

Digital

Maintenance AI

Transforming Industrial Reliability Through Human-AI Collaboration

THE CHALLENGE

When critical factory assets go down, the impact isn't just local - it cascades across production, supply chains, and customer service. It's not uncommon for major equipment failures to cost seven figures per day in lost revenue and productivity.

Traditional maintenance has always been inherently reactive: wait for something to break, then fix it. But in today's high-stakes industrial environments, that model is no longer sustainable.



THE SOLUTION

Presidio Maintenance AI flips the status quo on its head. It's an intelligent agentic assistant that blends real-time asset data with advanced large language models (LLMs) to predict asset failures before they happen. Designed for manufacturing, automotive, food processing, and other asset-intensive industries, the solution empowers frontline workers, engineers, and plant managers to make faster, smarter maintenance decisions that align with business goals.

Maintenance AI shifts your approach from reactive firefighting to proactive, predictive reliability. Detect potential failures while keeping assets running at peak performance and profitability.

HOW IT WORKS

The solution blends artificial intelligence with human expertise to:

- ◆ Maximize uptime and throughput.
- ◆ Reduce emergency interventions and unplanned downtime.
- ◆ Optimize resource allocation and maintenance costs.
- ◆ Enhance safety compliance and operational resilience.

Maintenance AI

CAPABILITIES

PREDICTIVE AND SCHEDULED MAINTENANCE

- ◆ Supports multiple maintenance modes and dynamically adapts to operational priorities.

WEIGHTED GOALS-DRIVEN INTELLIGENCE

- ◆ Allows users to assign priorities to objectives such as uptime, cost optimization, safety, and asset longevity, ensuring AI recommendations are strategically aligned.

ASSET-SPECIFIC INSIGHTS

- ◆ Integrates seamlessly with plant layouts, zone-specific dashboards, and a variety of assets like rotating equipment, CNC machines, control systems, and material handling assets.

HUMAN-AI COLLABORATION

- ◆ Augments technician and engineer expertise by providing actionable insights, diagnostics, and predictive guidance - enhancing decision-making **without replacing human judgment.**

INTUITIVE USER EXPERIENCE

- ◆ Role-based dashboards, natural language queries, mobile accessibility, and multilingual support make the agent easy to use for all levels of personnel.

COMPREHENSIVE PERFORMANCE METRICS

- ◆ Tracks KPIs such as prediction accuracy, failures prevented, downtime hours, Remaining Useful Life (RUL), Mean Time to Repair (MTTR), compliance rates, and cost per incident, providing actionable insights across plant zones and over time.

BUSINESS VALUE BENEFITS

Early adopters report measurable improvements: faster response times, more proactive maintenance, and higher asset uptime - effectively providing 24/7 access to domain expertise.

- ◆ Reduce unplanned downtime by 20–30%
- ◆ Improve Mean Time to Repair (MTTR) by 15–25%
- ◆ Lower maintenance costs by up to 20%
- ◆ Increase technician productivity and safety compliance
- ◆ Enable data-driven, strategic decision-making aligned with operational goals

WHY PRESIDIO

Presidio is here to guide your business transformation journey by helping you carefully navigate the fast-changing tech landscape. As the bridge between where you've been with foundational IT, and where you're going with modern AI and cloud services, we measure success with you on the terms you define. We strive to build lifetime relationships with each of our customers, and we do so by being fearless, fast, flexible, and compassionate. It's our mission to earn your trust and deliver innovative, high-quality outcomes at speeds once thought not possible, so you can achieve your business goals faster.

GET STARTED

Schedule an Invoice Management Workshop with Presidio's expert Manufacturing solutions team.

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