# Smart mining operations

falkonry

## Automated time series AI for continuous operational reliability

### Quick time to value

Automatically discovers actionable anomalies and alerts the operational users

### Built for operations

Operational users diagnose and act on anomalies before they impact the production

### Flexible & Scalable

No set-up and training required. Scale the AI for monitoring the entire mining value chain

## Mining operators use Falkonry across value chain

### Crusher

**Problem:** Mills incur high cost in lost production due to preventive maintenance (PM) cycles.

**Solution:** Use equipment signals to understand current equipment condition, and schedule maintenance only as-needed.

**Benefit:** Increase mill production uptime by reducing unnecessary maintenance periods and converting preventive to predictive maintenance.

### Vertical Mill

Fluctuations in ore grade causes blockage in mill and results in work stoppage.

Discover anomalies in operational data associated with material variations and provide alerts.

Early warning allows suspect material to be tracked, grinding speed to be adjusted and downtime avoided.

### Ore Grading

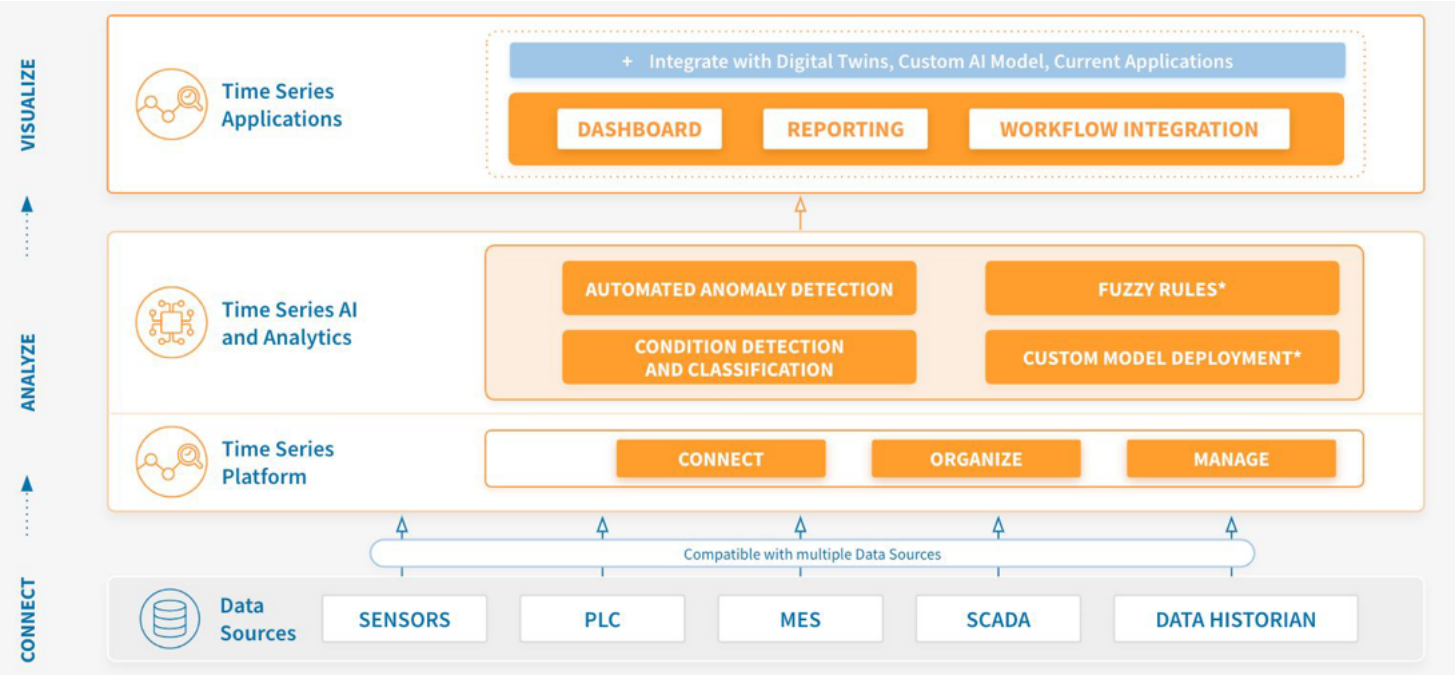
Concentration & recovery targets are missed as operators react to changes in incoming ore composition.

Analyze data from composition assay to classify ore into groups. Correlate these groups to best operating conditions.

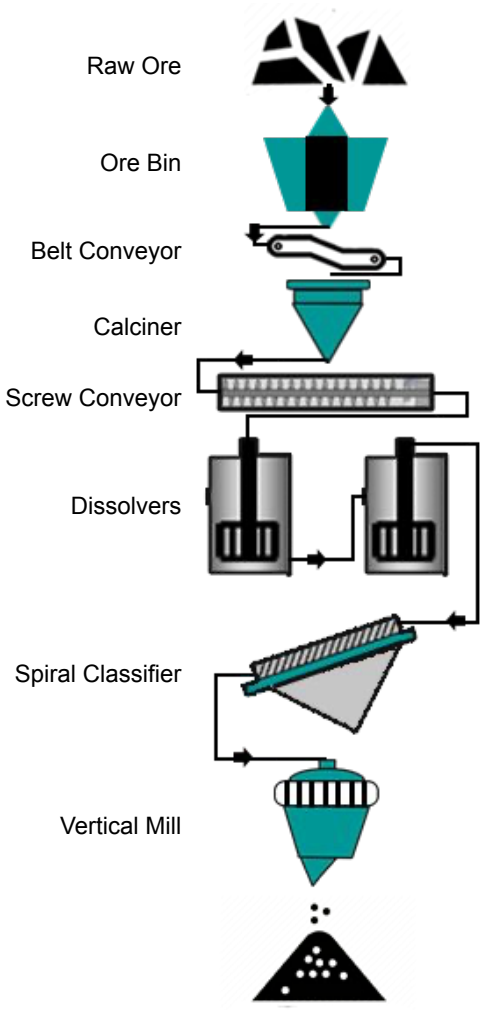
Proactively set process parameters to match incoming ore, increasing time that circuit operates on target.

**Learn more and request a personal demo on www.falkonry.com**

# Falkonry Solution Framework




## Case study: Global mining company




**$900K** annual cost saving for 1 facility

Detect warning signs before Vertical Mill fails

Stage 1: Condition monitoring of equipment wear and tear to perform maintenance only as-needed

Stage 2: Classify ore groups using composition assay data to enable operators proactively set process parameters

Stage 3: Provide early warning on discovery of suspect low-grade ore to prevent vertimill blockage and shutdown


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

falkonry