



# DIGITAL WATER SOLUTIONS.



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## - The digital transformation in the water market.

The use of digital solutions and data-driven technologies has revolutionized business operations and processes. In the water market, three factors are relevant to the adoption of data-driven solutions:

**Improving efficiency, costs and regulations.**

Although we have highlighted numerous opportunities, our digital solutions focus on two main areas to create value for utilities:

- **Operational Efficiency**
- **Revenue Protection**





# SOLUTIONS.

**SYMBIOT**Water

## Use Cases



## Analytics

## Connectivity

- 5G, LORA, WMBUS, NBloT, Ecosystem partnership program



## Revenue Protection

- Meters
- Readouts
- Consumption
- Bills
- Leakage

## Operational Efficiency

- Flow
- Pressure
- Energy
- Assets
- Water quality



## OPERATIONAL EFFICIENCY.

Utilities are constantly seeking ways to optimize all aspects of their operations, ranging from the treatment process to network management to customer interaction. Our solutions in this area are:

- **Smart Pumping Optimization**
- **Operational Visibility**
- **Asset Management Solution (GIS solution)**
- **Digital Leak Management**



### **Smart Pumping Optimization.**

Unlike traditional pumping operations that are controlled by reservoir water level or network pressure, Smart Pumping Optimization interacts in real time with sensor data and software to manage the pumping operations.

#### **Benefits:**

- Operational efficiency: it reduces the amount of energy and electricity costs.
- Minimizing asset lifecycle costs: it reduces total cost of ownership by lowering operating and maintenance costs through condition monitoring.
- Environmental regulations: It aims to reduce greenhouse gasses and carbon emissions on a global scale.

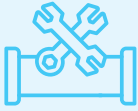


### **Operational Visibility.**

Integrated visualization of water operational data enables better control of water network management. Depending on sensor coverage and sampling, the solution computes automatically IWA Water Balance allowing monitor nonrevenue water.

#### **Benefits:**

- Operational efficiency: monitoring water network operations; understanding the benefits of taking a holistic view of networks and the assets within them.
- Labor costs: reducing the amount of time staff spend manually performing these tasks.
- Asset management: monitoring assets and reducing the number of reactive repairs.
- Planning.



## Asset Management Solution (GIS solution).

The asset management solution is an operational tool that a utility can use to optimize the useful life, performance and cost of an asset.

### Benefits:

- Maximize uptime and ensure assets are operating optimally;
- Predictive analysis that not only identifies failures, but also predicts them before they occur.
- Organize asset inventory for regulatory requirements.



## Digital Leak Management.

Our solution ageing water infrastructure combined with increasingly extreme weather leads to failing pipes, extensive losses and increasing costs. Unlike a lot of sensors on field to detect potential leakages we have a unique solution to identify the potential leak areas is powered by Geospatial AI and enables you to remotely determine the most at-risk areas of your entire pipeline network before failure occurs.

### Benefits:

- Remotely gain new insights into the condition of your entire network.
- Reduce the cost and time of finding leaks.
- Reduce non-revenue water losses.
- Optimize maintenance and modernization work.

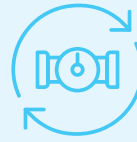




# REVENUE PROTECTION.

The meter reading and customer services market is moving toward a smart meter option. The ability to read meters remotely provides greater transparency to the customer and continuously monitors utility revenues.

- **Meter Data Asset Management**
- **Key Customer Monitoring**
- **Billing/Commercial System**
- **Meter Data Collection**
- **Customer Portal**



## **Meter Data Asset Management.**

Meter data asset management is a computational solution that uses data mining to identify meter efficiencies, customer consumption anomalies, declining consumption, blocked meters and more.

### **Benefits:**

- Accurate revenue collection.
- Lower labor costs.
- Planning for future demand.
- Targeted tariffs.
- Billing transparency (customer side).



## **Key Customer Monitoring.**

The digital solution is a telemetry system focused to C&I consumers. It includes hardware, software and data analytics for monitoring large consumers.

### **Benefits:**

- Improved customer experience and communication.
- Minimization of labor costs.
- Continuous monitoring of large consumers for billing purposes.



## **Billing/Commercial System.**

The solution is a digitized process to minimize billing issues, increase billing accuracy through better and smarter billing, reduce unbilled water, summarize unauthorized consumption, reduce meter reading errors, and reduce billing errors. A digitized, utility-wide meter-to-bill system could provide a solution to effectively address sources of nonrevenue water.



## Meter Data Collection.

The solution is software responsible for sensor data collection. It enables access and analyses of massive amounts of data, which offers insight, facilitates data driven decisions, and improves the satisfaction of utility operators and end users.

### Benefits:

- Consumption monitoring aiming billing.
- Consumption water profile.
- Leak and anomalies detection.



## Customer Portal.

The solution is a digital tool to measure customer experience and incentivize water companies to provide successful water service. Regulators require the implementation of KPIs focused on customer experience. It allows utility customers to access water usage, billing and payment information, receive notifications and messages from the utility through their preferred communication channel, perform self-service functions, manage their account profile and others.

### Symbiot's Energy 360 Mobile Application

It is not your ordinary app; it is the ultimate easy-to-use meter consumption management app!

Through a few clicks you will be able to:

- Easily navigate through your installed meters.
- Multi-tenant app, viewing different meters from various destinations.
- Recharge and monitor the balance.
- View your electricity and water consumption history.
- Pay your bills quickly and efficiently.
- Select and pay for more than one meter at a time.



## SMART WATER.

Every drop of water is precious for the planet and for the future life as we know it.



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