



AVEVAWORLD

ACCELERATE INDUSTRIAL INTELLIGENCE

CONNECT

N

MAY 21, 2026

From Data to Decisions: Advanced Industrial Analytics and Machine Learning with CONNECT

Presented by:

John Baier, VP Early Customer Engagement – Portfolio Management AVEVA

Fabio Dani, Senior Member of Technical Staff – R&D, AVEVA

Presenters

Analog Twins?



John Baier

VP Early Customer Engagement,
Portfolio
AVEVA



Fabio Dani

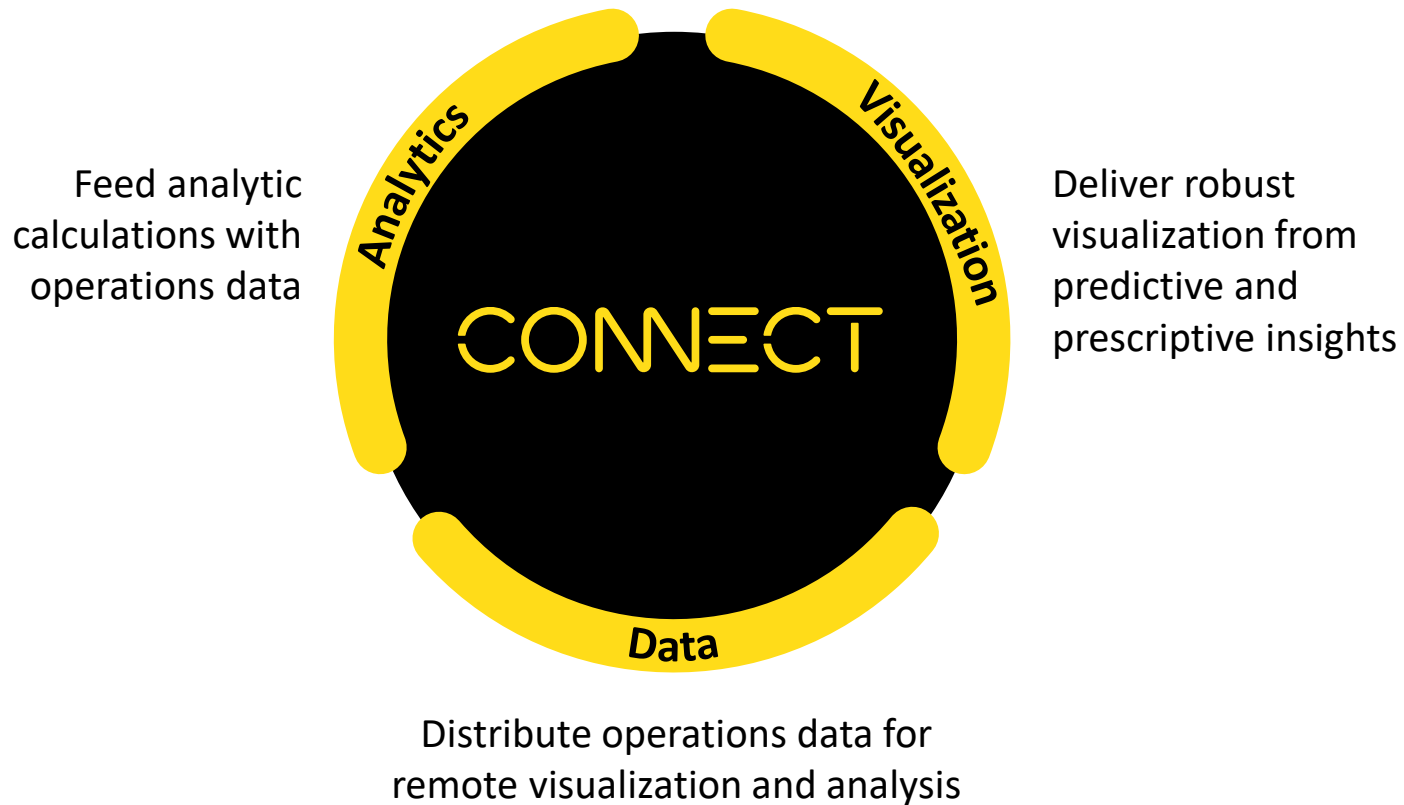
Senior Member of Technical Staff,
R&D
AVEVA

Agenda

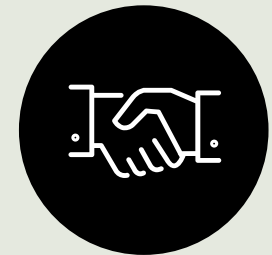
- AVEVA Advanced Analytics Overview
- Perfect Centerline Solution
- Q&A

The CONNECT Effect

Connecting data, AI and visualization in one industrial platform



Data-driven decisions to increase operational efficiency, productivity, safety, sustainability, and asset reliability



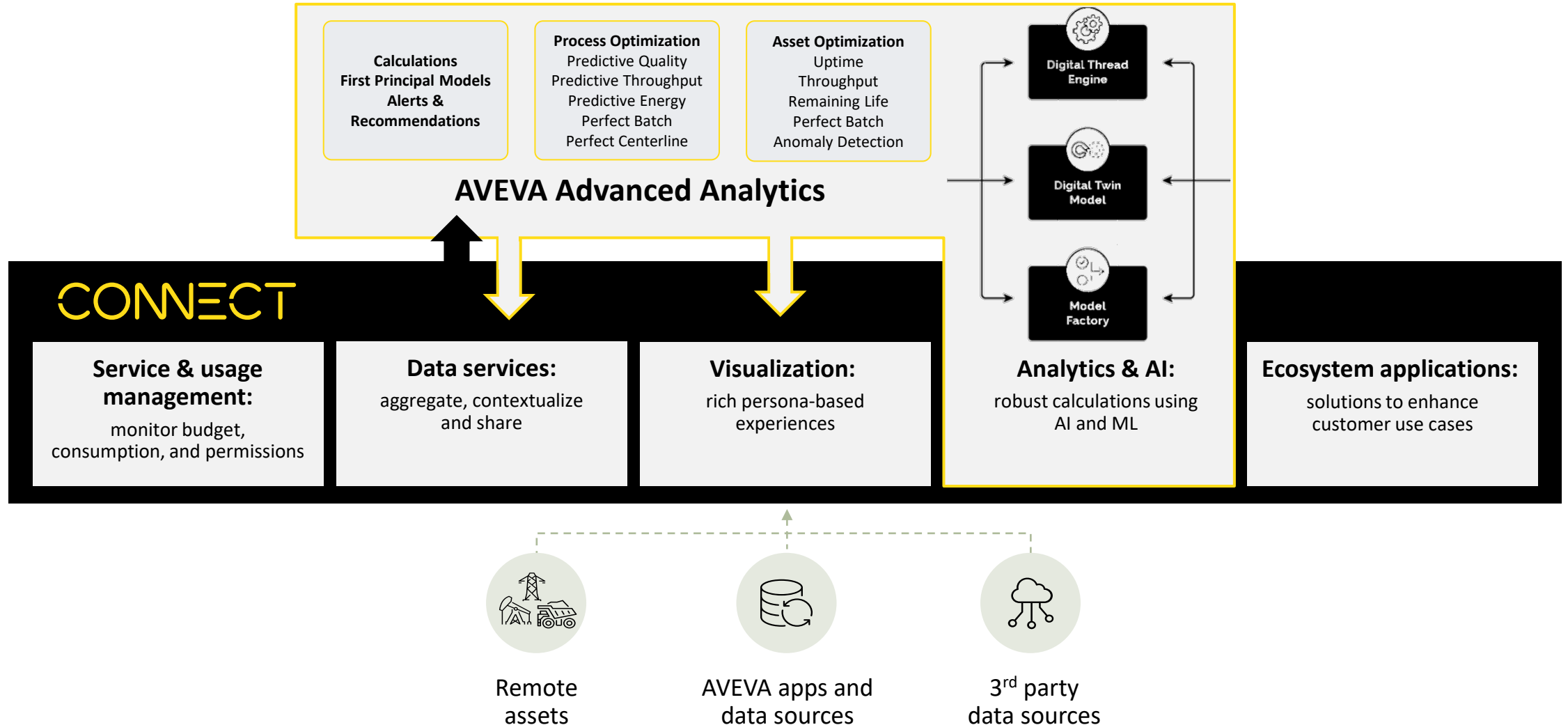
Connect your workforce with actionable insights

TwinThread

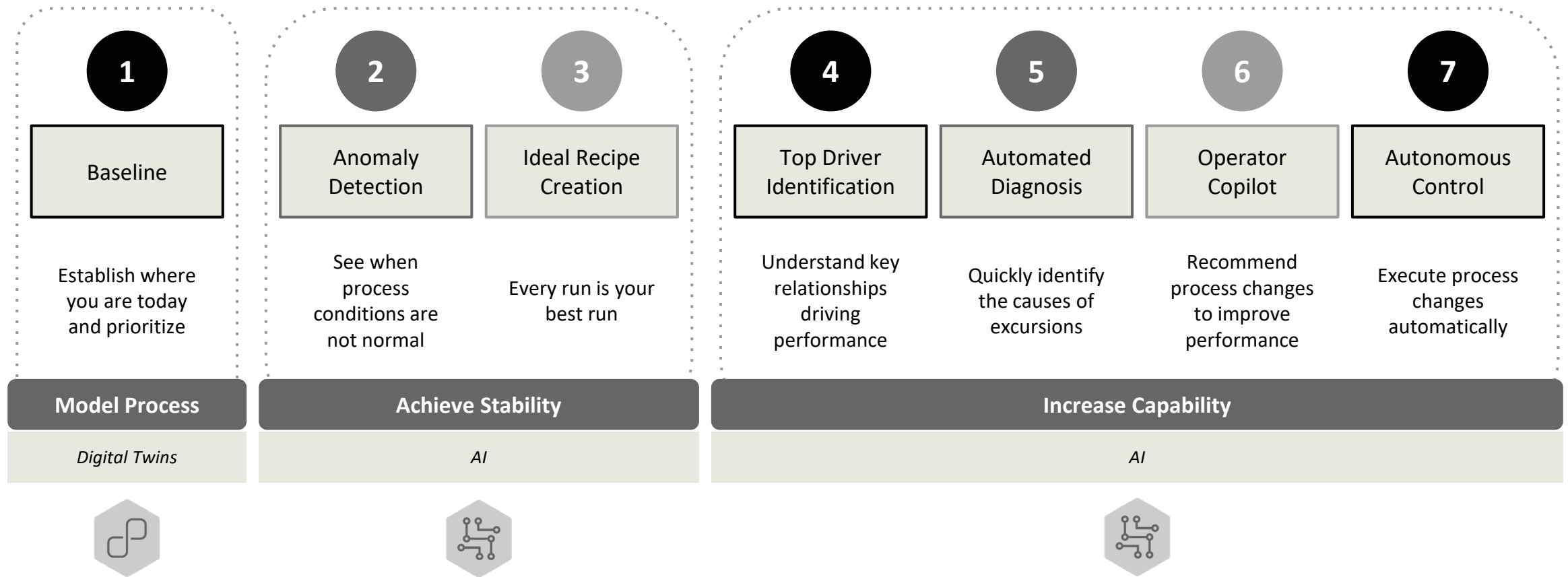
*Today, we are pleased to announce that AVEVA has entered into an agreement to **acquire TwinThread**, a leading provider of predictive analytics, digital twins and AI modelling capabilities to industrial end markets. This planned acquisition represents an important step in accelerating our strategy to transform industrial data into actionable outcomes for our customers.*

*TwinThread strengthens our innovation roadmap by adding an advanced AI layer to our data and analytics foundation. Built on a cloud-first architecture, it is expected to integrate with our existing platforms, including PI and CONNECT, enhancing our ability to deliver scalable industrial intelligence. By combining digital twins and AI, we aim to provide deeper visibility into real-time process behavior—improving both the speed and accessibility of insights across operations. This is expected to extend predictive, prescriptive, and generative AI capabilities to the front line, enabling engineers to improve quality, throughput, asset life, and energy efficiency more rapidly. We believe this will help democratize industrial AI through a scalable, no-code approach—allowing expertise to be captured and deployed through digital twins across the enterprise. These capabilities are expected to be delivered through our **Advanced Analytics and Flex offerings**, enabling rapid and scalable deployment across sites. The completion of the transaction is subject to customary closing conditions, including receipt of regulatory approval.*

Connect AI with all industrial data and visualization



Levels of Autonomous Operations



AI-driven optimization for industrial excellence

Process Optimization

Perfect Energy

Operate at the sweet spot of production and energy consumption

Perfect Production

Automate investigations and understand performance drivers with ML

Perfect Quality

Reduce variability, eliminate losses, and improve operational flexibility

Perfect Batch

Continuously evaluate batch performance and automate actions

Perfect Centerline

Maximize stability with comprehensive Run To Target capabilities

Asset Optimization

Uptime Optimization

Real-time alerts and recommendations to avoid downtime events

Throughput Optimization

Maximize production output on a per-product and per-asset basis

Asset Reliability

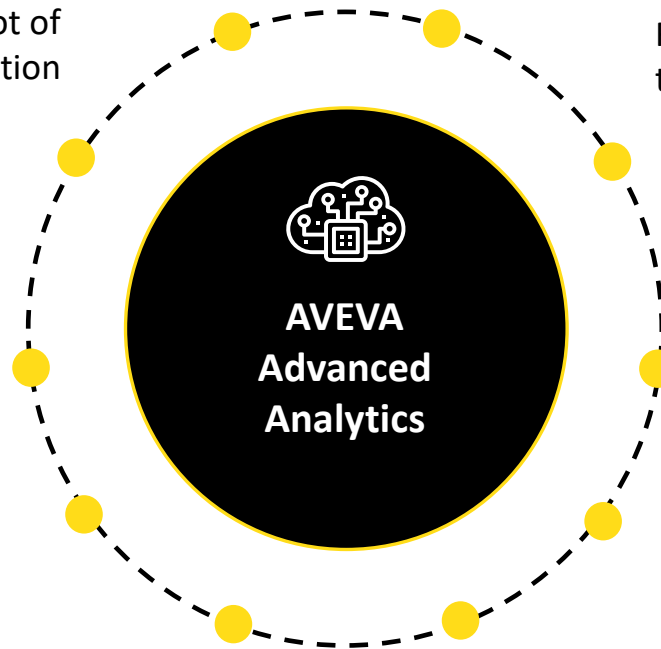
Predict and prevent common failure modes at scale

Asset Life

Maximize serviceable life and proactively manage failure risks at scale

Asset Anomaly Detection

Detect asset anomalies in real-time, prioritize by impact, enable early intervention



Solution Brief | Perfect Centerline

Process Optimization

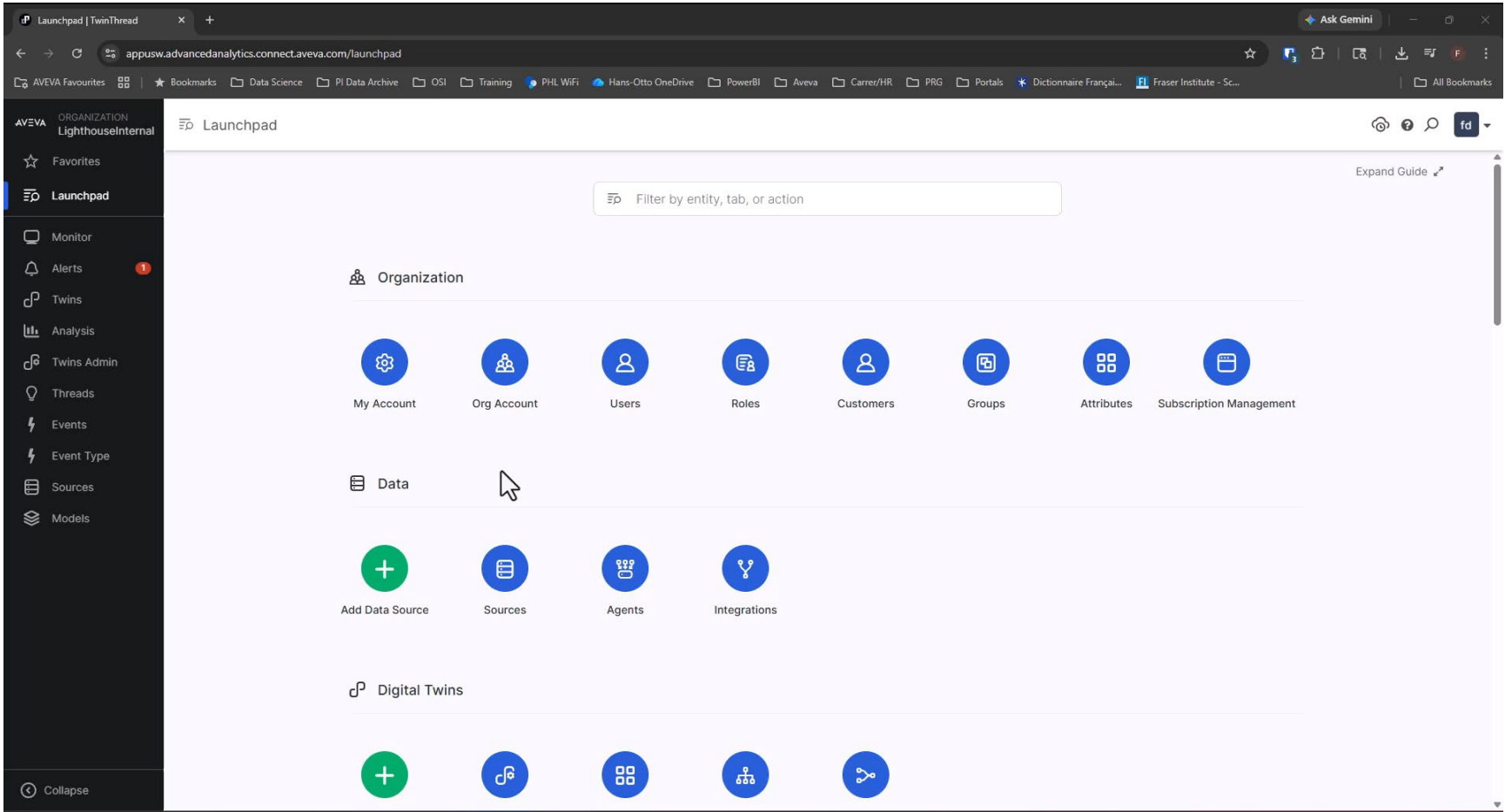
Make every run a perfect run

Ideal For	Consumer Packaged Goods, Food & Beverage, Speciality Chemical, Pharmaceutical, Pulp & Paper, Plastics, and more manufacturing processes
Automation	• Automatically establish targets and limits for all your critical process variables. • Develop and edit centerlines for every SKU in simple to use interface. • Provide continuous feedback to operations on run performance and compliance to centerlines. • Continuously monitor operations for unexpected conditions with Anomaly Detection informed by key centerline objectives.
Value	25-50% Cpk improvement, 1-3% yield improvement



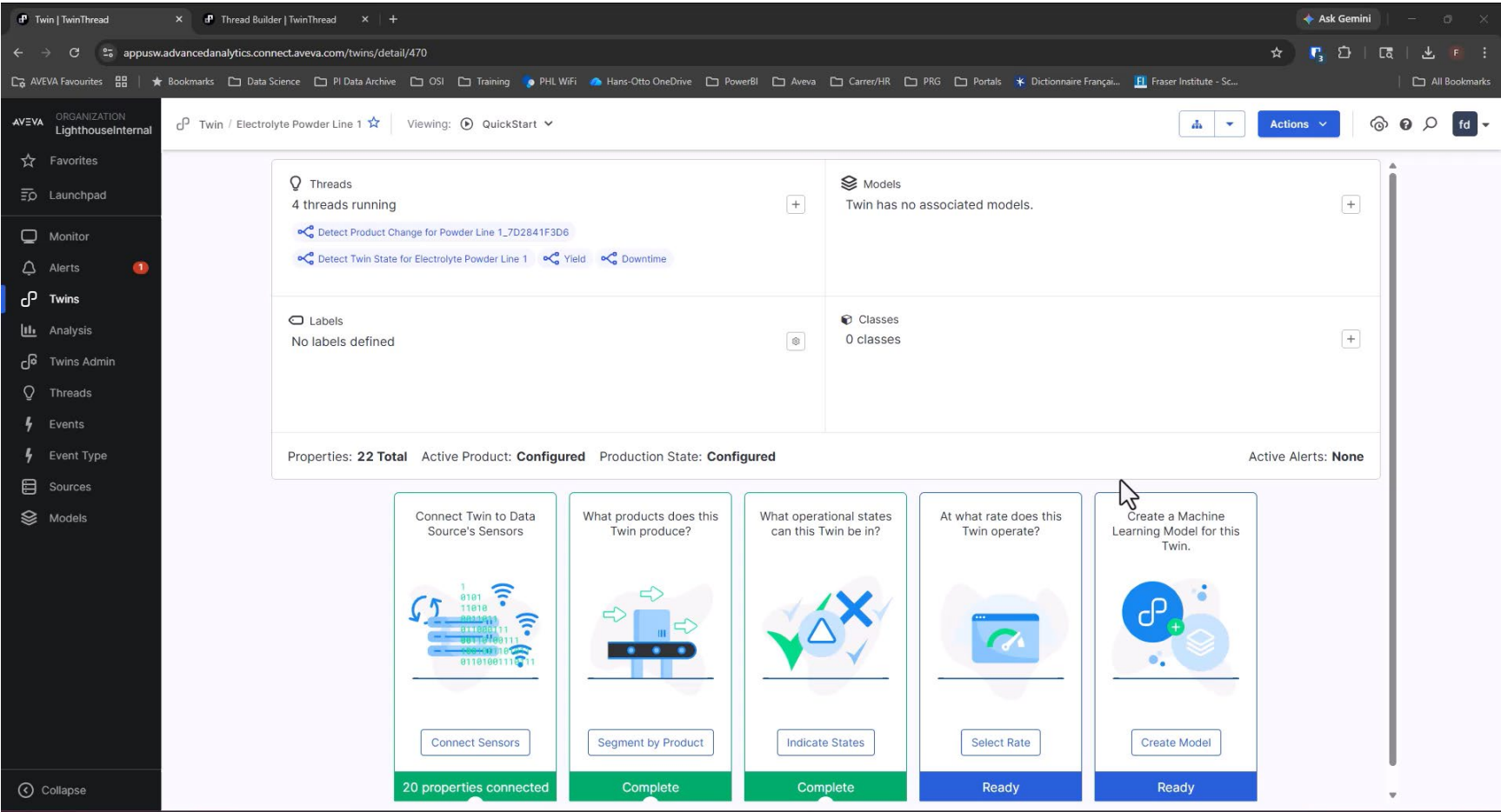
Step 1: Connect, Create Digital Twin, and Establish KPIs

Create Digital Twins



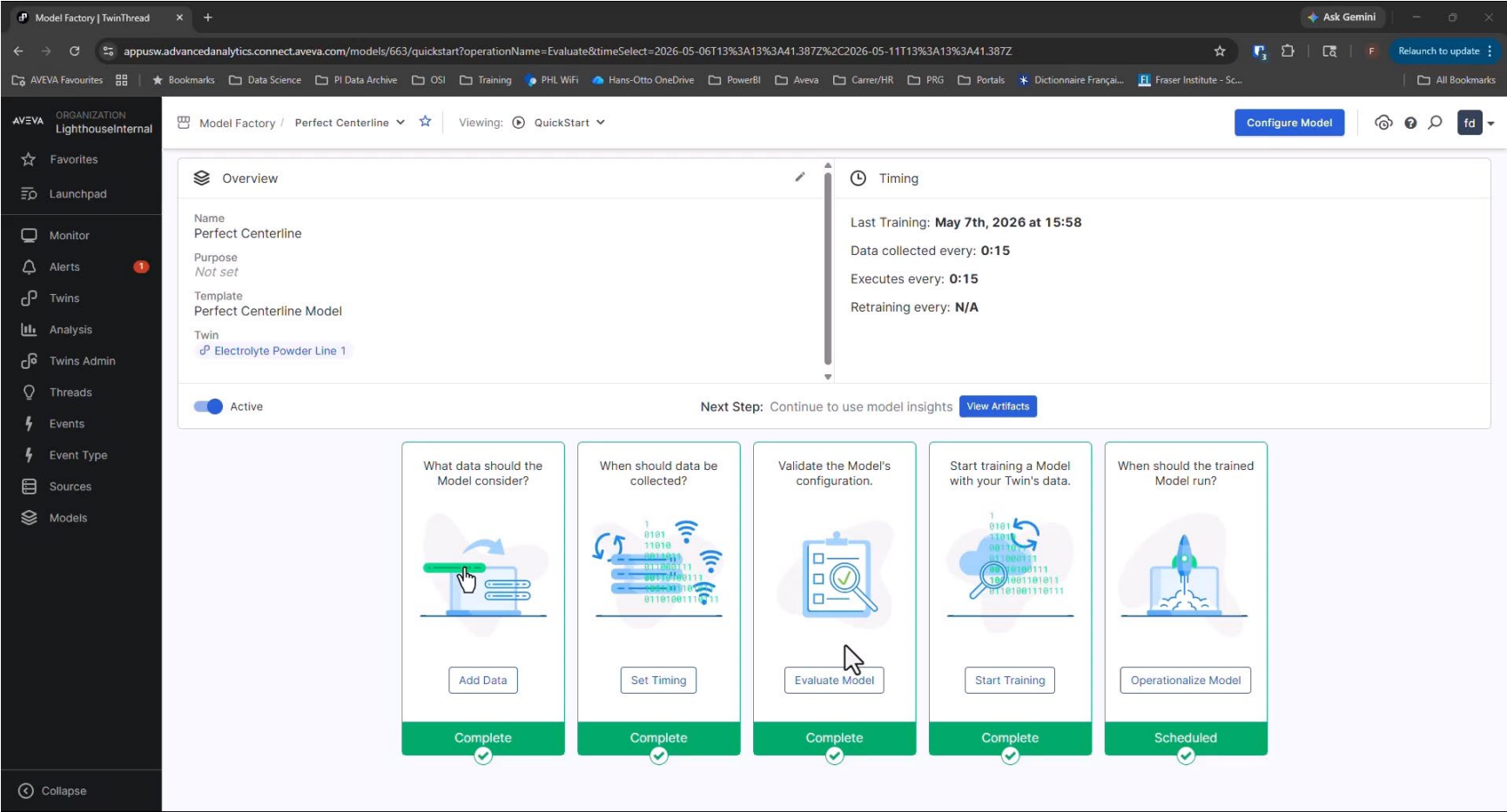
Step 2: Configure Centerline Solution, Evaluate Potential

Configure Perfect Centerline Solution and Evaluate Potential



Step 3: Analyze Results and Adjust Model

Analysis and Results



Step 4: Visualize Results in a Dashboard

Aveva Advanced Analytics Trends in CONNECT Visualization

Visualizations - CONNECT

Model Factory | Intellavi

Ask Gemini

cscsaas-wus.advancedanalytics.connect.aveva.com/models/315/quickstart

AVEVA Favourites

Bookmarks

Data Science

PI Data Archive

OSI

Training

PHL WiFi

Hans-Otto OneDrive

PowerBI

Aveva

Carrer/HR

PRG

Portals

Dictionnaire Françai...

Fraser Institute - Sc...

All Bookmarks

Model Factory / Cell 04 Centerlining

Viewing: QuickStart

Configure Model

fd

Overview

Timing

Name

Cell 04 Centerlining

Purpose

Initial model exploration for this asset

Template

Perfect Centerline Model

Twin

Cell 04

Active

Last Training: Feb 18th, 2026 at 17:31

Data collected every: 0:30

Executes every: 0:30

Retraining every: N/A

Next Step: Continue to use model insights

View Artifacts

What data should the Model consider?



Add Data

Complete

When should data be collected?



Set Timing

Complete

Validate the Model's configuration.



Evaluate Model

Complete

Start training a Model with your Twin's data.



Start Training

Complete

When should the trained Model run?



Operationalize Model

Scheduled

voestalpine Krems implements track and trace on steel roll forming line and avoids downtime

Challenge

- Operators lacked unified dashboards to visualize and interpret production and machine data
- A robust track and trace methodology that linked product information to steel roll forming production processes was needed, to enable a product passport
- Frequent failures on a sawing machine led to excessive wear and high replacement costs

Solution

- Deployed CONNECT with advanced analytics and delivered a seamless integration with its digital platform ecosystem, including ProLeiT LMS and AVEVA™ System Platform

Results

- **Contextualized visualization enabled a unified operator view of MES data combined with operational data**
- **Track and trace proof of concept captured time-series data with product quality insights using existing vision system**
- **Predictive monitoring of the sawing machine reduced unplanned downtime, potentially saving up to €18,000 in blade costs annually**





Lamberti saves data analysis time and energy consumption while implements the Golden Batch

Challenge

- Consolidating scattered data into a single organized digital backbone
- Providing a tool to rapidly analyze data enabling process and energy optimization
- Testing a Machine Learning-based application to identify the "Golden Batch"

Solution

- Implementation of the PI System as the core infrastructure for data management
- Launch of the Advanced Analytics project on AVEVA Connect to model complex variables

Results

- **Data organized and synchronized within a single unified OT/IT infrastructure**
- **Approximately 5% energy reduction achieved during the milling and drying phase**
- **Testing parameters suggested by Advanced Analytics during live production runs**



Questions?



- Please wait for the microphone
- State your name and company

Please remember to...

Navigate to this session in the mobile app to complete the survey

Visit us at the CONNECT booths in the Innovation Zone

Thank you!

John Baier

VP - Early Customer Engagement, Portfolio

AVEVA

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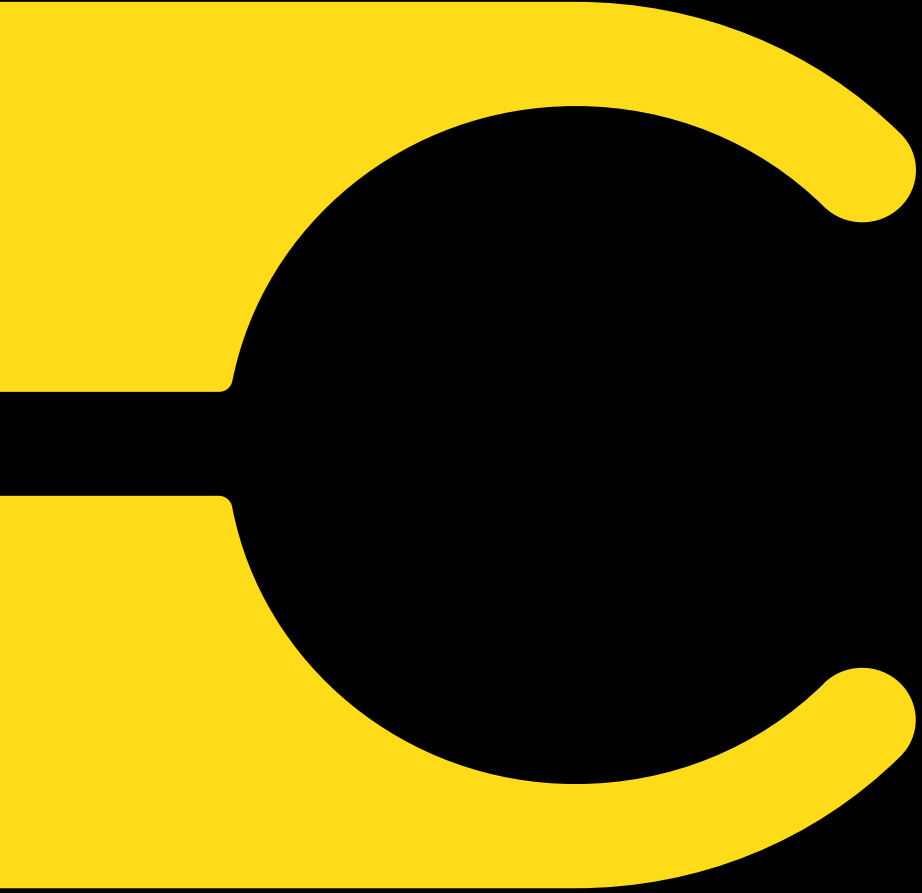
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 [@avevagroup](https://twitter.com/avevagroup)

ABOUT AVEVA

AVEVA is a world leader in industrial software, providing engineering and operational solutions across multiple industries, including oil and gas, chemical, pharmaceutical, power and utilities, marine, renewables, and food and beverage. Our agnostic and open architecture helps organizations design, build, operate, maintain and optimize the complete lifecycle of complex industrial assets, from production plants and offshore platforms to manufactured consumer goods.

Over 20,000 enterprises in over 100 countries rely on AVEVA to help them deliver life's essentials: safe and reliable energy, food, medicines, infrastructure and more. By connecting people with trusted information and AI-enriched insights, AVEVA enables teams to engineer efficiently and optimize operations, driving growth and sustainability.

Named as one of the world's most innovative companies, AVEVA supports customers with open solutions and the expertise of more than 6,400 employees, 5,000 partners and 5,700 certified developers. The company is headquartered in Cambridge, UK.

Learn more at www.aveva.com