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CASE STUDY

SIBANYE STILLWATER
WATER RETICULATION MONITORING SYSTEM

2026

CUSTOMER SUMMARY

Sibanye Stillwater is a leading international precious metals mining company with a diverse portfolio of operations and a major player in the mining industry, particularly in the precious metals sector, focusing on gold and platinum group metals (PGMs). Its stakeholder base spans investors, suppliers and local communities across various age groups, income levels and geographic locations. The company places a strong emphasis on responsible mining practices, environmental stewardship and community engagement, and invests in cutting-edge technologies to improve operational efficiency, reduce costs and enhance safety.

Rustenburg Operations

- Location: Rustenburg, North West Province, South Africa.
- Products: Primarily focuses on the extraction of PGMs.
- Significance: One of the largest PGM operations in the world, contributing significantly to Sibanye Stillwater's overall production.

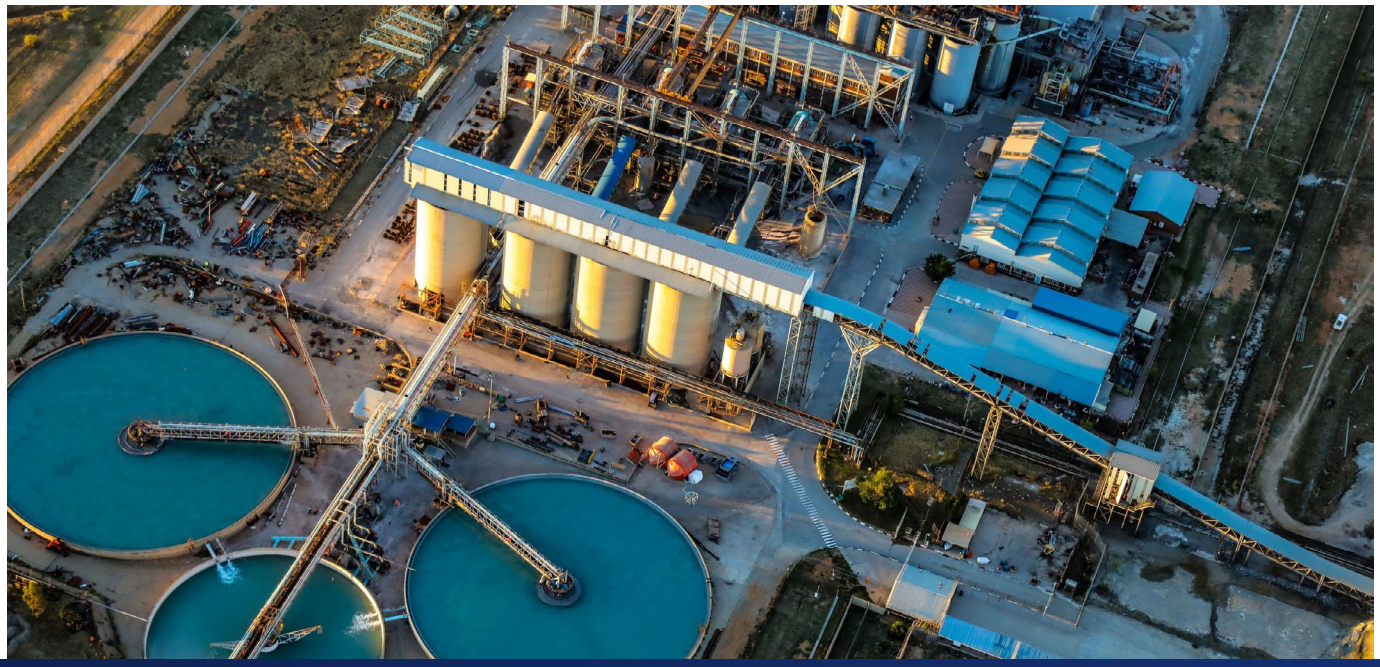
Kroondal Operations

- Location: Near Rustenburg, North West Province, South Africa.
- Products: Also focuses on PGMs.
- Partnership: Operates as a joint venture with Anglo American Platinum, enhancing its production capabilities.

Marikana Operations

- Location: Marikana, North West Province, South Africa.
- Products: PGMs, with a focus on platinum.
- Acquisition: Acquired from Lonmin in 2019 and integrated into Sibanye Stillwater's portfolio, boosting PGM production capacity.

Together, these operations are crucial to Sibanye Stillwater's strategy of maintaining a diversified and robust portfolio, ensuring long-term sustainability and growth.



PROJECT DESCRIPTION & PROBLEM STATEMENT

Prior to the project, Sibanye Stillwater's water reticulation monitoring environment consisted of multiple disconnected systems, with operational data fragmented across cloud-based IIoT metering platforms and site-based PLC control systems. This lack of integration limited real-time visibility of the overall water network, requiring personnel to access multiple applications and data sources to understand network performance, asset status and water consumption.

To address this challenge, 4Sight OT Automation implemented a centralised Water Reticulation Monitoring System that consolidated data from both IIoT and PLC-based sources into a single operational view — providing real-time monitoring, alarm management, historical trending and improved decision-making across the water distribution network.





SOLUTION

To address the fragmented nature of the existing monitoring environment, 4Sight OT Automation implemented a centralised Water Reticulation Monitoring System using the Inductive Automation Ignition platform as the integration and visualisation layer. The solution consolidated data from cloud-based IIoT water metering systems, the existing plant historian and existing PLC control systems into a single operational platform — eliminating the need for operators to access multiple applications to understand network status and performance.

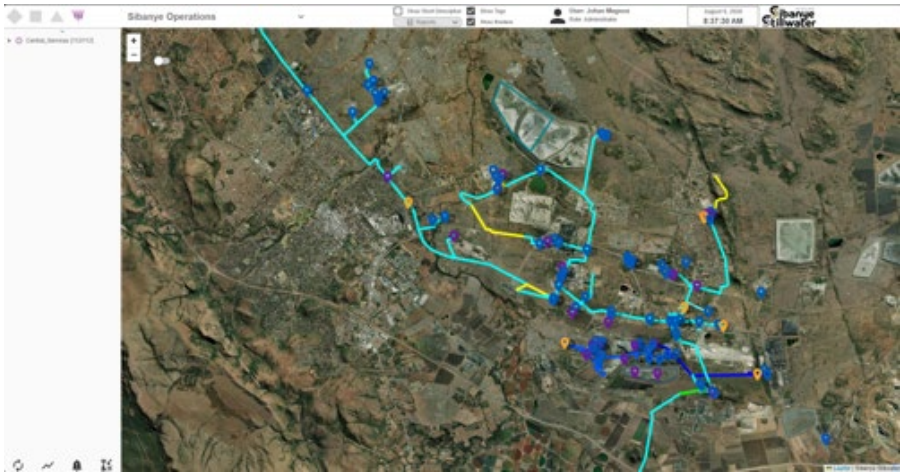
Ignition was configured to securely acquire, normalise and contextualise data from both cloud and on-premise sources, providing a unified view of reservoir levels, pump station status, water flows, pressures and consumption across the reticulation network. The platform delivered real-time dashboards, alarm management, historical trending and reporting capabilities, enabling operations personnel to monitor the complete water distribution system from a single interface.

By integrating previously disconnected data sources into a common operational environment, the solution improved situational awareness, accelerated fault identification and response, and provided a scalable foundation for future expansion of the water management system.

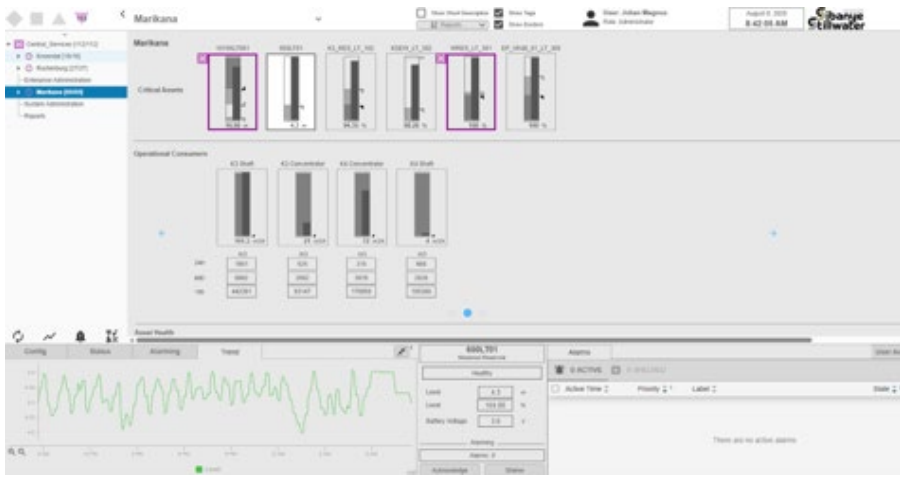
BENEFITS & OUTCOMES

The implementation of the Ignition-based Water Reticulation Monitoring System transformed a fragmented monitoring environment into a unified operational platform. By integrating cloud-hosted IIoT metering data with on-site PLC operational systems, Sibanye Stillwater realised measurable operational value:

- Real-time visibility: A single, unified view of the entire water distribution network.
- Faster response: Accelerated fault identification and response to operational issues.
- Improved reliability: More reliable and consistent water supply across sites.
- Reduced manual effort: Less time spent accessing and reconciling multiple applications.
- Better decisions: Enhanced decision-making through centralised monitoring, alarm management, trending and reporting.



Network-wide water reticulation overview across the Sibanye operations.



Marikana asset-health, trending and alarm dashboard within Ignition.

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The company's mission is to empower our partners to future-proof their businesses through Digital AI Transformation to make better and more informed decisions in the modern digital economy.

4Sight's business model enables its partners to take advantage of products and solutions within its group of companies, which will allow them to enjoy turnkey Digital AI Transformation solutions across industry verticals.



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