This presentation premiered at WaterSmart Innovations

watersmartinnovations.com







Making Water Conservation A Way of Life

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AQUATRAX Background

- Based at Irvine, California
- Wealth of expertise working with hundreds of Utilities
- Both AMI meters and Non-AMI meters are supported
- Services
 - Annual AWWA Water Audit Validation as per SB555
- Products
 - Trackle Utility Portal, Customer portal/apps
 - WorkTrax Asset checklist tracking and budget planning
 - MeterTrax- Meter Reading App via Optical Char Recognition
 - AssetTrax Asset Management

https://www.youtube.com/watch?v=A-eoY3zP-BY

Private and Confidentia





Overview



Vision



Aquatrax's vision is to be planet's most water conservation-centric company; to build technologically innovative and inspiring products that transforms the Water Information Management



Mission

Next generation Cloud based Water Loss Tracking and Compliance Management Platform that will help water utilities to track water use effectively, reduce non-revenue water, and be compliant with state laws

Trackle utilizes Smart Water Networks to Manage Pressure and Flow for Reduction of Water Loss, Pipe Breaks, and electricity savings.

Q2' 20



Q3' 19

INCEPTION & TECHNOLOGY BUILDOUT

Q4' 19

Proof-of-Concept

- MVP ready
- Utility Analytics & Customer Portal
- IOS & Android App Launch
- Selected by Isle TAG

Q1' 20

Customer Launch

- Working with hundreds of utilites
- Selected for AWWA Conference on Water Loss Session

Product & Market Expansion

- Selected by Water Research Foundation
- Selected by Microsoft for Startups
- WorkTrax App
- MeterTrax App

Trackle





- Next generation Cloud based Water Loss Tracking and Compliance Management Platform that will help water utilities and its customers to track water use effectively, reduce non-revenue water, and be compliant with state laws
- Trackle utilizes Smart Water Networks to Manage Pressure and Flow for Reduction of Water Loss, Pipe Breaks, and electricity savings.

Utility Facing



Customer Facing







Utility Facing





Customer Facing

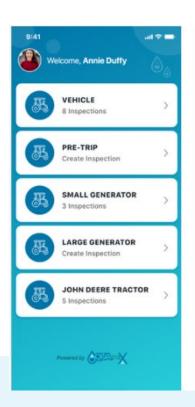


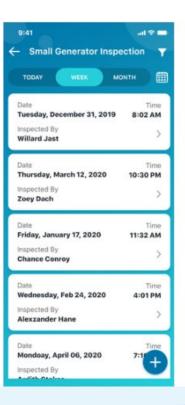


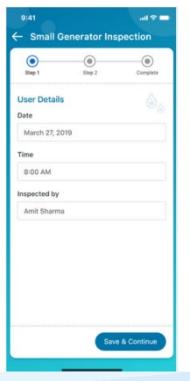
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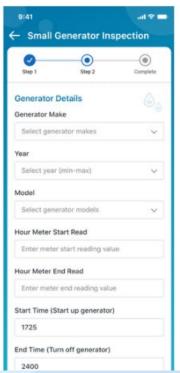
WorkTrax

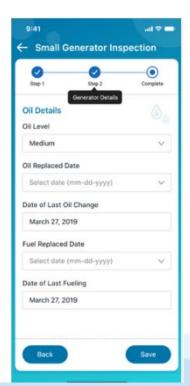
- WorkTrax simplifies utilities record keeping by enabling staff to use their electronic devices to perform vehicle inspections quickly and efficiently
- Managing the program has been made easy as staff is able to look at reports and see if certain vehicles are having more issues than others allowing them to track costs and anticipate vehicle replacement.















END-TO-END SOLUTION



Compatibility

Ability to Integrate with any utility systems



Artificial Intelligence

Utilizing Smart Water Networks to Manage Pressure and Flow for Reduction of Water Loss and Pipe Breaks



Multi Tenant SaaS Cloud Architecture

Easily scalable to thousands of Utilities using Microsoft Azure cloud



Quick Implementations

Pre-Integrated APIs and Highly Scalable Cloud platform helps in very short 6-8 weeks implementations



Compliance Management

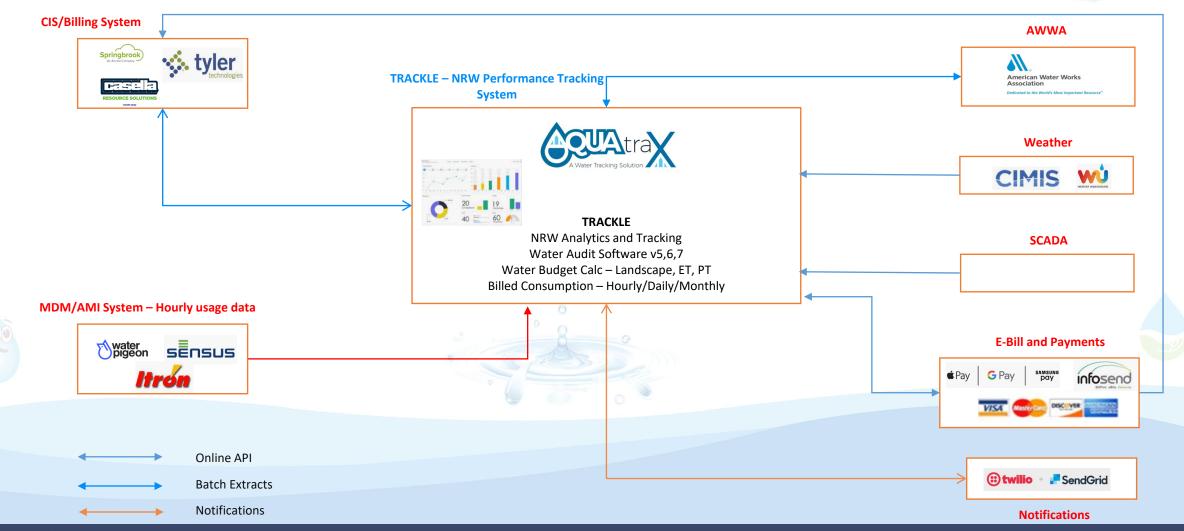
Online Integrated Water Audit



Systems Integration – Utility & Vendors



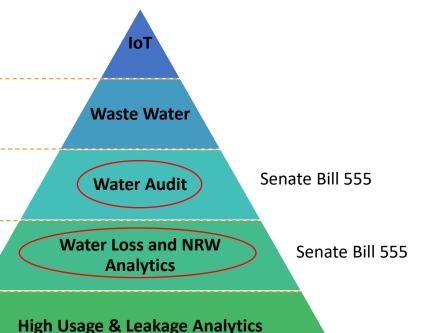
Data Extract, Transform and Load (ETL) across enterprise – pressure, leaks, meter calibrations



Next Gen - Water Info. Mgmt & Tracking Platform

IoT – Internet Of Things MGD – Million Gallons per day BOD5 - Biological Oxygen Demand pH - Potential of Hydrogen TSS – Total suspended solids NH3 – Ammonia ET – Evaporation Transpiration PT - Precipitation MDM – Meter Data Management AMI – Advanced Metering Infrastructure

- DMA, Alarms from AMI meters
- Internet of Things IoT Remote connect, disconnect shut off valve
- Reports to State-Year over Year, Month over Month segment consumption
- Waste Water Analytics and KPIs
- Influent/Effluent flow MGD, pH, BOD5, TSS, NH3, weather, kWh, statistics
- AWWA online software for Water Audit v7
- AMI and Billing data real time and more accurate data for audit
- Water Loss Reports
- Comparisons based on similar cohorts, climatic and geographic
- Performance Indicators Trends, Co-relations
- Volumetric, Costs, KPIs trends
- Display customers with High Usage (> allocation)
- Aggregate data at Utility level (Usage Vs Budget Indoor and Outdoor)
- Leakage Analytics based on AMI data Continuous Leak, Intermittent Leak
- Daily Budget calculation Indoor and Outdoor
- Landscape coefficient, aerial landscape data
- CIMIS ET, Weather underground PT data
- Summary, Top Customers, Segments, Dashboard
- Azure Virtual Machine, Data Architecture
- Data Adapters CIS, Billing, MDM, Weather
- Big Data, Artificial Intel, Machine Learning



Water Budget Allocation

Data Analytics Cloud Platform

Senate Bill 606 AB 1668





CIMIS - California Irrigation

Management Information System

Capabilities





BENEFITS













Conservation







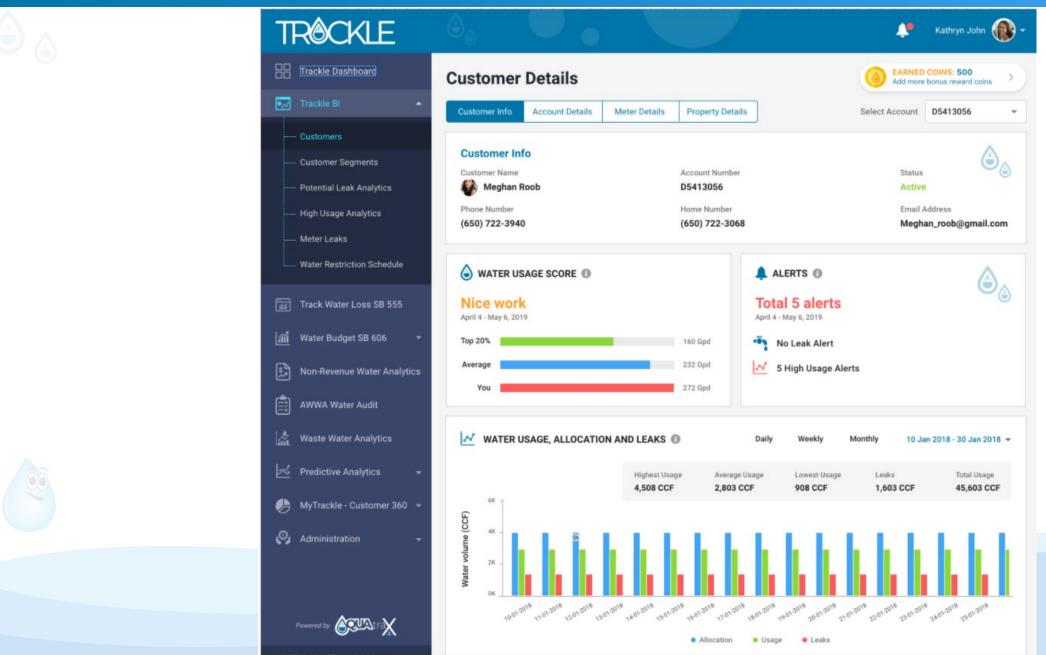








Utility Facing



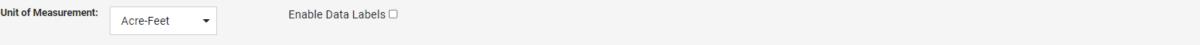


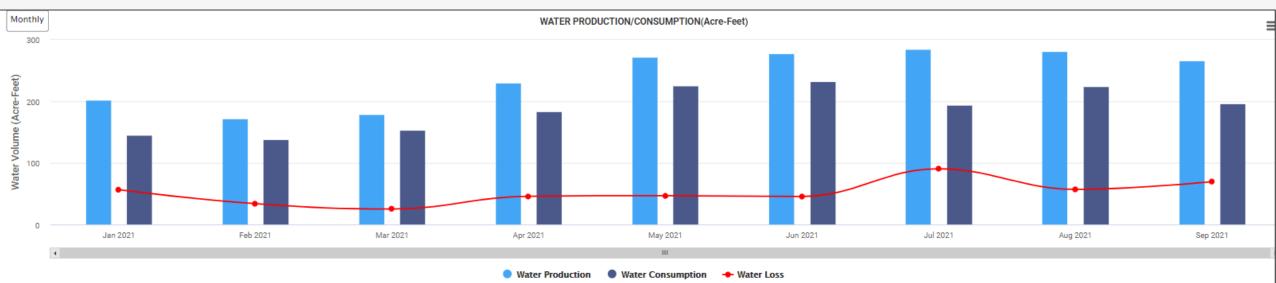






Management Dashboard





2021 -

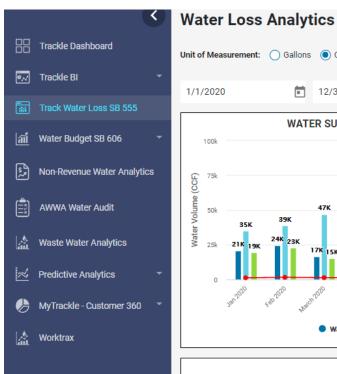


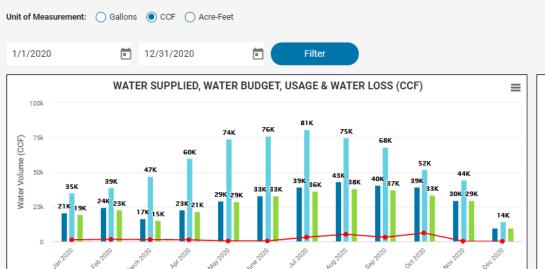
Water Loss Analytics



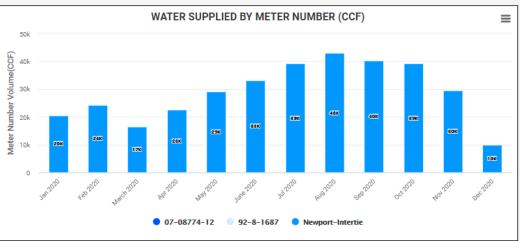


2020 -

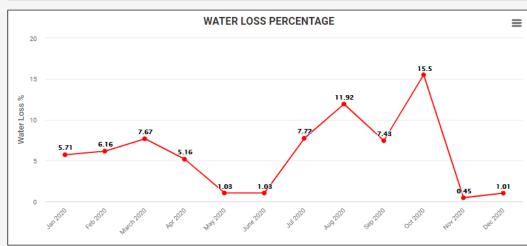




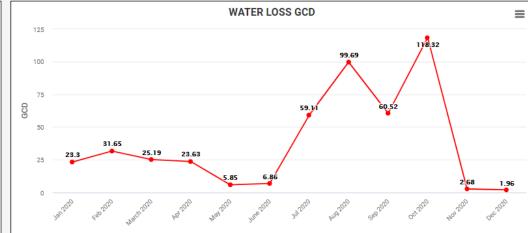
Usage



Daily



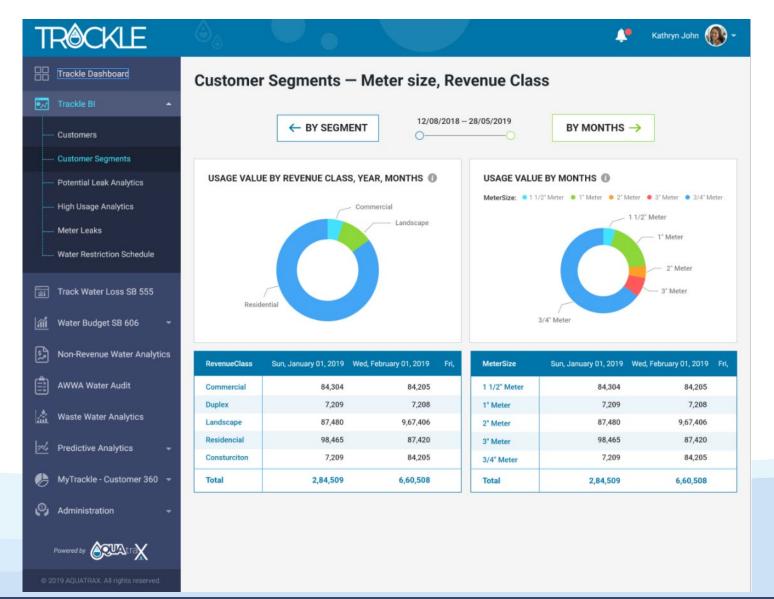
Water Budget







Conservation Analytics

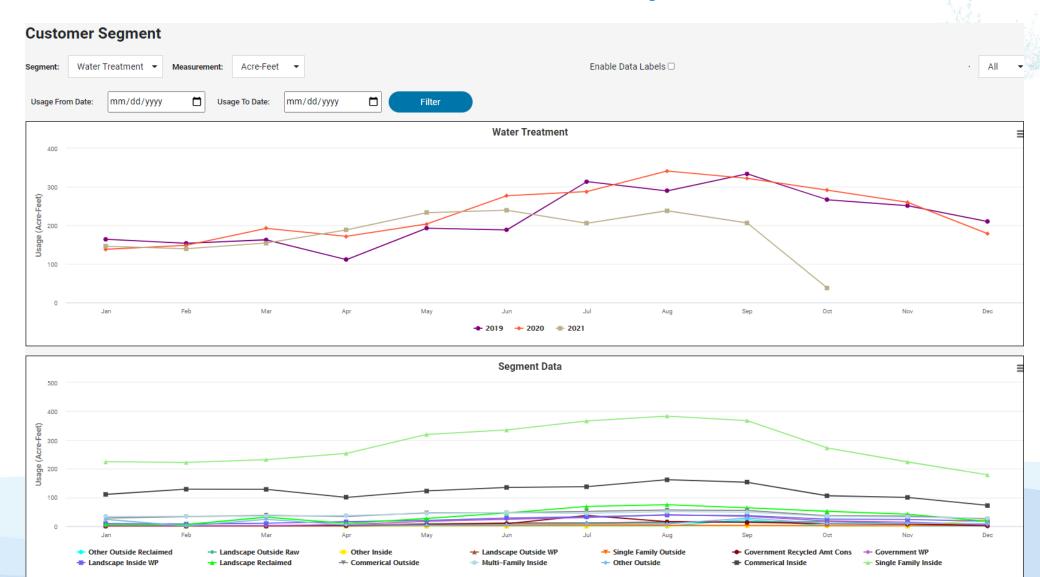








Conservation Analytics







Integrated Water Audit Data



To select the correct data grading for each input, determine the highest grade where the utility meets or exceeds all criteria for that grade and all grades below it.

WATER SUPPLIED

Volume from own sources:	+	?	0	•	217.55	acre-ft/yr
Water imported:	+	?	0	•	549	acre-ft/yr
Water exported:	+	?	0	•	0	acre-ft/yr

WATER SUPPLIED:	766.55	acre-ft/yr

pct:			Value:	
+	?	0 •	0 🔾	O 0
+	?	0 •	0 🔾	O 0
+	?	n/a ▼	0 🔾	O 0

Enter negative % or value for under-registration Enter positive % or value for over-registration

AUTHORIZED CONSUMPTION



Default option selected for Unbilled unmetered - a grading of 5 is applied but not displayed

AUTHORIZED CONSUMPTION:	?	766.
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Click here: for help using option buttons below

Value:



Use buttons to select percentage of water supplied

OR Value









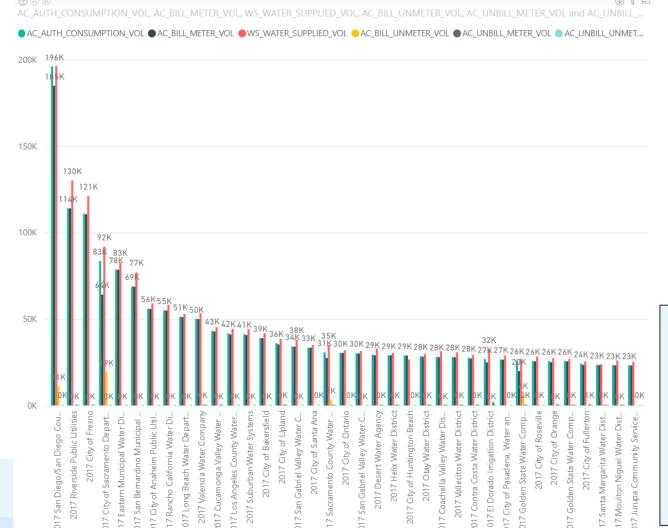
Non Revenue Water Analytics

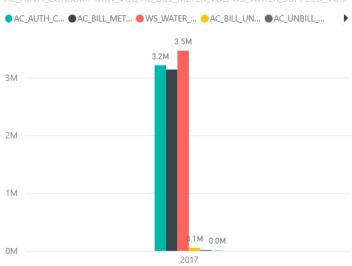












270.24K

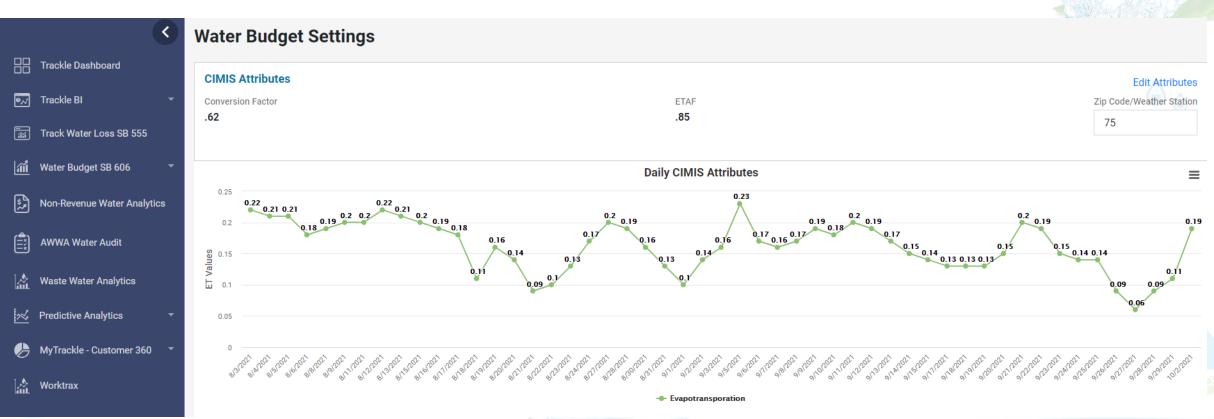
NRW_NON_REVENUE_WATER_VOL





Water Budget Setup



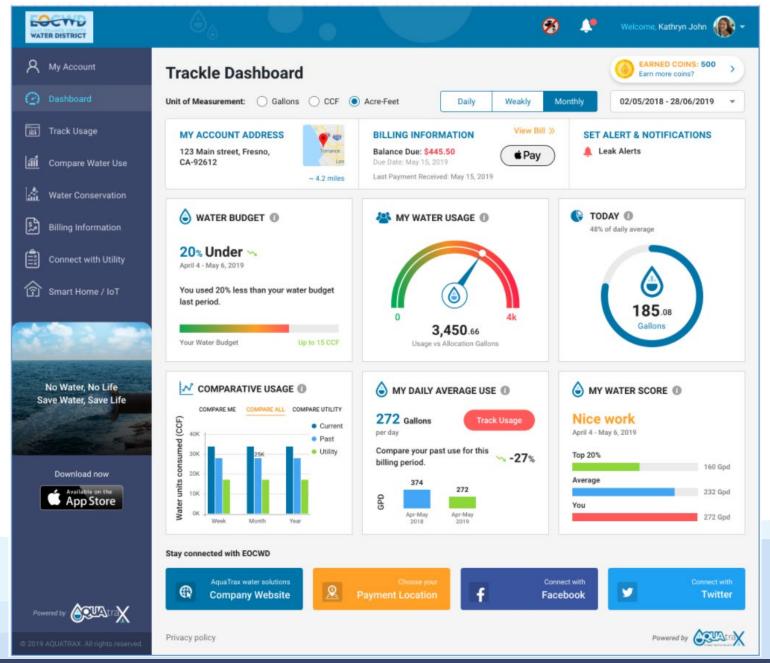






Customer Facing





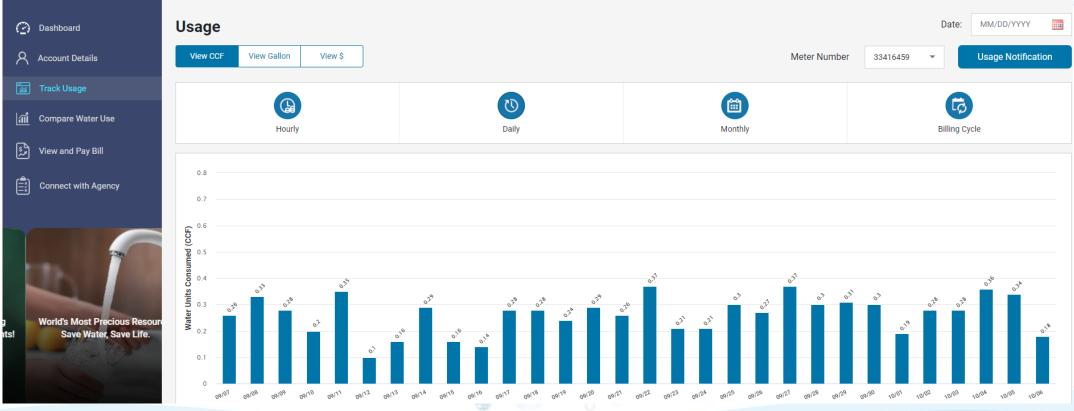












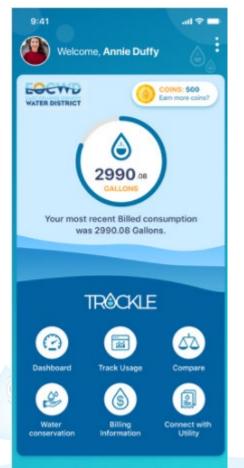


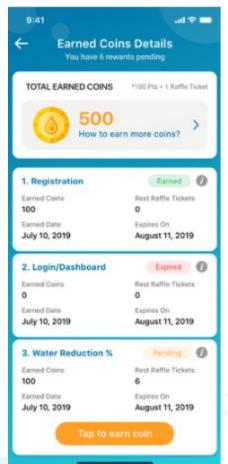






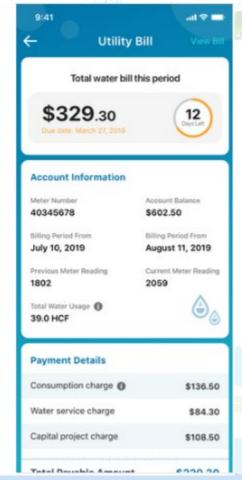






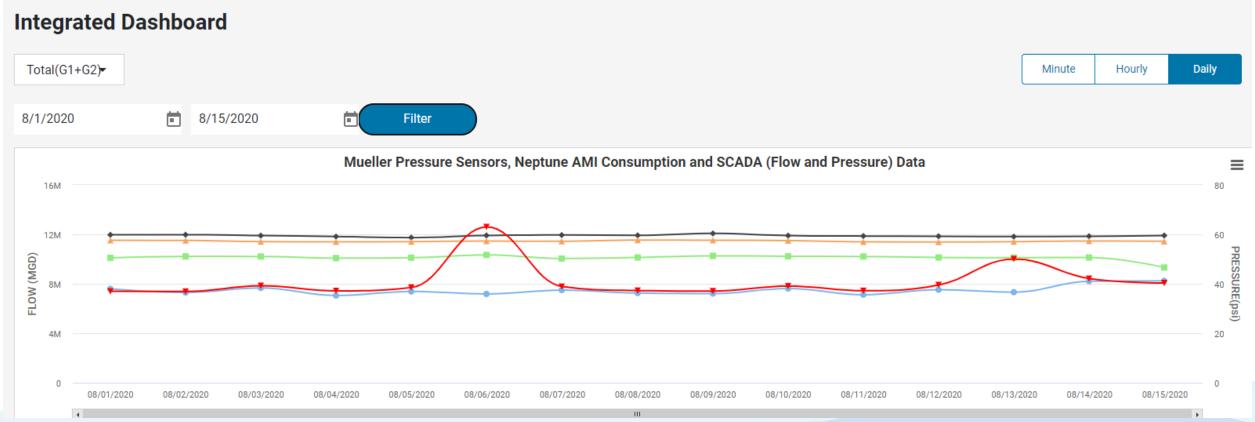




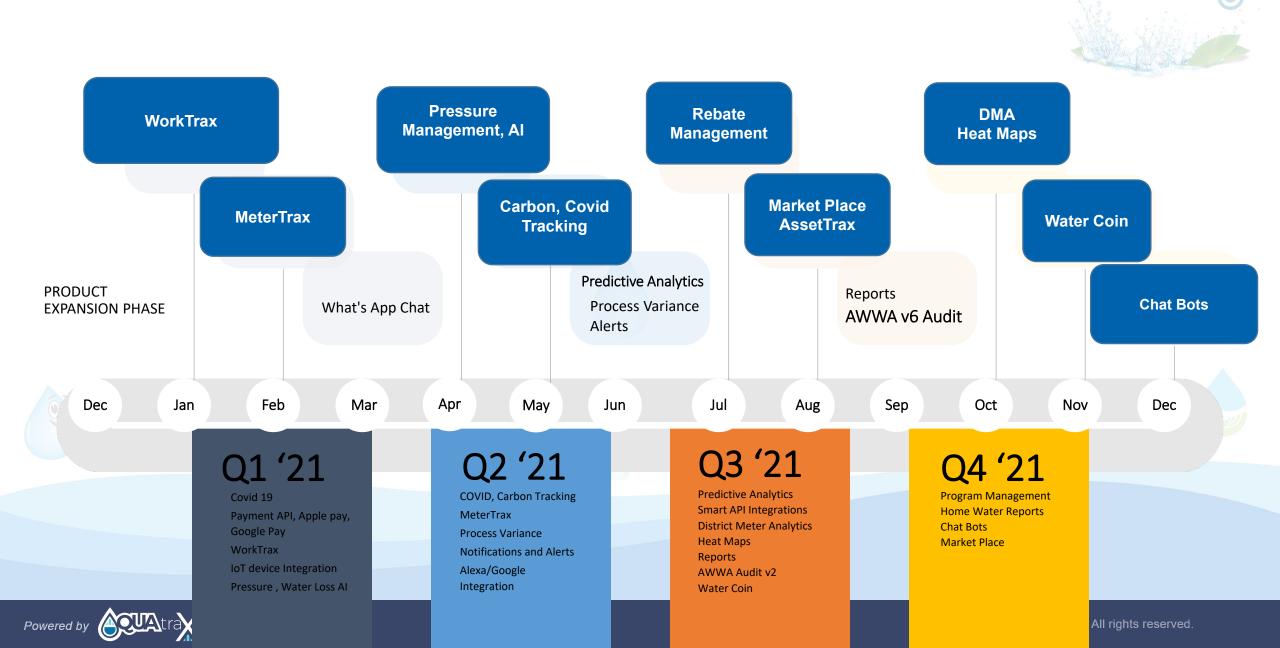


Case Study





Product Expansion Plan



Summary





Complete Water 360 Integrated Platform

We are the only solution in the market that can track water use at this depth and allows for built-in capability to monitor compliance with new conservation standards



Powerful and Flexible Technology

With the ability to integrate with any SCADA, AMI Meter, Billing, CIS, Outage, Work Order, GIS and Payment systems we can position ourselves into a wide variety of Utilities including Power, Solar, Gas. Highly Scalable and Multi Tenant Support











Thank You





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Problem

Continued aging water infrastructure and water losses, recurring droughts and urbanization drives technological solution to reduce water loss, increase revenue & operational efficiencies and decrease cost of operations.

51,688

Water agencies in USA with over 100 Million Connections

\$62 Billion

Total Water Utility Annual Revenue for 2018

\$2.8 Billion

Estimated \$2.8 Billion in lost utility revenue every year 14-18% Daily Water Loss

\$1 Trillion

Estimated \$1 trillion required in the next 25 years to address water infrastructure



The **global market** is witnessing a significant growth, which is driven by government policies, energy conservation, and utilities urge to enhance distribution efficiency.



Water Utilities Unmet Needs



Lack of Smart Water Network to control Water losses and pipe breaks

Lack of Accurate and Personalized Water Budget Allocation

Manual Water Audit

Lack of Proactive Water Loss, Water Use Analytics, Leak Alerts and Demand Forecast

No Powerful Data Visualizations and Actionable Intelligence

Currently there is no solution which provides water 360 integrated, connected and multi tenant cloud based mobile platform

Client Testimonials

"AQUATRAX work products are incredible – it's fun to think that I got to see the beginning of all of this!"

"AquaTrax has disrupted the way we currently do things, by taking us from a remote village to Manhattan!"

Lisa Ohlund

General Manager, EOCWD

"I am not aware of any other platform that has the built-in capability to monitor compliance with new conservation standards."

"If your agency is considering a new platform there is an opportunity for you to learn more about AquaTrax."

Joe Berg

Director of Water Use Efficiency at MWDOC





TRACKLE Product Implementation Approach



Plan Analyze/Integrate Configure/Test Deploy Stabilize
1 week 1 week 1 week 2 weeks

Project Kick-off

- Kick-off Meeting
- Identify Client Stakeholders

Integration Planning

- Discuss best approach to access data
- AQUATRAX to request all necessary data

Application Walk Through

- Configuration questionnaire to be completed prior to walk through
- Configuration checklist to be completed

Integration

- Access to Test Data
- Database/Table-Data Mapping
- Third Party APIs received
- All data complete and analyzed

Module Configuration

- Configure Test Data
- Utility Analytics Platform Configuration

Integration & Systems Testing

Internal Testing Completed

- Internal QA / UAT
- UI / UX Testing

Client Testing Completed

 Client portal and mobile verification

Deployment Preparation

- Complete production plan
- Complete training

Deploy to Production

- Cutover Activities
- Production Verification Test (PVT)
- Production Live

Post-Deployment Activities

- Transition to Client Success
 Team
- Monitor Adoption metrics



