

OPSCTRL: OPERATIONAL INTELLIGENCE SOLUTION IN RESPONSE TO THE RDI 2025-2030 WWTP CONTROL SYSTEMS MASTER PLAN

CHALLENGE

Transform the WWTP into a **smart and sustainable facility**, capable of operating with maximum efficiency to reduce resource consumption, with a strong commitment to the environment and the community.

Through **advanced automation systems and real-time analysis**, the aim is to optimise processes to ensure reliable operation in wastewater treatment.

In this way, the plant is prepared to **adapt to future needs**, preserving natural resources and actively contributing to the sustainability and well-being of society.



opsCTRL transforms the WWTP into a smart and sustainable facility.

ADASA'S SOLUTION

opsCTRL is a **solution based on four strategic axes**: security and resilience, control and monitoring, operational efficiency and anticipation and strategic planning.

In this case we will focus on the third axis, **operational efficiency**, which focuses on **advanced automation** and

digitisation to optimise energy, chemical and human resources.

opsCTRL offers intelligent control, digitisation and analysis of quality data, digitisation of maintenance and implementation of our analytical and KPI implementation tool.

For the **digitisation and data analysis** we have:

- **Inventoried the sampling** points and available data.
- **Evaluated the opsCTRL platform as a system** for digitising laboratory data management.
- **Implemented opsCTRL for continuous data** integration from plant sensors.
- **Automated quality controls** and generated analytical reports.
- **Implemented preventive, predictive** and corrective maintenance, with automatic generation of work orders based on SCADA alarms.
- **Updated and centralised technical** and multimedia documentation associated with equipment and control cabinets.
- **Trained operators** in new functionalities and maintenance processes.



The platform for evolving operations in water, wastewater and biogas facilities can be integrated with your SCADA or HMI system, or operate as a stand-alone solution.

RESULT

By implementing opsCTRL as a technology for operational efficiency, **we have provided our client with a centralised, real-time view of information**, with improved anomaly detection and response.

The tool allows us to **optimise time spent on manual management and reporting** and helps us to efficiently comply with quality regulations.

Increased efficiency in maintenance management and the automatic generation of work orders allow **for predictive and preventive maintenance** as well as improved traceability.

CLIENT

Our client is INTRAVAL, SL (Grup TRADEBE), located in the town of Igualada in the REC district. It manages an industrial wastewater treatment plant (Igualadina de Depuració i Recuperació - IDR) from the city's leather tanning industry.

The plant treats the water with chemical, physical and biological processes in which coarse matter, suspended matter, dissolved substances (organic matter and nitrogen) and colour are removed.

The treated water is discharged into the sewage system in compliance with all environmental parameters required by current legislation and ensures optimal treatment of industrial water.

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