## OVERVIEW

Big data is changing the face of the water industry, and the management of data-driven monitoring and control systems will increasingly infiltrate every part of the water business. In the future, data-feeds and cognitive computing could govern water management and inform every decision in the municipal and industrial sectors. It is critical for every company working in the water space to understand how this reality will impact future operations and opportunities in the water industry.

This is the first report of its kind that aims to provide a comprehensive insight into the market for water monitoring and control systems and give a holistic perspective of the market's structure, the interaction of various players within the different layers of the market, and their offerings across the full breadth of the industry.

*Water's Digital Future* has a global approach but focuses in on the markets with the best prospects and the most activity. The potential of water monitoring and control systems and data analytics is multifaceted, and this report will therefore show who is active in the market and what they are doing, helping you to identify possible partners and capitalise on the emerging opportunities in this game-changing market.

## KEY FEATURES

- **Market dynamics:**
  The monitoring & control sector is incredibly fragmented; devise strategies to collaborate with key industry players in order for solutions to be developed most effectively.
- **Market players:**
  Identify the market players, so you can find your potential partners or competitors and plan your market entry with the right solution.
- **Market drivers and trends:**
  We highlight the key emerging developments and innovations, helping you to effectively pitch your solution and support it with a strong business case.
- **Industrial market and municipal market analysis:**
  Identify the existing prospects for your solution and pinpoint opportunities to develop your product and partner with other businesses.

## MARKET FORECAST CATEGORIES

Spending on monitoring & control systems is broken down:

### BY REGION

- North America
- Latin America / Caribbean
- Europe / Central Asia
- Asia Pacific
- Middle East / Africa

### BY SECTOR

- Utility networks
- Utility treatment plants
- Upstream oil & gas
- Refining & petrochemicals
- Mining
- Power
- Microelectronics
- Pharmaceuticals
- Food & beverage
- Pulp & paper
- Other

### BY APPLICATION

- Networks / Environment
- Water treatment
- Wastewater treatment
- Industrial processes

### BY CATEGORY

- Sensors / meters
- Laboratory / field testing equipment
- Data management / analysis
- Automation & control systems

### BY PARAMETER

- Flow / pressure
- Temperature
- Water quality
- Suspended solids
- Dissolved solids
- Oil & grease
- pH / oxidation reduction potential
- Total organic carbon
- Residual disinfectants
- Dissolved oxygen
- Microbiological
- Other

For more information, please visit:
**globalwaterintel.com/watersdigitalfuture**

# WATER'S DIGITAL FUTURE

The outlook for monitoring, control and data management systems

**Your comprehensive guide to the digital revolution across the water and wastewater industries.**

**Hard copy report and PDF**

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**Price: £2,575 / $4,000**

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## AN ESSENTIAL RESOURCE FOR...

- **Equipment suppliers in the physical layer (pumps, valves, pipes, etc):**
  Identify the regions that are either building or improving infrastructure and understand how the control and monitoring market is developing in order to ensure that the equipment meets those requirements.
- **Communication companies:**
  Understand and evaluate the communication challenges that utilities and industrial plant operators face to provide improved communication protocols and plan your partnerships with other businesses in the smart architecture to improve your offering.
- **Data analytics/management companies and software companies:**
  Data will increasingly need to be used not only for diagnostics but also for more complex predictive and prescriptive analytics, offering an opportunity for the most forward thinking companies in selling their solutions.
- **System integrators:**
  Obtain a complete view of the current and future market trends, to match your customer needs with technologies and bring together components to get the most efficient systems in place.
- **Investors and consultants:**
  Understand market drivers, technology trends and regional developments, so you can assess the technology companies that offer investment potential or advise your clients on how to expand their business.
- **Industrial and utility end-users:**
  Review which control and monitoring systems will be shaping asset management practices in the future. The report investigates technologies and systems that detect changes in real-time, enabling immediate and predictive responses in utility and industrial sectors.

## HIGHLIGHTING MAJOR OPPORTUNITIES FOR YOUR BUSINESS

There is an increasing demand for these systems to identify when an issue has occurred, determine where in a network or treatment system a problem is, and effectively predict when a problem is likely to occur in order for preventative measures to be taken. This report shows the gaps in the market, what is motivating the end-user to invest in a solution and how the solution provider can access the market.

### REDUCING POLLUTION EVENTS

During periods of high rainfall, cities with combined sewer systems are at risk of having serious water pollution issues caused by overflow events. Being able to rapidly react or prevent these CSO events forms another major opportunity for monitoring and control systems.

### PROCESS ECONOMISATION

Utilities and industrial end-users alike are constantly striving to make savings in processes – being able to run a system at its most optimal state provides **economic benefits** in terms of energy reduction and lower chemical usage.

### LEAKAGE MANAGEMENT

In line with ageing infrastructure, utilities in many parts of the world face the challenge of **reducing non-revenue water to minimise water and revenue losses** from their networks. The adoption of more intelligent monitoring and control solutions is a key way in which this can be achieved.

### INCREASED AUTOMATION

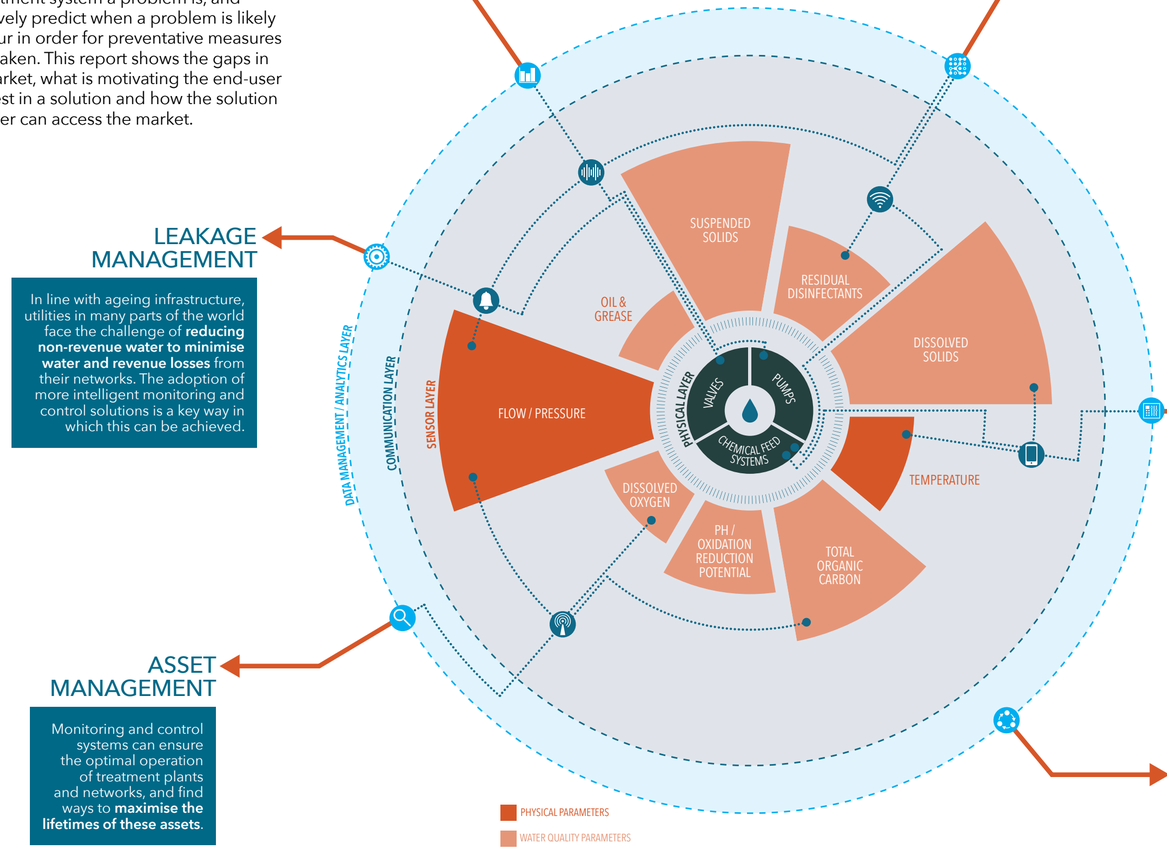
Being able to save the amount of time that it takes for a problem to be dealt with in a treatment plant or network is a huge opportunity that monitoring and control systems can fill. This, together with a reduction of in-house expertise surrounding water management and the fact that end-users want to be able to focus fully on their core processes, is driving the uptake of more automated solutions that reduce human involvement.

### ASSET MANAGEMENT

Monitoring and control systems can ensure the optimal operation of treatment plants and networks, and find ways to **maximise the lifetimes of these assets**.

### INTEGRATED SOLUTIONS AND PARTNERSHIPS

Understand how different elements of the market interlink, how it can work effectively with other companies' offerings and devise strategies to collaborate with key industry players in order for solutions to be developed most effectively.




## KEY SECTORS

### INDUSTRIAL

- Upstream oil & gas
- Refining & petrochemicals
- Mining
- Power
- Microelectronics
- Pharmaceuticals
- Food & beverage
- Pulp & paper

### UTILITY

- Drinking water treatment plants
- Water distribution networks
- Wastewater treatment plants
- Wastewater networks


Market diagram for illustrative purposes only.