Abridging Water/Wastewater Asset Management and Water Quality Management using Industry 4.0 Capabilities











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WHY ABRIDGE?

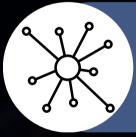


Integrated Water & Wastewater Management System

INTRODUCTION

Why Water/Wastewater Asset Management & Water Quality Management Are **Two Sides of The Same Coin**

Interconnected Goals



• Resource Optimisation • Public Health

Infrastructure and Quality

- Impact of Assets on Quality
- Maintenance Strategies

Regulatory Compliance



• Shared Standards • Reporting and Accountability

Financial Implications



• Cost-Benefit Analysis • Funding and Budgeting



Community Engagement and Trust

- Public Perception
- Stakeholder Involvement

Data-driven Decision Making

• Data Integration • Predictive Analytics

Climate Resilience

• Adaptation Strategies Sustainable Practices



- Smart Technologies
- Collaboration with Tech Experts

CHALLENGES

Do any of these challenges seem familiar to you?

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Water and wastewater sector demands



Traditional approaches vs. future needs.



Why integrating technology is crucial.









Focus on sustainability, efficiency, and compliance.

INDUSTRY 4.0

Do any of these challenges seem familiar to you?



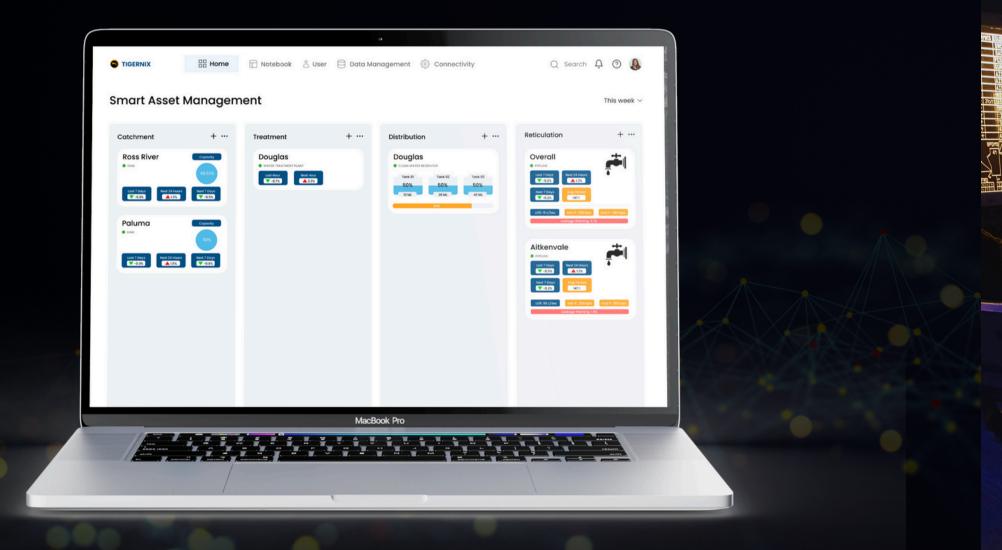


DO THEY EXIST?



BLENDED SUITES

Two suites which combines smart asset management and water quality

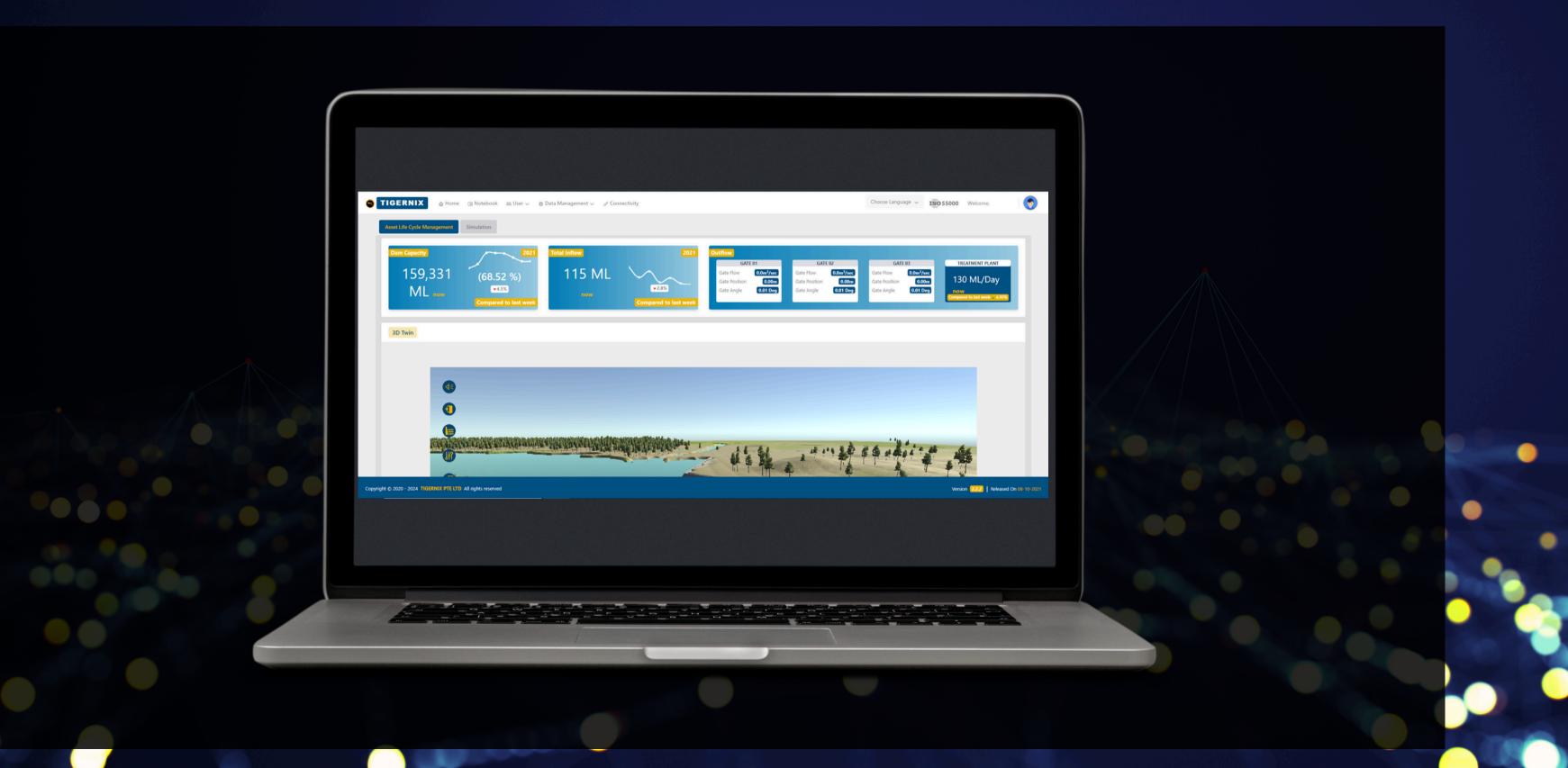


Smart and Integrated Asset System



Digital Water/Wastewater Control Tower

WATER ASSET QUALITY

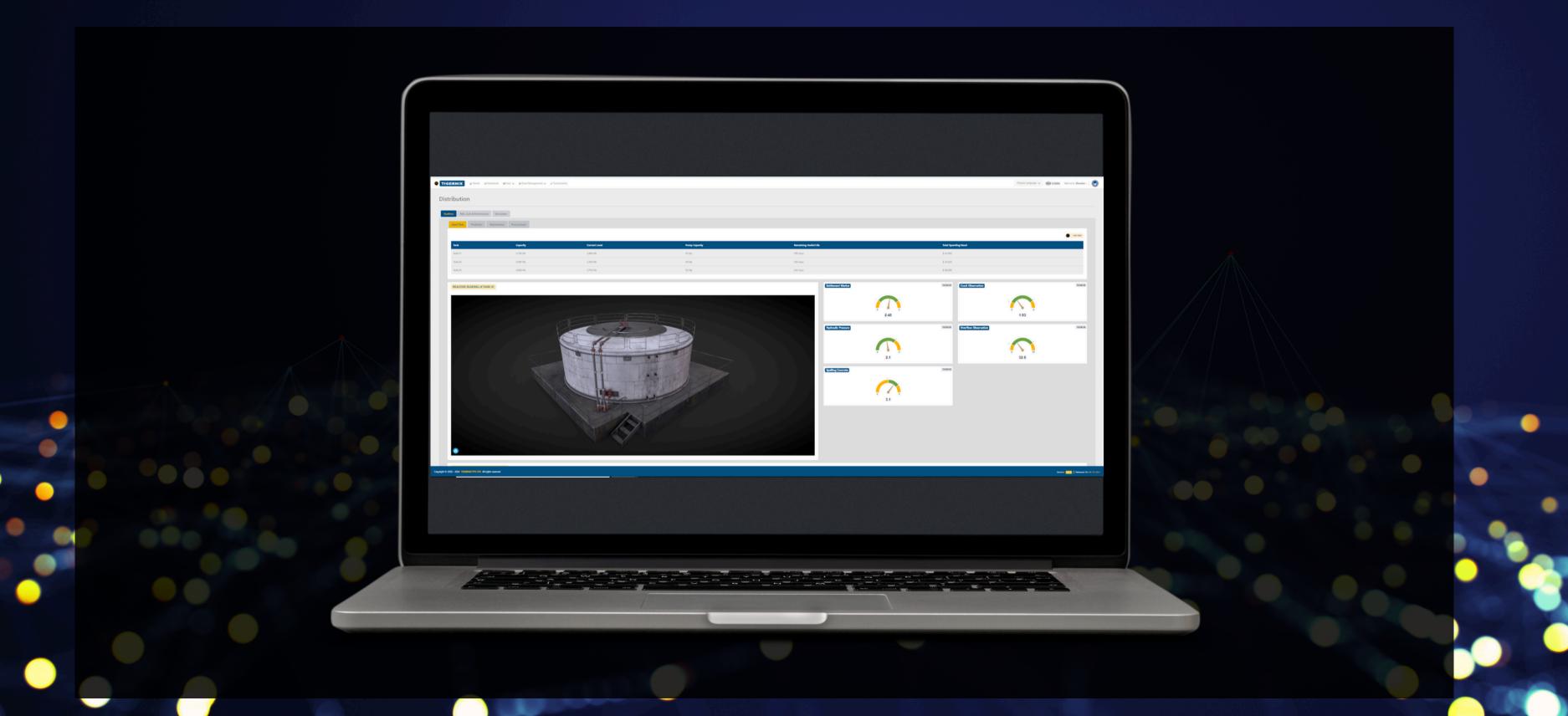


WATER QUALITY





WASTEWATER ASSET QUALITY



USE CASES

Do any of these challenges seem familiar to you?

Tree Root Intrusion



Sinkhole Detection



NRW Tracking



Acquifer Exploration





Algae Detection

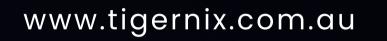


Natural Disasters



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QEA





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