

# Predictive maintenance (PdM): stop costly downtime early

Detect, diagnose, and act on AI recommendations — Predictive Asset Intelligence, powered by IRIS Foundry.

## ! The problem

Reactive maintenance and siloed data let failures surface late



### Siloed asset data

SCADA, historian, and CMMS data stay disconnected, hiding early warnings



### Reactive maintenance

Time-based schedules and manual rounds miss the first signs of failure



### Unplanned downtime

Every surprise stoppage cuts throughput, safety margins, and asset life

## ✓ The answer

Predictive maintenance flags risk early and guides teams to act



### Unified asset data

IRIS Foundry unifies plant data into one governed, contextualized model



### Early warning detection

Multi-modal AI flags anomalies days ahead across vibration and process



### Proactive, guided action

Root-cause advisories tell teams what to fix and when, extending uptime

## Outcomes that matter

Trusted by **manufacturers**

**20-50%**

Less  
unplanned  
downtime

**10-30%**

Output  
gain

**1-5%**

Yield  
gain

**12 wks**

Time  
to first  
value

# The PdM advantage

Layered predictive AI on one governed data foundation  
— detect, diagnose, and act before failures happen.

## Platform components

### IRIS Foundry

Unifies SCADA, historian, and CMMS data into one governed, contextualized asset model with prebuilt templates and connectors, so models run on live, trusted data

### Predictive AI engines

Multi-modal anomaly detection, machine reasoning root-cause engines, a prescriptive failure mode and effects analysis (FMEA) library, and asset health scores flag risks early and recommend fixes

### ML Studio and Industrial Copilot

Build, deploy, and retune predictive models without code, and ask plain-language questions to get instant answers, forecasts, and reports from plant data

## How it works



#### 1. Detect

Multi-modal AI watches vibration, process, and equipment data in real time, flagging anomalies days before failure



#### 2. Diagnose

Machine reasoning engines map anomalies to failure modes and pinpoint root causes in minutes instead of days



#### 3. Act

Prioritized advisories and IRIS Flows agents tell teams what to fix and when, and route the work into your CMMS

## Why SymphonyAI for industrial?

- **Proven scale:** 3PB/year of industrial automation data processed across deployments
- **Contextualized AI:** Industrial LLM and role-based copilots tuned for manufacturing personas
- **Accelerated value:** Fast onboarding, flexible deployment, and blended models for actionable insights

## See it work on your assets

Get a personalized walkthrough with your own asset data

Schedule your  
PdM demo