

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 Monitoring 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

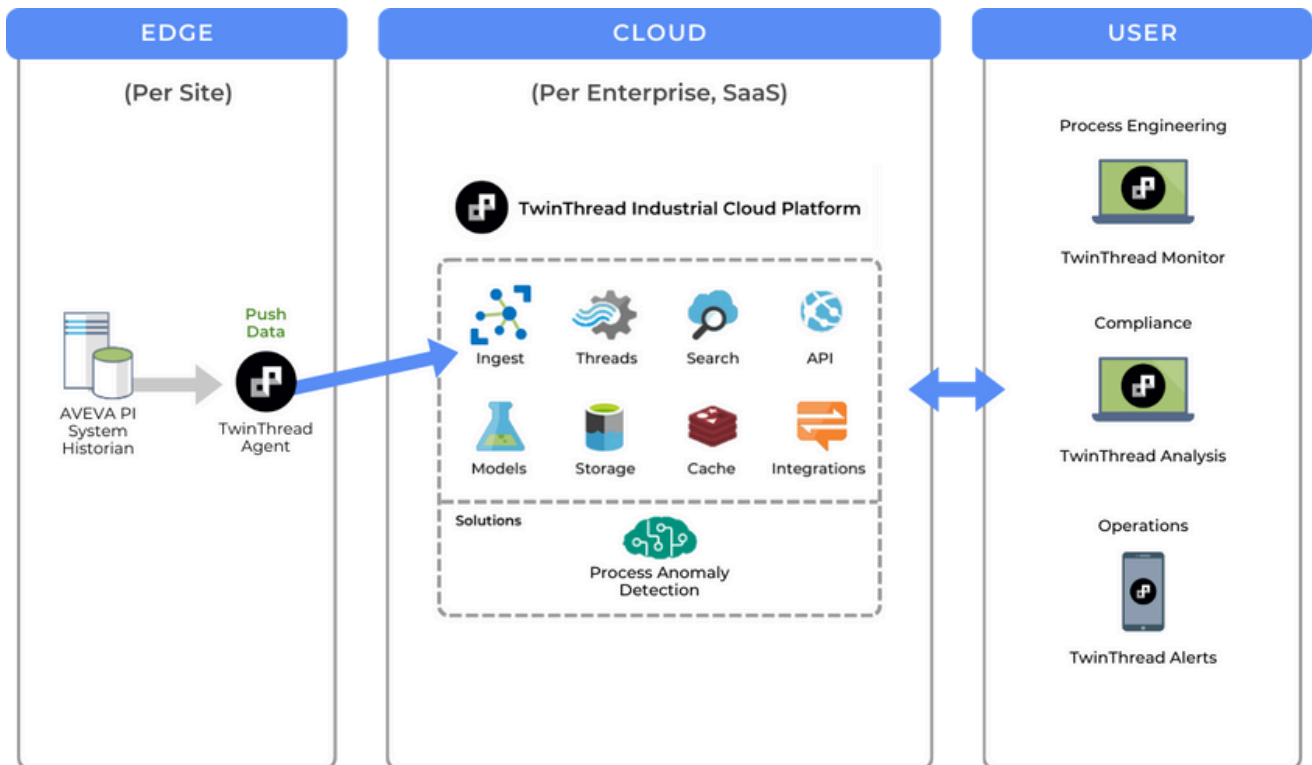
- Process Anomaly Detection Models
- Digital Twins
- Digital Threads
- Edge Agent



INTEGRATED WITH

- Aveva PI System

ARCHITECTURE





VALUE ATTAINED

Increased System Stability

Increased 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

TwinThread, Inc.
www.twinthread.com
1-434-218-7856
info@twinthread.com