



Tigernix Water Intelligence Software Suite

Industry 4.0-Driven Overall Platform for
Water Utilities

Introduction

Cross-Stream Decision-Support Platform for Water Management

Tigernix Water Intelligence Software Suite is a cloud-native, Industry 4.0-powered platform designed for water utility specialists managing operations from catchment to consumer. By unifying asset telemetry, process analytics, and compliance data into an integrated dashboard, Tigernix empowers water authorities to make intelligent, data-driven decisions, optimise resource allocation, and ensure system-wide efficiency and sustainability-all from a single interface.

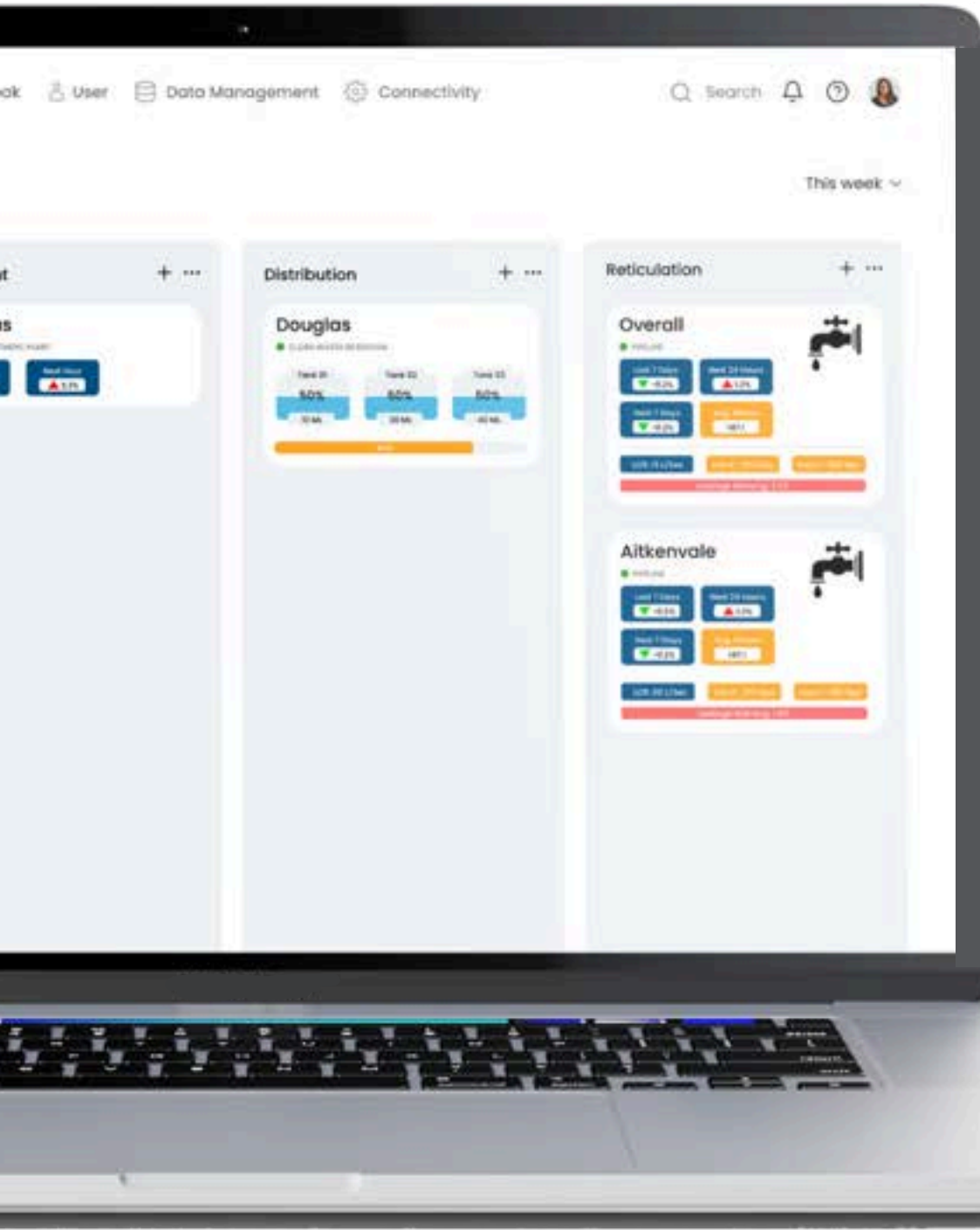


Catalysing Water Management with Industry 4.0 Collaboration

@ Tigernix Smart Water Solutions

Industry 4.0 Capabilities We Offer

- GIS
- IoT
- AR & VR
- Predictive & Prescriptive Analytics
- 5G
- Cloud Computing
- Robotic Automation
- Digital Twin
- Simulation
- Big Data



Why Choose Tigernix?

Tigernix brings together cutting-edge technologies—AI, IoT, Digital Twin, GIS, and more—creating a unified digital ecosystem. This enables seamless monitoring, predictive analytics, automated workflows, enhanced decision-making, real-time alerts, scalable integration, and continuous operational optimisation, transforming traditional water management into a truly smart operation.



Join Us to Level Up Your Water Digital Capacities to Its Best Level

Robust Features of Tigernix Wastewater Intelligence Software Suite

Unifying Decentralised Data into One Analytical Screen

- Edge-to-Cloud IoT Synchronisation
- Cross-Platform Asset Intelligence
- Simulation-Enhanced Visual Forecast Models

Industry 4.0 Oversight of Entire Water Network

- Digital Twin Integration for Assets and Processes
- Sensor-Driven Anomaly Detection
- IoT-Based Asset Tracking

Digital Twin Scenario Modelling & Simulations

- Investment Scenario Return Analysis
- Cross-Agency Strategy Alignment
- Disaster Resilience Planning

Multi-Layer Data Analytics & Predictions

- Water Quality Compliance Trajectory
- Asset Depreciation Predictive Intelligence
- Climate Risk and Resilience Mapping

GIS & AI-Driven Environmental Impact Analysis

- AI-Powered Ecosystem Stress Mapping
- Location-Wide Risk Exposure Visualisation
- Sustainability Target Deviation Analysis.

Satellite-Based Water Resource Prediction

- Rainfall-to-Runoff Forecasting
- Floodplain Vulnerability Mapping
- AI-Based Overflow Risk Prioritisation



Unique 4-Pillar Structure



Industry 4.0
Integration



Executive-Ready
Insights



Predetermined Data-
driven Decisions

System Capabilities

Cross-Location Governance Dashboard

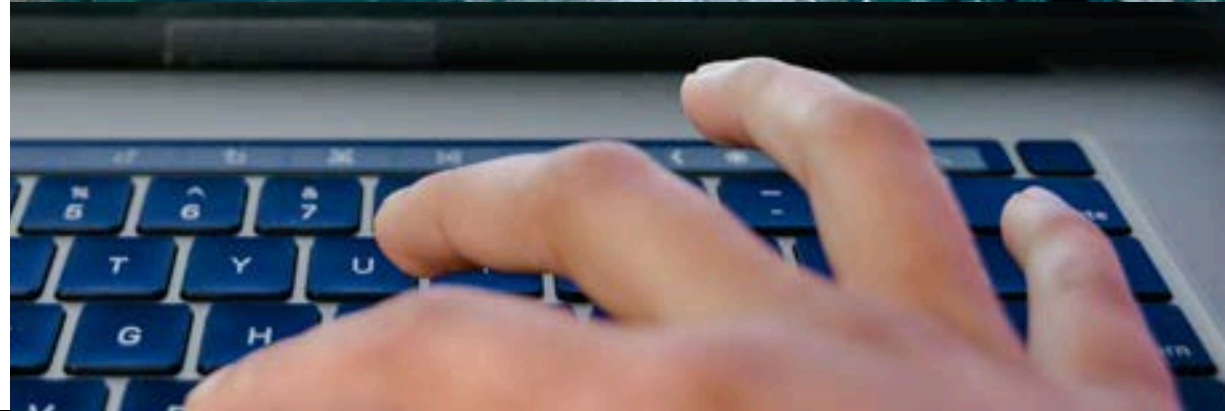
Centralises all water data from multiple sites into a single, intuitive dashboard, enabling instant oversight, policy impact visualisation, and streamlined governance for faster, more informed decision-making across the entire water network.

Unified Policy Impact Simulation

Empowers leaders with visually rich, scenario-based simulations that integrate real-time and historical data, allowing strategic planning, risk assessment, and policy testing to optimise outcomes before implementing changes in the real world.

Dynamic Investment Forecast Engine

Delivers real-time financial forecasts and scenario planning for infrastructure investment, combining predictive analytics, digital twin models, and cost-benefit analysis to guide smarter, more sustainable capital allocation and budget management.





System Capabilities

Water Quality Surveillance

Integrates IoT sensors, AI analytics, and cloud connectivity for continuous, real-time water quality monitoring, ensuring compliance with standards, early detection of anomalies, and rapid response to contamination or operational issues.

AI-Based Compliance Risk Analysis

Automates regulatory tracking and risk forecasting across all operations using AI and big data, reducing manual effort, ensuring up-to-date compliance, and proactively identifying areas of potential non-conformance before they escalate.

Climate Intelligence Integration

Predicts and visualises weather impacts, flood risks, and basin capacities using advanced analytics and satellite data, enabling proactive flood and drought management, infrastructure resilience, and climate-adaptive water resource planning.

System Capabilities

Predictive Maintenance Algorithms

Foresees equipment and infrastructure issues by analysing sensor data and operational trends, minimising downtime, optimising maintenance schedules, and supporting informed asset management for longer system life and lower costs.

Integrated Water & Stormwater Oversight Map

Combines GIS, satellite, and CCTV data to provide a unified, catchment-wide view of water and stormwater assets, enabling proactive management, incident detection, and strategic planning for urban and regional water systems.

Socioeconomic Impact Heatmapping

Cross-references operational inefficiencies with demographic and economic data, using AI-powered heatmaps to prioritise investments, enhance resource allocation, and support evidence-based decisions.





System Capabilities

Executive Crisis Command Synchronisation

Connects all governance levels-national, regional, and municipal-on a real-time digital platform, facilitating coordinated crisis response, data-driven resource management, and unified communication during water emergencies or disasters.

360-Degree Sustainability Visualisation

Visualises the environmental, social, and economic impacts of water management decisions, integrating advanced analytics and predictive modelling to guide sustainable practices and strategic policy development.

Interactive Data Storytelling Platform

Transforms complex water data into clear, actionable visual narratives and dashboards, making technical insights accessible for all stakeholders and supporting transparent, informed decision-making at every organisational level.

Key Challenges & Solutions

Tigernix centralises IoT, satellite, and remote water data into a unified platform, eliminating fragmentation. This enables utilities to access comprehensive insights instantly, accelerating decision-making up to ten times faster while providing real-time regional visibility for strategic planning and emergency response.



Fast Decision-Making with Centralised Water Data

Tigernix centralises IoT, satellite, and remote data into a single platform, eliminating fragmentation. Utilities access all information instantly, enabling decisions up to ten times faster, boosting responsiveness and operational efficiency.



Real-Time Visibility Across Diverse Geographic Areas

A unified digital screen integrates satellite and IoT feeds, providing region-wide operational visibility. Utilities can strategically plan, allocate resources, and respond to emergencies effectively, ensuring seamless management across all geographic locations.



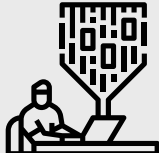
Key Challenges & Solutions

Tigernix empowers transparent water investment by providing scenario-based forecasts that visualise long-term asset performance. AI and NLP transform technical data into plain-language reports, enabling informed governance, smarter budgeting, and public transparency for confident, accountable infrastructure decisions.



Ensuring Transparency in Water Investments

Scenario-based investment forecasting allows leaders to visualise long-term asset performance and justify expenditures. This approach delivers transparent, accountable, and climate-resilient infrastructure outcomes, supporting smarter financial decisions and stakeholder confidence.



Data Decoded for Policy Makers

Tigernix uses AI and NLP to convert complex technical metrics into plain-language reports. This bridges the gap between engineers and executives, enabling informed governance, effective budgeting, and enhanced public transparency.



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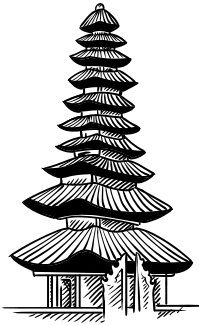
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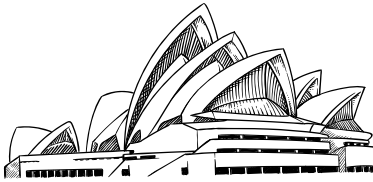
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