

WATER INFORMATION AND REMEDiation PLATFORM (iWIRE) SOFTWATER



Environmental monitoring and wastewater treatment facilities are increasingly required to manage large volumes of heterogeneous data in order to comply with existing and emerging EU regulations, demonstrate treatment performance, and support data-driven decision-making. However, operational data are often fragmented across multiple systems and difficult to interpret by non-technical users.

iWIRE is a multi-stakeholder digital platform developed within the iMERMAID project to address this challenge. iWIRE integrates and visualises heterogeneous environmental datasets – including laboratory analyses, in situ and sensor data, climate information and contextual data – into a unified, user-friendly web interface. Through interactive dashboards and analytics, iWIRE enables transparent monitoring of water quality, assessment of remediation technologies, and comparison across sites and solutions.

The platform has been demonstrated across five Mediterranean use cases (Spain, Tunisia, Italy, Cyprus and Greece), covering industrial wastewater, municipal treatment plants, marine monitoring and landfill leachate. iWIRE supports different user profiles, from plant operators and technology providers to environmental agencies, policy makers and the general public, through differentiated access levels.

iWIRE establishes a robust digital infrastructure for environmental monitoring and remediation assessment at regional scale. Beyond iMERMAID, the platform is designed as an open, modular and reusable solution, with strong potential for adoption by water utilities, service operators, environmental consultancies, regulatory bodies, and future European projects. iWIRE will remain operational after the project and is positioned as a transferable digital asset for long-term exploitation.

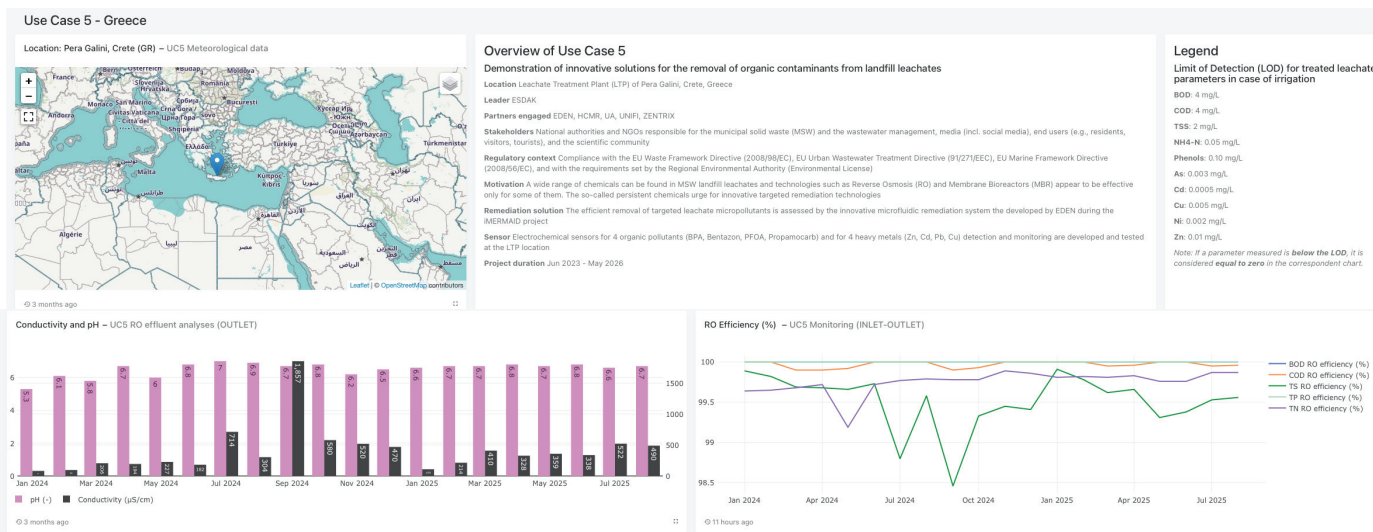


Figure 1: Screenshot of dashboard created for Use Case 5 in Pera Galini, Crete (Greece) on the platform <https://iwire.soft-water.it/>.

Key Benefits



Integrated environmental data in one platform



Interactive dashboards for decision support



Reusable, open-source and scalable architecture



SoftWater

iWire platform

<https://iwire.soft-water.it/>



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