AI Copilot for Chemicals Manufacturing

falkonry

Gain operational reliability and productivity with Automated AI

Avoid events *before* they impact the production

Timely, actionable alerts
Discover and understand real-time operational anomalies across the plant

Capture operational knowledge
Connect engineering know-how with production performance

Effortless start-up & scale
Operationalize and expand with minimal resources, time, and effort

➤ Benefits across Chemical manufacturing operations

|	Safety and Compliance	Predictive Maintenance	Predictive Quality
Problem:	Sensing approaches detect but do not adequately predict emissions violations.	Rule-based methods do not give an accurate early warning of impending compressor failure	Lab based quality checks result in long periods during which process may be out of control.
Solution:	Discover anomalies in operational data which precede unsafe operating conditions and find the root causes of the issues	Discover early signs of increasing vibrations and identify causal factors to expedite the resolution	Utilize operational data to discover patterns indicative of low product quality. Diagnose root causes using pattern information.
Benefit:	Act before non-compliance and prevent losses from regulatory fines, equipment damage and downtime costs	Increase availability by lowering unscheduled downtime. Reduce maintenance costs through better scheduling.	Avoid losses from late detection of poor processing conditions. Improve availability through faster time to problem resolution.

> *"Progress has been really really strong.*
> *...have proven that we can extract value from data, do predictions and monitoring"*
>
> ***Process Control Lead***
> ***Top 10 polyester manufacturing company***

Falkonry Solution Framework
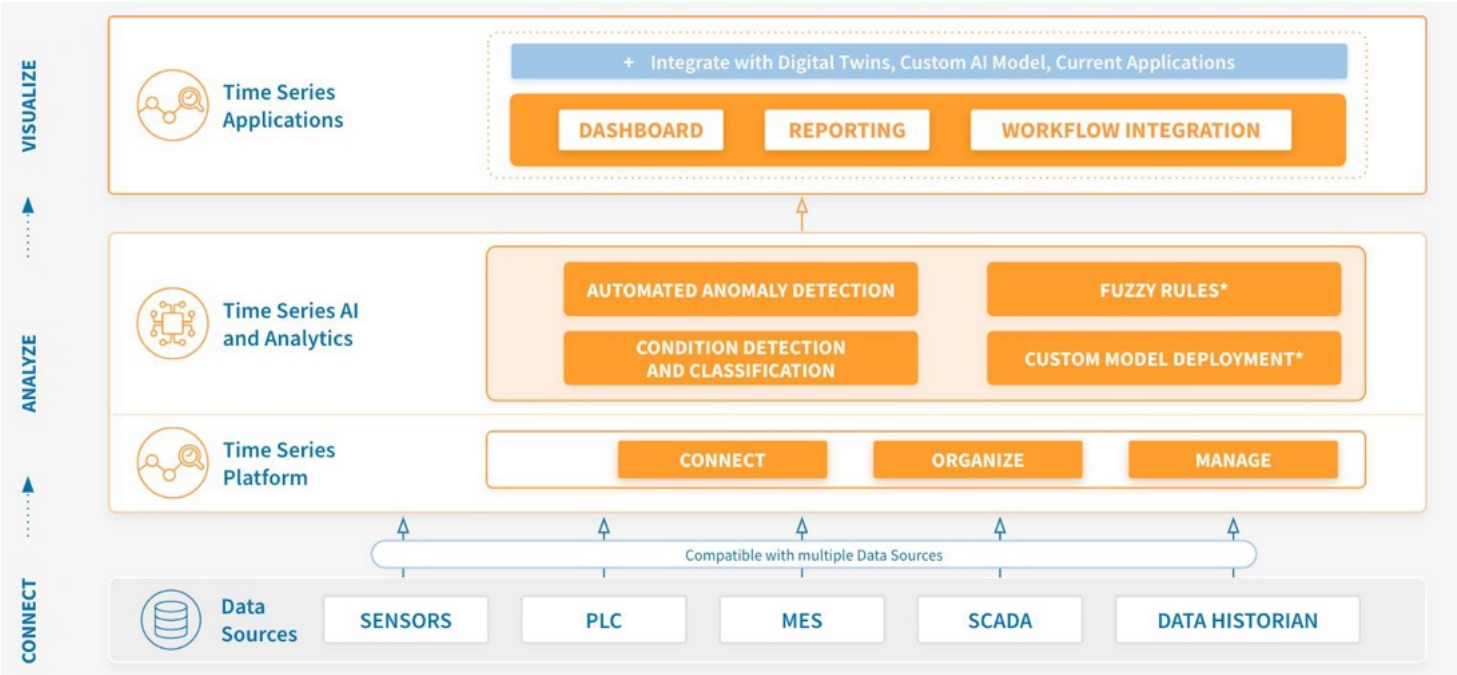
Case study: Condition-Based Maintenance

> $285,000 / event
Plugged centrifuges stop production

10 days
Advance warning

Understand
root causes for
timely prevention

Optimize
scheduled
maintenance

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