falkonry

Smarter **Pharma** Manufacturing

Automated time series AI for enhanced operational reliability and quality

Address disruptions *before* they impact plant operations

Timely, actionable alerts

Discover & diagnose real-time anomalies stemming from operational issues

Works for end users

Connect engineering know-how with production performance

Effortless activation & scale

Operationalize and expand with minimal resources, time, and effort

Applications

EQUIPMENT & PROCESS RELIABILITY

Lyophilizers

Remote monitoring to maximize availability

- Remote monitoring
- OEM operational excellence as a service

PREDICTIVE MAINTENANCE

Autoclaves

Reduce planned & unplanned downtime for equipment

- Avoid overtime of sterilization cycles
- Control capital expenditure

PREDICTIVE QUALITY

Digital fingerprinting

Design & test equipment for quality control

- Machine-agnostic classification
- Golden batch fingerprinting

CONDITION MONITORING

Complex system-of-systems

Operational visibility for all your assets

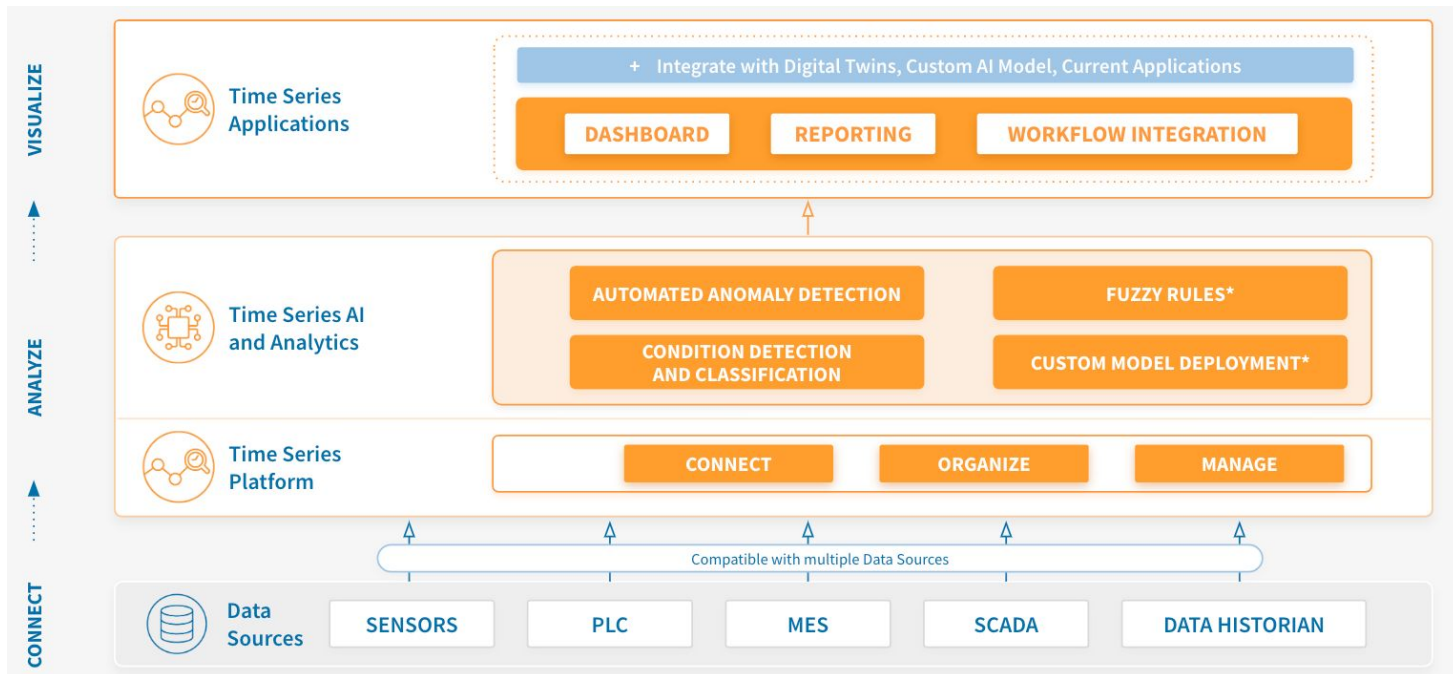- High sensitivity to local & system level behaviors
- Shift reports on equipment performance

> " *"Falkonry's AI not only aims to facilitate significant customer impact through better decision making but has also proven to be surprisingly easy to adopt, integrate, and use by our engineers and operations experts."*
>
> **Michele Arduini, Managing Director, IMA Life**

➤ Falkonry Solution Framework

➤ Case Study: Automatic detection of process variability in pill production

Early detection of deviations

Actual off-spec events

Manesty Tablet Pressing Machines timeline

7 days

2022-03-16 07:05:15 PM 401853µs   2022-03-17 11:57:55 AM 834619µs

TAB-1002

TAB-1005

TAB-1064

Blue hash indicates detected recurrence of Granulation problem

Self-supervised AI to detect "granulation issues" **several hours in advance**, leading to tablet **quality improvement**