QleanUP **methodology**

Stakeholder-Driven Co-Creation:

Implement a co-creation methodology involving the entire urban water value chain to ensure solutions are practical and easily adopted.

Modular Sensing Solutions:

Combine novel real-time physical sensors with «soft-sensing» digital tools to provide a comprehensive view of water quality.

Risk-Based Management Planning:

Design evidence-based operational plans that support both immediate interventions during pollution events and long-term adaptation strategies.

Integrated Digital Ecosystem:

Develop an interoperable platform that integrates monitoring data and risk assessment tools into a single, user-friendly interface for utilities.

Cross-Border Validation:

Test and validate the efficacy of the QleanUP platform through five diverse Demo Cases across Europe, ensuring replicability and scalability.

About QleanUP

START DATE
01 January 2026

DURATION
48 months

BUDGET
€ 5,468,287.50

EU FUNDING
€ 4,999,998.75

PROJECT COORDINATOR
Delft University of Technology

TU Delft · KWR · University of Exeter · eurecat Centre Tecnològic de Catalunya · Westcountry Rivers Trust · South West Water · waterschap amstel, gooi en vecht · EYDAP · GO lab · aguas de valencia · emivasa Ajuntament de València · Water Europe Technology & Innovation · OliSens Water quality control in real time · Orvion · Associated partner ALTIS

qleanup-project.eu

www.linkedin.com/company/qleanup-project/

Funded by the European Union

QleanUP

Holistic Monitoring & Planning for Urban Water Quality

Why QleanUP

QleanUP is a 4-year Horizon Europe project that develops an integrated approach to monitoring and managing urban water quality.

By combining advanced sensing technologies, AI-based tools and risk-based planning, the project supports faster, more reliable, and cost-effective decisions for water utilities and authorities.

The project's **objectives**

- Identify real-world needs to ensure the successful uptake of digital tools by water authorities and utilities.
- Deploy cost-effective, real-time sensors for heavy metals, nutrients, and pathogens, while improving the detection of microplastics and PFAS.
- Provide «soft-sensors» and Digital Twins to estimate the state of parameters that are difficult to measure directly.
- Deliver an integrated, modular digital platform for decision support, enabling operators to react five times faster to contamination events.
- Target the reduction of organic micropollutants, antimicrobial resistance, and other harmful substances in the urban water chain.
- Increase the technical knowledge base to support the EU Zero Pollution Action Plan and evidence-based policy making.

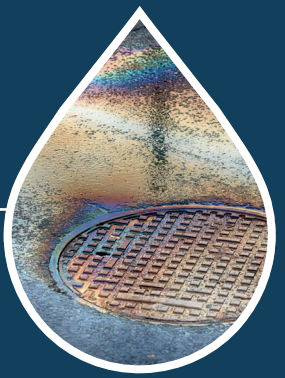
5 **Demo** Cases

DEMO CASE 1
Le Châble, Switzerland

DEMO CASE 2
Valencia, Spain

DEMO CASE 3
Athens, Greece

DEMO CASE 4
Amsterdam,
The Netherlands



DEMO CASE 5
Plymouth,
United Kingdom