

# Unlocking industrial data to detect and prevent performance issues before they happen.

Digital transformation within industry should be lean, fast, and valuable. And for most, it isn't.

INCREASE THROUGHPUT

IMPROVE QUALITY

REDUCE DOWNTIME

## PRAEMO COMPANY OVERVIEW

**Praemo fills the critical gap in industrial productivity** by leveraging analytics to transform **under-utilized data into operation-critical insights**. Analyzing a company's disparate IoT and operational data, Praemo's Razor™ software **alerts to any anomaly with the potential to harm performance** – providing insights to prevent it.

### RELEASE INSIGHTS BURIED IN DATA.

As issues begin to emerge, operators are **alerted immediately – with precise insights on how to mitigate** future problems. The result?

- Equipment shutdowns, quality defects – prevented
- Early warning – before damage is done
- Visibility to the activities that can hinder performance
- ROI-driving insights reducing cost & risk everywhere – 24/7

### BY INDUSTRY. FOR INDUSTRY.

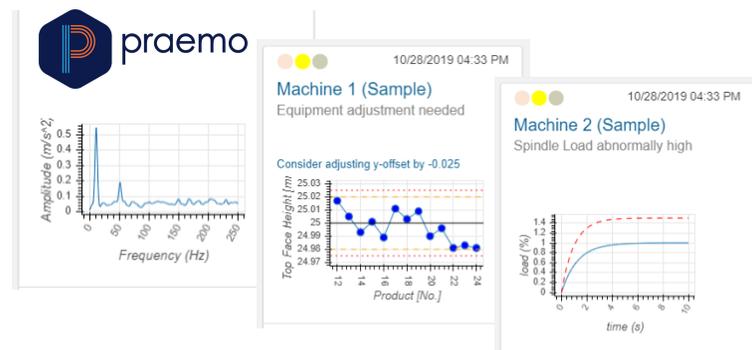
Founded by domain experts with **careers forged in industry**, Praemo **equips any operation** – regardless of vertical – to harness their data for compelling advantage, to thrive in Industry 4.0.

## RAZOR™ AI/ML ENGINE FOR INDUSTRY

Razor™ is a prescriptive analytics engine designed for industry that leverages AI and Machine Learning to **detect and deter issues that degrade performance**.

Attaching to a company's IoT and operational data systems, Razor™ **mines for anomalies and trends that signal any deviation from baseline performance**. Alerting the operator to the potential issue, Razor™ then **recommends specific actions to preempt future consequences**. Running silently in the background, Razor™ requires minimal intervention – simply alerting with a "tap on the shoulder" when action is needed.

With lean, rapid integrations, Razor™ allows operators to stay focused on operating – not crunching numbers. Razor provides actionable insights of **what to counter-act before it escalates** and **where to focus** as potential disruptions are identified in real-time.



# DETECTING, PREDICTING, & MINING FOR INSIGHTS TO IMPROVE OPERATIONS



## Razor unlocks insights with a two-phased approach:



- 1. Historical data:** develops models without impact to operations.
- 2. Real-time data:** integration to systems, and learning reinforcement/anomaly detection.

**Razor™ is not a platform** - it is an **analytics engine**, with the ability to connect to your existing platforms/systems (SCADA, MES, CMMS, ERP)

Establishes real-time data connection **without costly "harmonization"** - taking industrial data "as is", "where is"

**Examines historical data** to identify expected behavior, detect anomalies, model current & future behavior

**Analyzes machines, sensors, production rates, events,** timing, behavior patterns, trends & more

**Detects and predict future events** with analytical models to estimate and alert to likely behavior

**Continuously improves with Machine Learning** by enhancing models with all new feedback collected

Giving a voice to operational data, driving profitable insights

## FROM IIoT, TO AIoT

What Industry 4.0 has been waiting for is here at last.

The connected, data-driven operation – unlocked, delivering its full potential. **Striking back against any hint of sub-par performance before it even happens**, staying ahead of anything and everything that might harm productivity. Dialed into the pulse of the operation, hearing it **voice symptoms of future points of failure** - in time to act first.

Born of and built for where Industry 4.0 must evolve next, Praemo is ushering in the shift to AI-powered IoT (AIoT) where data rises to a vital force powering sustained competitive advantage.

**Get started today.**

## RESULTS

With Razor™, industrial operators fully utilize their data to:



**Recognize early faults that predict machine failures or line shutdowns** - allowing for proactive maintenance to save cost, avoid delays or downtime



**Identify root causes to improve quality and consistency** - reducing waste, defects or costly variability through the most efficient use of resources



**Eliminate uncertainty across decisions** - make accurate projections across yields, schedules, and key targets armed with intelligence on every contributing factor



**Zero in on any aspect of operational waste** - with clear, granular detail for how every task should take place, with corrective action for optimal performance