



SAFHE 2026

SOUTHERN AFRICAN
HEALTHCARE CONFERENCE

SYNERGY
IN ACTION:

SHAPING THE FUTURE OF
HEALTHCARE TOGETHER



9 – 10 JUNE 2026



CTICC 2 CAPE TOWN

From Water Risk to Water Security: Building Resilient Healthcare Systems

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Talbot

STERILISATION STOPS



**DIALYSIS IS
DISRUPTED**



**HVAC SYSTEMS
FAIL**



**INFECTION RISKS
INCREASE**



**PATIENT CARE IS
COMPROMISED**

**WHAT HAPPENS
WHEN A
HOSPITAL LOSES
WATER?**



**NO WATER.
NO CARE.**

TRADITIONAL THINKING



EMERGING REALITY



Water supply



Municipal
dependence



Reactive
maintenance



Compliance



Infrastructure



Water security



Diversified
resilience



Predictive
intelligence



Strategic
stewardship



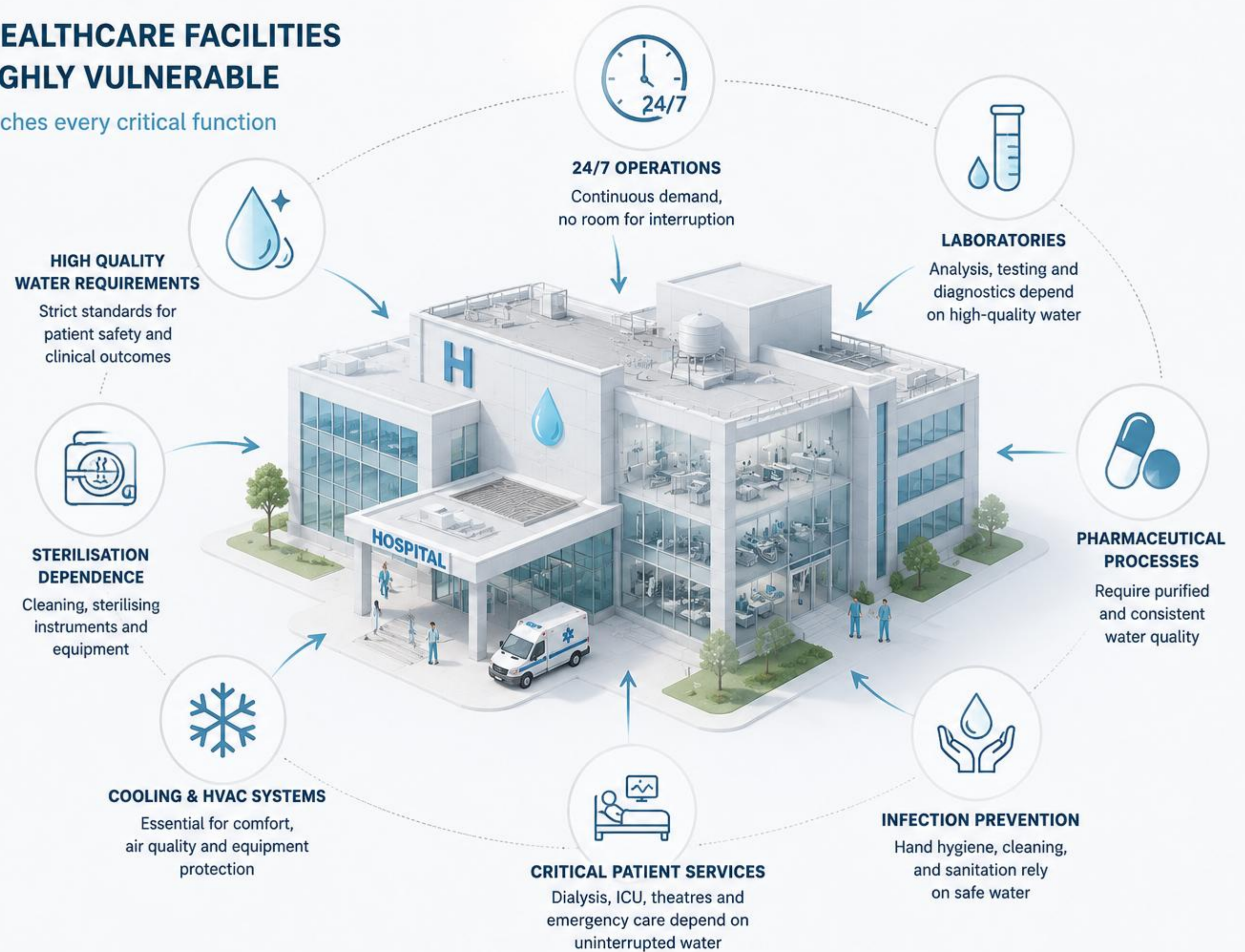
Operational
continuity





Water touches every critical function

Water touches every critical function



Key risks:

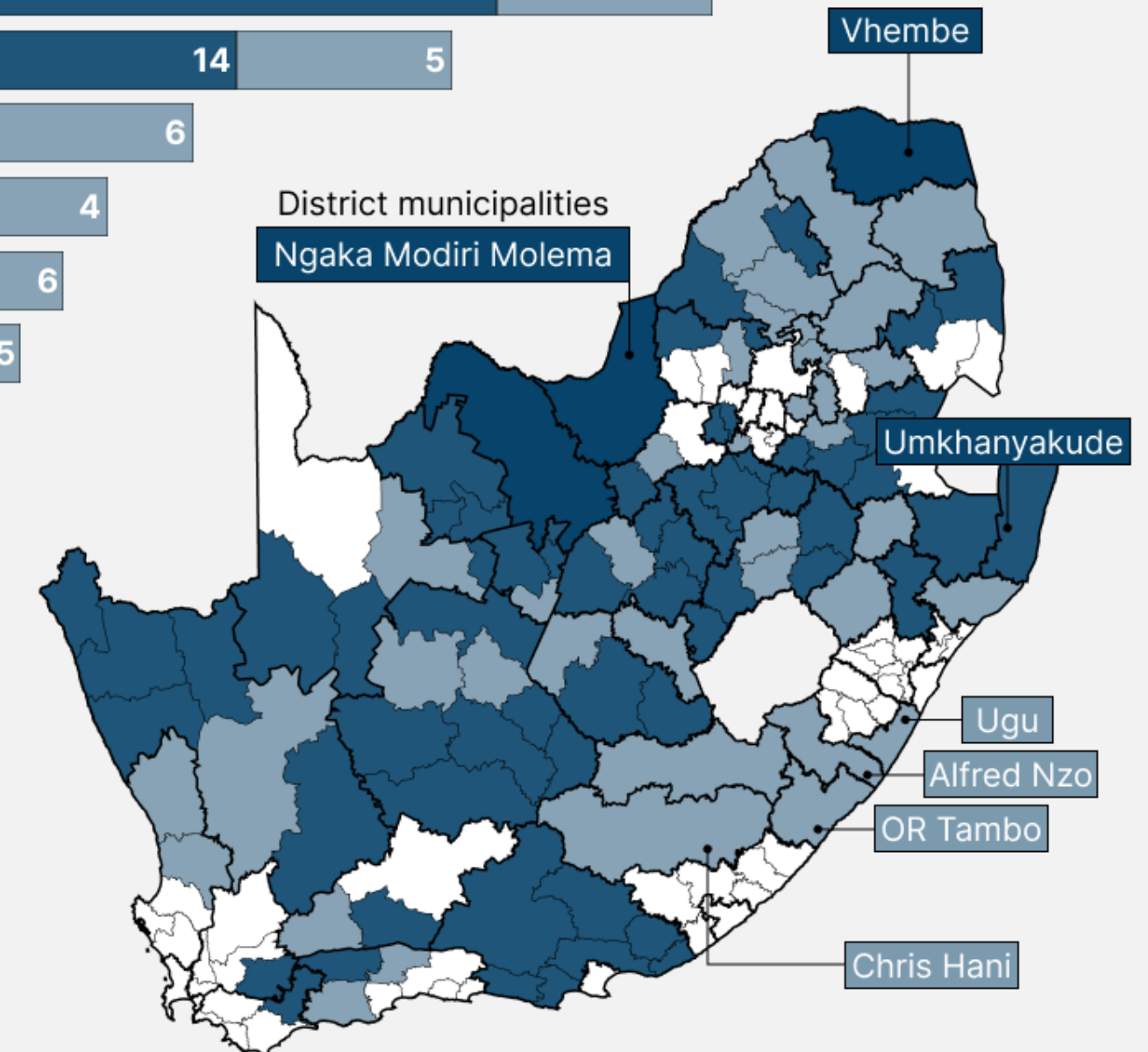
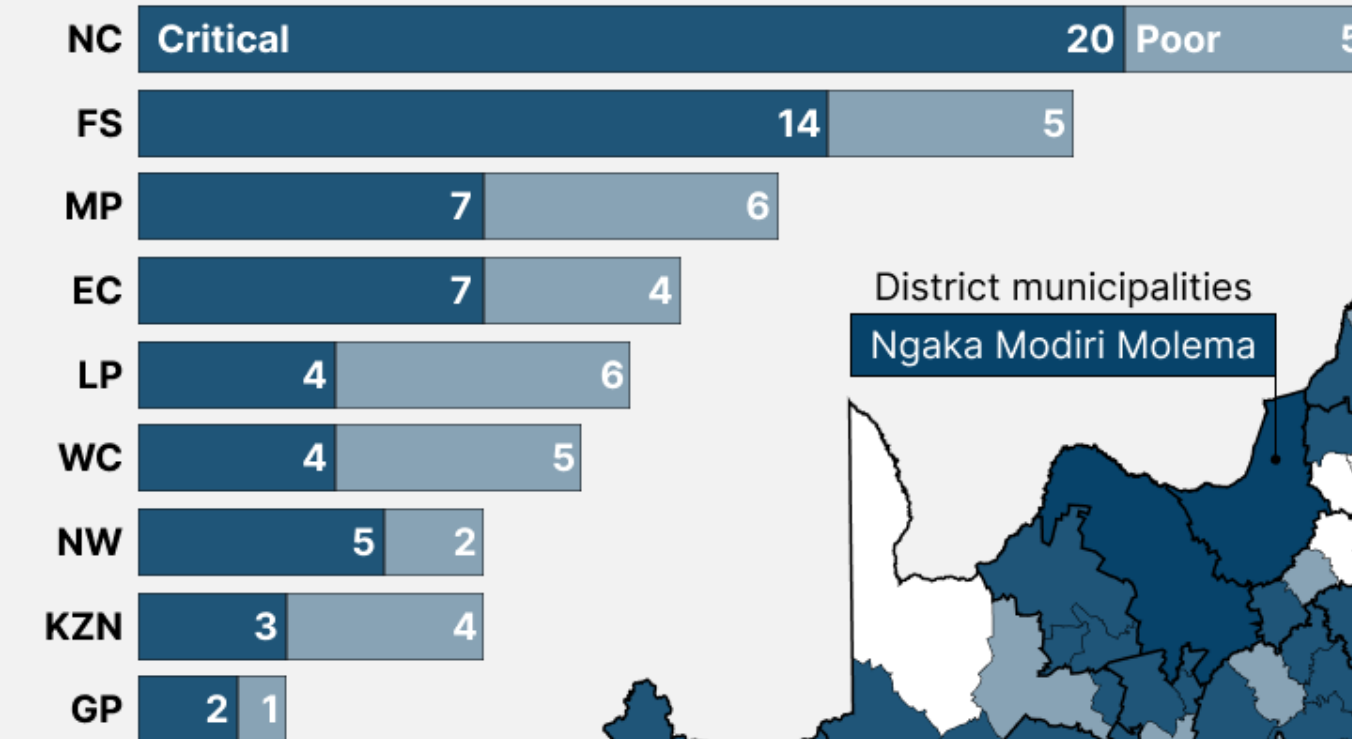
- Municipal instability
- Aging infrastructure
- Drought and climate pressure
- Load shedding impacts
- Water quality deterioration
- Rising operational costs

The question is no longer IF disruption will occur — but whether facilities are prepared for it.

SA's failing water systems

73% of water authorities rated "critical" or "poor" in 2023

Number of water authorities (district or local municipalities) that scored critical or poor, on average, across **drinking water** and **wastewater systems**



Note: Data includes water and wastewater systems
Source: Department of Water and Sanitation parliamentary
response to question NW8236E (December 2025)

Updated SANS241 Standard

Greater Focus on Risk-Based Water Management

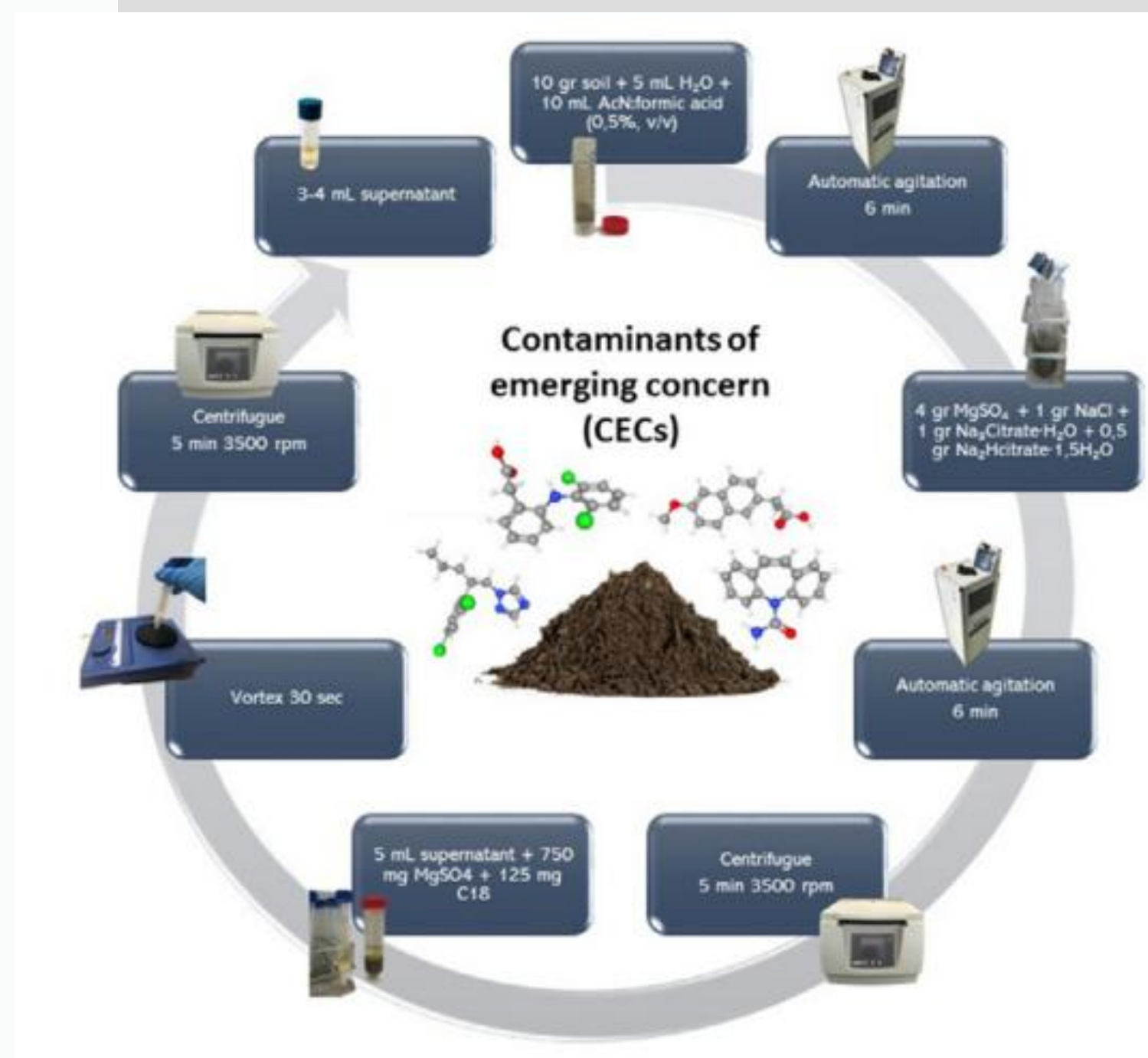
The updated SANS 241 places strong emphasis on proactive risk assessment rather than simply meeting numerical compliance limits.

Hospitals cannot rely only on periodic laboratory testing anymore.

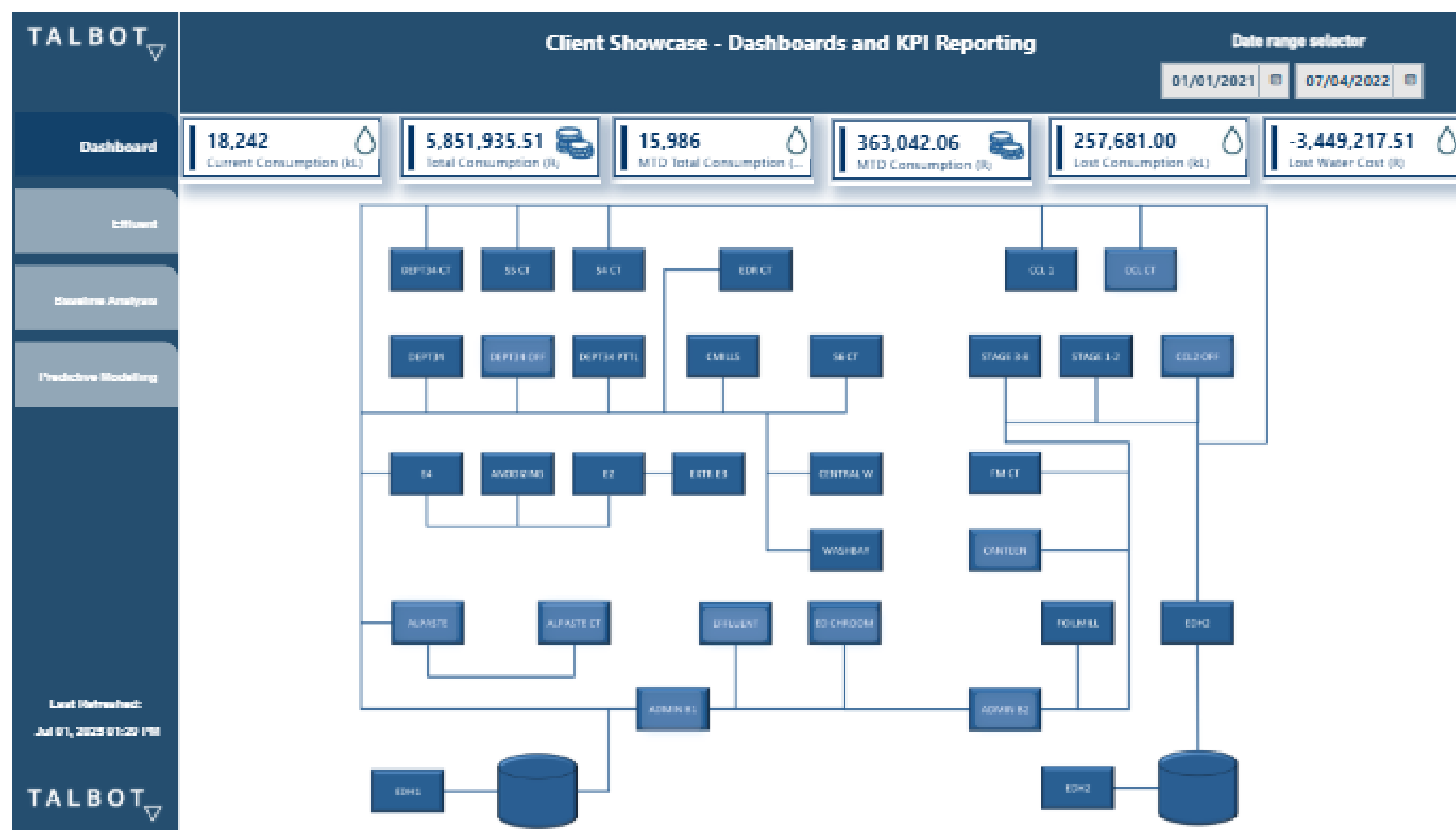
- continuous visibility,
- system understanding,
- and proactive monitoring.

This creates demand for:

- online monitoring,
- digital dashboards,
- telemetry,
- predictive analytics,
- and strategic risk planning.



Talbot's Digital Monitoring Solution



Talbot's Digital Monitoring Solution



Compliance
Reporting

Operational
Efficiency

Cost
Optimisation

Talbot's Digital Monitoring Solution

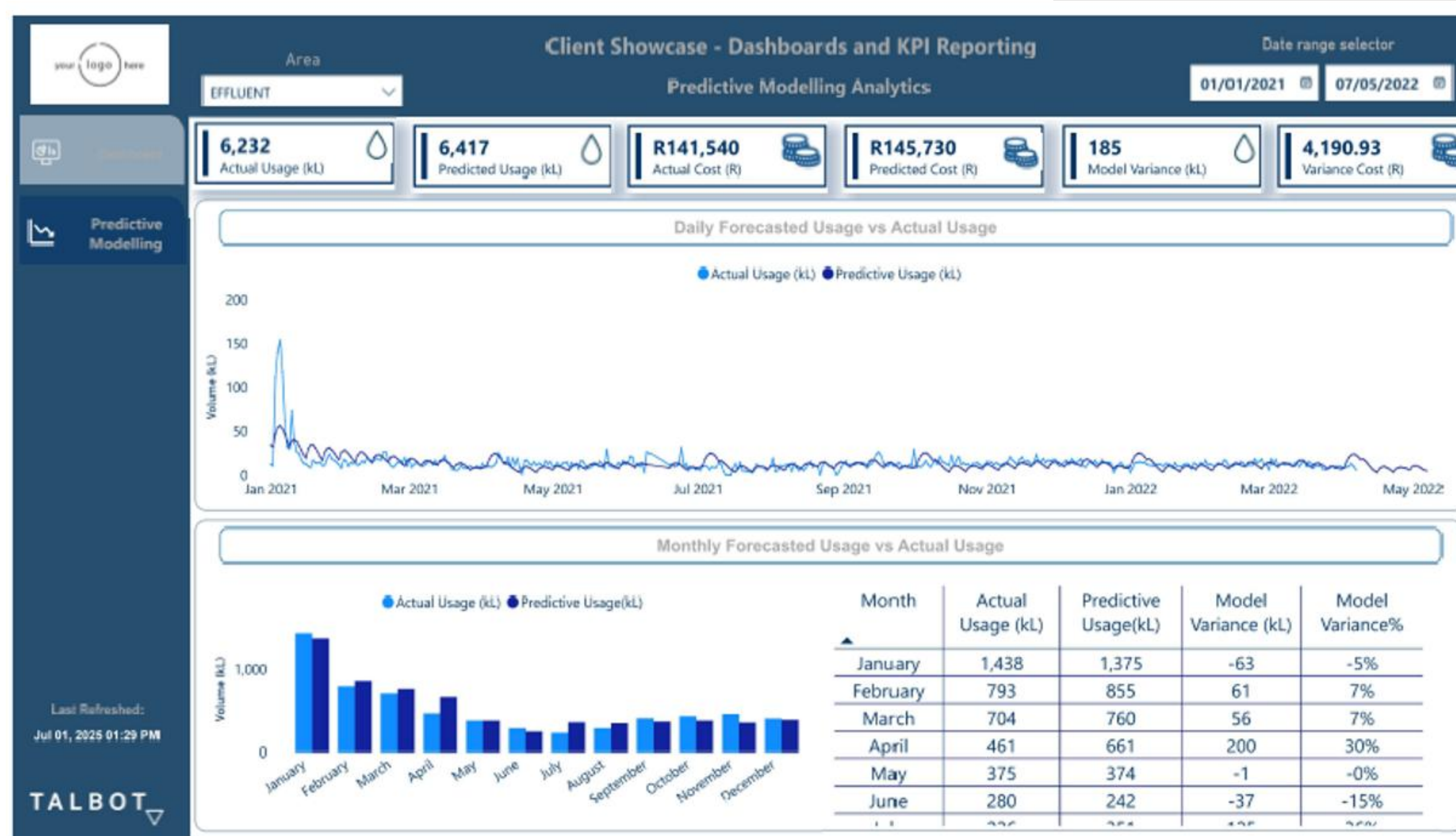


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Talbot's Digital Monitoring Solution

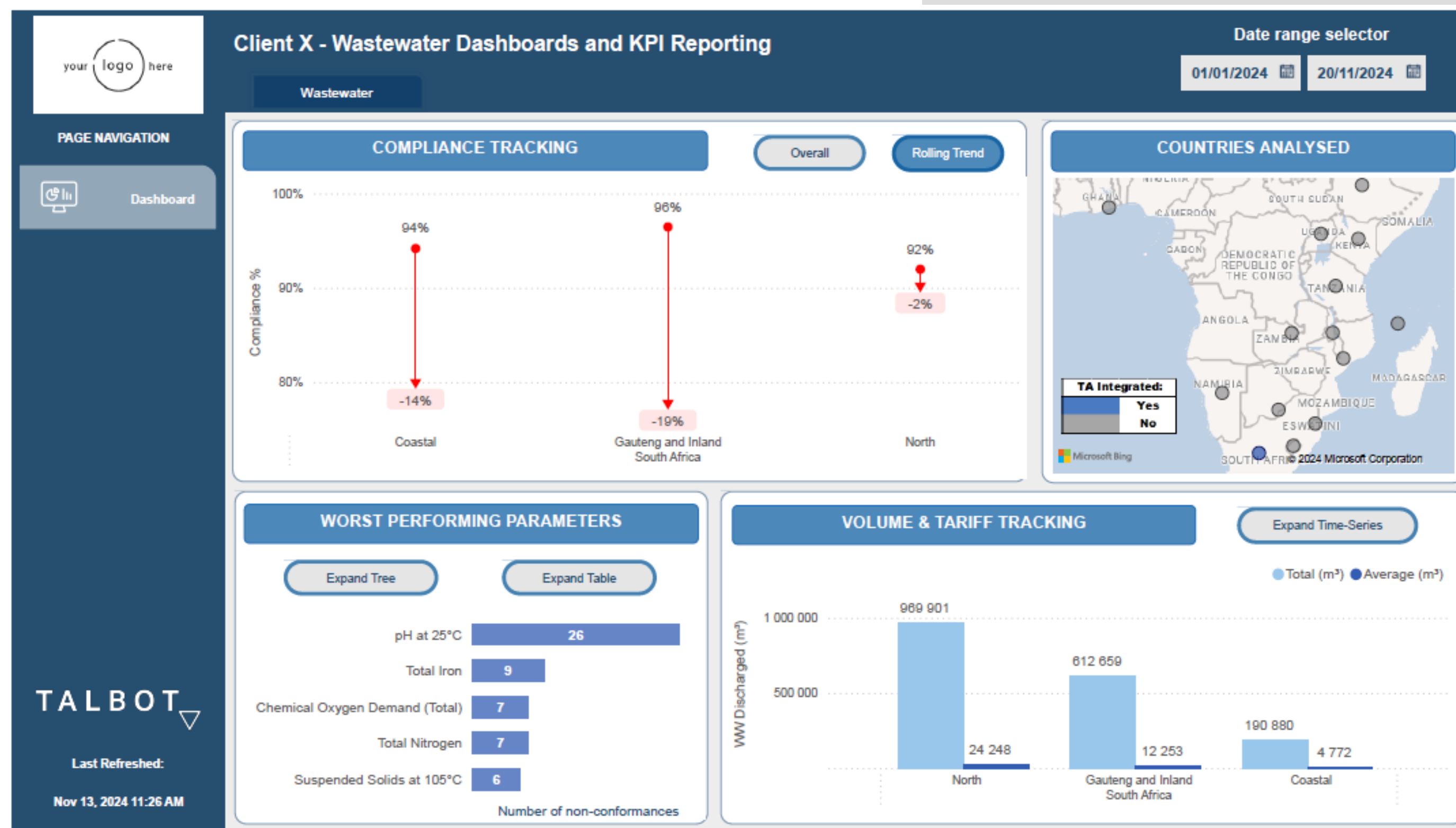


Performance Metrics

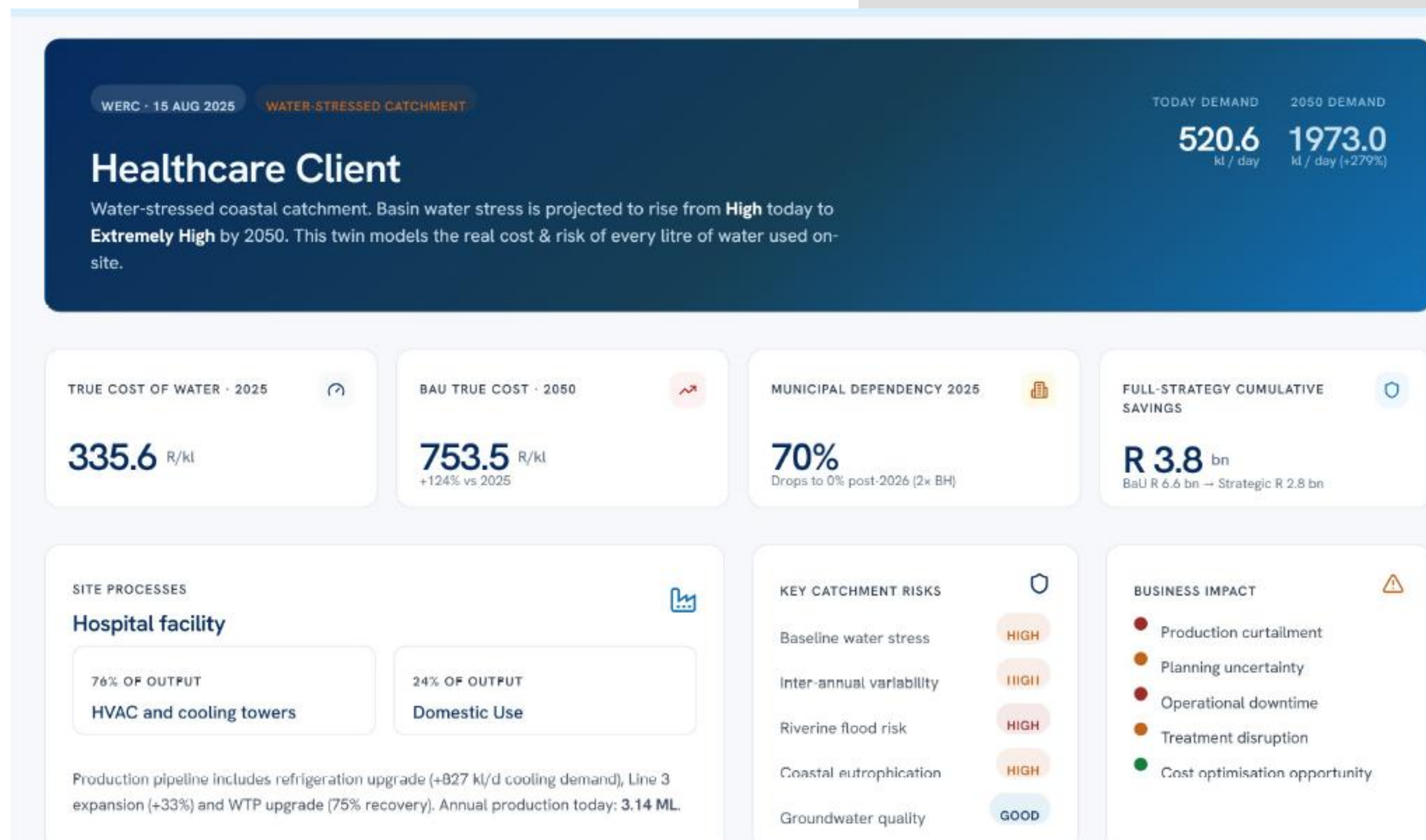
Data-Driven Insights

Transparency & Accountability

Talbot's Digital Monitoring Solution



Talbot's Water Security Solution

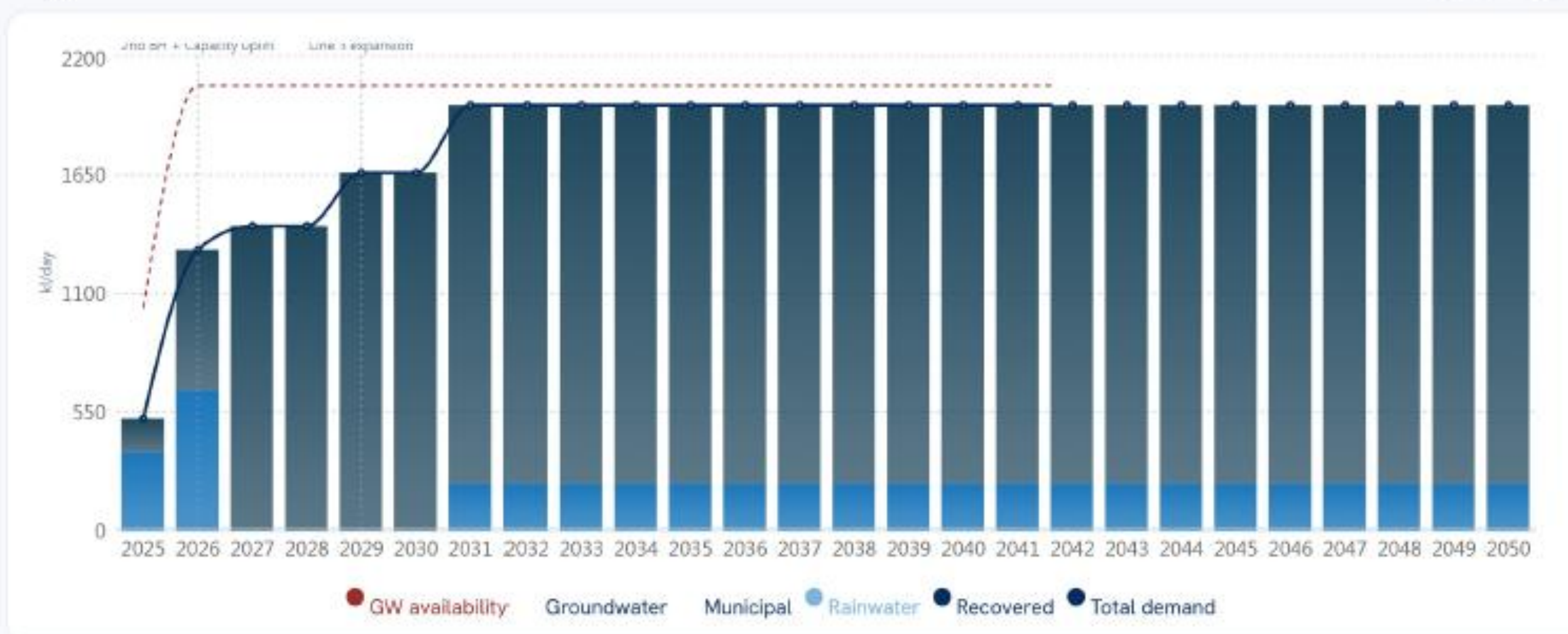


Talbot's Water Security Solution

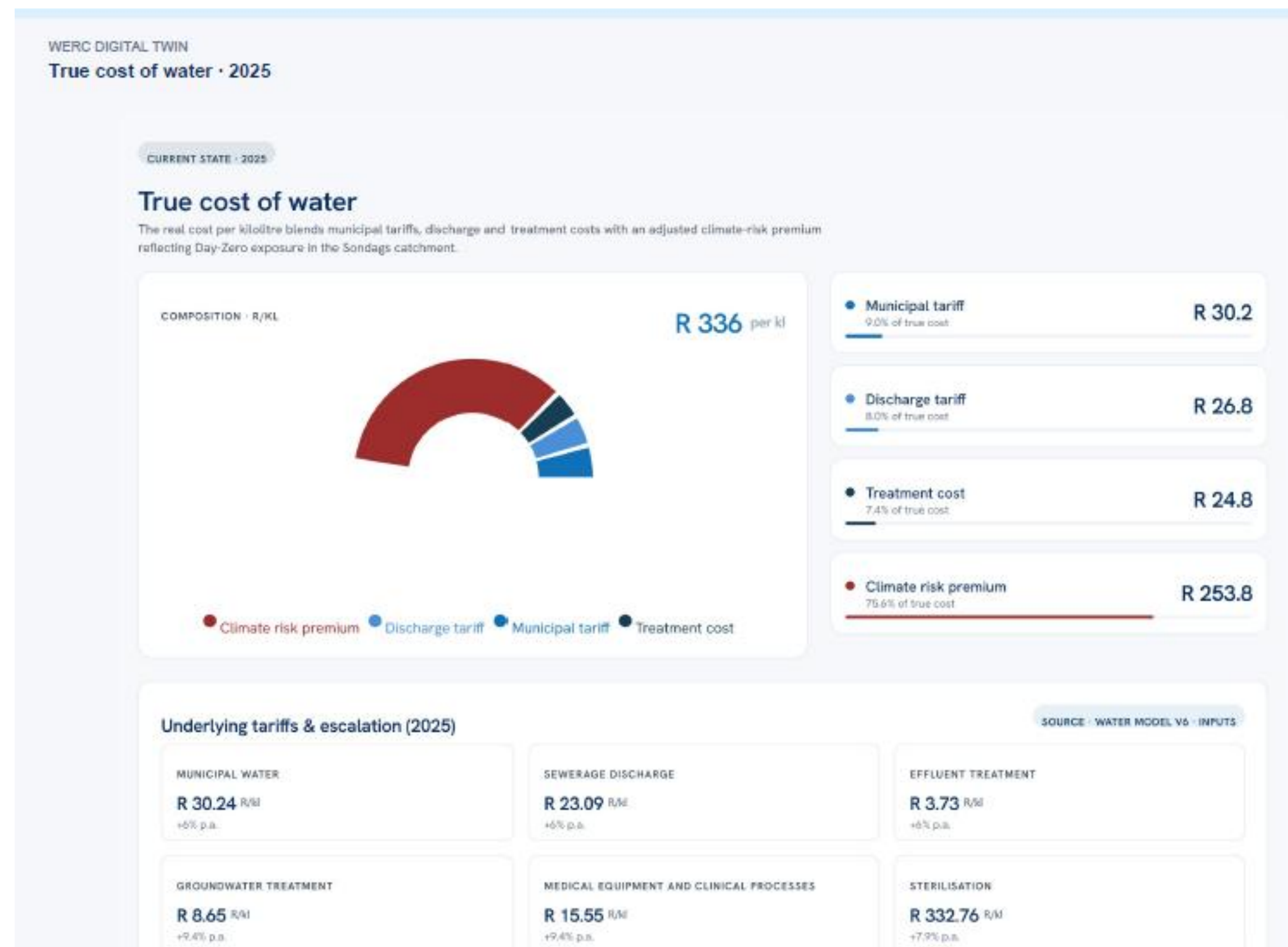
Daily water demand vs availability

Consumption stacked by source against total demand. Municipal reliance ends with the second borehole in 2026; groundwater carries the site until WUL renewal in 2050.

MODEL PERIOD
2025 - 2050



Talbot's Water Security Solution



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Talbot's Water Security Solution

Initiative detail · CAPEX & impact

INITIATIVE

Smart Metering & Optimisation

CAPEX

R 2.0 m

Impact year
2027

Sub-metering, leak detection and process optimisation across both production lines.

INITIATIVE

Rainwater Harvesting

CAPEX

R 500 k

Impact year
2031

Condensation + rainwater capture, 90% plant recovery, 54 kl/d offset.

INITIATIVE

Additional Borehole (Groundwater)

CAPEX

R 15.0 m

Impact year
2026

Second production borehole — adds 1 ML/d raw supply; WUL extended to 2050.

INITIATIVE

Water Recovery Plant (WRP)

CAPEX

R 65.0 m

Impact year
2033

Effluent treatment train, 850 kl/d capacity, 75% recovery, 31% offset.

INITIATIVE

Desalination (North-End Lake)

CAPEX

R 52.5 m

Impact year
2040

RO desalination of North-End Lake water — 1000 kl/d, 65% recovery.

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Thank you / Q&A

Contact me:

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