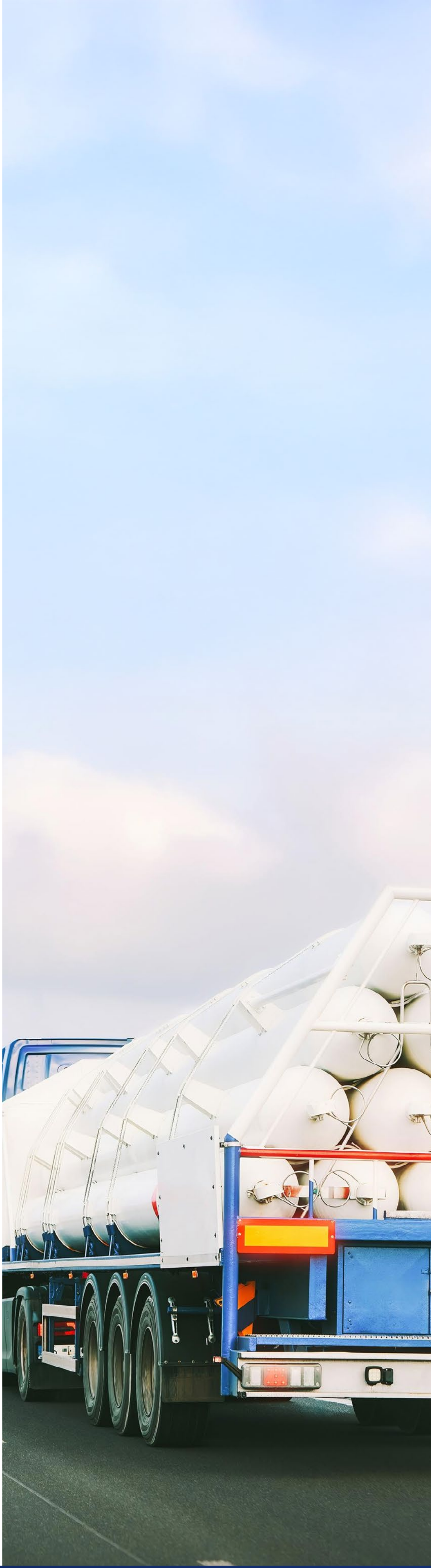
CASE STUDY

# AFROX TRANSFORMS CYLINDER MANAGEMENT WITH AI-POWERED IOT

AFROX

2025



# CUSTOMER SUMMARY

Afrox, a leading supplier of liquified petroleum gas (LPG), faced a critical challenge in effectively tracking and managing its vast stock of LPG cylinders. The absence of barcodes on cylinders made traditional tracking methods ineffective. Manual counting was time-consuming, error-prone, and labour-intensive, resulting in prolonged stock taking, operational downtime, and potential losses.

# CHALLENGES

- There were no barcodes on LPG cylinders for easy tracking.
- The manual counting process was prone to counting errors and delays.
- Stock taking caused downtime and disrupted operations.
- There was a risk of financial losses due to inefficiencies and theft.

# SOLUTION

Believing in the power of technology to drive safe, sustainable, and innovative operations, Afrox partnered with 4Sight to implement a cutting-edge solution powered by artificial intelligence (AI) and IoT.

The solution integrated:

- On-site cameras combined with Azure Cognitive Services to automatically recognise and count LPG cylinders in images.
- Dynamic counting for cylinders on incoming and outgoing trucks.
- Static counting for cylinders in storage yards.
- Power BI dashboards to visualise stock data through charts, graphs, and maps.
- This system provided real-time visibility, actionable insights, and seamless integration into Afrox's operations.

# BENEFITS AND OUTCOMES

The collaboration between Afrox and 4Sight delivered measurable business impact:

- Real-time stock visibility across all operations
- Reduced downtime and costs by eliminating manual counts
- Improved accuracy and control, minimising losses from theft
- Enhanced decision-making with data-driven insights for inventory management, demand forecasting, and logistics planning

Through this innovative IoT- and AI-powered solution, Afrox successfully transformed its cylinder management process. By enhancing accuracy, efficiency, and visibility, Afrox not only overcame its inventory challenges but also reinforced its position as a market leader in the gas industry.

To see the solution in action, watch the full video case study.

4Sight Holdings Limited (4Sight) is a public company listed on the JSE AltX (ticker: 4SI) in accordance with the laws of the Republic of South Africa. Our purpose is to leverage our extensive product and services portfolio, focused on AI technologies, people and data-focused solutions to design, develop, deploy and grow solutions for our partners (customers and vendors).

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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