Monitoring & Diagnostics

*Capture, monitor, and analyze critical infrastructure to make informed decisions.*

Executives and managers that own or operate complex, asset-intensive infrastructures face unprecedented change and are looking for a data-driven approach to help counteract these challenges.

- **INEFFICIENT PLANT OPERATIONS:** Ongoing efficiency and operational issues, strain plant operations, and eat away profits.

- **EQUIPMENT FAILURES:** Failing equipment that goes unmanaged and unmitigated causes expensive production shortages, unplanned downtime, and higher repair costs, reducing profit competitiveness.

- **AWARENESS OF BUSINESS PERFORMANCE:** Plant operators lack a facility-wide view of their infrastructure performance. Without proper technology in place, plants face increased risk associated with equipment failures, unplanned shutdowns, and increased maintenance costs.

- **INCREASING COMPETITION:** Plants operate in competitive environments (regulatory, market, or technology-driven) that continuous demand improvement where new tools and technology are needed to keep pace.

- **AGING WORKFORCE:** New tools and processes are needed to combat the ongoing exodus of retiring employees and their accumulated knowledge.

Your data is telling you so much – listen to it.

**Atonix Digital™** Monitoring & Diagnostics is a cloud-based data analytics product built off our secure asset performance management (APM) platform. The product is proven to increase asset availability, efficiency, and operational excellence. Monitoring & Diagnostics combines a precise blend of the industry domain expertise and machine learning to optimize assets in critical infrastructure intensive industries. The product facilitates the detection and mitigation of emerging problems to reduce uncontrolled impacts on performance, operations, and maintenance teams, and budgets.

Monitoring & Diagnostics helps owners and operators avoid disruption and inefficiencies to maximize the profitability of their infrastructure assets. It applies proven machine learning, advanced pattern recognition (APR), and problem remediation tools to an asset’s operating data and work processes to prevent costly equipment and operational failures. The product alerts users to abnormal behaviors in data, simplifies validation and streamlines cross-functional teams to prioritize and facilitate their resolution.

Atonix Digital’s Monitoring & Diagnostics product simplifies adoption and success for companies pursuing digital strategies by employing software and techniques proven across many industries. We follow strict security transfer protocols and have done so successfully across hundreds of facilities across many different industries and processes.

The product can operationalize thousands of math models and scenarios across a diverse set of assets in as little as a few weeks after purchase. Continuously running machine learning and math models allows our customers to demonstrate a significant return on investment in a matter of months.
To date, Atonix Digital Monitoring & Diagnostics has been deployed at 100’s of facilities and has accounted for nearly $150 million in risk-weighted avoided costs to our customers.

Key Benefits

- DRIVE OPERATIONAL RELIABILITY & EFFICIENCY: Maintain and improve the reliability, availability, and efficiency of equipment and assets, which improves operational efficiency and increases profitability.

- PREVENT UNPLANNED SHUTDOWNs: Provide early detection and quantification of emerging issues to identify risks and stop unplanned shutdowns.

- REDUCE ROUTINE MAINTENANCE & OVERALL MAINTENANCE COSTS: Manage and reduce maintenance costs by proactively identifying equipment issues to advise your maintenance and repair practices.

- SIMPLIFY COLLABORATION: Facilitate collaboration and issue management to solve problems, capture critical information, and report progress in a single, web-based environment.

- DELIVER RAPID, QUANTIFIABLE ROI: Customers typically recoup a return on investment (ROI) within months after deployment, which usually takes two months or less.

- REDUCE AGING WORKFORCE IMPACT: Automate repetitive tasks through a structured knowledge transfer workflow with advanced monitoring, data management, and collaborative tools.

Key Features

- INDUSTRY SPECIFIC TEMPLATES: Ensure project success by deploying industry-standard calculations, models, and templates developed from 20+ years of experience in performance, reliability, and monitoring and diagnostics.

- RAPID ANOMALY IDENTIFICATION & RESOLUTION: Learn from proven machine learning techniques and analysis that mitigate risk while balancing costs and benefits.

- CENTRALIZED ALERTING, DISCUSSION THREAD, & SCORECARD: Collect, analyze, diagnose, and visualize all asset data critical to the health of your asset-intensive infrastructure – all in one place.

- RISK OF FAILURE & IMPACT CALCULATOR: Leverage the risk of failure and impact calculators to inform and prioritize maintenance planning.

- REAL-TIME, CUSTOM DASHBOARDING & REPORTING: Dashboards help inform decision-making and help maximize operational performance and overall plant efficiency.

- HOLISTIC MANAGEMENT OF ISSUES & ALERTS: Review, manage, and document issue resolution by leveraging embedded and intuitive workflows. Prioritization level and status, along with email integration, ensure seamless adoption for busy, cross-functional teams.

To learn more about Atonix Digital™ and our Monitoring & Diagnostics product, visit:

[Links to Atonix.com and Social Media channels]