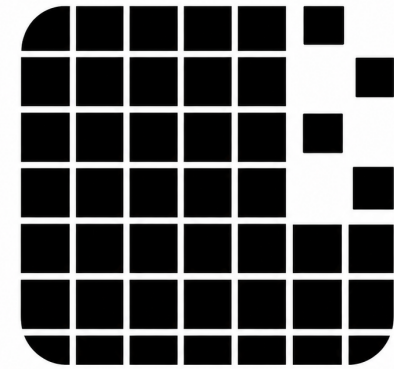




THE ENTERPRISE AI JOURNEY NEEDS



RASTRAITM
Since 2023

ROBUST, ADAPTIVE, SUSTAINABLE, TRUSTWORTHY, AND RESPONSIBLE ARTIFICIAL INTELLIGENCE.

RASTR IQ™

The shop floor manager logs in. The plant explains itself.

Asset intelligence for manufacturing plants. RASTR IQ reads live signals off the floor, isolates every sensor individually, and tells the operator what is failing, when, and why — in language the operator already uses.

INTEGRATION

Sits on **SCADA** as an observer — no rip-and-replace, no new instrumentation, live data from day one.

WHO BUYS IT

Plant operations — not the data-science team

01

Conditional Monitoring

Failure predicted from signal behaviour, not from a fixed service calendar.

02

Remaining useful life

RUL per asset, so maintenance and capital spend can be sequenced.

03

Sensor-level isolation

Each sensor observed and identified individually against live plant data.

04

Reasoned diagnosis

Detected defects come with detailed reasoning — the operator sees why, not just what.

Chat interface + DIY solutions

- 05 Operators interrogate the plant conversationally and build their own solutions — adoption without a services queue.



RASTRAI

RASTR IQ · INDUSTRIAL ADVANCED CONDITIONAL MONITORING AND RECOMMENDATION SYSTEM

RASTR IQ

An end-to-end predictive maintenance platform for industrial assets.

RASTR IQ turns live sensor streams from factory machines, pipeline segments and utilities into asset health scores, failure predictions and clear maintenance actions — all in one self-contained workspace backed by a streaming API.

Factory machines

Pipeline segments

Utilities

A live workspace, not a static report — the same UI ships on top of the production streaming API.

EXAMPLE ASSET READING

SEG-06 · Pipeline segment ● CRITICAL

HEALTH INDEX

16 / 100

ANOMALY SCORE

0.84 0–1

REMAINING LIFE

~0 hours

FAILURE MODE

Blockage
detected

HOW IT WORKS

One platform, from signal to fix



Unified Asset Dashboard

Fleet-wide health index, anomaly score, remaining useful life and criticality for every asset.



Live Data Ingestion

Real-time sensor streaming via OPC UA, MQTT or Modbus over a CORS-enabled REST API.



Recommendations Engine

Hybrid diagnosis (SLM + Deterministic) out of the box; for deeper reasoning.



AI Maintenance Assistant

Ask why an asset is degrading and which sensor contributed most — in plain conversation.

FOUR CUSTOM SENSOR
INTELLIGENCE FOR
CONDITIONAL MONITORING

ADVANCED AI POWERED
RECOMMENDATION
AND REASON OF FAILURE

AI MAINTENANCE
ASSISTANCE
NATURAL LANGUAGE CHAT



Ontology-Powered Fix

Every recommended fix is grounded in a Companies knowledge graph.

RASTRIQ maps each diagnosed fault onto an ontology of assets, components, sensors and failure modes. A health alert stops being a raw score and becomes a specific, traceable recommendation that the operator can apply — with the reasoning path from symptom to cause to action made explicit.

Monitor and Alert



RUL + Anomaly



Reason



Recommend ✓

AI that survives production.