

Smart Metals Manufacturing



falkonry

Line-scale automated condition monitoring



Early warnings

Discover actionable anomalies with minimal analysis effort



Proactive actions

Condition-based actions before they impact the production



Fully automated

No set-up and training required. Perform plant-scale live monitoring

Metal makers using Falkonry throughout plants



Continuous Caster

Problem: Lost revenue due to unplanned downtime from unanticipated equipment failures.

Solution: Get advance warnings of possible failures. Time series AI can detect patterns in caster operating parameters that precede failures.

Benefit: Weave inspections or repairs into the production schedule thus avoiding unscheduled production downtime and revenue losses.



Hot Run Tables

Unidentified motor failures or jammed rollers cause surface defects on passing strips/plates

Monitor hundreds of motors and couplers simultaneously, in real time, to detect the emergence of precursor conditions to failure

Early diagnosis of precursor conditions helps avoid quality defects in the steel surfaces



Rolling mills

Variability in rolled metal requires identifying factors that contribute to surface defects or strip breakage

Monitor parametric data from multiple sources to identify signal conditions that introduce surface defects

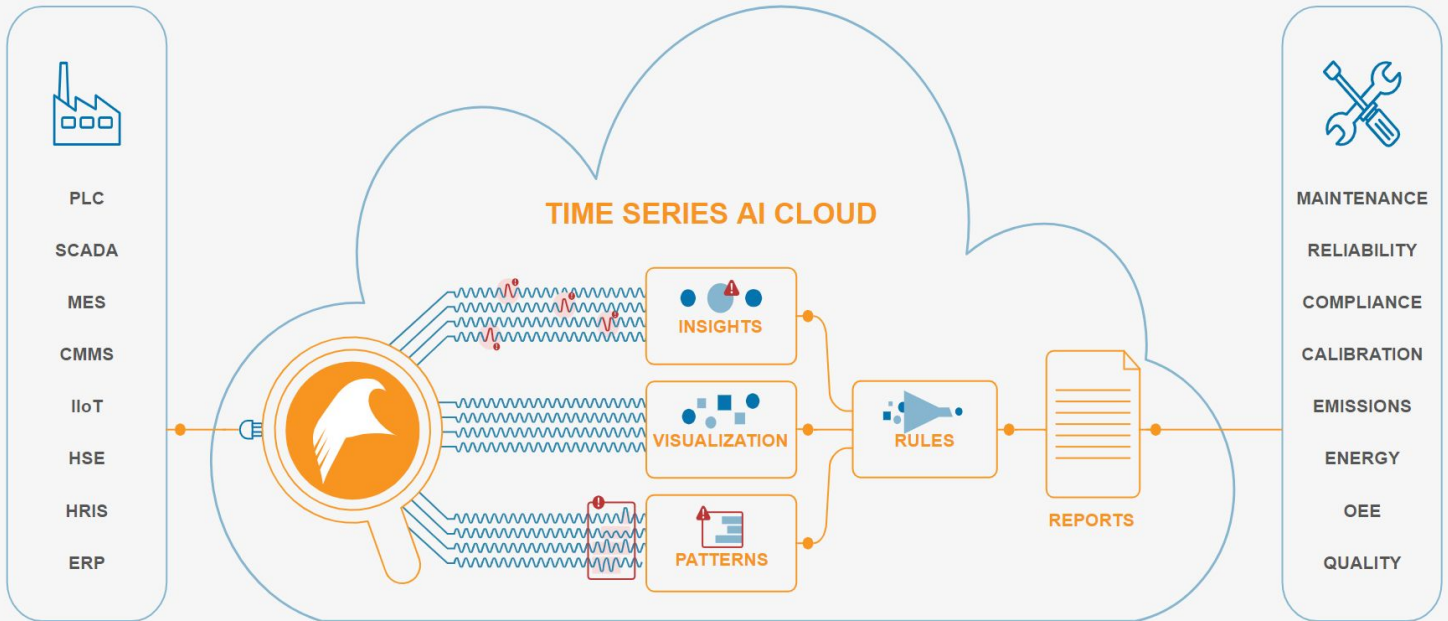
Gain deeper insights on gradual and unnoticeable deviations in equipment performance. Minimize equipment failures & surface defects.



"With our asset performance management solution, powered by Falkonry's Time Series AI, Ternium operations teams receive actionable warnings before an event could impact the business."

Roberto Demidchuk
CIO at Ternium

Falconry Time Series AI Cloud is data-ready, no set up required



Customer Success: Early Fault Detection and Resolution at Plant-Scale

A leading North American steel manufacturer deployed Falconry Time Series AI to continuously monitor the operations in the melt shop, hot mill and, finishing mill for early detection and diagnosis of real-time operational anomalies that impact productivity.

Within a period of one month, the line personnel developed trust in Falconry's findings and took proactive interventions to prevent unplanned downtimes and surface quality issues.

BENEFITS:

- Fully Automated AI, **no setup** required
- **Condition-based actions** on operational inconsistencies
- Time to **value within weeks** of deployment
- **Scalable** approach that applies to entire plant and multiple sites

RESULTS:

Prevented production losses worth \$285,750 per incident

Productivity increase ~ \$4.5 mn / yr



Tell us your challenge, we're here to help: **Let's Talk**