



# Samsara for Water & Wastewater

SOLUTION OVERVIEW

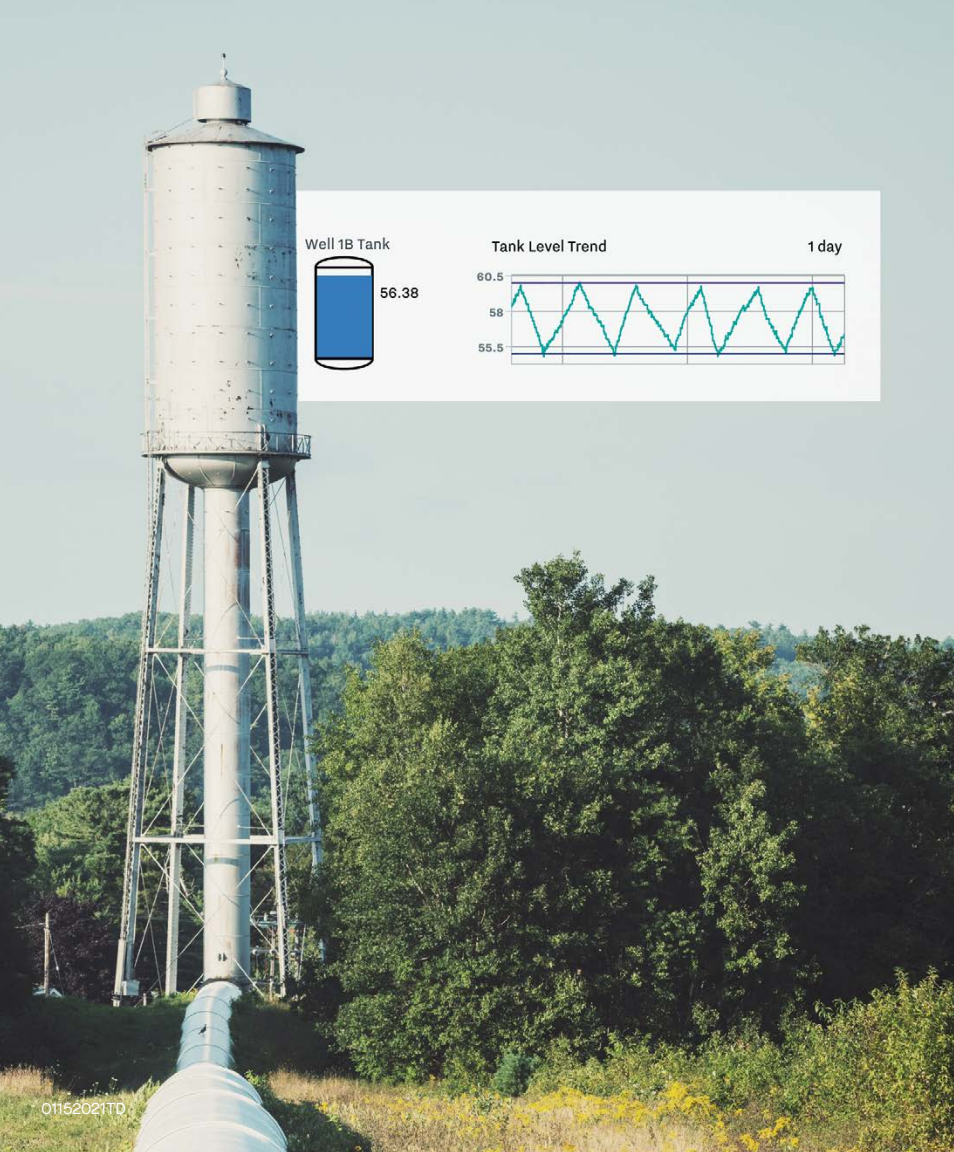


## SAMSARA FACTS

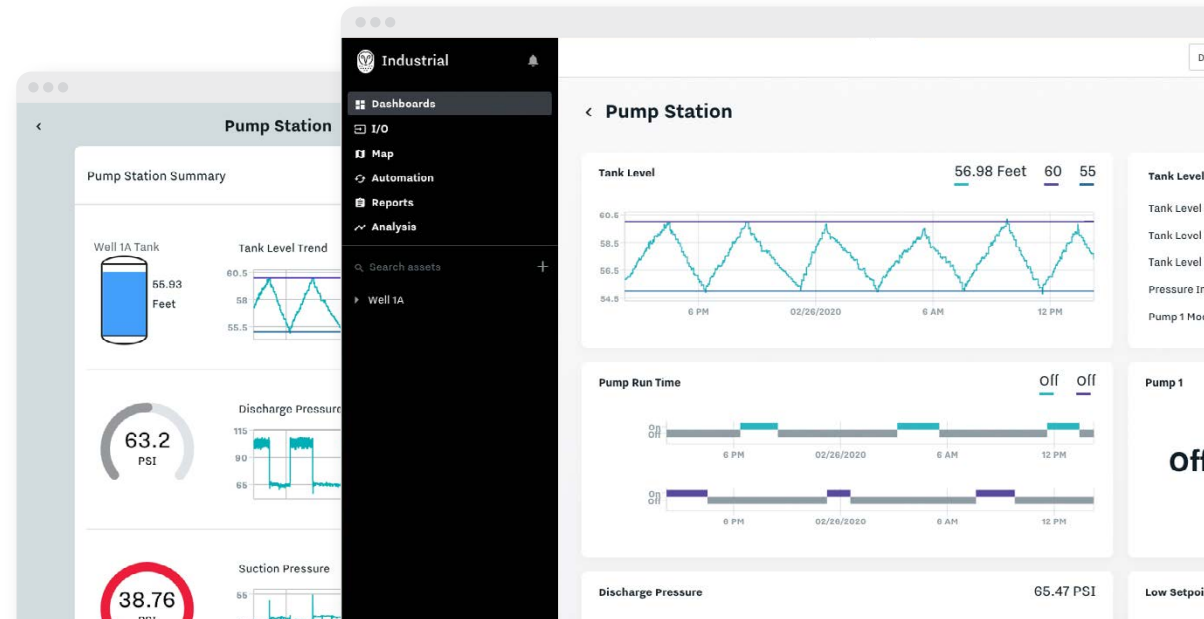
10,000+ customers  
worldwide

200,000 new devices  
added annually

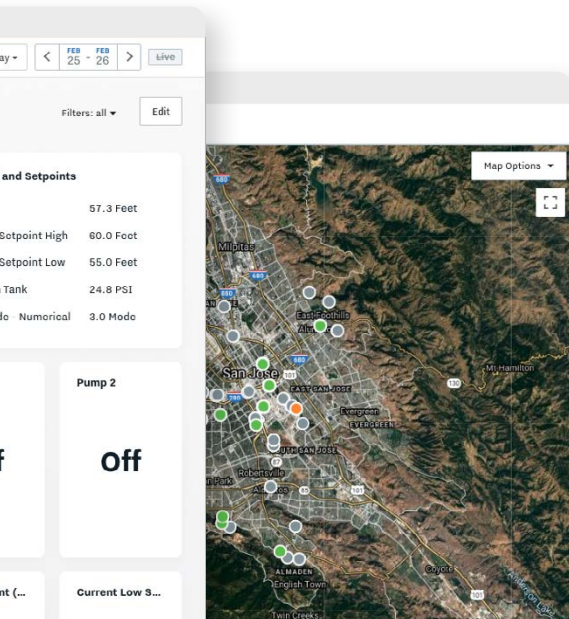
Offices in  
San Francisco,  
San Jose, Atlanta,  
and London



# A Complete Platform for Connected Water Operations



Samsara offers a complete, easy-to-use platform to improve efficiency, safety, and sustainability across operations.



## GAIN COMPLETE VISIBILITY

Easily connect tanks, pumps, wells, lift stations, or existing SCADA systems and start using real-time data across your organization

## DELIVER OUTSTANDING SERVICE

Monitor and alert on level, pressure, flow, vibration, and temperature to identify issues, prevent downtime, and more effectively schedule maintenance

## EMPOWER WATER OPERATORS

Support operators with mobile access to monitoring dashboards, alert notifications, and the ability to control and manage setpoints remotely









## SAMSARA FOR WATER & WASTEWATER

# Remote monitoring and control for water distribution and treatment.

Samsara is an Industrial IoT company that provides water companies with end-to-end data visibility, analytics, and control from an industrial gateway with built-in LTE connectivity, wireless vibration sensors, and the Samsara cloud dashboard— all in one integrated, easy-to-use, affordable platform.

Customers trust Samsara's technology to drive business outcomes across remote sites and in primary operating facilities: to optimize performance, drive efficiency, prevent downtime, save time and ensure safety for site workers, and to deliver superior service to their customers.



## CASE STUDY

# City of Chowchilla

The City of Chowchilla leverages Samsara to improve customer service, efficiency, and visibility across their municipal water operations.

- **Real-time visibility** into tank level, pump status, chlorine residual, treatment plant flow, well pressure and more allows Chowchilla to monitor operations for safety, reliability, and efficiency.
- **Operators are empowered** with mobile dashboards, alerts, and control so that pumps can be turned on or off remotely and residents consistently have access to safe water.
- **Ease of use and setup** made it possible for Chowchilla to be operational with a cost-effective SCADA system in a matter of days.



“

With Samsara, we're able to see real-time pressure in the system, whether the well is on or not, vibration issues, and we're able to react before we get hundreds of calls”

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**JASON ROGERS**

*Director of Public Works*

# Combining Hardware, Software, and Cloud in a Complete Platform



## Industrial Controller

Includes pre-provisioned LTE cellular service that brings your remote site data directly to the cloud, local data storage, local control program execution, and is fully interoperable

## Cloud Dashboards

Simple and intuitive dashboards to visualize operational data in real-time. Drag-and-drop tools make it easy for anyone to build graphical or metric dashboards





Industrial

**Dashboards**

- I/O
- Map
- Automation
- Reports
- Analysis

Search assets

Well 1A

Wellsite Water

### Pump Station Summary



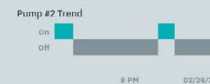
100% + - Day



Pump 1 Mode: AUTO Mode



Pump 2 Mode: AUTO Mode



Pump 1 Mode

AUTO

1 day

02/26/2020 02/26/2020 6 AM 9 PM

# Seamless Integration, Easy to Deploy



# Industrial Controller

Centralized data collection, built-in LTE cellular service, secure communication, onboard data processing, and local control

Connect via modular I/O or through existing PLCs and control systems (Modbus, Ethernet/IP, ROC, CAN)



WM11

## Wireless I/O Module

Long-range wireless data collection for hard to reach assets and sensors with analog and digital input/outputs



PM11

## Power Monitor

Wired power monitoring sensor to analyze consumption and efficiency for power-intensive equipment



HM11

## Machine Health Monitor

Wireless, real-time vibration and surface temperature sensors for critical industrial equipment

## SOFTWARE

# Feature Highlights

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### MONITORING

Gain remote, real-time visibility into operational data like pressures, flows, and levels to reduce on-site visits

### MAPS & METADATA

View assets in interactive maps and add customizable asset data like model number, installation date, and more

### OPEN API

Collect data directly via API in real-time or automatically send operational data to enterprise apps to improve back-office efficiency

### ANALYSIS

Identify the root cause and quickly resolve issues by comparing data across assets and sites over time

### REPORTS

Simplify compliance reporting with instant access to downloadable reports on historical data

### MOBILE FORMS

Replace paper-based logs and data collection by providing operators with mobile forms that automatically sync with the dashboard

### FORMULAS

Drive continuous improvement efforts by calculating and visualizing key performance indicators (KPIs) in real-time

### ALERTS

Minimize downtime with easy to configure alert notifications for emails, texts, or phone calls

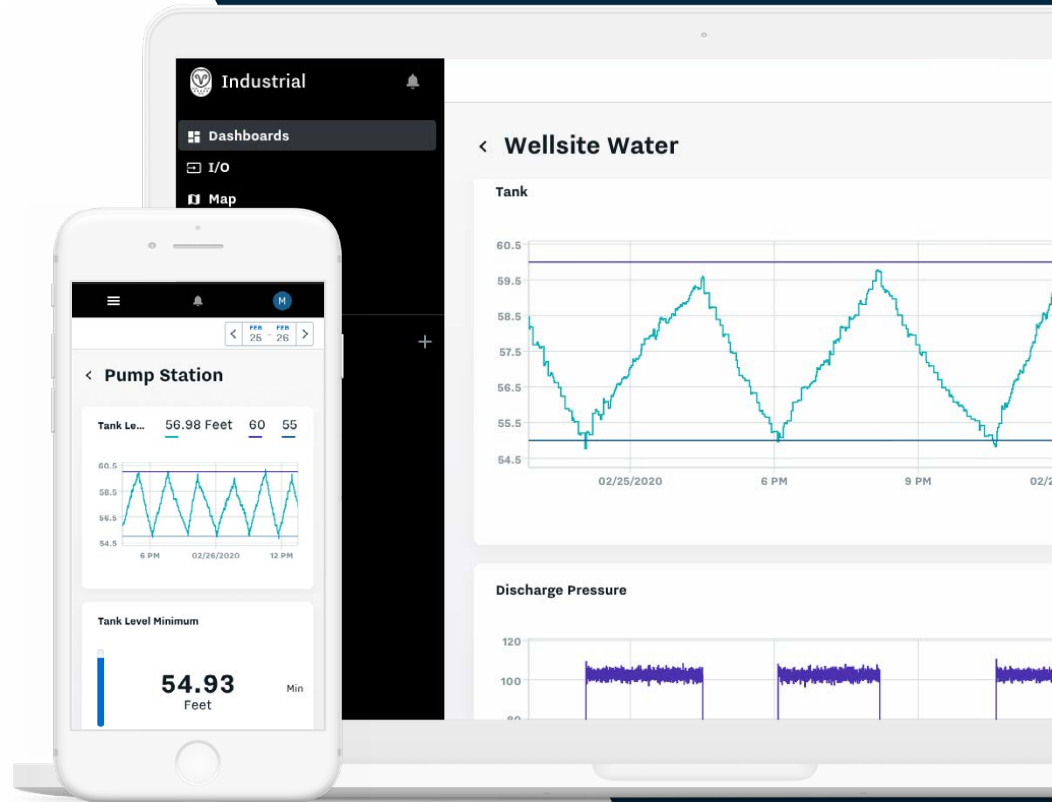
### CONTROL

Enable operators to respond to leaks, drops in pressure, and other issues instantly with remote control of setpoints and on/off switches



Improve efficiency and customer service with a constant, real-time view on the status of equipment spread across remote water sites.

- Real-time view of tank levels at any site
- Easily create custom alerts to prevent pump outages
- Monitor and control pressure and flow across multiple pumps





“Working with Samsara has been a pleasure. Our ability to pull data from hundreds of locations in real-time has given us the opportunity to see overall plant efficiencies in ways we could have only dreamed about in the past.”



**COLBY SNEED**

*Director of Operations*



samsara

[samsara.com/industrial/water](https://samsara.com/industrial/water)