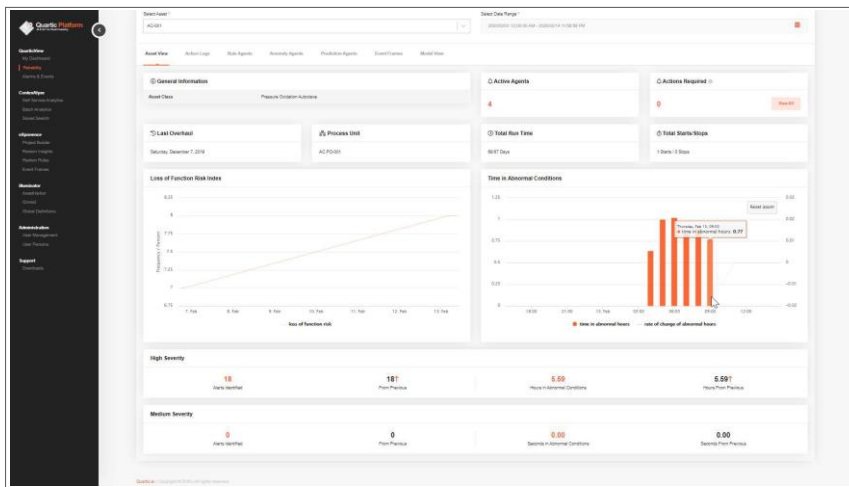


Reliability

Identify and quantify the risk to your equipment with early warning and avoidance of anomalies.

The Quartic AI Reliability Solution is a digital reliability-centered maintenance (RCM) implementation built on Quartic's Intelligent Operations System. The system connects to industrial OT (operational technology) systems, condition measurement systems, MES, and CMMS; contextualizes the data to an asset and allows users to build intelligent applications using machine learning and complex event (rules) processing. The system is designed for process experts with a configurable, no code / low code web interface.

Given the high user needs for asset reliability, and the lack of resources and time to build such applications, Intelligent APM is an off-the-shelf application built by Quartic AI for accelerated deployment and time-to-value.



Quartic AI Reliability provides a complete system to create AI agents to detect anomalies, quantify time in abnormal operation, and identify rate-of-change increases in failure modes to predict failures and manage the risk induced into your equipments' health and performance in real-time.

Benefits and Outcomes

- > Provides real-time, continuous measurement of Risk to Loss of Function of an asset caused by operational abuse.
- > Monitors the rate of change (trajectory) of overall risk and abnormal operation time to identify acceleration towards asset failure.
- > Identifies which incipient faults, and the root-cause factors, that are contributing to the risk score.
- > Make informed operational decisions to slow down the risk to loss of function and measure the impact of those decisions.
- > Plan and schedule evidence-based maintenance tasks.
- > Plan optimal spare parts inventory for critical assets.

Differentiators

Automated Machine Learning

Designed for purpose, autoML allows for focus on equipment and process expertise to build AI applications with no need for any coding or programming.

Unsupervised Anomaly Detection

Anomaly agents learn precise, baseline data patterns, and compare real-time sensor data against the baseline to identify abnormal operating conditions.

Predict Future Values and Outcomes

Using multiple variables from plant equipment and processes, predict future values and outcomes in to avoid or mitigate abnormal conditions.

Predictive Simulation

Run "what if" scenarios to experiment and determine operating conditions required for the desired outcome.