GLOBAL PROVIDER OF ENVIRONMENTAL SERVICES APPLIES DIGITAL TWINS AND INDUSTRIAL AI TO ENABLE PROACTIVE COMPLIANCE MANAGEMENT

REDUCE RESOURCE REQUIREMENTS TO PROACTIVELY MONITOR, CONTROL, AND REPORT ON REMEDIATION PROCESSES

INITIATIVE
Environmental Compliance

PRODUCT / SERVICE
Environmental Montoring and Compliance Services

PROCESS / EQUIPMENT TYPE
Wastewater

HOSTING MODEL
SaaS, TwinThread Hosted

OPERATIONALIZED FUNCTIONS
Engineering Function

PROJECT TYPE
Rollout

IMPLEMENTATION TYPE
Self-Implemented

PROJECT RESOURCES
N/A

SCOPE
Single Site, Project

IMPACTED WORK PROCESSES

- Engineering - Anomaly Detection and Alerting Work Process
- Engineering - Troubleshooting Work Process
- Engineering - Compliance Reporting Work Process

SOLUTION

Virtual Operations Center manages advanced warning alerts from models that are integrated with monitoring service work processes to proactively address process upsets and reduce compliance risk
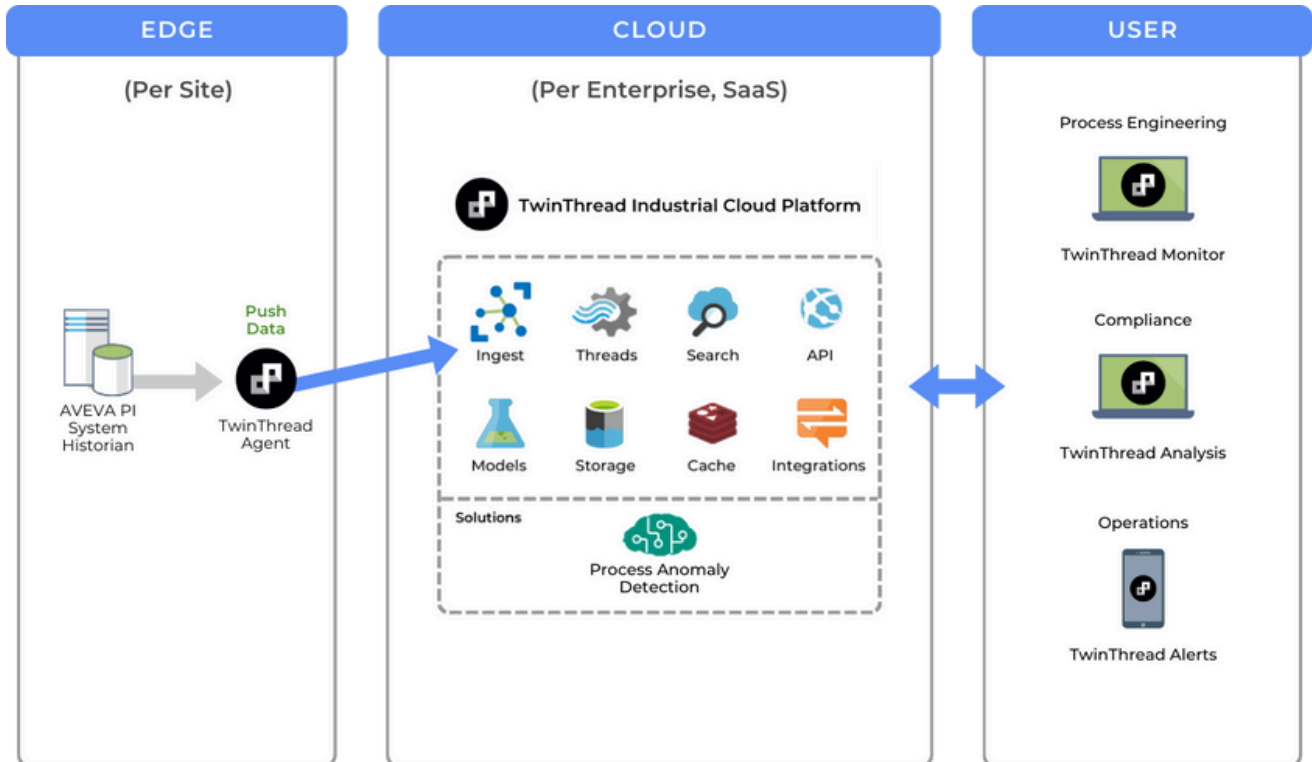
SOLUTION COMPONENTS

- Process Anomaly Detection Models
- Digital Twins
- Digital Threads
- Edge Agent

INTEGRATED WITH

- Aveva PI System

ARCHITECTURE

TWINTHREAD

VALUE ATTAINED

Increased System Stability

Reduced Asset and System Downtime

Significant reduction in resources required for monitoring and compliance reporting

RETURN ON INVESTMENT

100%+

"Prior to TwinThread supporting us, we were bogged down in trying to access our data streams and overwhelmed by the volume of data. Our ability to build threads and conduct real-time data analysis of plant operations has reduced our operationalized decision-making time from weeks to less than a day. This allows us avoid unnecessary plan shutdowns and optimize our available resources in a rapidly changing environment."

– BRENDAN ROBINSON, PARTNER

ADDITIONAL RESOURCES

[Impact with clients: Automating data insights and reducing time-to-action](#)

[The Virtual Operations Center: Accelerating Industrial Transformation with Less People & More Intelligent Tech](#)

[Video Product Tour](#)

TWINTHREAD

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