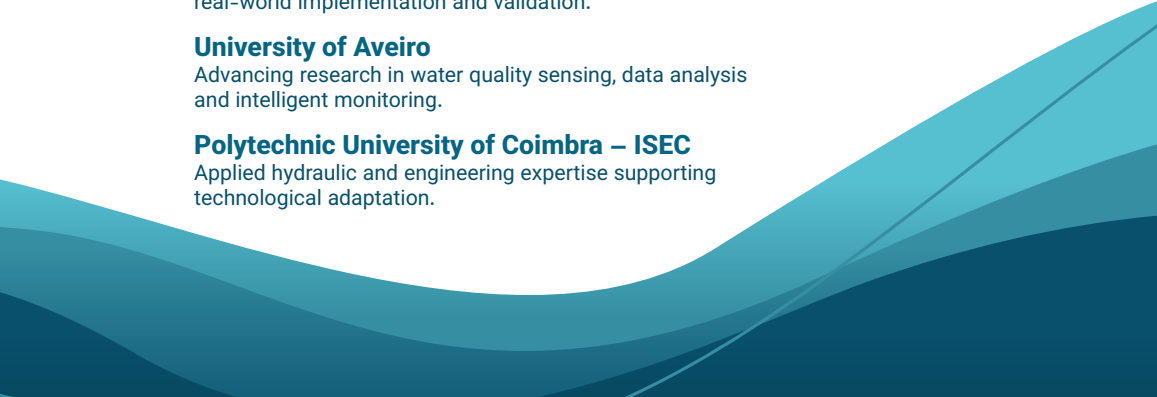
Water and wastewater utility supporting real-world implementation and validation.

University of Aveiro

Advancing research in water quality sensing, data analysis and intelligent monitoring.

Polytechnic University of Coimbra – ISEC

Applied hydraulic and engineering expertise supporting technological adaptation.



SCIENCE INNOVATION COLLABORATION IMPACT

Follow the project on our social media channels:



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