

DIGITAL WATER. Safe and Clean Water for a Sustainable Future

WORLD WATER SUMMIT 2019 – DELHI, INDIA

GLOBAL WATER CHALLENGES ARE ESCALATING



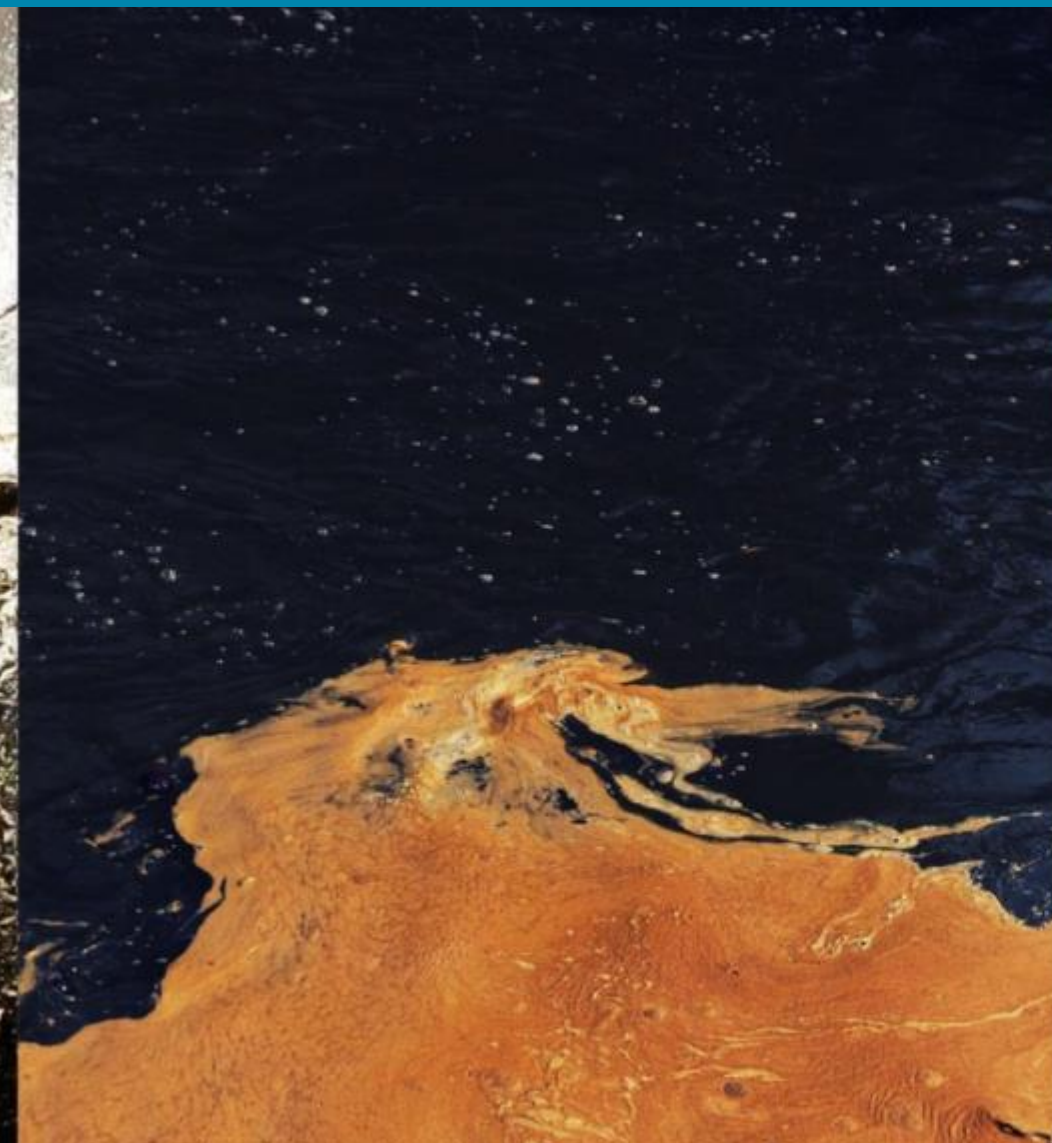
5
BILLION

NUMBER OF
PEOPLE
PREDICTED
TO FACE WATER
SHORTAGES
BY 2050



126
BILLION
LITERS

OF WATER IS
LOST BEFORE
IT REACHES
ITS INTENDED
DESTINATION



80%

OF THE WORLD'S
WASTEWATER
IS DUMPED –
LARGELY
UNTREATED –
BACK INTO THE
ENVIRONMENT



\$160
BILLION

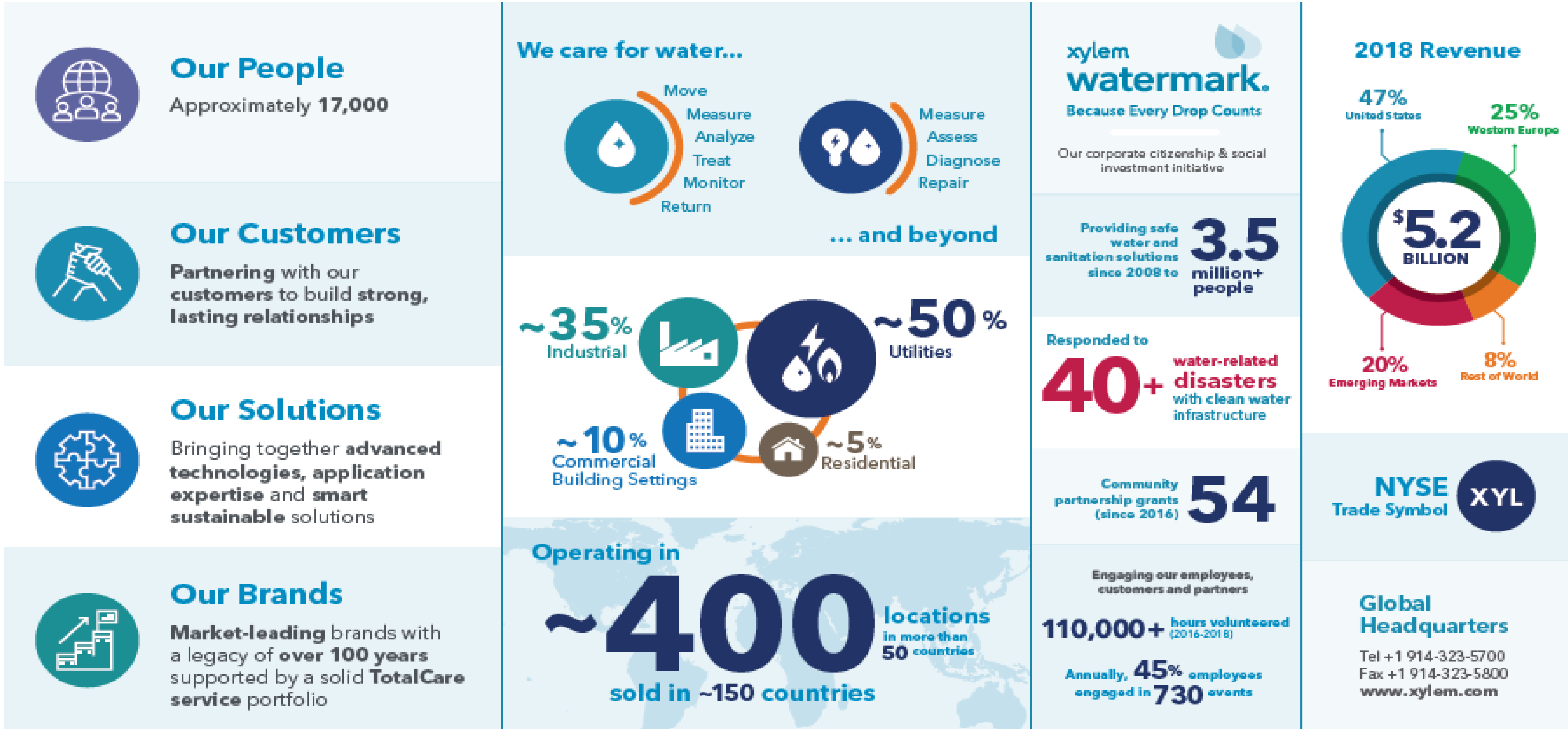
DAMAGE
CAUSED
GLOBALLY
BY NATURAL
DISASTERS
IN 2018



Xylem is a leading global water technology company committed to developing innovative technology solutions to the world's water and critical infrastructure challenges.

Xylem Snapshot

Unmatched Global Presence & Performance

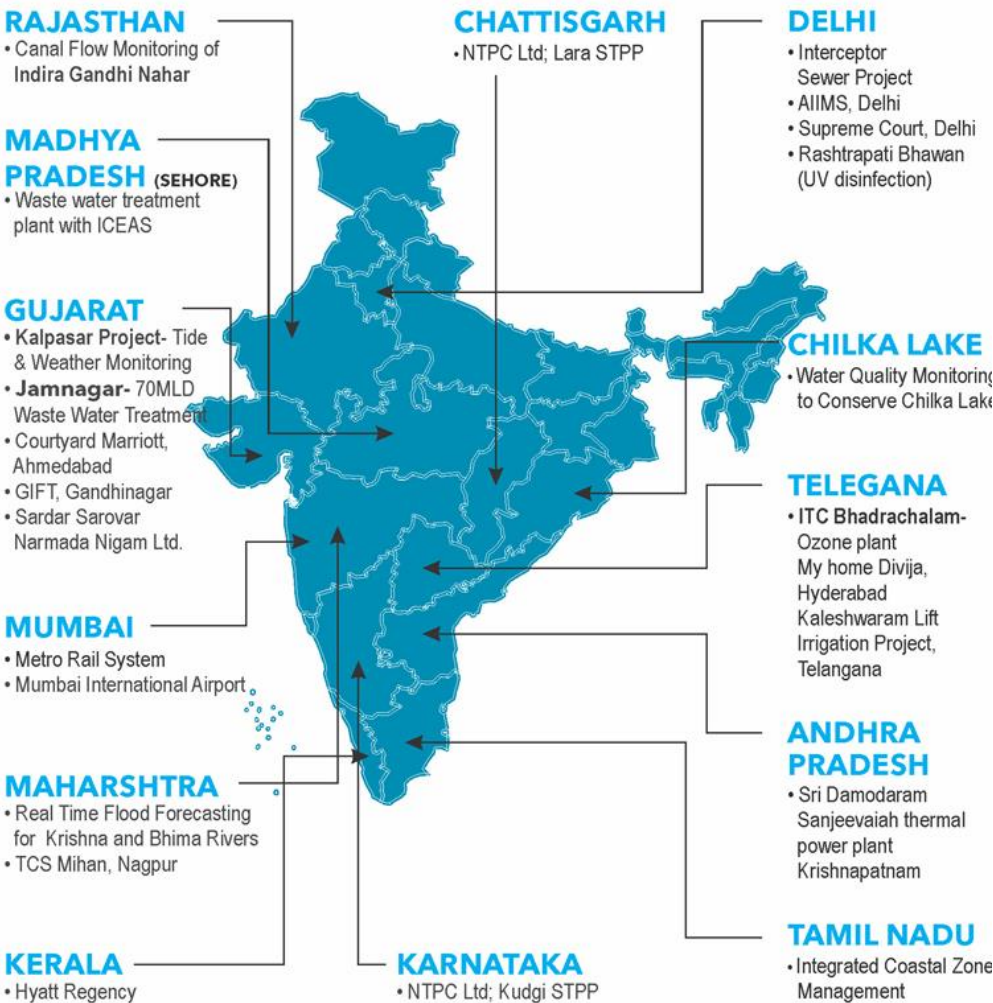


Residential / Industrial / Building Services / Irrigation

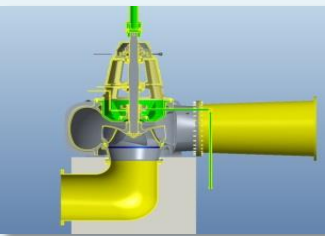


Xylem in India

2000+ installations



Custom Column Pumps
APPDCL Krishnapatnam TPS



Dry Pit & Wet Pit Installations for Sewage Pumping in MCGM & DJB



70 MLD STP based on ICEAS Technology for JMC at Jamnagar



Leaders in Energy Efficient Water Pumping for Building & Industrial Services



State of the Art Operations

- ✓ World's largest column pump test facility
- ✓ Vadodara Plant 2,30,000 sq ft
- ✓ 2nd Plant in Pipeline
- ✓ 10 offices across India
- ✓ Sourcing Hub for operations world over

Global Innovation Hub

- ✓ India Technology Centre Vadodara
- ✓ India Technology Centre Bengaluru

Experienced & Talented Team

- ✓ 600+ Employees Solving Water
- ✓ Water, Pumping, Treatment and Advanced Technology Experts
- ✓ Project Execution Excellence
- ✓ 50+ channel partners
- ✓ 40+ authorized service partners

Made in India 80% of India sales

Pumping Solutions



Treatment Solutions



Customised / Packaged Solutions



Markets Served



Irrigation

Custom Pumps, Column pumps, Metallic Volute pumps, Split case pumps, RTDAS for River Basin Management, Doppler Flow



Municipal

Submersibles, UV, Biological treatment systems, Water Quality, Filter underdrain system, Ozone Generators for drinking water treatment



Buildings & Industrial

Booster pumps, HVAC pumps & controllers, Fire pumps



Smart Cities & Smart Infrastructure

Lake Monitoring, Urban / Rural Water Supply, Smart Water Metering, Smart Irrigation, Smart Urban Flood Management, Water Command Centers, SCADA, Real Time NRW Management, etc.

National Priorities

Nal Se Jal

National Water Grid &
River Interlinking

Flood Forecasting &
Flood Management

River Rejuvenation &
Clean Ganga

Water Quality
Management

Urban Watershed
Management



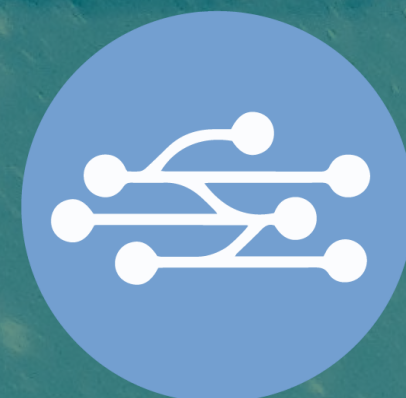
WATER TRANSFORMATION

TECHNOLOGY, DATA
AND INGENUITY
ARE RESHAPING
THE FUTURE OF WATER... AND
ADVANCING SUSTAINABILITY

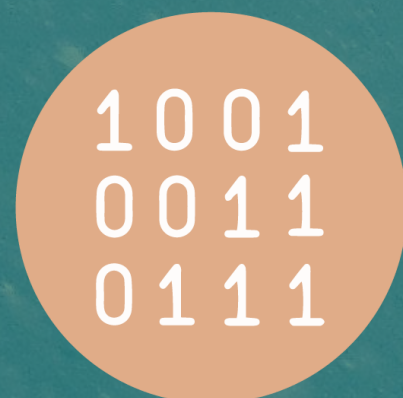
DIGITAL WATER



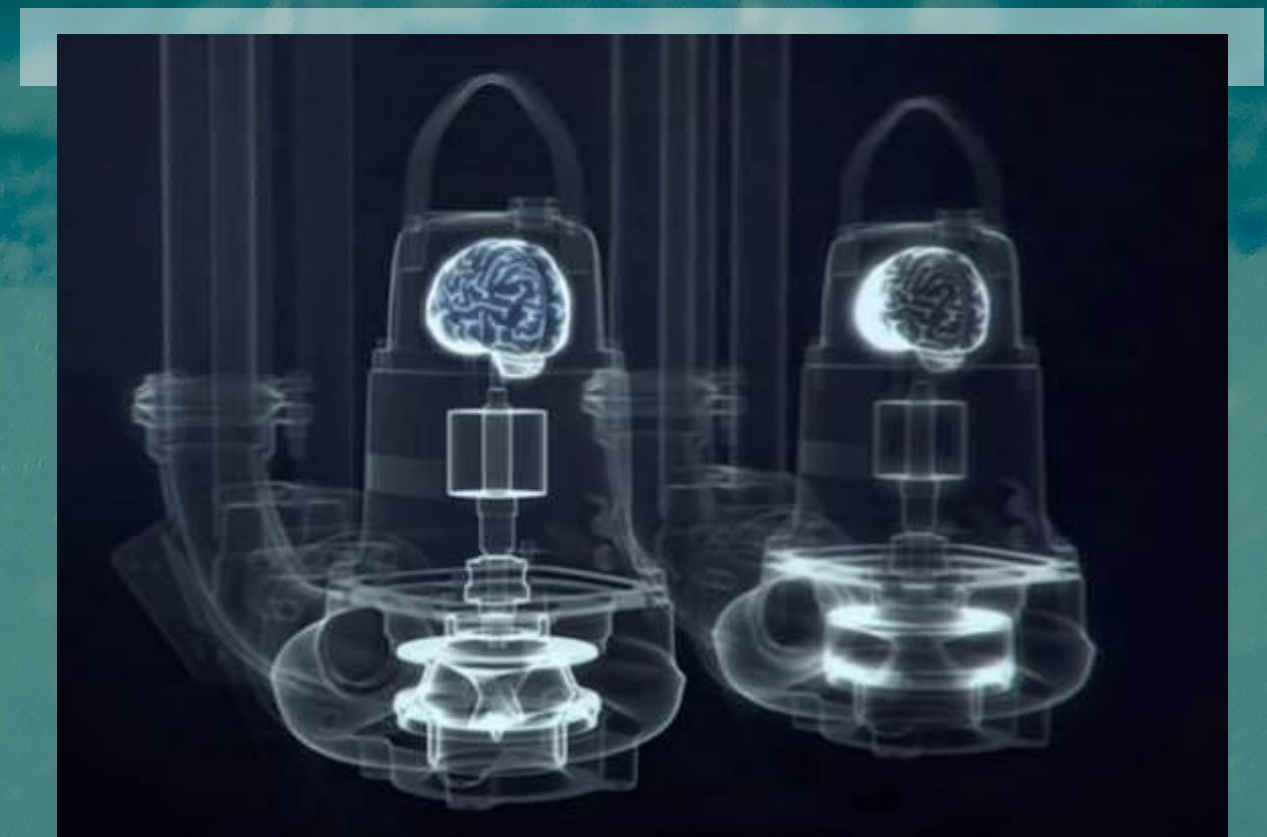
INTELLIGENT EQUIPMENT



SMART NETWORKS



DIGITAL SOLUTIONS



DIGITAL WATER VALUE DRIVERS

COMMUNITY BENEFITS



Increased affordability



Customer experience



Environmental protection

OPERATIONAL BENEFITS



Process excellence



Predictive management



Regulatory compliance

FINANCIAL BENEFITS



Reduced operational expenditure



Increased capital efficiency



Increased revenue

LONG-TERM RESILIENCY BENEFITS



Increased resilience



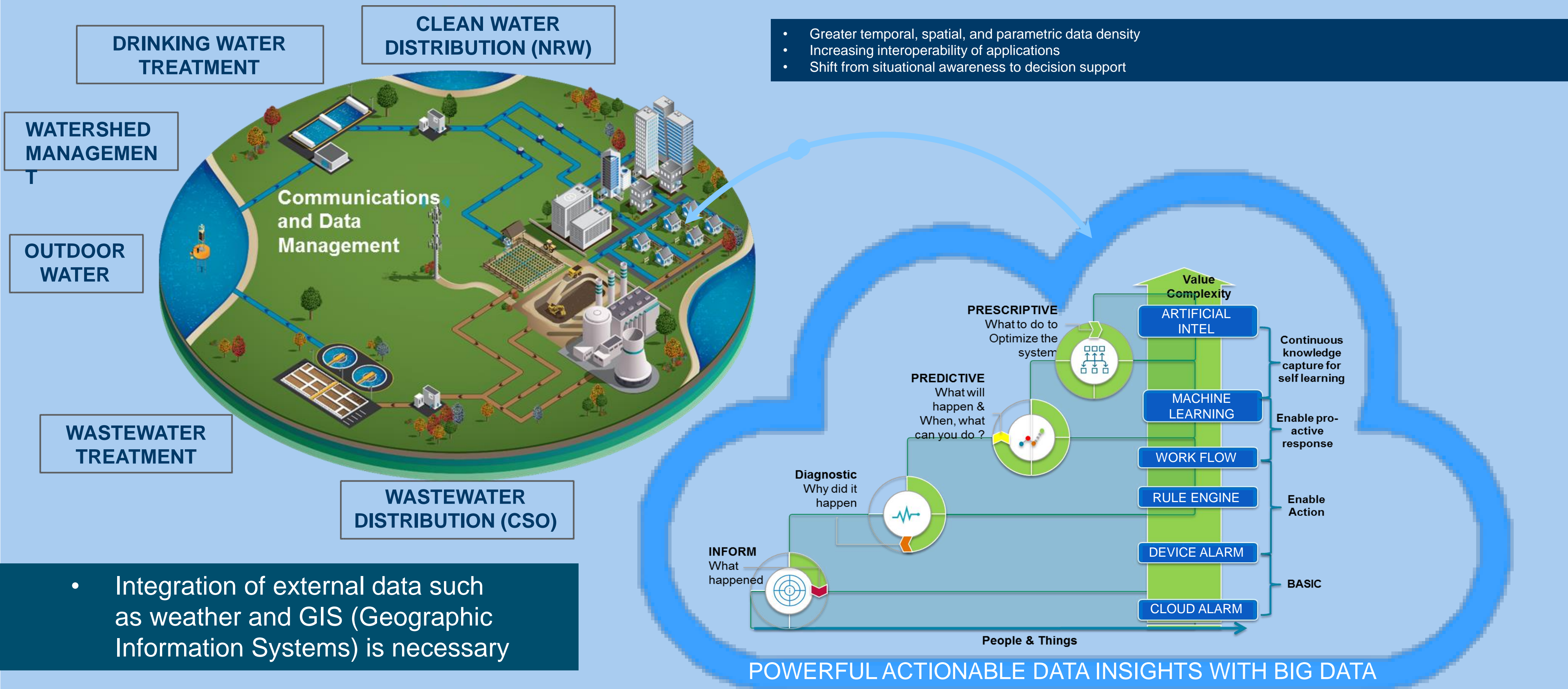
Workforce development



Brand and innovation

From “*Digital Water: Industry leaders chart the transformation journey*”
-- New report by International Water Association, Xylem and the Water Foundry

DIGITALIZATION IS A KEY ENABLER FOR ADDRESSING WATERSHED CHALLENGES HOLISTICALLY



EXAMPLE TRANSFORMATIVE DIGITAL SOLUTIONS

Remote watershed integrity

Proactive remote monitoring across multiple parameters (temperature, flow, pH, nitrates, etc.) at multiple depth levels.

Process optimisation

Quality sensors combined with algorithms to optimise the treatment processes, reducing capital & operational costs.

Digital customer engagement

Transform the customer interaction model across web, mobile, social, connected home, and in-person.

Predictive maintenance

Connected equipment & maintenance solutions to reduce downtime & failures of critical equipment & pipelines.

Digital water products & services

Expanding the utility value proposition to deliver new services around water management.

Digital workforce

Utility professionals trained in digital technologies and leveraging digital field work systems to improve planning and scheduling, logistics optimisation, and more effective management of work tickets.

Interactive demand management

Leverage customer analytics and smart meter technologies to align demand with supply, and identify anomalies such as customer-side leaks and potential non-paying customers.

Data integration layer

Flexible cross-enterprise integration layer, modular applications architecture and an integrated presentations layer.

Digital twin

Data integration, analytics, and visualisation capabilities to help utility managers gain control of the intelligent systems they've deployed.

Non-Revenue Water – Real Losses

PARK CITY, UTAH

CHALLENGE

Low rainfall and increased demand meant the city needed to maximize its water supply – and reduce lost water.

SOLUTION

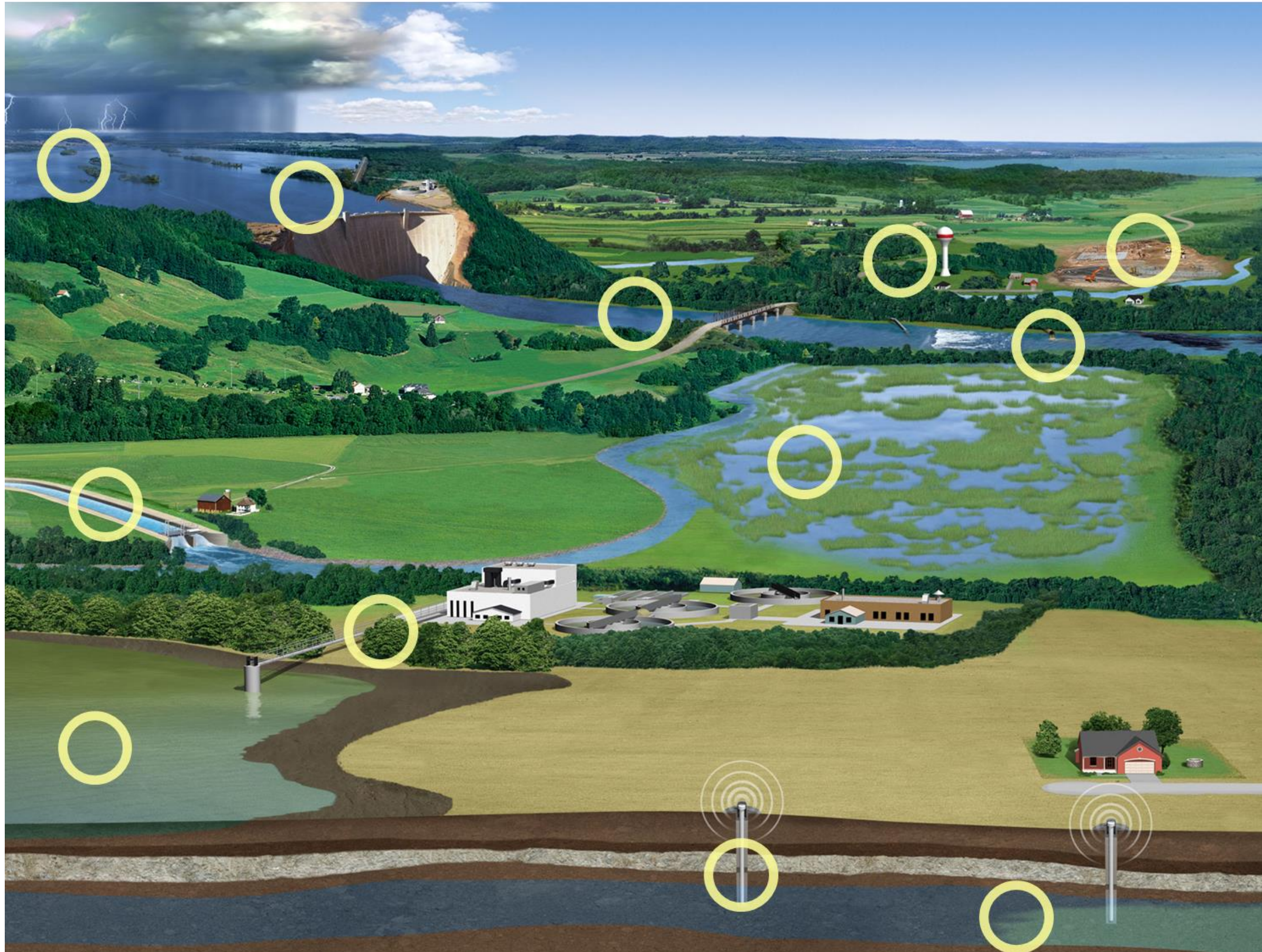
The city used leak detection, including digital technology, and pressure monitoring systems to identify leaks and help predict leaks and infrastructure flaws.

RESULTS

Water losses cut by 10%.
Savings expected to offset cost of solution in **under 3 years.**

India Example: Partner in Water Quality Monitoring

Providing digital tools to water authorities, to enforce effluent quality norms across India



Data Acquisition Portal for CPCB

Xylem's Scope:

- Supply of analytical equipment
- **Hydro-Met Monitoring equipment**
- Water bodies / catchment water quality monitoring

Value for Customer:

- **Extended life** ... through advanced technology, increased up-time and reliable **system design**
- **Sustainability** ... **ensuring accurate & reliable data for planning, accounting and regulatory application**

Few notable installations:

- Indira Gandhi Nahar Department - Canal Flow Monitoring based on Doppler technology
- Central Water Commission - Real time Flood Forecasting **Systems solution**
- National Initiative on Climate Resilient Agriculture – Weather Monitoring
- Delhi Jal Board – Real-time Waste Water Quality Monitoring **for STP**
- Chilka Lake - Water Quality Monitoring

A scenic view of a sunset over a body of water. The sun is low on the horizon, creating a bright glow and lens flare effects across the sky and water. The water is a deep teal color, and a white-capped wave is visible on the left side of the frame. The overall mood is serene and inspiring.

Opportunity of a Lifetime to Solve Water

xylem
Let's Solve Water