THE 3 OPERATIONAL OBJECTIVES SERVED BY ASSET PERFORMANCE MANAGEMENT (APM)

HONEYWELL FORGE

ABSTRACT

Companies need to move faster than ever before, and unpredictable disruptions based on labor, throughput and technology can quickly add up.

With data existing in multiple silos and software systems, many managers lack visibility into asset performance they underestimate unplanned downtime and are not agile enough to optimize their labor force creating unforseen bottlenecks. These are further compounded within discrete manufacturing sites and in aerospace repair and overhaul shops due to the need for specialized workers and assets that require high uptime and reliability.

Through consolidated performance metrics, actionable alerting and smart decision-making recommendations, APM solutions can drive portfolio-wide savings across multiple sites.

By enabling constant collaboration across operations and maintenance teams, organizations can avoid unplanned downtime and improve the utilization of their systems in real time throughout the day.

Advanced APM software can help facility, maintenance and supply chain executives uncover hidden efficiencies to achieve a better overall equipment effectiveness (OEE), increase throughput and improve quality to deliver a better customer experience.

Read on to learn the 3 operational objectives served by an APM solution.

3 OPERATIONAL OBJECTIVES SERVED BY APM

1 **Greater equipment uptime to deliver on commitments**

2 **Simplify and streamline workload to make jobs easier**

3 **Increase operational efficiency and throughput**

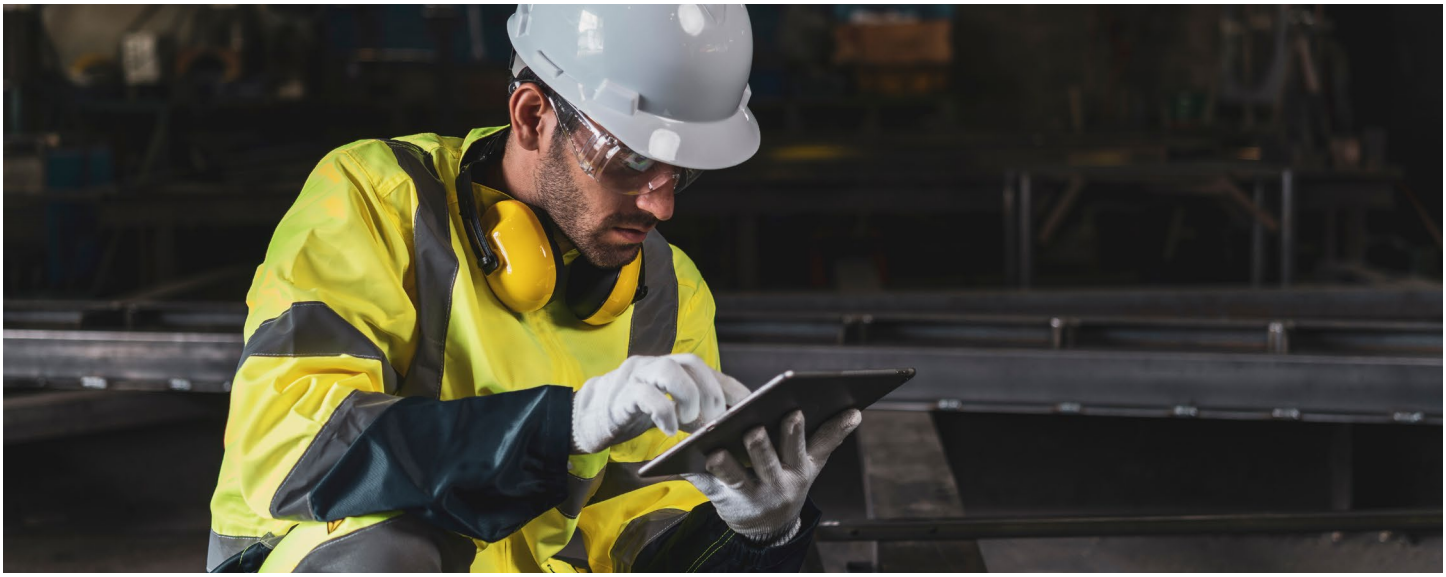
1 GREATER EQUIPMENT UPTIME TO DELIVER ON COMMITMENTS

An APM solution can provide continuous monitoring of OT (operational technology) equipment and process health to perform asset health, efficiency, performance, and safety-related calculations. Real-time monitoring of asset reliability, custom KPIs, and overall equipment effectiveness equip teams to predict potential failures that could impact the health of equipment, uncover the main variables driving these deviations from normal behavior and act before they occur.

Using powerful machine learning to identify patterns never before seen, users can investigate and classify behaviors and ingest back into the model this new knowledge to make it smarter over time without needing to be a seasoned data scientist.

OUTCOMES

- Prediction and prevention of asset failures.
- Reduction of maintenance costs and operation impact caused by unplanned downtime, associated idle labor, throughput loss and energy spend.
- Optimization of manufacturing process through digital simulation.



2 SIMPLIFY AND STREAMLINE WORKLOAD TO MAKE JOBS EASIER

APM solutions can close the loop between operations and maintenance by empowering employees with rich, actionable data insights to support simple root cause analysis and event resolution.

In addition, event-based work order generation, historical event and resolution history data helps reduce the chain of communications between the technician and maintenance manager, without additional technical training needed.

OUTCOMES

- Timely notifications of issues from management to field.
- Accelerated root-cause analysis.
- Ad-hoc field task creation.
- Real-time field task reporting and learning.
- Quick decision making and resolution between maintenance and technician personnel.

3 INCREASE OPERATIONAL EFFICIENCY & THROUGHPUT

APM Solutions can uncover hidden efficiencies by capturing and utilizing real-time, high-resolution data to increase industrial asset utilization.

Advanced analytics functions provide predictive monitoring capabilities to predict anomalies and events. Asset health and OEE can be monitored to expose in-trouble assets, allowing for prioritization based on criticality of the potential failure.

APM pulls multiple data sources into a single platform for performance monitoring across multiple departments and a common operating picture of an industrial facility, including:

- Instrumentation and machine data, including IoT devices.
- Process information or process data collected by automation data clients.
- Manually collected data.
- Facility historian data.

APM integrates this data to provide analytics, visualization and the support of third-party applications such as operations or maintenance systems. APM also takes in production quality to facilitate in optimizing the end-of-end productivity of an industrial process.

Analytics capabilities support the variety of users who need direct access to robust operational data and information in a summarized form to increase industrial productivity. Operational functions APM directly impacts are:

OUTCOMES

- Optimized throughput to decrease cost per part and meet promise dates
- Automation of legacy processes, capturing 1-3+ hours a day spent collecting, entering and reporting data on assets.
- Keep your team's attention focused on the most important job, safely and efficiently producing a high-quality product that will delight your customer and deliver on time.
- Improve business outcomes by impacting key operating indicators and resiliency.
- Lower maintenance cost machine downtime through performs predictive maintenance.
- Improve production quality and throughput.

CONNECT WITH US

We want to hear about the specific challenges your operation is facing within discrete manufacturing (repair and overhaul) for heavy industry.

GET IN TOUCH

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