

Solution

ALJARAFESA responded to these challenges by launching the GAM (Asset and Mobility Management) project through the advanced implementation of Cloud GAM on the [Xylem Vue platform](#). The solution was designed as a single digital environment capable of supporting the daily operations of the entire area's system, integrating operational monitoring, maintenance, and leak control within a scalable cloud architecture.

The project delivers centralized integration of the Smart SCADA module (IoT Core + Unified Network Management) with Xylem Vue's Work Orders and Leak Detection applications to manage thousands of operational signals, digitalize and trace work orders related to networks and facilities, and systematically detect leaks across a vast network extending over thousands of kilometers. The platform is complemented by a water quality information system in a third-party LIMS (ICSA NEVIS LIMS) and sets out a clear roadmap to add capabilities such as Smart Water Engine (SWE), Operational Intelligence, and the Sewer Tracker and CCTV applications, progressively expanding the scope of operational and asset management.

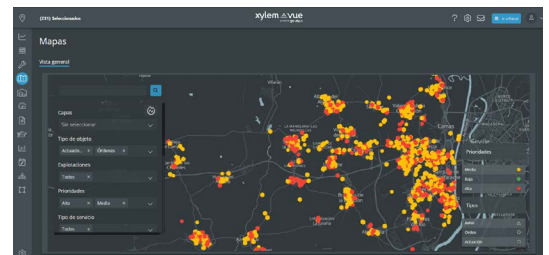
Results

The implementation of Cloud GAM has provided ALJARAFESA with large-scale management capabilities, aligned with the volume of infrastructure and assets it operates. The consolidation of operational and maintenance data has reduced response times, improved team coordination, and enabled field work to be prioritized based on impact and risk, rather than taking a reactive approach. Furthermore, the project has laid a solid foundation for reducing water losses, improving maintenance efficiency, and enabling continuous monitoring through operational and strategic KPIs, tailored to a system that supplies water to hundreds of thousands of people.

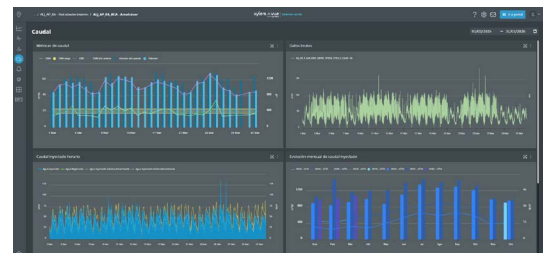
The project has become a key part of the GAIA digital ecosystem, providing the operational layer needed to capitalize on investments related to the PERTE and the deployment of smart meters. The platform integrates asset management, operational monitoring, work orders, and leak detection, connecting consumption data with the physical reality of the networks and closing the loop between metering, operations, and maintenance. As a result, ALJARAFESA has not only become more efficient, but has also built a robust, scalable digital architecture, ready to handle data growth, boost transparency, and maximize the impact of its digital transformation strategy for the benefit of the region and its residents.



Level sensor management



Field work management



Monitoring of water supplied to municipalities

"The GAIA project brings more efficient water management, reduces network losses, and improves service quality (...). In addition, the implementation of technologies such as remote meter reading opens up new services for users and promotes responsible water use."



Antonio Valverde, Executive Vice President of Aljarafesa