



AVEVAWORLD

ACCELERATE INDUSTRIAL INTELLIGENCE

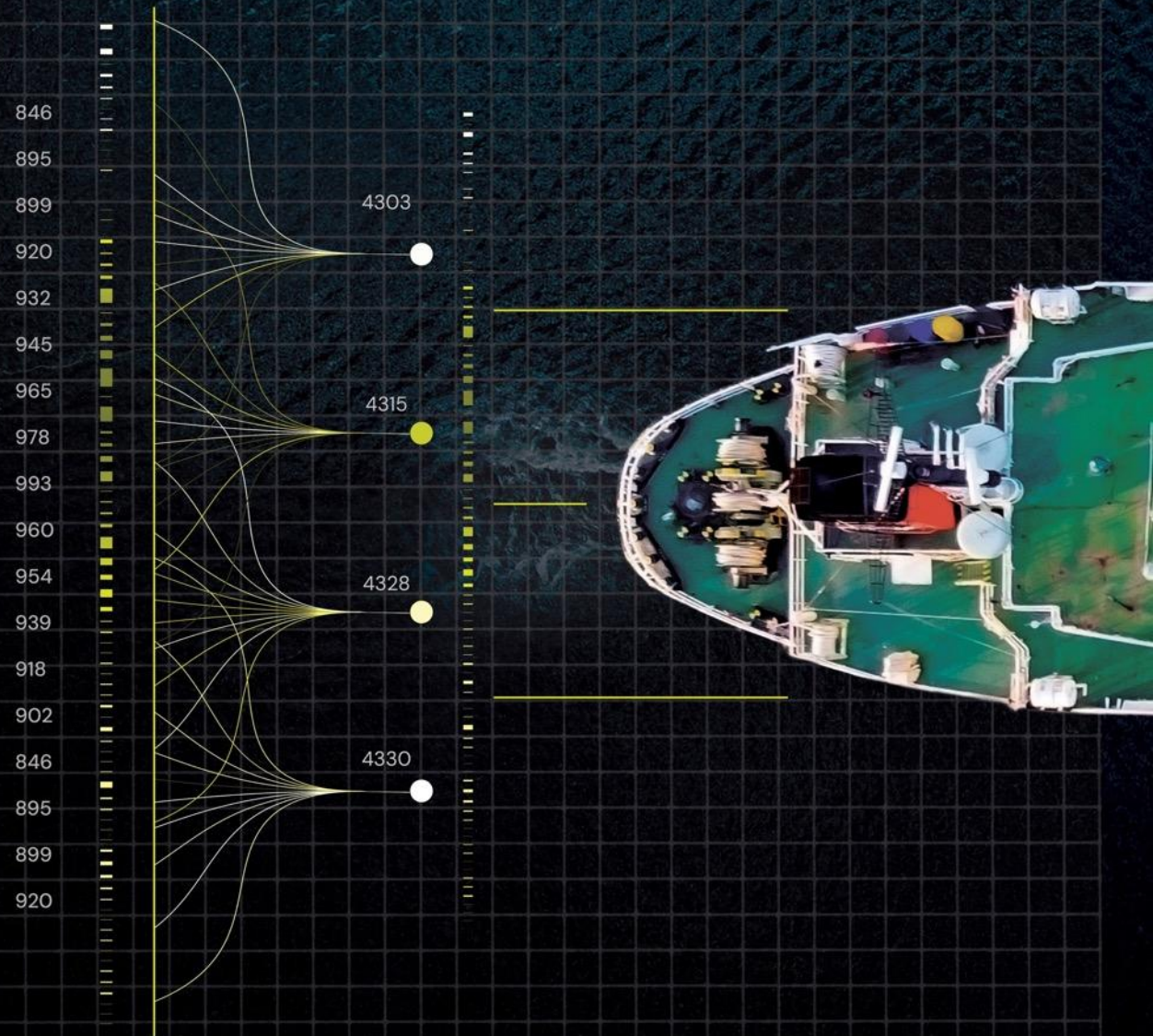
CONNECT

N

Machine Learning made easy with AVEVA Advanced Analytics

Presented by: Adam Fink

MAY 2026



Presenter

Sr. Software Developer – Product Readiness

AVEVA

Adam Fink

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MACHINE LEARNING MADE EASY WITH AVEVA ADVANCED ANALYTICS

Agenda

Subtitle

- CONNECT + AVEVA Advanced Analytics
- Pre-built models and solutions
- Perfect Centerline Example
- Recommendations back to a visualization

Accelerating industrial intelligence with CONNECT



Connectivity

Data collection tools and capabilities that transfer and sync data securely from on-premises and cloud sources.



Data management & visualization

Built-in functionality for storing, organizing, enriching, and displaying contextualized data through role-based visuals.



Collaboration

Sharing capabilities that facilitate cooperation and trusted data between both internal and external teams, securely.



AI & analytics

Assistants, agents, ML and data processing tools that expedite and amplify the analysis of data and insights.

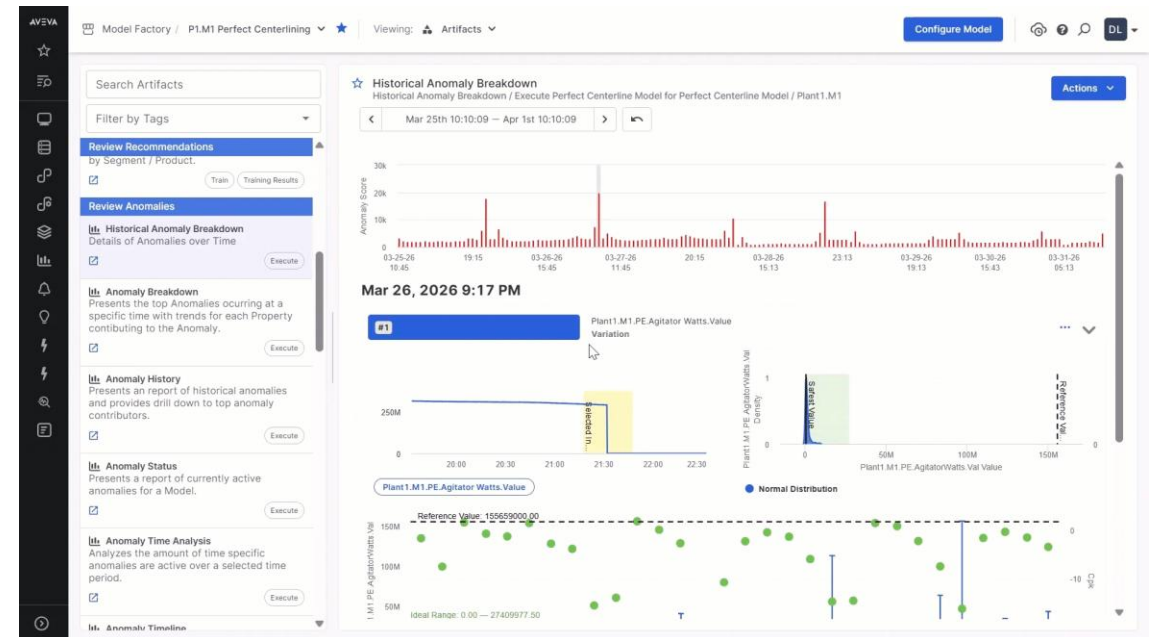


Applications

Native applications, hybrid integrations and partner applications that leverage CONNECT's capabilities.

Generating real-time predictive and prescriptive insights

Enhance your process and asset efficiency with AI and ML



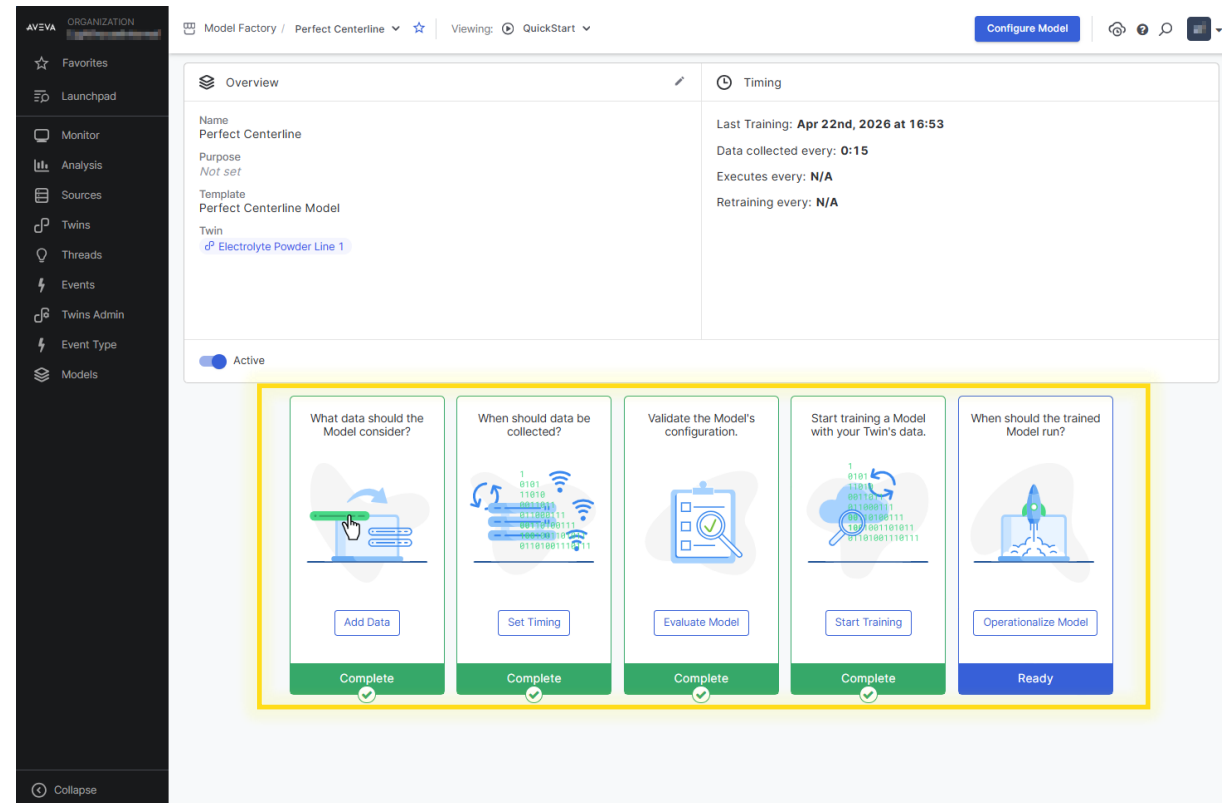
- Perfect Energy
- Perfect Production / Batch
- Perfect Quality
- Process Anomaly Detection
- Perfect Centerline

- Uptime Optimization
- Throughput Optimization
- Asset Reliability
- Asset Life
- Asset Anomaly Detection

CONNECT + AVEVA Advanced Analytics

Why

- Provides a **low-code, easy to use** tool for building and applying machine learning models on CONNECT data
- Simple drag-and-drop configuration
- Support for the full model lifecycle
 1. Prepare/Configure
 2. Train
 3. Execute
 4. Review
 5. Optimize



AVEVA Advanced Analytics

Pre-built solutions based on industry use cases

Process Optimization



Perfect Centerline

Maximize stability with comprehensive Run To Target capabilities



Perfect Energy

Operate at the sweet spot of production and energy consumption



Perfect Batch

Continuously evaluate batch performance and automate actions



Perfect Production

Optimize production performance across your enterprise



Perfect Quality

Reduce variability, eliminate losses, and improve operational flexibility

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

Easily identify drivers of abnormal asset behaviors

AVEVA Advanced Analytics

Pre-built solutions based on industry use cases

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Perfect Centerline

Solution brief

Ideal For	Consumer Packaged Goods, Food & Beverage, Speciality Chemical, Pharmaceutical, Pulp & Paper, Plastics, and more manufacturing processes
Automation	• Automatially 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



Perfect Centerline

Demo use case

Use case:

- Gentovo energy drink factory – electrolyte line

Objectives:

- Minimize downtime
- Maximize yield
- Control moisture in the resulting product to a target value

Steps:

1. Configure twin
2. Configure and train model
3. Analyze the results
4. Visualize models KPIs and recommendations in CONNECT

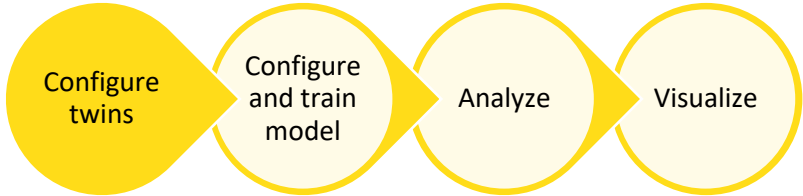


Perfect Centerline Model

Demo

Perfect Centerline

Demo



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LighthouseInternal

Favorites

Launchpad

Monitor

Analysis

Sources

Twins

Threads

Events

Twins Admin

Event Type

Models

Sources / GentovoElectrolytePlant

Sensor Map | Hierarchy | Logs | History Loads

Sensors

Actions

Name	Description	Data Type	Engineering Units	Mapped To	Timestamp	Status
Agitator.PRQ-MES.Enterprise.Site.Plant.Production.Line1.Mixer100.Agitator.Demo.Agit	Agitator Speed	Integer		---		Unmapped
Agitator.PRQ-MES.Enterprise.Site.Plant.Production.Line1.Mixer100.Agitator.Demo.Agit	Agitator Speed	Float	rpm	---		Unmapped
Agitator.PRQ-MES.Enterprise.Site.Plant.Production.Line2.Mixer200.Agitator.Demo.Agit	Agitator Speed	Integer		---		Unmapped
Agitator.PRQ-MES.Enterprise.Site.Plant.Production.Line2.Mixer200.Agitator.Demo.Agit	Agitator Speed	Float	rpm	---		Unmapped
Inlet1.PRQ-MES.Enterprise.Site.Plant.Production.Line1.Mixer100.Inlet1.Demo.Inlet1_00	Open Limit Switch	Integer		---		Unmapped
Inlet1.PRQ-MES.Enterprise.Site.Plant.Production.Line1.Mixer100.Inlet1.Demo.Inlet1_00	Open Limit Switch	String		---		Unmapped
Inlet1.PRQ-MES.Enterprise.Site.Plant.Production.Line1.Mixer100.Inlet1.Demo.Inlet1_00	Valve State	Integer		---		Unmapped
Inlet1.PRQ-MES.Enterprise.Site.Plant.Production.Line1.Mixer100.Inlet1.Demo.Inlet1_00	Valve State	String		---		Unmapped
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Inlet1.PRQ-MES.Enterprise.Site.Plant.Production.Line2.Mixer200.Inlet1.Demo.Inlet1_00	Open Limit Switch	Integer		---		Unmapped
Inlet1.PRQ-MES.Enterprise.Site.Plant.Production.Line2.Mixer200.Inlet1.Demo.Inlet1_00	Valve State	Integer		---		Unmapped
Inlet1.PRQ-MES.Enterprise.Site.Plant.Production.Line2.Mixer200.Inlet1.Demo.Inlet1_00	Valve State	String		---		Unmapped
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Inlet2.PRQ-MES.Enterprise.Site.Plant.Production.Line1.Mixer100.Inlet2.Demo.Inlet2_00	Valve State	Integer		---		Unmapped
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Inlet2.PRQ-MES.Enterprise.Site.Plant.Production.Line2.Mixer200.Inlet2.Demo.Inlet2_00	Open Limit Switch	Integer		---		Unmapped
Inlet2.PRQ-MES.Enterprise.Site.Plant.Production.Line2.Mixer200.Inlet2.Demo.Inlet2_00	Open Limit Switch	Integer		---		Unmapped
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L1.Demo.L1.PV.Quality	Level Indicator	Integer		---		Unmapped
L1.Demo.L1.PV.Value	Level Indicator	Float		---		Unmapped
Level.PRQ-MES.Enterprise.Site.Plant.Production.Line1.Mixer100.Level.Demo.Level_D01	Mixer Level	Integer		---		Unmapped
Level.PRQ-MES.Enterprise.Site.Plant.Production.Line1.Mixer100.Level.Demo.Level_D01	Mixer Level	Float		---		Unmapped

Advanced Sensor Filters

Filter

Name

Description

Mapped to Twins

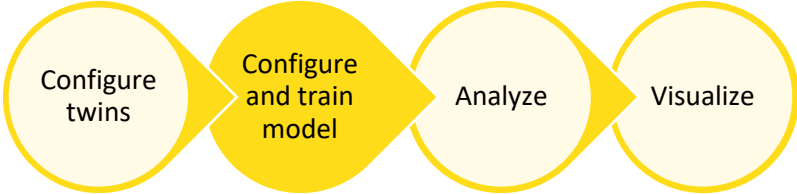
Max Sensors

Search

Clear

Perfect Centerline

Demo



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LighthouseInternal

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📄 Launchpad

📺 Monitor

📊 Analysis

📁 Sources

🔗 Twins

💡 Threads

⚡ Events

🔧 Twins Admin

⚡ Event Type

📁 Models

Twin / Gentovo Electrolyte Powder Line

Viewing: QuickStart

👤

⌵

Actions

🏠

?

🔍

af

💡 Threads

4 threads running

🔗 Detect Product Change for e Powder Line_8642A569F5

🔗 Detect Twin State for olyte Powder Line_FCAFE92F66

🔗 Gentovo_EPL_Yield

🔗 Gentovo_EPL_Downtime

📁 Models

Twin has no associated models.

🏷️ Labels

No labels defined

📁 Classes

0 classes

Properties: 18 Total

Active Product: Configured

Production State: Configured

Active Alerts: None

Connect Twin to Data Source's Sensors

Connect Sensors

18 properties connected

What products does this Twin produce?

Segment by Product

Complete

What operational states can this Twin be in?

Indicate States

Complete

At what rate does this Twin operate?

Select Rate

Ready

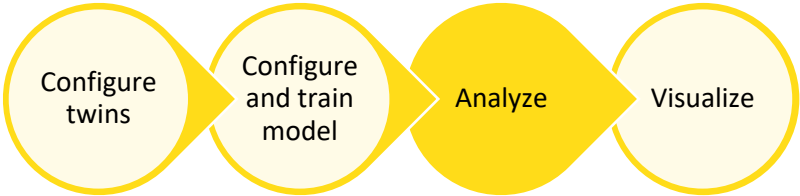
Create a Machine Learning Model for this Twin.

Create Model

Ready

Perfect Centerline

Demo



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Twins Admin

Event Type

Models

Collapse

Model Factory / Gentovo_EPL_PerfectCenterline

☆

Viewing: QuickStart

Configure Model

af

Overview

Name
Gentovo_EPL_PerfectCenterline

Purpose
Gentovo_EPL_PerfectCenterline

Template
Perfect Centerline Model

Twin
[Gentovo - Electrolyte Powder Line](#)

Active

Timing

Last Training: Apr 27th, 2026 at 15:14

Data collected every: 0:15

Executes every: 0:15

Retraining every: N/A

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

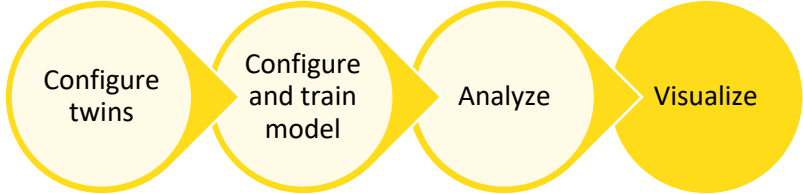
Complete

When should the trained Model run?

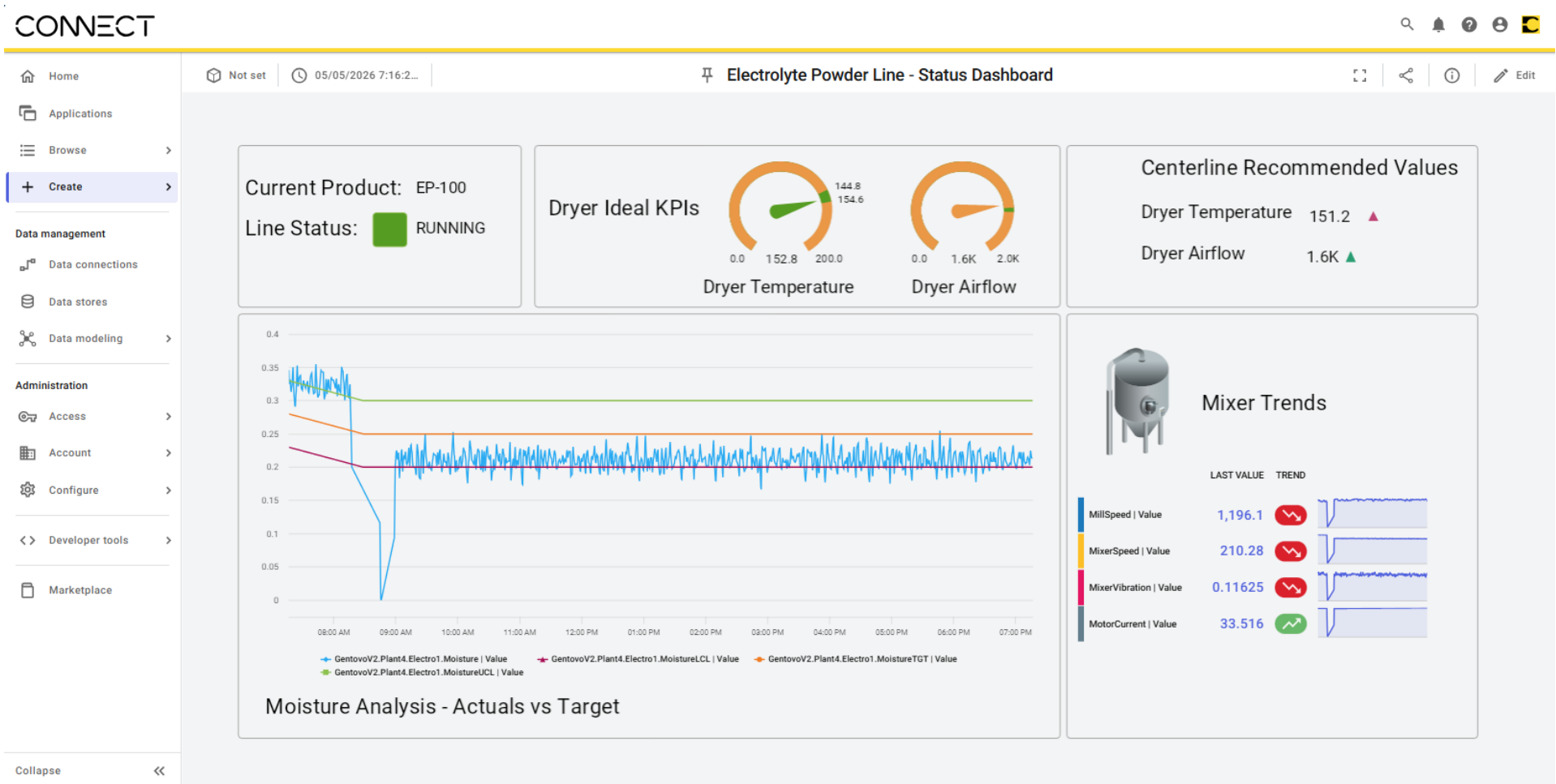
Operationalize Model

Scheduled

Perfect Centerline



Visualize model ideal values/bands and recommendations in CONNECT



Related Sessions

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

Learn more about AVEVA Advanced Analytics

Thursday, May 21 @ 9:45 am

Brown 2 – Level 2

Plugging In: Integrating CONNECT with the Enterprise Data Stack

Learn how to enable seamless data exchange between plant systems and enterprise cloud platforms such as Databricks, Snowflake and more.

Day 2, May 20 @ 5:00 pm

Amber 2 – Level 2



Presenter

Sr. Software Developer – Product Readiness

AVEVA

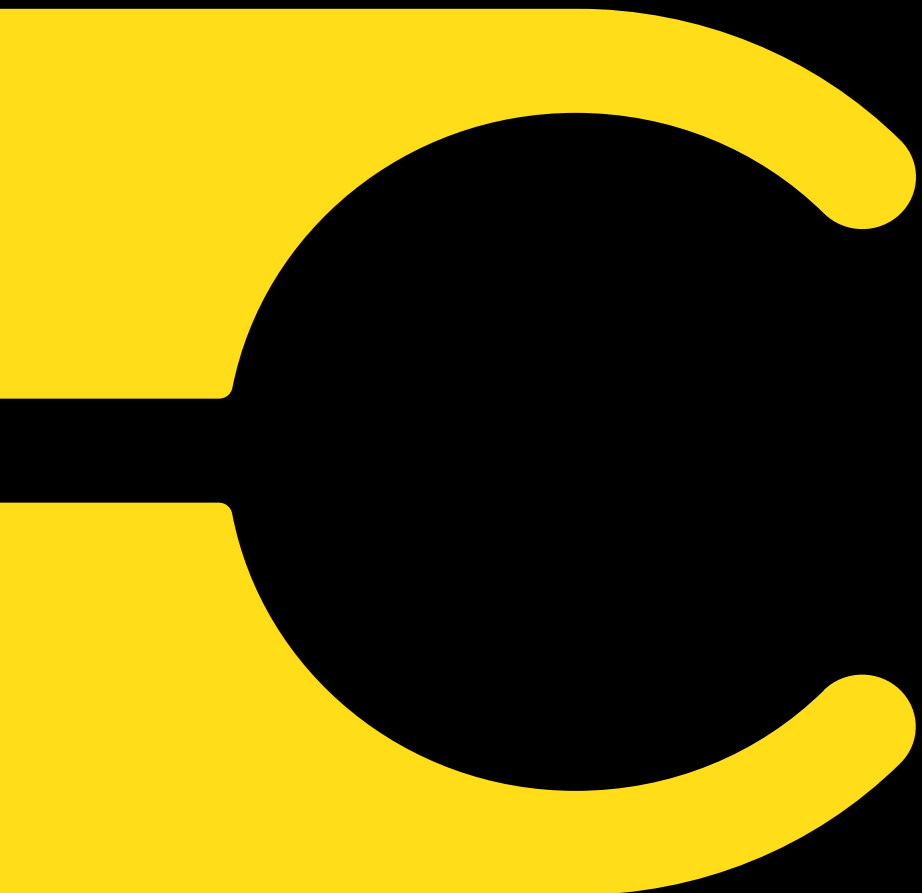
Adam Fink

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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.

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