



OPERATIONAL  
TECHNOLOGIES

# ASSET PERFORMANCE MANAGEMENT

## APM

*Optimising assets to run safer,  
greener, longer and faster*



## MAXIMISE RETURN ON ASSETS



### PRESCRIPTIVE MAINTENANCE Machine learning

Accurate anomaly and failure alerts weeks or months in advance with real-time data and predictive analytics.



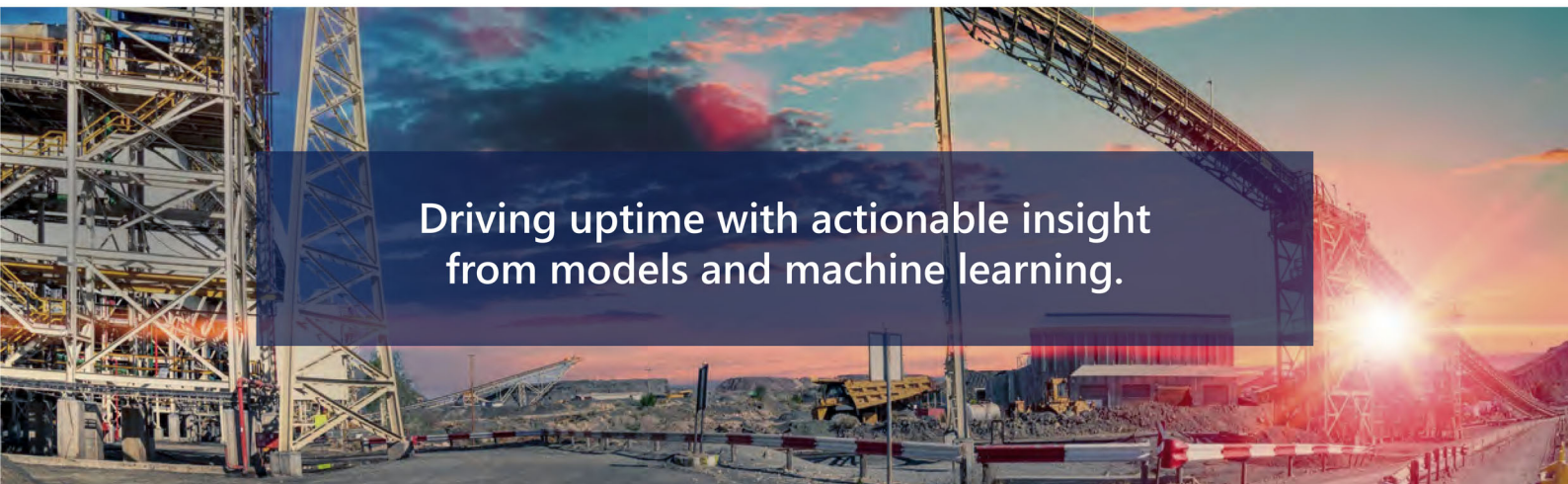
### PROCESS ANALYTICS Multivariate analysis

Analytics tools that can find correlations, trends and other valuable information hidden within big data that was inaccessible through previous data analysis methods.



### PREDICT ASSET PERFORMANCE Reliability Simulation

Make better decisions with reliability, availability and maintainability analytics of your mine, mill or refinery, built on a virtual model of the equipment and process using real-time data.



**Driving uptime with actionable insight  
from models and machine learning.**

# ASSET RELIABILITY: A SMART AREA FOR DIGITAL FOCUS

Asset performance management (APM) solutions provide a sound entry point for digital investments, ensures that the equipment miners need is available to keep production on track. Having the appropriate assets available is critical for successful operations; without this element in place, other efforts to optimise will falter.

APM can address many of the key challenges facing miners, through a variety of different methods.

## Prescriptive Maintenance Analytics


During extraction and processing, prescriptive maintenance analytics can ensure the necessary haul trucks, shovels, crushers and conveyors are available. Using advanced pattern recognition and machine learning, these tools identify normal, abnormal and failure signature agents signatures for different machines and components. When an issue appears, the system issues an alert describing the exact problem, root cause and time to failure, which guides operations and maintenance leaders directly to the fix.

## Digital Twin

Make better decisions with reliability, availability and maintainability analytics of your mine, mill or refinery, built on a virtual model of the equipment and process using real-time data. Uniquely designed to take process flows into account, the solution identifies the impacts of failures, upgrades and repairs on overall performance and revenues. This can help create greater mine-to-mill alignment, ensuring that decisions made during extraction don't negatively impact processing or recovery.

## Multivariate Process Analytics

New analytics tools can find correlations, trends and other valuable information hidden within big data that was inaccessible through previous data analysis methods. The latest solutions can deliver multivariate analysis tailored to the unique needs of continuous and batch processing found in mines with flotation and recovery as well as in metal refineries. Multivariate analytics tools enable mines to mill and cast the right material when and where they need it. The technology ensures products are refined to customer specifications, reducing waste and recommending process adjustments to make certain products remain on-spec.



Learn more about reducing downtime and improving maintenance operations efficiency at [www.4sight.cloud](http://www.4sight.cloud)



# PREDICTIVE MAINTENANCE

## Machine Learning

Accurate anomaly and failure alerts weeks or months in advance with real-time data and predictive analytics.





# PROCESS ANALYTICS

## Multivariate Analysis

Analytics tools that can find correlations, trends and other valuable information hidden within big data that was inaccessible through previous data analysis methods.





# PREDICTING ASSET PERFORMANCE

## *Reliability Simulation*

Make better decisions with reliability, availability and maintainability analytics of your mine, mill or refinery, built on a virtual model of the equipment and process using real-time data.



# CONTACT US:

Incorporated in 2017, 4Sight is a JSE AltX (ticker: 4SI) listed, multi-national, diversified technology group. Our purpose is to leverage our extensive product and services portfolio, focused on 4IR 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 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 transformation solutions across industry verticals.

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