

# Water Solutions

SOLVING WATER CHALLENGES FOR WATER UTILITIES



## As a leading global water technology company, Xylem is committed to creating innovative solutions to solve the world's water and wastewater challenges.

Water is fundamental. It sustains. Comprising 71% of the earth's surface and 60% of the human body, it's hardly surprising that so many operations require, utilise, and run on water. Yet nature is a fickle force, and water can be as challenging to a company as it is essential. Xylem's commitment to solving water challenges has made us leaders in the industry, with a breadth of knowledge and a portfolio of solutions addressing the most complex issues concerning H2O.

Modernisation while committed to net zero targets on operational emissions, and the need to improve on all levels are the driving forces behind water utilities. Success hinges on balancing time, resources, budgets, and training. Given the complexity of today's water systems and processes, you need to build and maintain a more intelligent, connected, safe operation for your customers and employees; choosing the right partner to help you implement your strategic objectives is critical.

# A new perspective on water

Our experienced team of hydroinformatics experts, monitoring and control engineers, and water/wastewater process professionals are waiting to partner with you. Together we will translate your objectives into immediate digital opportunities. Collectively we will deliver critical insights and extraordinary outcomes for your organisation and operation.

Unlock your system's full capabilities at an organisational level and deliver transformative results. Support decision-making on asset performance and process optimisation with the digital twins of data management and machine learning. Deliver real-time, reliable forecasts.

At the operational level, achieve immediate effectiveness in system management at the lowest operating cost. Secure networking solutions ensure an agnostic collection, organisation, and analysis of the data generated by your field assets. This supports your daily operation, providing relevant insights and mobility as you move forward.



### Data fusion and analysis

Get real-time decision support through analytics applications that transform data into reliable forecasts and insights.



### Data management

Receive and store data on site or cloud-based management systems. Benefit from agnostic data protocols, data cleansing and organisation by data analytics applications.



### Data collection and communication

Gain local data collection, storage and transmission to Xylem and industry standard systems, and bi-directional communication for instrument control.



### Sensing and control

Optimise the operation with network and process instrumentation, control and automation

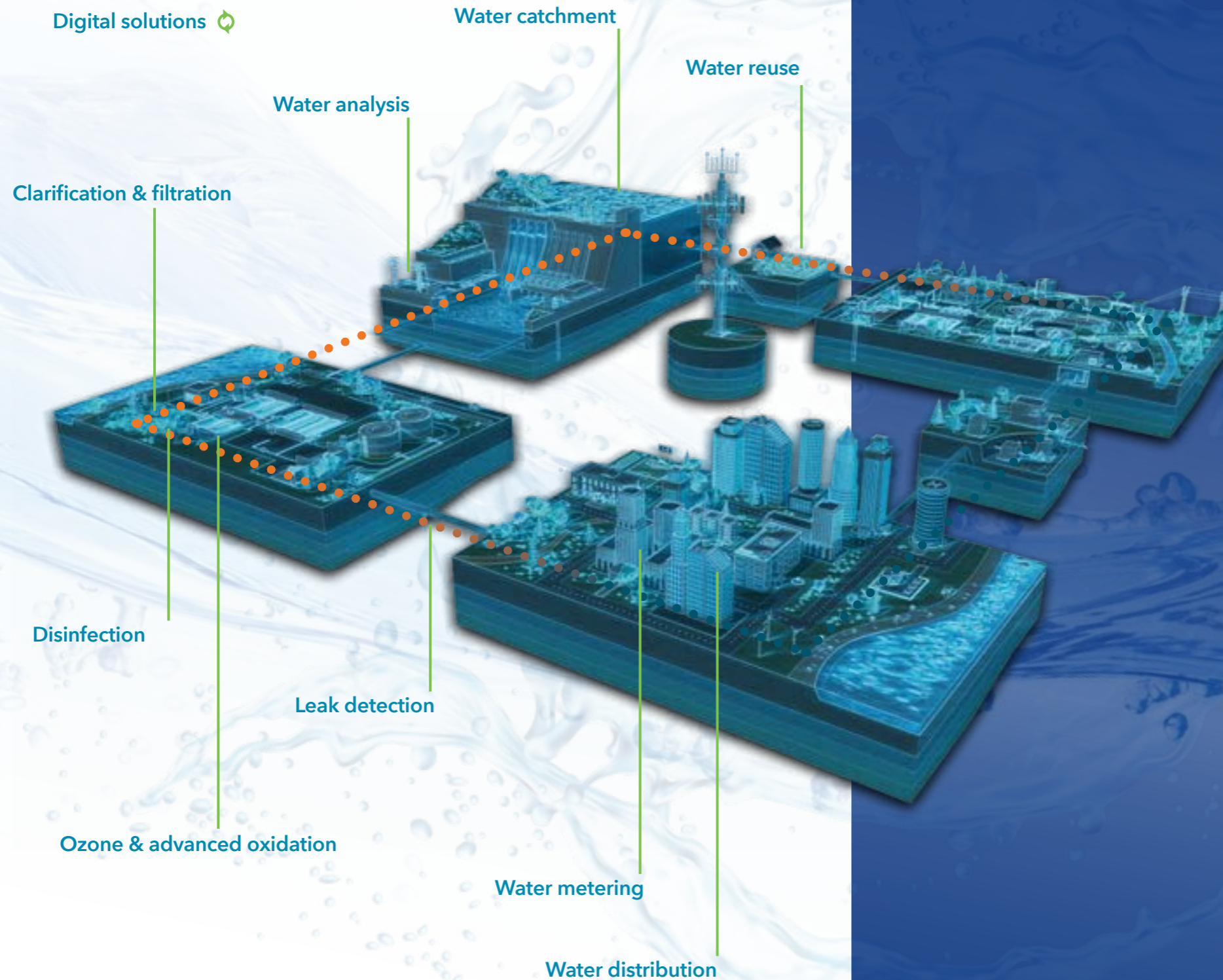


### Physical assets

Invest in network and treatment pump and process equipment

## Solutions across the water cycle

We partner with you to drive improvements across the water cycle. Our innovative solutions and smart technologies solve your toughest challenges while conserving resources, optimising asset reliability, and making your communities more resilient and sustainable.



### Water catchment

Full control over water catchment, drilling and bypass with ACS certified borehole pumps, single stage pumps, submersible high-capacity pumps and our rental pump fleets. Water quality monitoring and optimisation and plant source Identification through network decision support.



### Water analysis

Water quality instruments in the catchment and process analysers on the water treatment works to ensure safe and optimised treatment.



### Digital solutions

Asset management, optimised control, predictive maintenance, data analysis, and remote monitoring help you remain in full control around the clock.



### Clarification and filtration

Clarifiers and filters providing a complete set of solutions for drinking water purification.



### Disinfection

Efficient inactivation of harmful pathogens as part of a multi-barrier protection ensuring wholesome drinking water with UV, on-site Hypochlorite generation or gas chlorination.



### Ozone and advanced oxidation

Removal of micro-pollutants, taste, odour and colour to obtain high quality drinking water.



### Leakage and condition assessment

A range of intelligent technologies to detect and prevent leaks and potential system failures for elimination of water losses and increase of assets life.



### Water metering and meter data analytics

High-performance water flow metering ensures delivery of exact water quantities and reduces apparent water losses and agnostic advanced analytics of information from meters.



### Water distribution

An extensive range to secure reliable water supply, including variable and fixed-speed pumps, booster sets, constant pressure sets.



### Water reuse

A range of Advanced Oxidation Process (AOP) options combined with Biologically Active Filtration (BAF) as part of the typical recycling process stream.

# Solving customer challenges

## Water and wastewater experts

Xylem solves customer challenges by combining its world-class solutions with the power of an innovative data and analytics platform. We're creating bold new ways to help you strengthen, optimise, and drive major new efficiencies across your operations.



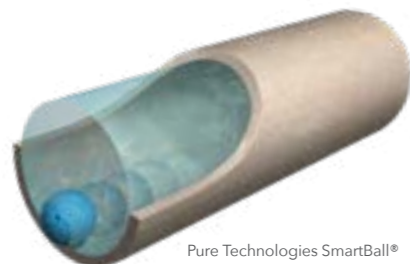
### AGEING INFRASTRUCTURE

#### Challenge

Many utilities have significant buried assets and need to effectively assess and identify high-risk areas for repair and replacement before problems occur.

#### Solutions

Xylem's condition assessment services monitor & identify pipe anomalies and at-risk segments to address problems and avoid disruptions. This builds up resilience, saving investment cost and lowering carbon footprint.



Pure Technologies SmartBall®



### WATER QUALITY

#### Challenge

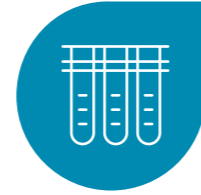
Increased temperatures due to climate change can lead to higher water temperatures in water sources. This warmer environment can promote the growth of harmful bacteria, pathogens, and algae blooms, affecting water quality and making it much harder to treat.

#### Solutions

Xylem's water quality monitoring of sources and profiling of reservoirs allowing optimisation of treatment, transport of water, treatment technologies, smart metering, rental and service to ensure the continued supply of wholesome drinking water.



YSI EXO2 Multiparameter Sonde



### REGULATORY COMPLIANCE

#### Challenge

Water should always be treated using the most appropriate and efficient process available to comply with the drinking water inspectorate for water quality.

#### Solutions

Xylem's range of technologies treat water to meet regulatory standards, while our analytics sensors and digital platforms monitor and optimise a range of water quality parameters to safeguard drinking water.



Wedeco SMOevo Plus



### OPERATING STRATEGY REDUCING ENERGY COSTS

#### Challenge

Utilities need to lower operating and energy costs, and leverage new revenue stream opportunities.

#### Solutions

Xylem offers industry-leading pumping and treatment solutions for energy efficiency, and software-enabled solutions to optimise operations and identify revenue savings.



Lowara e-SV Vertical Multistage Pumps with hydrovar® X



### SUSTAINABILITY & NET ZERO

#### Challenge

With larger focus on sustainable solutions, many Utilities have set ambitious net zero targets for 2030 that require innovative thinking.

#### Solutions

Xylem Vue is our full suite of digital solutions that combines smart and connected technologies, intelligent systems and services, empowering utilities to deliver transformative sustainable outcomes to their communities.

Xylem Vue powered by GoAigua software and analytics platform



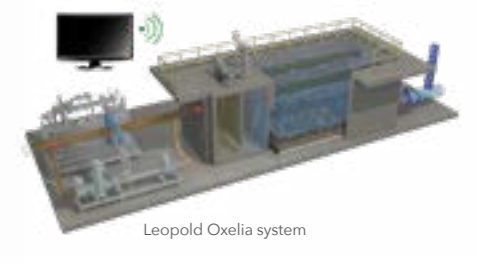
### FUTURE WATER SUPPLY

#### Challenge

Global warming, population growth and the current state of the infrastructure are contributing to the water supply shortfall forecast.

#### Solutions

A combination of policy changes and technological innovations, Xylem's source to tap solutions, including water reuse technologies, will help deliver a clean and sufficient water supply for present and future generations.



Leopold Oxelia system

# Xylem |'zīləm|

- 1) The tissue in plants that brings water upward from the roots;
- 2) a leading global water technology company.

We're a global team unified in a common purpose: creating advanced technology solutions to the world's water challenges. Developing new technologies that will improve the way water is used, conserved, and re-used in the future is central to our work. Our products and services move, treat, analyze, monitor and return water to the environment, in public utility, industrial, residential and commercial building services settings. Xylem also provides a leading portfolio of smart metering, network technologies and advanced analytics solutions for water, electric and gas utilities. In more than 150 countries, we have strong, long-standing relationships with customers who know us for our powerful combination of leading product brands and applications expertise with a strong focus on developing comprehensive, sustainable solutions.

**For more information on how Xylem can help you, go to [www.xylem.com](http://www.xylem.com)**