

UptimeAl Expert Operational Excellence [OEx] Platform

Move Beyond Predictive Alerts—Achieve Autonomous Operational Excellence

WHY TRADITIONAL TOOLS FAIL



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Static Alerts, Zero Action

Legacy systems drown teams in vague warnings without root-cause insights.

Siloed Data

Disconnected tools prevent holistic diagnostics (e.g., linking compressor vibrations to process inefficiencies).



Manual AI Training

Months wasted building custom models for basic failure detection.



Knowledge Silos

Retiring SMEs take decades of expertise with them.

UptimeAI fixes this within 90 days.

TAKE CONTROL OF ASSET RELIABILITY & PROCESS EFFICIENCY

UptimeAl Expert OEx Platform is not just a predictive maintenance tool—it's an **agentic Al platform** that diagnoses, prescribes, and learns autonomously to transform operational performance. Designed for reliability engineers and plant managers in heavy industries, it unifies asset health, process optimization, and tribal knowledge into a single, self-improving system.

FEATURE SUMMARY

Agentic Al Core

Autonomous Diagnostics: Self-learning Al identifies why failures happen (e.g., fouling in heat exchangers, misalignment in compressor or pumps) and prescribes fixes.

1,000+ Pre-Trained Failure Modes: Built for rotating machinery, static assets, and process units across industries like refining, cement, and power.

Context-Aware Models: Real time operational adjustments drive our AI models to help balance reliability and performance (e.g. refinery crude mix, kiln temperature adjustments) to balance reliability and throughput.

Unified Platform Advantages

Cross-Asset Intelligence: Works seamlessly on pumps, compressors, distillation columns, and more—no siloed models.

Dynamic Knowledge Retention: Encodes tribal expertise into AI workflows and failure modes with suggested remediations across the entire site accessible by every plant engineer.

Zero-Code Customization: Plant Engineers can self-modify, retrain and create new Al rules for unique assets without the support of data scientists.

Proven Impact

30-50% Faster Downtime Resolution: Reduce MTTR with prescriptive recommendations and failure timeline for plant engineers.

10-15% Energy Cost

Savings: Al Expert helps operations team achieve true operational excellence by reducing fuel combustion &, steam usage, while load balancing for most critical assets.

90% Fewer Low-Value Alerts: Prioritize risks that impact the plant output and bottom-line.

Rapid Time-to-Value: Deployment within 4-6 weeks with measurable ROI in the first quarter of operation.

UPTIMEAI STARTS DELIVERING IN 4 SIMPLE STEPS



INDUSTRY-SPECIFIC SCALABILITY ACROSS MULTIPLE VERTICALS





Refining

Al Expert identifies inefficiencies in steam headers and fuel gas networks, suggesting corrective actions to enhance energy utilization

Cement

Reduce kiln downtime via Al-driven refractory wear forecasting.

Power

Extend asset life through proactive monitoring of generator winding insulation health.

Metals

Detect gearbox misalignment and rolling mill bearing degradation, preventing catastrophic failures.

Chemicals

Identify pump cavitation and valve malfunctions, preventing pressure fluctuations and ensuring stable production.

Renewables

Detect inverter and panel degradation in solar farms, enabling timely replacements to sustain power output.

WHY UPTIMEAI ≠ FRAGMENTED & VERTICAL FOCUSED AI SOLUTIONS

Feature	UptimeAl Expert OEx	Legacy Al Tools
Al Approach	Agentic, self-learning	Static, rule-based
Root-Cause Analysis	Explains why (e.g., bearing wear + lube contamination)	Flags when anomalies occur
Deployment	Weeks (pre-trained industry templates built by SME Experts)	Months (custom models)
Cross-Asset Coverage	Rotating, static, electrical, and process units	Limited to specific equipment types
Knowledge Retention	Automatically codifies tribal expertise	Relies on manual documentation



UptimeAI delivers \$13M in Reliability Savings for a Midstream Refinery

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