

falkonry

Operational Machine Learning Use Cases

Benefits of Operational Machine Learning

Operational machine learning leverages underutilized operations data, and provides insights that can significantly improve uptime, quality, performance, or safety.



Use Cases Across Industries



Oil & Gas Operations

- Detect pre-shutdown patterns
- Early warning for off spec product



Mining & Metals Production

- Discover equipment downtime patterns
- Real-time production throughput adjustment



Power & Energy Operations

- Fault classification of power electronics
- Distributed asset monitoring



Chemical Manufacturing

- Real-time batch quality prediction
- Monitor equipment health



Semiconductor Manufacturing

- Predictive maintenance of equipment
- Optimize machine utilization

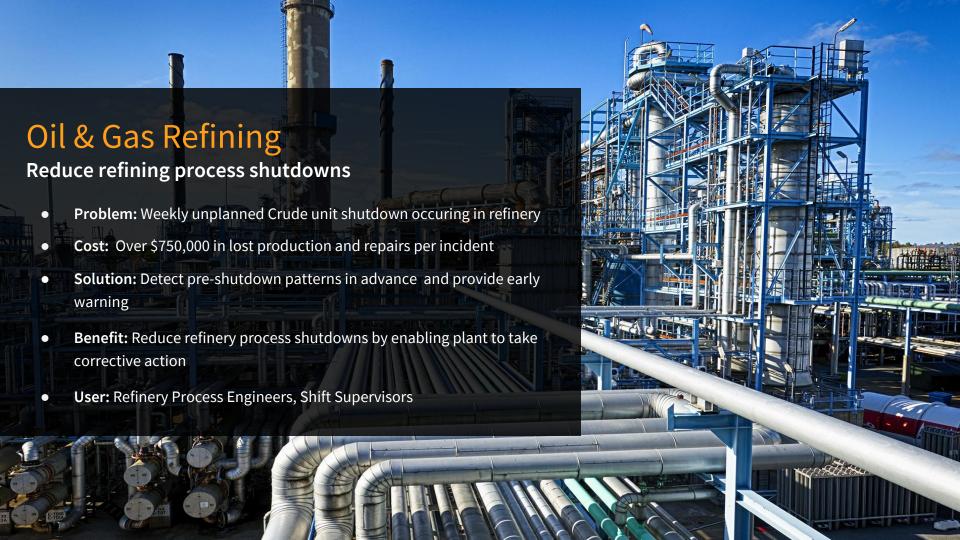


Automotive Manufacturing

- Detect deviations in discrete manufacturing
- Real-time quality estimation of welding





























Oil & Gas Production

Detect and prevent dangerous emissions during drilling operations

- Problem: Volatile organic compounds (VOC) and Carbon Dioxide released during oil & gas extraction
- Cost: Loss of production and regulatory fines per incident, in addition to potential reservoir damage
- Solution: Detect patterns that precede potential emissions and provide an advance alert
- Benefit: Identify and prevent operating conditions leading to increased emissions
- **User:** Production Engineers, Facilities Engineers





Ready to See Operational Machine Learning in Action?

Discover how Falkonry can help you improve throughput, quality, yield, and safety in your operations.

REQUEST A DEMO