**TWINTHREAD**

# GLOBAL MANUFACTURER OF FOOD AND BEVERAGE PRODUCTS APPLIES DIGITAL TWINS AND INDUSTRIAL AI TO IMPROVE QUALITY AND THROUGHPUT

## HOURLY LAB SAMPLES DO NOT PROVIDE TIMELY ENOUGH VISIBILITY TO OPTIMIZE PRODUCT MOISTURE AND DENSITY

### INITIATIVE

Improve Quality, Increase Throughput, Reduce Energy Intensity

### PRODUCT / SERVICE

Dairy products

### PROCESS / EQUIPMENT TYPE

Agglomerator, Drying Beds

### HOSTING MODEL

SaaS, Partner Hosted

### OPERATIONALIZED FUNCTIONS

- Operations Function

**PROJECT TYPE**
Pilot

**IMPLEMENTATION TYPE**
Assisted

**PROJECT RESOURCES**
OEM Partner

**SCOPE**
Single line

## IMPACTED WORK PROCESSES

- Operations - Set point recommendations are shared with operators via real time dashboard

## SOLUTION

Recommendations from models are integrated with In Run work processes to continuously optimize quality performance across multiple quality measures.
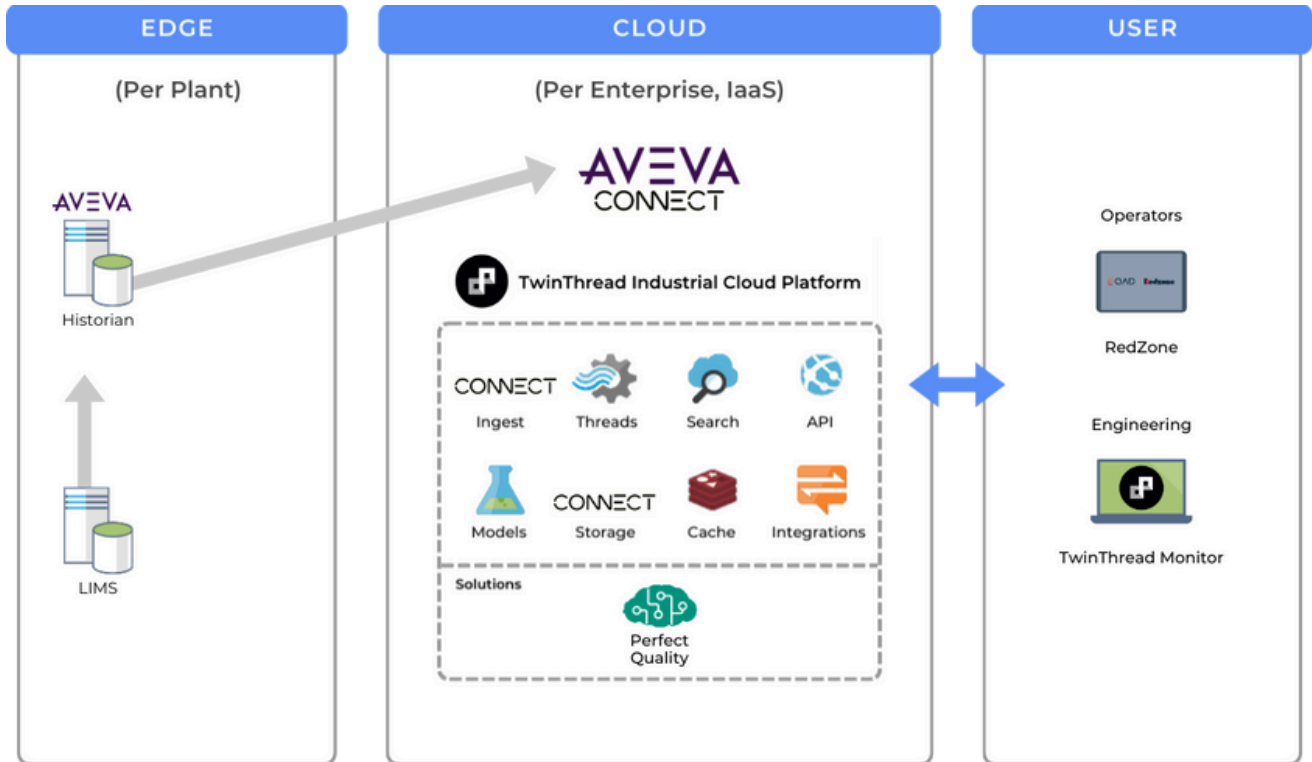
## SOLUTION COMPONENTS

- Perfect Quality Solution
- Digital Threads
- Digital Twins
- Cloud Agents

## INTEGRATED WITH

- Aveva DataHub
- LIMS

## ARCHITECTURE



**EDGE** (Per Plant)

AVEVA
Historian

LIMS

**CLOUD** (Per Enterprise, IaaS)

AVEVA CONNECT

TwinThread Industrial Cloud Platform

CONNECT Ingest | Threads | Search | API

Models | CONNECT Storage | Cache | Integrations

Solutions
Perfect Quality

**USER**

Operators

RedZone

Engineering

TwinThread Monitor

TWINTHREAD

## ⭐ VALUE ATTAINED

Improved Quality

Increased Yield

Increased Throughput

## 📈 RETURN ON INVESTMENT

### 100%+

*In our first production trial we were able to increase production throughput while maintaining a much tighter control of our key quality measure than we are normally able to do. The production team found the results very promising!*

### - MANAGER DIGITAL MANUFACTURING INNOVATIONS

## ADDITIONAL RESOURCES

Perfect Quality Solution 🔗

Perfect Quality: Applying AI To Optimize Processes In Real-Time 🔗

TwinThread Video Product Tour 🔗

## ◨ TWINTHREAD

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