AI Copilot for Oil & Gas Operations

falkonry

Automated and scalable time series AI for reliable operational monitoring

Avoid disruptions *before* they impact production

Timely, understandable alerts

Discover and understand operational anomalies as they occur

Rapid time to action

Resolve issues in a timely manner using root cause explanations

Effortless activation & scale

Operationalize and expand with minimal resources, time, and effort

Benefits across Oil & Gas value streams

Operations Monitoring

Predictive Maintenance

Emissions Compliance

Problem: Existing rules-based systems do not provide complete visibility of operational integrity to remote monitoring centers

Production loss from unplanned slowdowns or component failures

Failure of flaring assets could lead to toxic gases discharged into atmosphere

Solution: Establish direct connections to well and production data sources. Automatically receive AI analysis alerts for conditions that may impact operations.

Get actionable early warning of system degradation and perform rapid root cause analysis for planning corrective actions

Remotely monitor flaring conditions and identify precursors leading to component failures

Benefit: Remote monitoring at scale (~ 10^6 signals), proactively act on anomalies and plan downstream actions

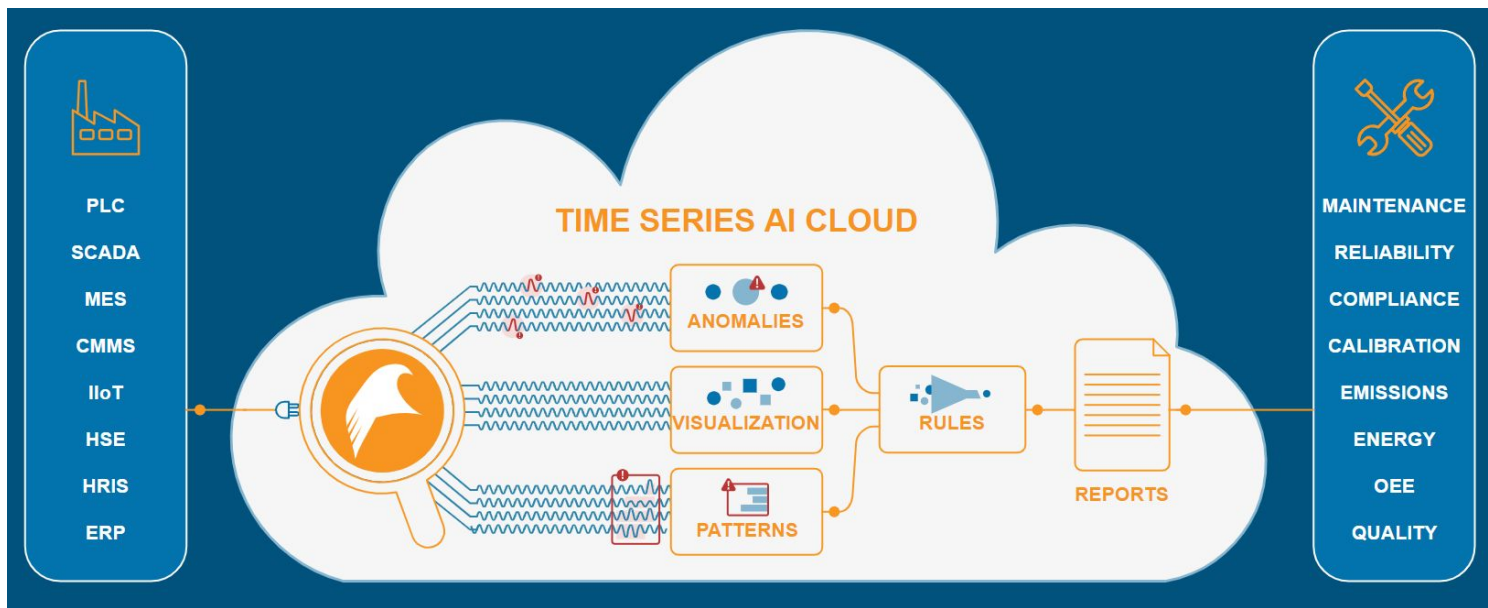Minimize asset downtimes and increase maintenance efficiencies

Meet safety regulations, avoid downtime costs

> *Our LNG fleet operations generate a lot of data and we needed a solution that could scale across multiple use cases and asset types. Falkonry enabled us to optimize maintenance, avoid downtime and expedite repair."*
>
> **VP of Information Technology & CIO**
> **Offshore Oil and Gas Production Company**

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

TIME SERIES AI CLOUD

Inputs		Outputs
PLC	ANOMALIES	MAINTENANCE
SCADA	VISUALIZATION	RELIABILITY
MES	RULES	COMPLIANCE
CMMS	PATTERNS	CALIBRATION
IIoT	REPORTS	EMISSIONS
HSE		ENERGY
HRIS		OEE
ERP		QUALITY

Case study: Real-time Equipment Health Monitoring

Compressor fails   >>>   Insufficient warning   >>>   Production loss and delayed recovery

Monitor: 50+ time series signals from **multiple stages** of gas compression
Observe: Discover the onset of compressor degradation **4 months in advance**
Act: Get alerts about increased vibration patterns **9 days prior** to rotor failure

✅ Unattended AI: No setup and manual data analysis effort

✅ Reliable smart alerts build trust in the AI detection

✅ Built for scale: 0 to 10^6 live signal monitoring in less than 2 weeks

✅ Time to value in < 6 months

9 DAYS ADVANCE ACTIONABLE DETECTION

$300,000 PER INCIDENT **DOWNTIME REDUCTION**

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