aquaCITY - Powered by aquaWISE. Advancing Water Security for Cities



aquaMIND: GenAI Co-Pilot for Urban Water Insights

Intelligence - AI Assistant:

Autonomous agents drive workflow automation, predictive actions, and real-time optimization across city water operations.

Information - Knowledge Assistant:

Provides instant insights from city-wide historical data, network performance, service logs, and asset lifecycles for ready decisions.

Digital Transformation: PDFs & Skill enhancement:

Convert city water records, compliance documents, and operational manuals into structured, searchable digital format.

Vassar LABS CLIMATE



Digital Twin of Water Utility

It creates a digital twin of entire city water network for real-time monitoring of water supply, demand, and pump operations to optimize efficiency and reduce power consumption. Additionally, it offers scenario simulations to analyze operational effectiveness for guiding daily water operations.

Digitally managing 3.68 Lakh+ water utility assets and 1.60 Lakh+ connections

~497.74 MLD Water Treatment Capacity Managed

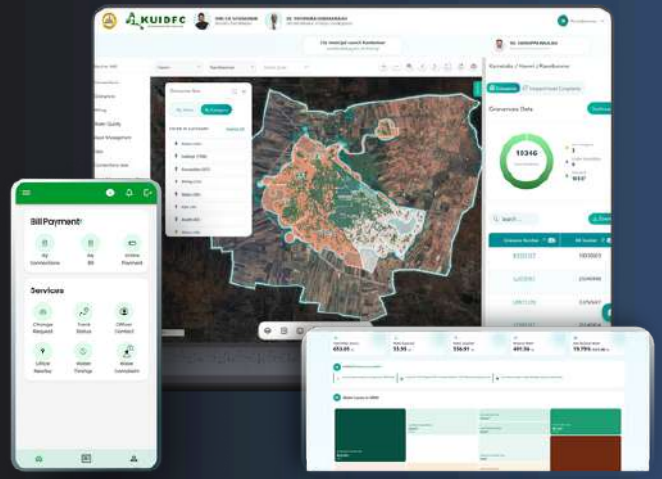
Monitoring 31 Lakh KL+ water consumption every month

80% Faster New Connection Approvals

DEVELOPMENT CENTRE
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Hyderabad, Telangana,
India - 500081

WEBSITE
vassarlabs.com

aqua City™



Climate

Digital Public Infrastructure for End-to End City Water Monitoring

aquaCITY is a **city water management platform** that enhances water distribution, billing, and operational efficiency. Currently live for 8+ large cities. It integrates GIS-based billing, connection management, leak detection, grievance resolution, asset tracking, and monitoring, empowering ULBs for effective governance and citizen-focused services

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Water Demand Forecasting

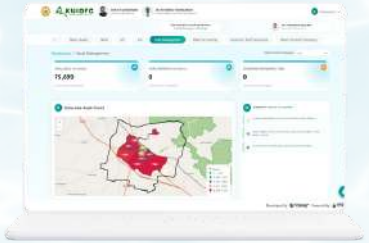
Analyze historical data to forecast future water demand at the household level, across industrial units and IT parks, at the zone or ward level.

Water Supply & Distribution

Provide a holistic view of water availability for the next week or month, notifying treatment plants to adjust production accordingly.

Asset Management

Get predictive maintenanace alerts on remaining useful life of assets, detect anomalies and potential equipment failures.



Connection Management

Integrate end-to-end digital workflow for new connections, manage existing customers and track SLAs & KPIs in real-time.

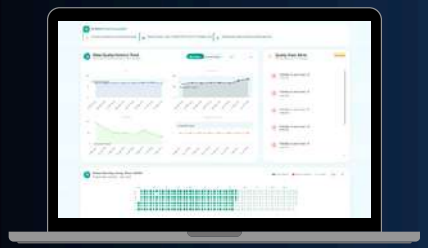


Water Billing & Collection

Leverage water accounting to support accurate billing based on actual water usage. Use interactive dashboards to track appropriate and timely revenue collection.

Water Quality Monitoring

Monitor water quality by assessing clarity, turbidity, color, and concentrations of optically active substances.



Non Revenue Water

Receive real-time leak alerts on mobile and web platforms for rapid action and reduced water losses. Cloud-based SLA and service delivery monitoring uses automated algorithms to track baseline performance, deviations, and breaches.

Satellite Based Area Detection and Irrigation Advisory

Detect water-stressed areas and vegetation across city green spaces using satellite imagery and AI. Receive real-time advisories on irrigation requirements and optimize water distribution to zones with highest plant water needs.



8 cities enabled with active deployments

10K+ mobile app downloads and **1.83M+** website visits

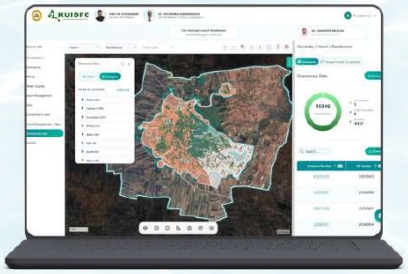
7,209 registered online users

71 Lakh+ SMS notifications delivered

160+ water supply zones digitally managed

Consumer Grievances

Realtime tracking and allocation of grievances and requests. Ensure service level complaints are resolved within the SLA and further maximize productivity.



Pump Optimization

Get insights on pump scheduling, total runtime, energy consumption, vibration, pressure, etc. Further, it enables alerts on pump maintenance and usage.

Sewerage Monitoring

Monitor sewerage network health with IoT sensors to detect blockages, anomalies, and overflow risks. Enable predictive alerts for proactive maintenance and ensure environmental compliance across distributed infrastructure.