

# GLOBAL MANUFACTURER OF COMPOSITE BUILDING MATERIALS IMPLEMENTS VIRTUAL OPERATIONS CENTER TO IMPROVE ASSET PERFORMANCE AND REDUCE ENERGY INTENSITY

HIGHLY ASSET AND ENERGY INTENSIVE PROCESSES



## INITIATIVE

Improve Process Stability, Increase Throughput, Reduce Energy Intensity



## PRODUCT / SERVICE

Composite building materials



## PROCESS / EQUIPMENT TYPE

Furnaces, processing lines



## HOSTING MODEL

SaaS, TwinThread Hosted



## OPERATIONALIZED FUNCTIONS

- Engineering Function
- Operations Function



## PROJECT TYPE

Rollout



## IMPLEMENTATION TYPE

Self-Implemented



## PROJECT RESOURCES

N/A



## SCOPE

Business Unit,  
Many Sites



## IMPACTED WORK PROCESSES

- Engineering - First Principle Modeling (Threads) with some Anomaly Detection, Heavy use of Standardization via Classes
- Operations - Centralized Line Monitoring Work Processes, VoC



## SOLUTION

Using a combination of Threads and Overview Dashboards, monitoring a fleet of Furnaces to ensure reliable running conditions and get ahead of problems before impacting efficiency or causing downtime.



## SOLUTION COMPONENTS

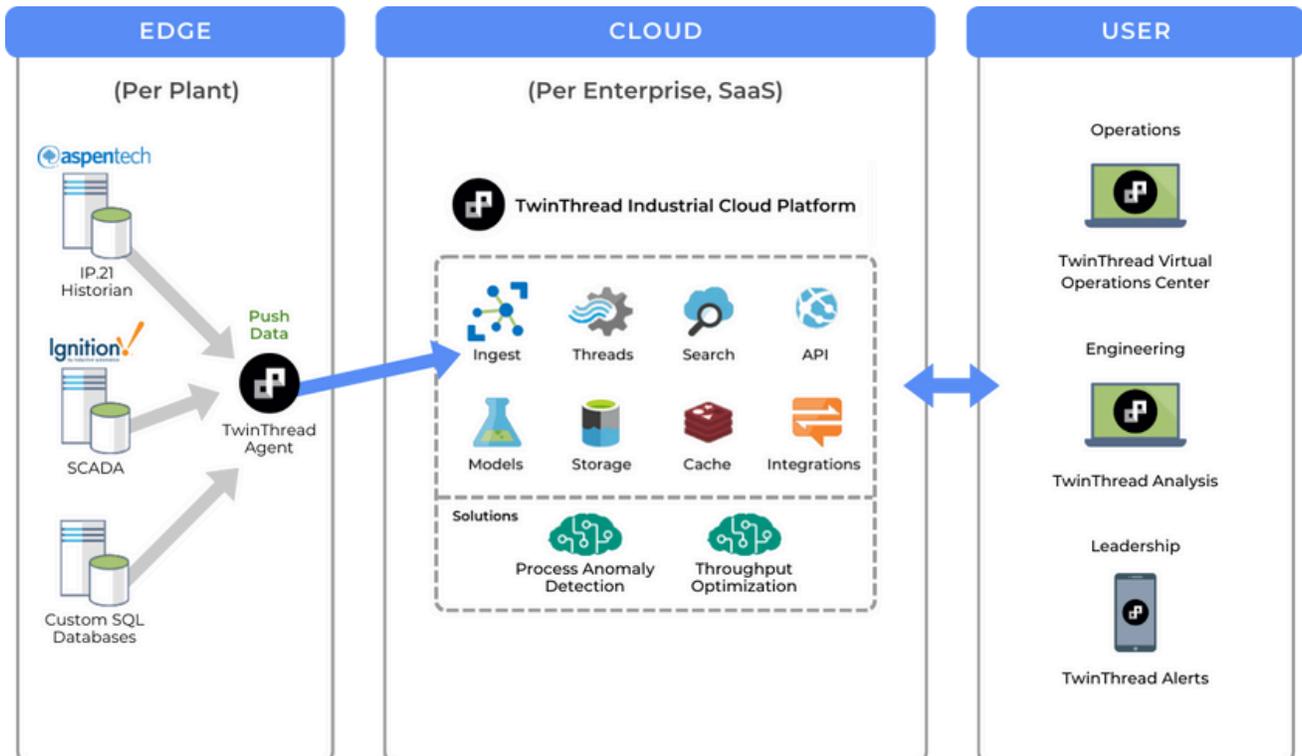
- Throughput Optimization Solution
- Process Anomaly Detection Models
- Digital Threads
- Digital Twins



## INTEGRATED WITH

- AspenTech IP.21 Historian

## ARCHITECTURE





## VALUE ATTAINED

Increased Process Stability

Increased Throughput

Reduced Energy Intensity

## ADDITIONAL RESOURCES



[Throughput Optimization Solution](#)



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



[TwinThread Video Product Tour](#)



**TWINTHREAD**

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