

KETOS Smart Water Management Platform for Agriculture



The KETOS Smart Water Management Platform enables water operators across a variety of Agricultural applications to remotely monitor dozens of parameters (including heavy metals) and proactively address potential water quality issues and ensure that water meets specific safety, compliance, and sustainability standards.

The KETOS platform is a fully integrated, autonomous solution that includes IoT sensor systems (WAVE and SHIELD), connectivity, data warehousing, and automated alerts, reporting, and analytics.



Predictive Analytics

KETOS Machine learning algorithms leverage data from multiple sources and enable operators to get ahead of issues before they become real issues. KETOS can provide predictive insight into things like possible compliance issues, maintenance requirements, water usage, and water quality anomalies.



IoT Sensor Systems & Connectivity

The KETOS solution can include two separate sensor systems - KETOS SHIELD and KETOS WAVE - to autonomously provide lab-accurate water quality and water efficiency parameters. The sensor systems include cloud integration through several connectivity options including LoRa, WiFi, cellular, and customer networks.



Reporting & Alerts

KETOS users have access to several automated, out-of-the-box analytics reports - eliminating the need for analytics or data science expertise. In addition, users can easily configure customized, real-time reports and alerts to support specific requirements and process controls.



Data Warehousing

KETOS predictive analytics, reporting, and alerts are made possible by a centralized KETOS data warehouse. Data can be aggregated from multiple sources, and data is automatically organized and structured to facilitate turn-key analytics.

KETOS BENEFITS

- ✓ Improve crop quality and consistency
- ✓ Improve crop yield per acre reduce rejected batches
- ✓ Improve operational efficiency with smart maintenance by mapping all monitoring nodes across multiple farms
- ✓ Remotely Monitor Dozens of Water Quality Parameters
- ✓ Lab-Accurate Water Quality Results in Real-Time
- ✓ No Manual Intervention Needed
- ✓ Self-Calibrating and Self-Cleaning Reduces Downtime

TRANSFORMATIVE BUSINESS MODEL A \$0 Capex Solution

The KETOS solution includes software, hardware, installation, warranty, maintenance, upgrades, and virtually unlimited testing for a single monthly fee. No CAPEX is required.



KETOS WAVE



KETOS SHIELD

Benefits

- ✓ Fully-integrated Water Quality Monitoring Solution
- ✓ Interoperable with Existing Systems
- ✓ Real-time, Automated Reporting
- ✓ Process Controls and Threshold-based Alerts
- ✓ Easy Installation, Operation, and Maintenance
- ✓ EPA-compliant techniques with patented and proprietary commercialization features
- ✓ Configurable Parameters and Testing Frequency

Sample Applications

- ✓ Measure and manage water quality (nutrients, temperature, pH, salinity, heavy metals, inorganics)
- ✓ Protect crops from excess fertilization
- ✓ Ensure proper nutrient management
- ✓ Conserve and manage water from multiple sources (surface and ground)
- ✓ Open field, greenhouse, and vertical farming applications



Installation



Since 2017, KETOS has been deployed in the US, Canada, India and Mexico. Sample installations include industrial applications for monitoring influent water, process water, and effluent water at power plants, oil & gas companies, and manufacturing facilities. In addition, KETOS is currently leveraged by city, regional, and private utilities for monitoring surface water, groundwater, recycled and treated water treatment plants – and a state park to monitor drinking water safety. KETOS is also a part of three prestigious research consortiums based in both private and public universities where KETOS technology is a part of several research applications including the National Center of Water Quality Research (NCWQR).

Patented and Award-Winning

Patents have been issued for the KETOS Solution in several countries and PCT coverage globally.



TRACXN Award-Winner:
2020, 2021, & 2023



1st Prize:
The Start-up
Disruption Award



PRESENTER: SDG
Goals UN Summit



NASDAQ: 2017
MILESTONE MAKER



Global Water
Awards 2020



First Place For
"Mapping" Water
Data Prize 2021



WINNER: WORLD
OPEN INNOVATION
CONFERENCE 1ST
PRIZE INDUSTRY
STARTUP DISRUPTOR



Innovation in
Clean-Tech
Award



TOP 50: GLOBAL
TECHNOLOGIES
FOR SMART
CITIES IN 2020



FINALIST: TOP
10 Agricultural
Technologies of
Food & Safety In
India - Smart Village
Initiative



GOLDMAN
SACHS: 100 MOST
INTRIGUING
ENTREPRENEURS



Unreasonable
Group Fellowship

Current Research Partners



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