

# Xylem Vue powered by GoAigua

ONE PLATFORM – BUILT BY UTILITIES FOR UTILITIES – TO CAPTURE ALL YOUR DATA AND OPTIMIZE THE ENTIRE WATER CYCLE



## The Future of Smart Water

Xylem Vue powered by GoAigua is a vendor-agnostic platform that can capture data from any source, including existing utility applications. It is scalable to suit the needs of different utilities, eliminates silos of information and unlocks the true value of data. It features a wide portfolio of modular applications, maximising efficiency across the entire water cycle.

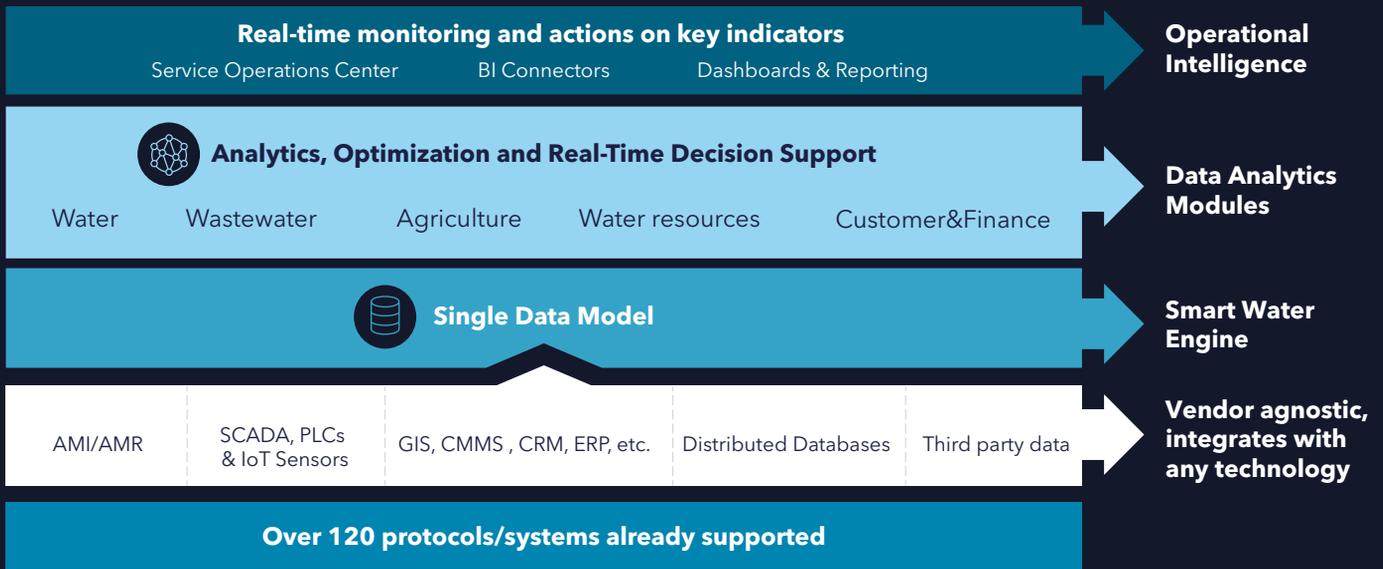
Xylem Vue powered by GoAigua enhances control and visibility to operational groups, provides actionable insights to asset management teams, and provides high-added value to customers.

## Eliminating Data Silos to Improve Operational Visibility and Control

Xylem Vue powered by GoAigua simplifies water cycle management by integrating all utility data into a single platform regardless of its origin (IoT sensors, SCADA, assets, enterprises systems, third party systems, etc.). At the heart of this platform is the Smart Water Engine (SWE), a set of key components to standardize and simplify data management

across the utility. This way, the SWE isolates operational applications from data sources and creates a solid foundation to scale up in a sustainable way. Modular applications provide operational intelligence in the form of real-time monitoring, alerts, process optimisation and suggested actions to ensure optimal system-wide efficiency.

## Platform Architecture



## Smart Water Engine components

### DMD

Standardizes and unifies asset data, defining a unique data model for all the modular applications. It allows the association of new master data to each asset.

### IoT Core

A vendor agnostic IoT platform to manage the integration of data from multiple IoT devices and third-party platforms. It has already integrated data from more than 5 million data sources over more than 120 different technologies and protocols, including different LPWAN technologies (NBIoT, LTE Cat-M1, LoRa, Sigfox, etc.) and standards like wM-Bus, OPC-UA/DA, MQTT, etc.

### Device Management

Allows unified management of different IoT devices through its life cycle (commissioning, network configuration, alarm management, etc.)

### GIS Framework

A GIS engine for all the applications and a set of water-specific GIS functionalities to enhance user experience in the different applications.

### Data Science Framework

An environment for data scientists to create value out of the data available in the platform without compromising operational data.

## Service Operation Center (SOC)

The Service Operation Center (SOC) gathers the insights from all modules and provides an overview of the status of system to improve decision making, including AI assistance. The SOC also allows customization of dashboards and prioritisation of events.



# WATER | Applications



## Unified Network Management

Process automation, autonomous creation of synoptic charts and advanced real-time algorithms based on sensor variables and other infrastructure data sources.



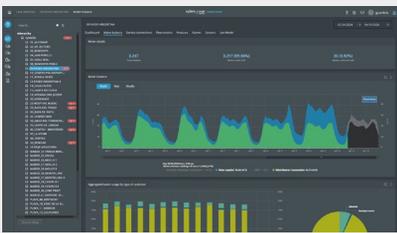
## Real-time What-if Scenarios

A real-time connected hydraulic model that allows what-if scenario simulation and provides suggestions for optimal operation of the water distribution network.



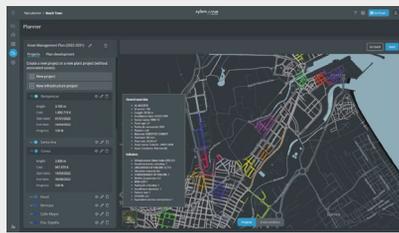
## Unified Plant Management

Smart monitoring and operation of water treatment plants, including advanced algorithms for automatic process optimization.



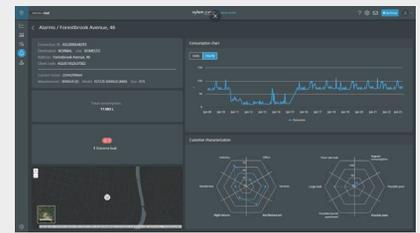
## Leak Detection

Leak detection and localisation through analytics on integrated data from SCADA, AMI, acoustic leak detection and pressure transient monitoring devices.



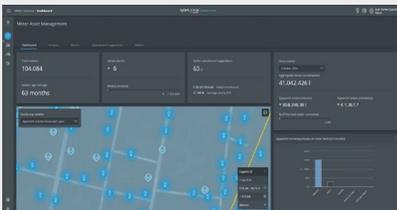
## Pipe Planner

Monitor the status of the infrastructure. Through a risk-based approach helps users create and manage optimized asset replacement plans to maximize the impact of investment.



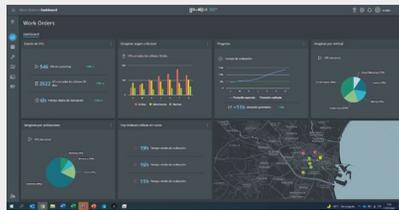
## Meter Data Analytics

Visualization of AMI/AMR data, monitoring of system performance, technology benchmarking, alarm monitoring and customer leak detection algorithms.



## Meter Asset Management

Monitor the status of the meter fleet and create meter replacement strategies based on customised criteria and using ML algorithms to estimate revenue loss and maximize ROI.



## Work Orders

Manage maintenance, schedules, inventory, and assets to optimise efficiency and field work, includes mobile application and route optimization.

# CUSTOMER & FINANCE

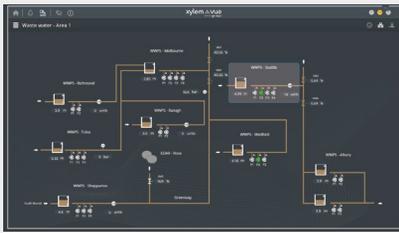
## Customer Portal

Manage the interaction between the customer and water utility, including consumption and billing visualization, contract management and issue reporting.

## Billing One

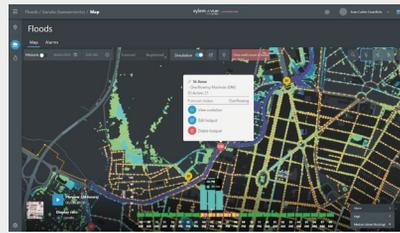
Manages customer accounts, contracts, billing, payments and service interactions.

# WASTEWATER | Applications



## Unified Network Management

Comprehensive synoptic view of the network operation retrieving the main insights from sensors and results of advanced algorithms.



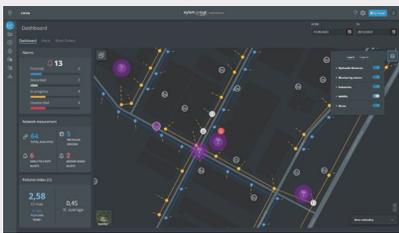
## Real-time What-if Scenarios

Real time decision support system for sewer networks. It provides the user with present and near-future insights and what-if scenarios capabilities to assess operational configurations.



## Unified Plant Management

Monitoring and process optimization in WWTPs. Integration of data from all types of sensors across the plant and easy customization of synoptics.



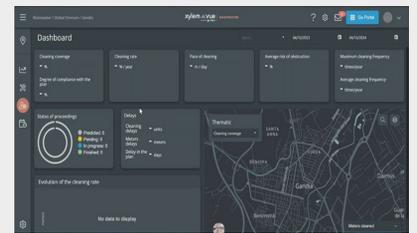
## Sewer Tracker

Monitor wastewater quality and detect illegal industrial discharges. An early warning system to safeguard sewer network, WWTPs and the environment.



## Sewer Protect

Monitors of inflow and infiltration in wastewater networks through sensorization, water metering, rain gauging and modelling.



## Clog Monitoring

Real time sewer monitoring and optimization of sewer network cleaning to avoid environmental overflows (SSO).



## CCTV

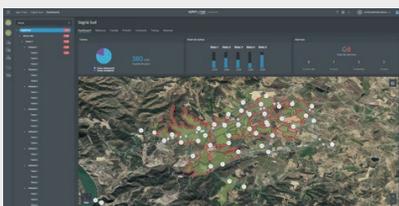
Sewer CCTV inspection planning and management of footage, includes asset condition assessment facilitated by AI video processing algorithms.



## Biological monitoring

Management and monitoring for the presence of pathogens in the wastewater network. Integration with laboratory LIMS.

# AGRICULTURE, IRRIGATION & WATER RESOURCES



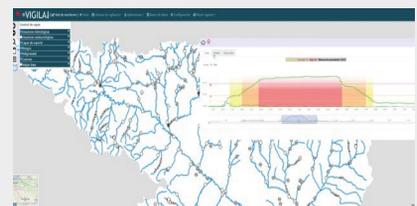
## AgroTwin

Monitoring and control of irrigation infrastructure for agriculture. Water losses control and optimization of irrigation schedules.



## Smart Green

Centralized monitoring and management of irrigation of parks and gardens in urban environments.



## EWS

Control and management of extreme events in watersheds, including real-time alarms. Near-term forecasting of flooding events.

## Platform characteristics



### Agnostic

Processes data from different sources regardless of the suppliers, manufacturers or technologies



### Modular

Only applications relevant to the project scope will be deployed.



### Adaptable

Can be customised to meet utility-specific processes and requirements



### Scalable

Simplified addition of applications and new use cases. Scaling up does not affect performance.



### Secure

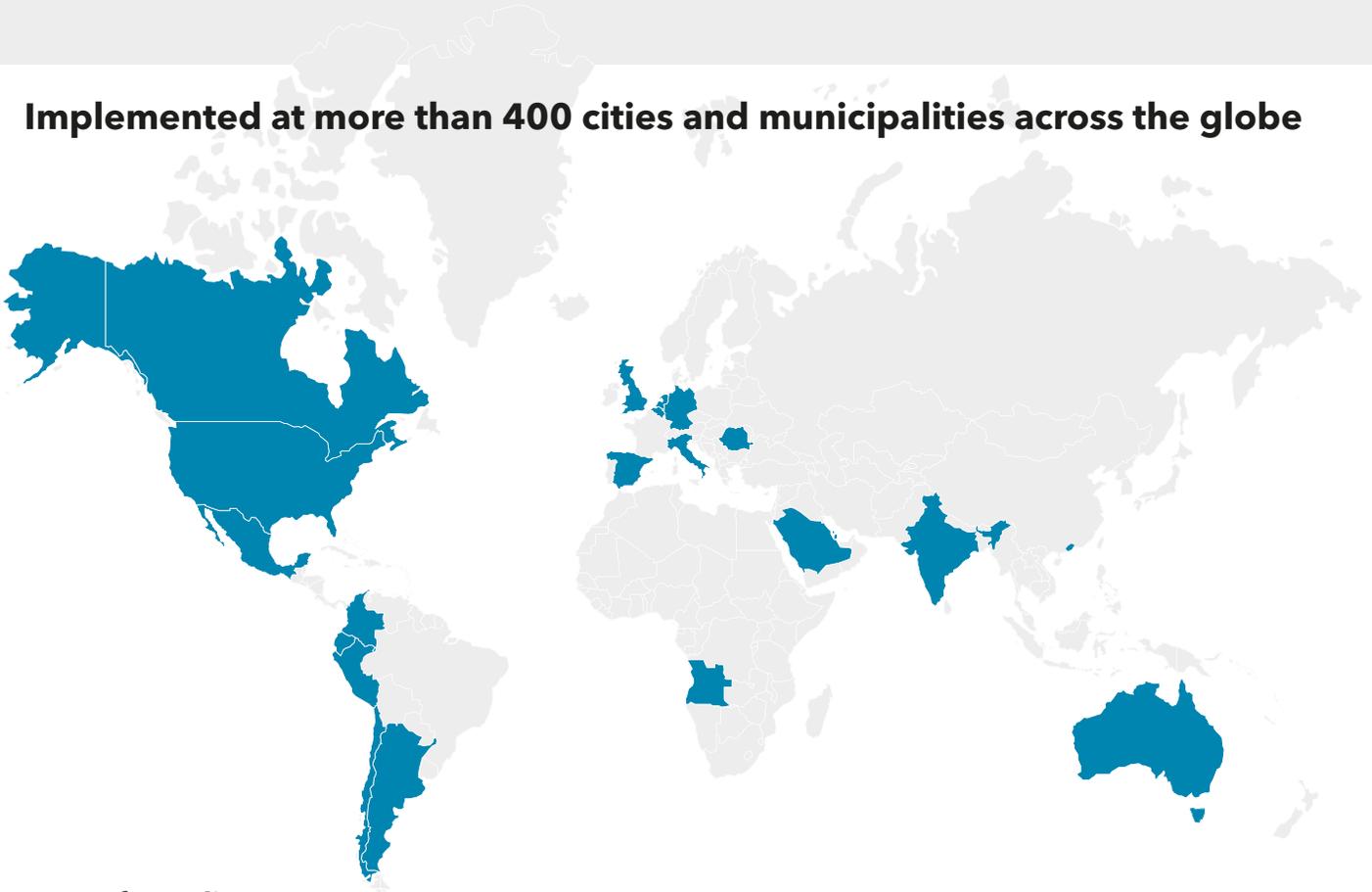
Meets the highest standards for product design and implementation. Flexible deployment options ensure data sovereignty. ISO 27001 certified.



### Interoperable

Flexibility to integrate both ways with legacy and third-party systems

## Implemented at more than 400 cities and municipalities across the globe



### Some of our clients



## More Than Software - A True Partnership

The journey to unlocking your system's full capabilities and achieving extraordinary outcomes begins by forming a true partnership between your utility and our team of former utility leaders, decision science professionals, engineers and hydroinformatics experts.



### Support Throughout

From problem assessment to implementation and training, technical and delivery experts are there every step of the way.



### Domain Knowledge & Partner Intimacy

Our water experts work hand-in-hand with your team to meet your specific system goals.



### "High Touch" Delivery

Consistent communication and training so leadership and operators are engaged and maximizing operational efficiency.

## Unlock the future of Smart Water

- Simplify your IT architecture and break down data silos. Democratize access to data.
- Maximize the ROI of your digital investment.
- Ensure sustainable digital growth and scale up at your convenience.
- Our ambitious product roadmap empowers users to benefit from emerging research and technological developments.
- Access to a wide variety of operational solutions from a single platform.



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Xylem Vue powered by GoAigua is an important part of our full suite of digital solutions, Xylem Vue, that combines smart and connected technologies, intelligent systems and services, and 150+ years of problem solving expertise. Xylem Vue helps solve your most pressing water challenges and deliver transformative outcomes for your communities – faster and more affordably.