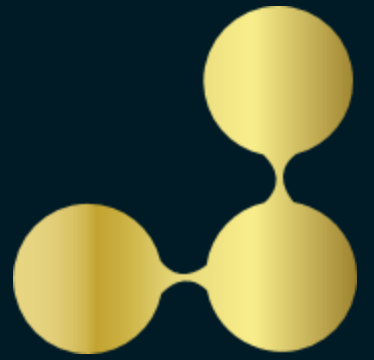
Seeq®

conneqt



MARK DERBECKER

CHIEF PRODUCT OFFICER

conneqt

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Our focus:

Seeq®

INDUSTRIAL ENTERPRISE MONITORING™ SUITE

+ AI

conneqt

Self-Service Analytics

Seeq WORKBENCH

Seeq ORGANIZER

connect

Self-Service Analytics

Seeq WORKBENCH

Seeq ORGANIZER

Scale Across Assets

Seeq WORKBENCH

conneqt

Self-Service Analytics

Seeq WORKBENCH

Seeq ORGANIZER

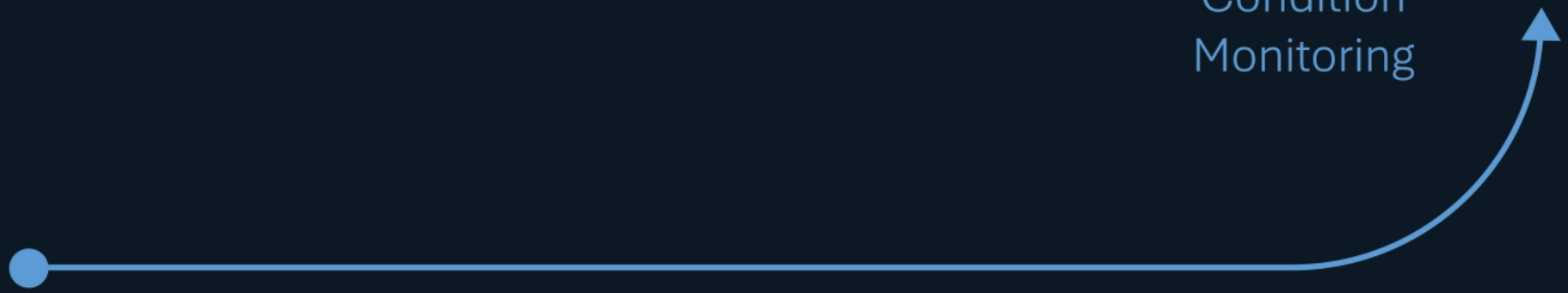
Scale Across Assets

Seeq WORKBENCH

Operationalize

Seeq DATA LAB

conneqt



Self-Service Analytics

Seeq WORKBENCH

Seeq ORGANIZER

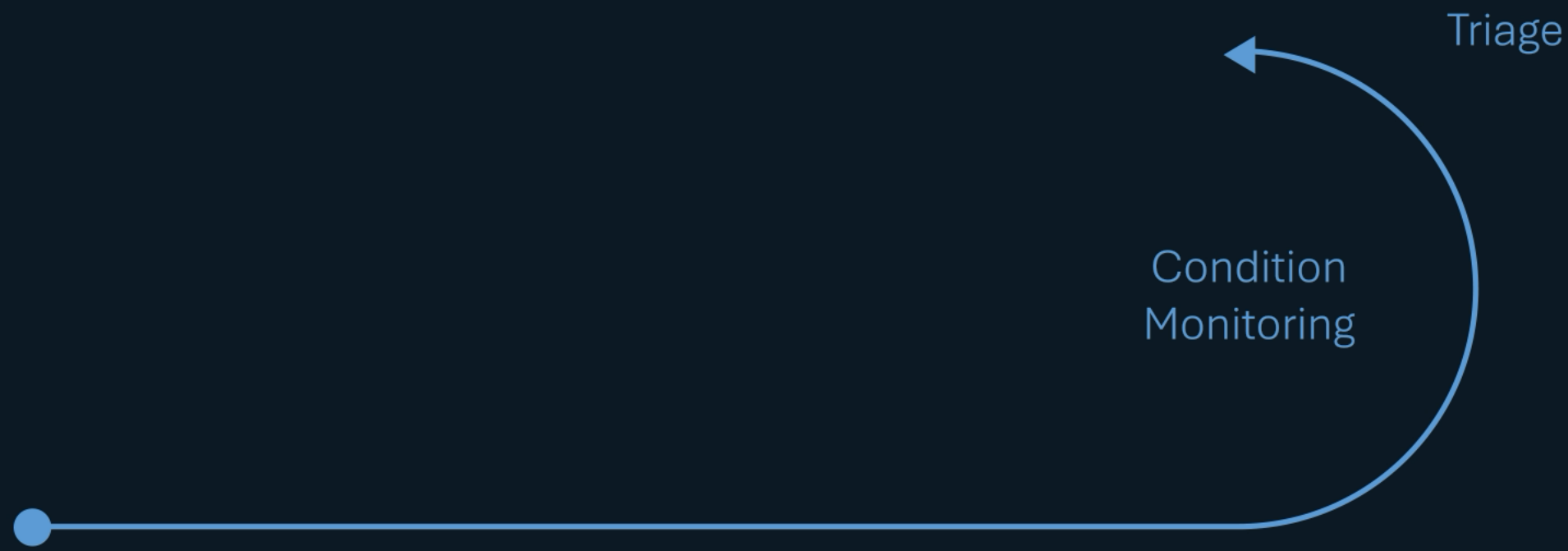
Scale Across Assets

Seeq WORKBENCH

Operationalize

Seeq DATA LAB

conneqt



Self-Service Analytics

Seeq WORKBENCH

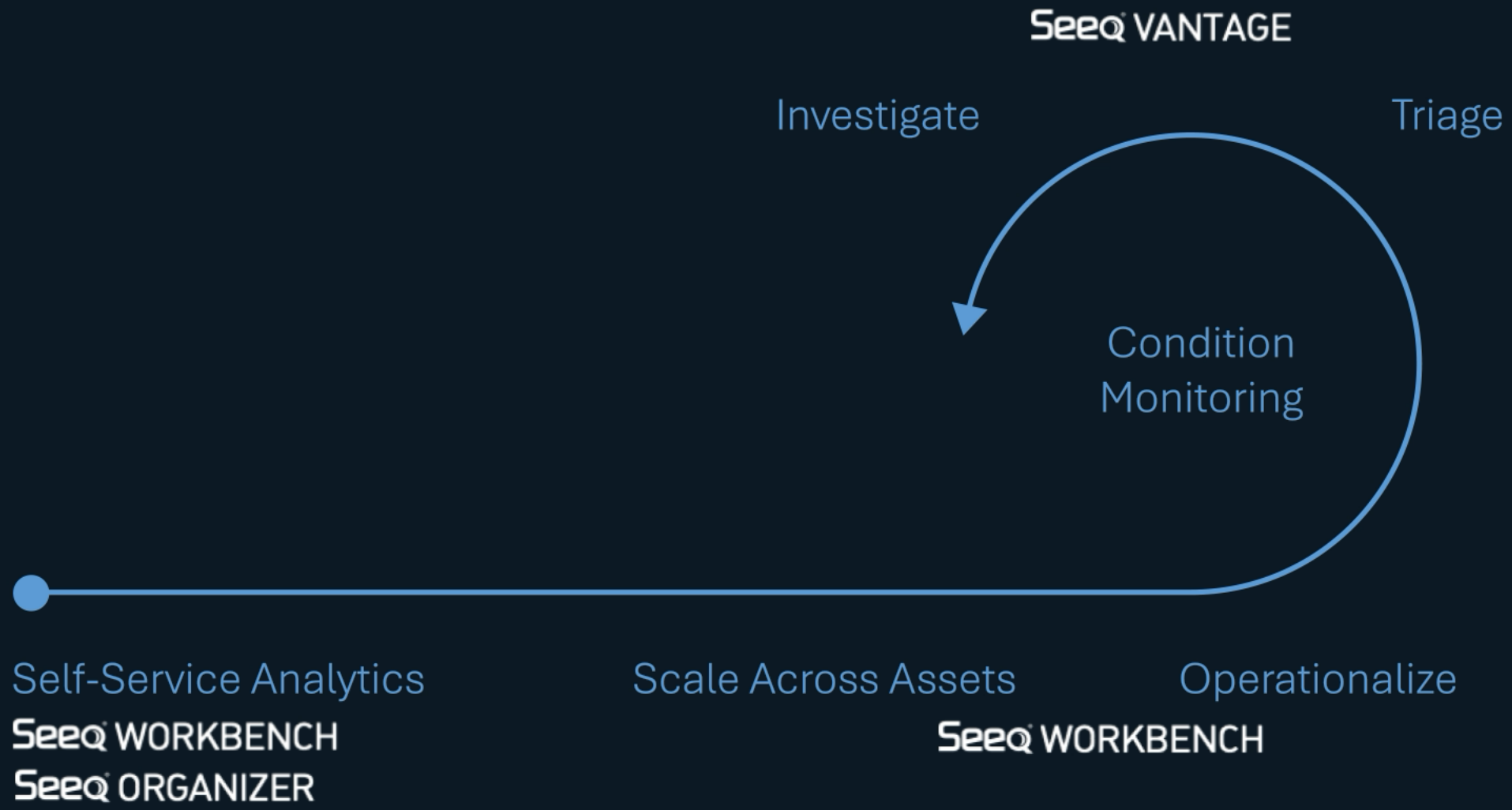
Seeq ORGANIZER

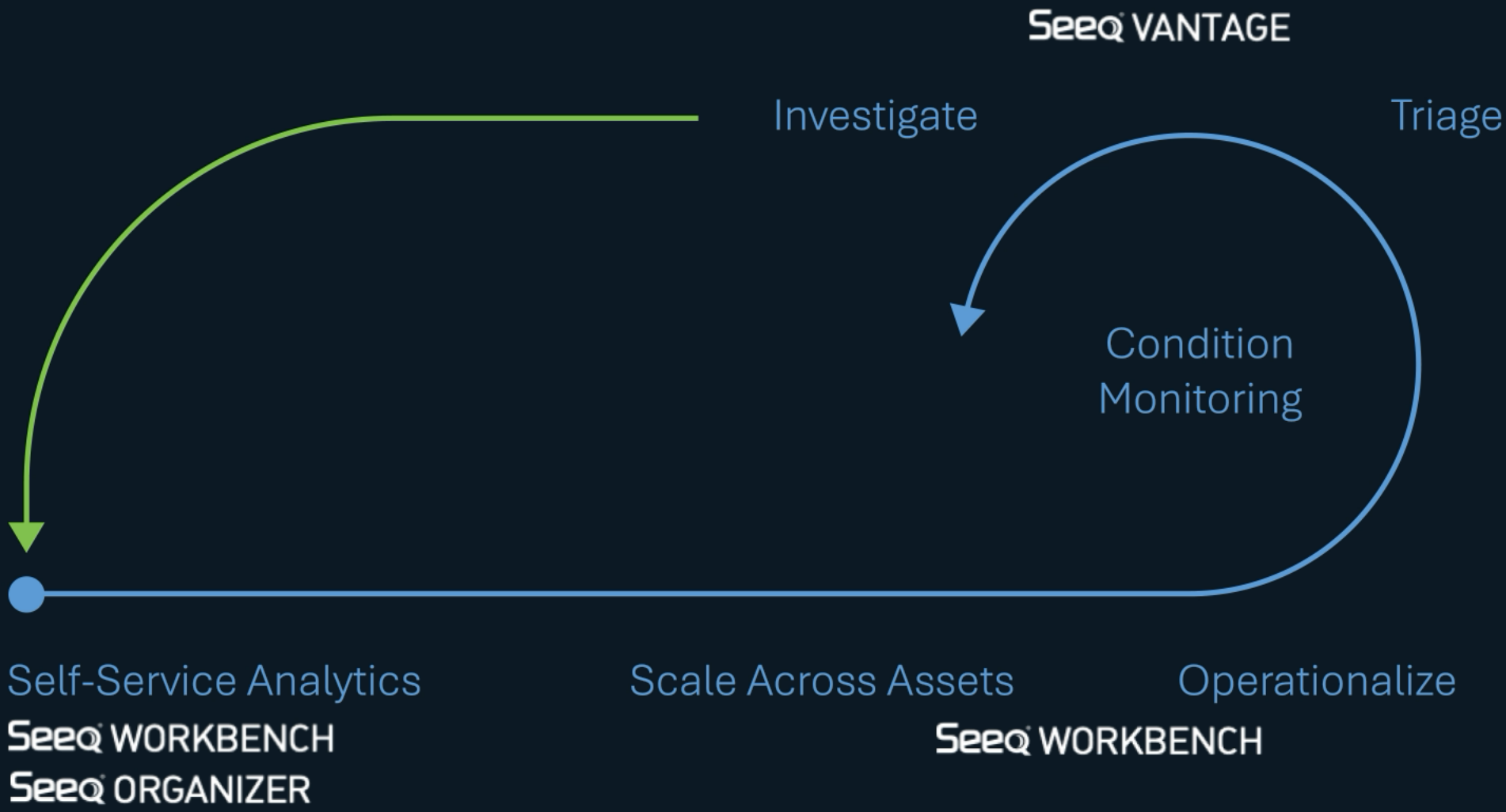
Scale Across Assets

Operationalize

Seeq WORKBENCH

connect


Seeq VANTAGE
Investigate
Triage
Condition Monitoring
Self-Service Analytics
Seeq WORKBENCH
Seeq ORGANIZER
Scale Across Assets
Seeq WORKBENCH
Operationalize


Seeq VANTAGE
Investigate
Triage
Condition
Monitoring
Self-Service Analytics
Seeq WORKBENCH
Seeq ORGANIZER
Scale Across Assets
Operationalize
Seeq WORKBENCH

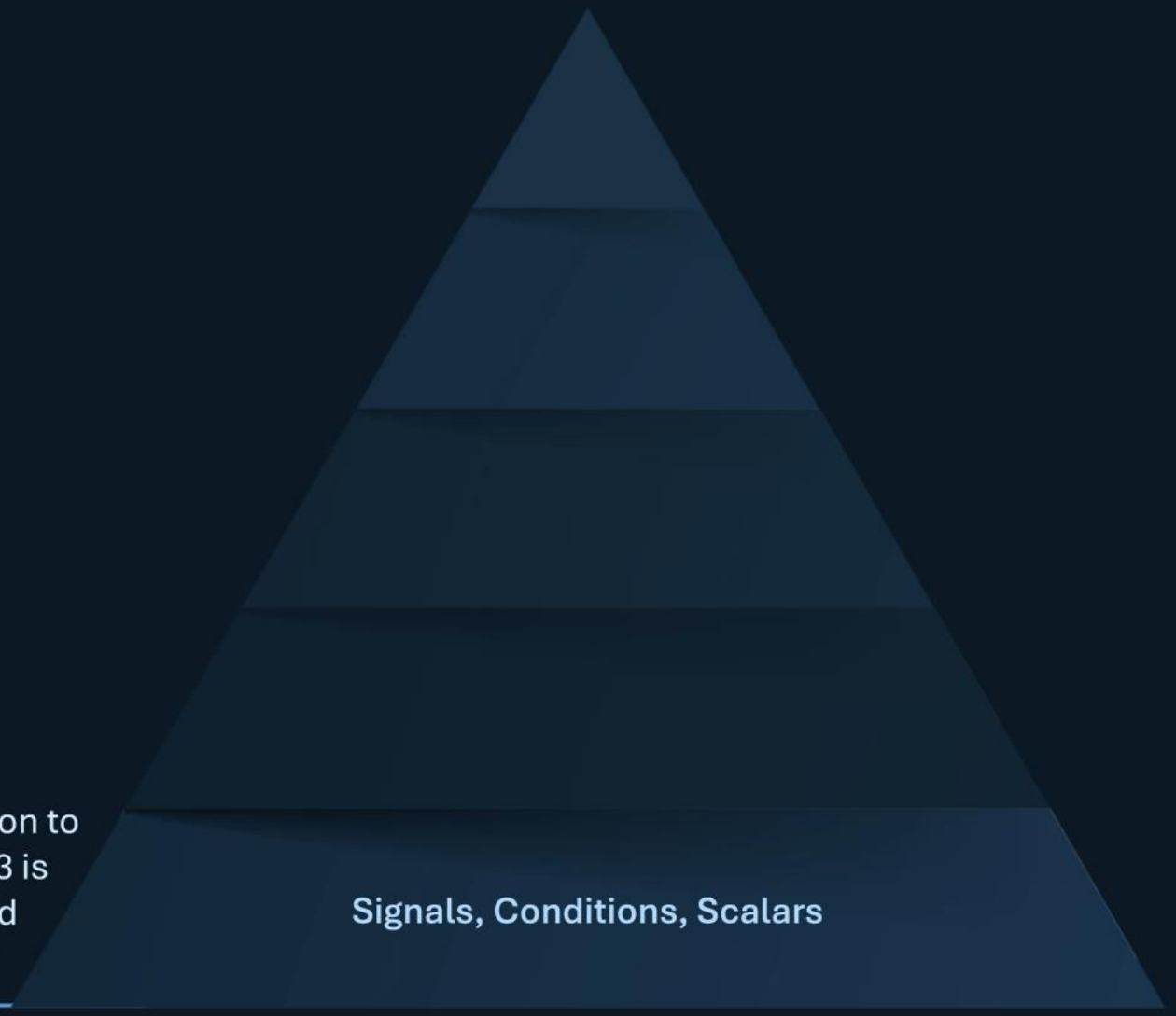
The Insights Pyramid

connegt

The Insights Pyramid

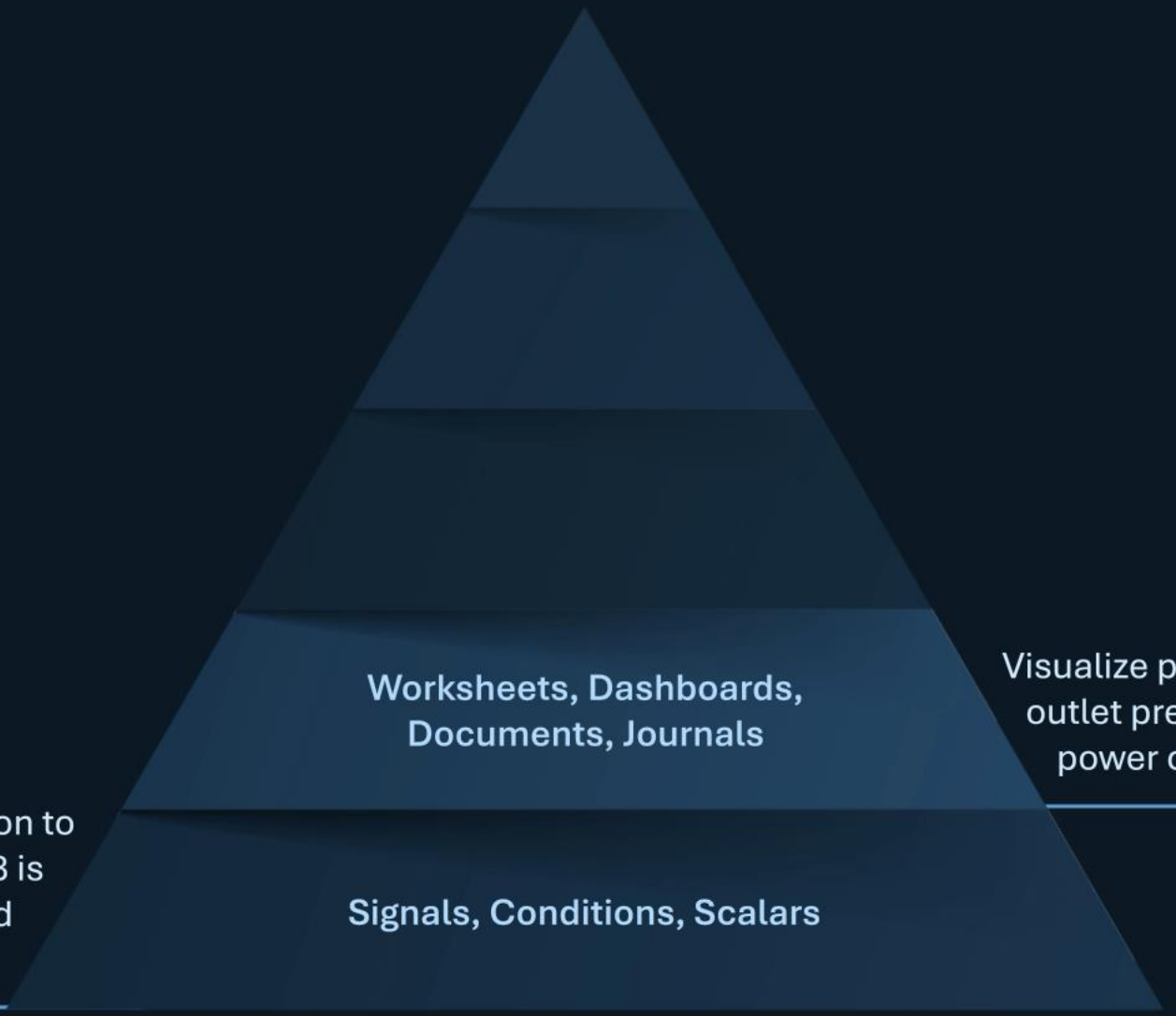
conneqt

The Insights Pyramid



Create a condition to detect when pump 123 is consuming more than 12kW and call it “Pump High Load.”

The Insights Pyramid



Visualize pump inlet and outlet pressures and associated power consumption.

Create a condition to detect when pump 123 is consuming more than 12kW and call it “Pump High Load.”

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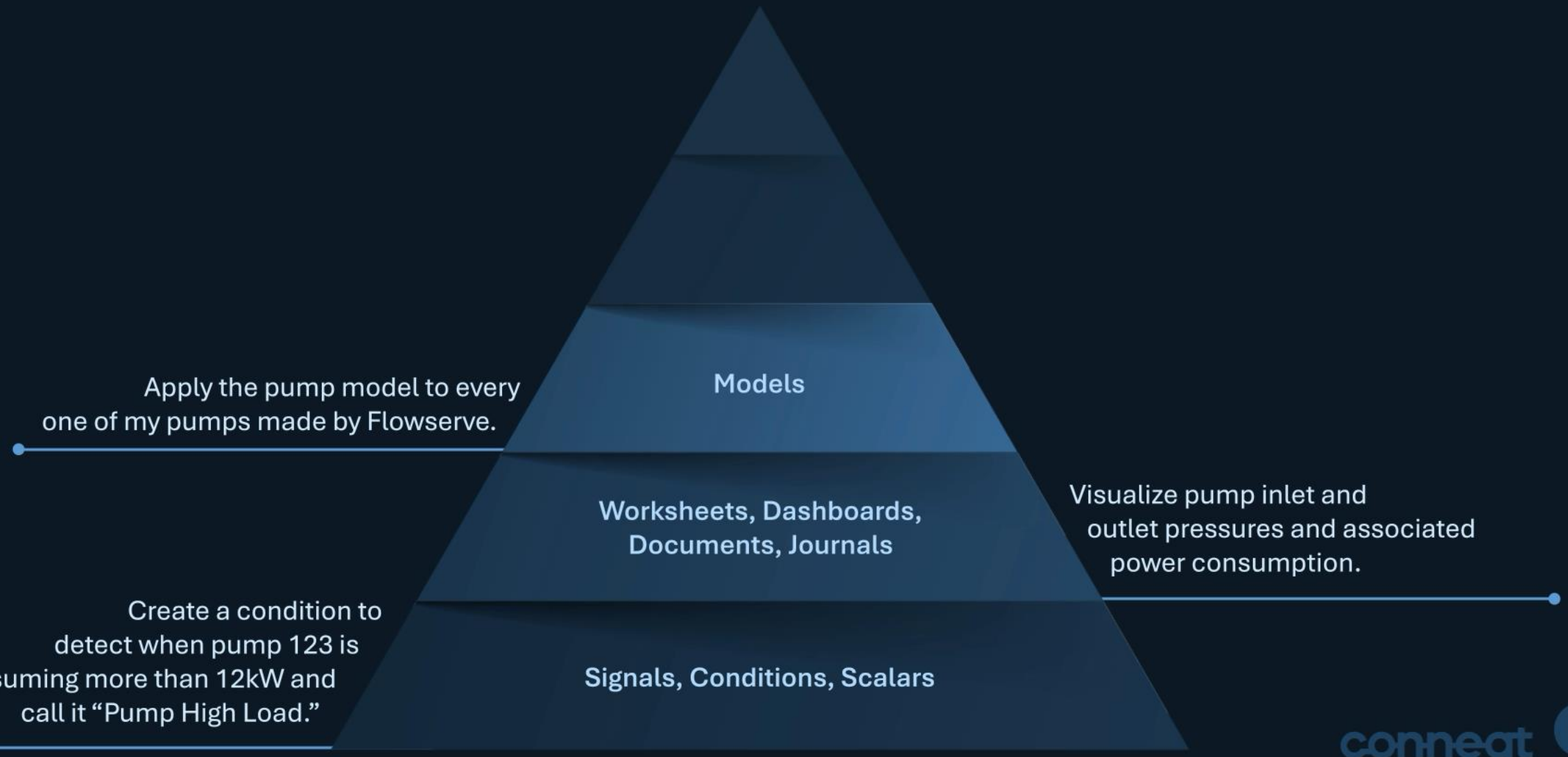
The Insights Pyramid



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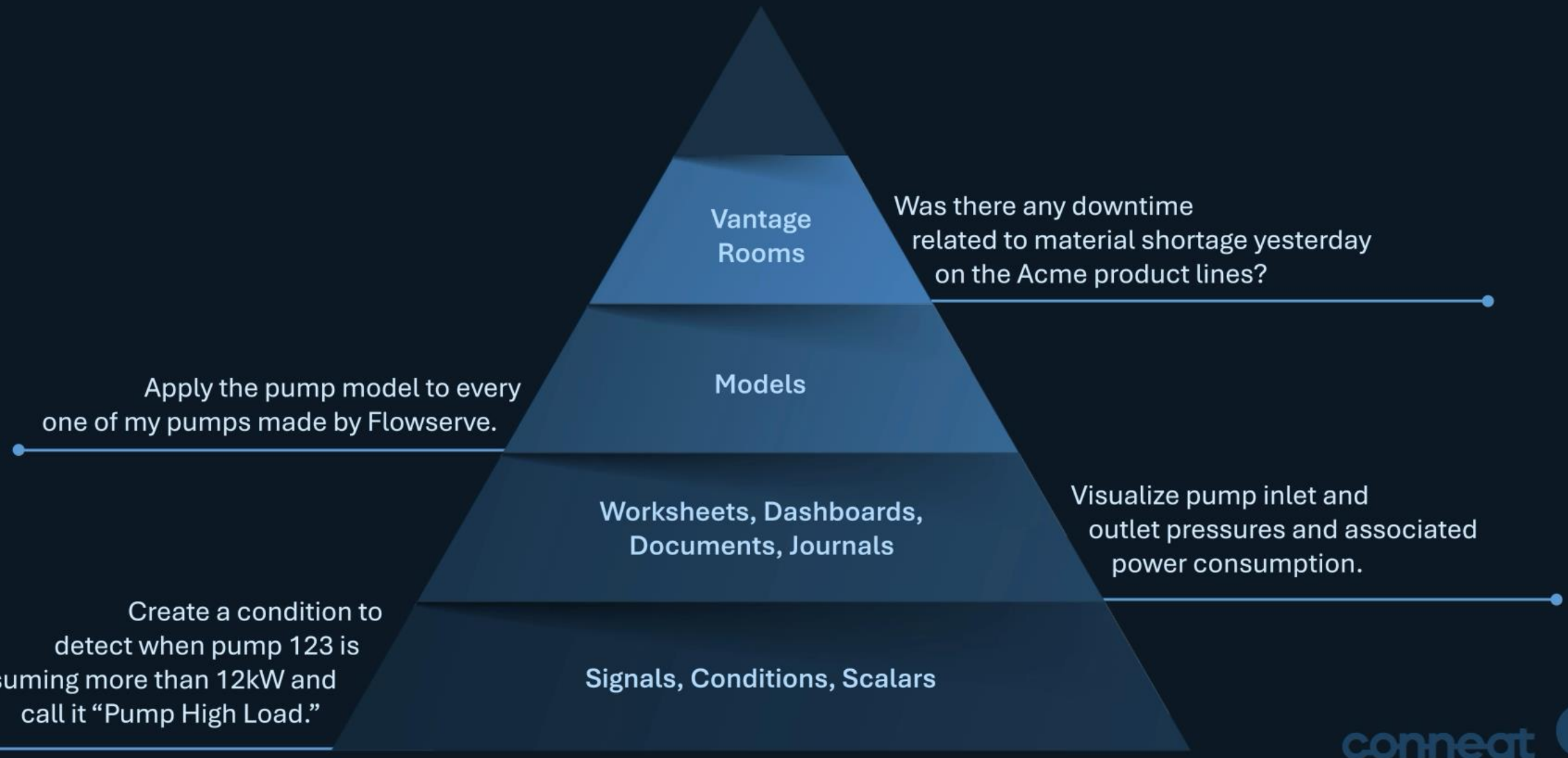
The Insights Pyramid



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Large Language Models and Seeq

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Seeq Virtual Office

February 2025

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JOANNA ZINSLI

DIRECTOR, PRODUCT MANAGEMENT

conneqt

Impact Reports

Premium AI

Analytics Change Management

Expanded AI Actions

No-code Scaling

ML Tools

Add-on Updates

Vantage Updates

Capabilities

conneqt

Impact Reports

Premium AI

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Capabilities

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Expanded AI Actions

- Analytics with AI Assistance
- Document with AI
- Let AI do tedious work

Lean on AI so you can do more, faster

Expanded AI Actions

- Analytics with AI Assistance
- Document with AI
- Let AI do tedious work

Lean on AI so you can do more, faster

Seeq WORKBENCH

My Folder

Unit 26 Interruptions - 1

Share

Worksheets

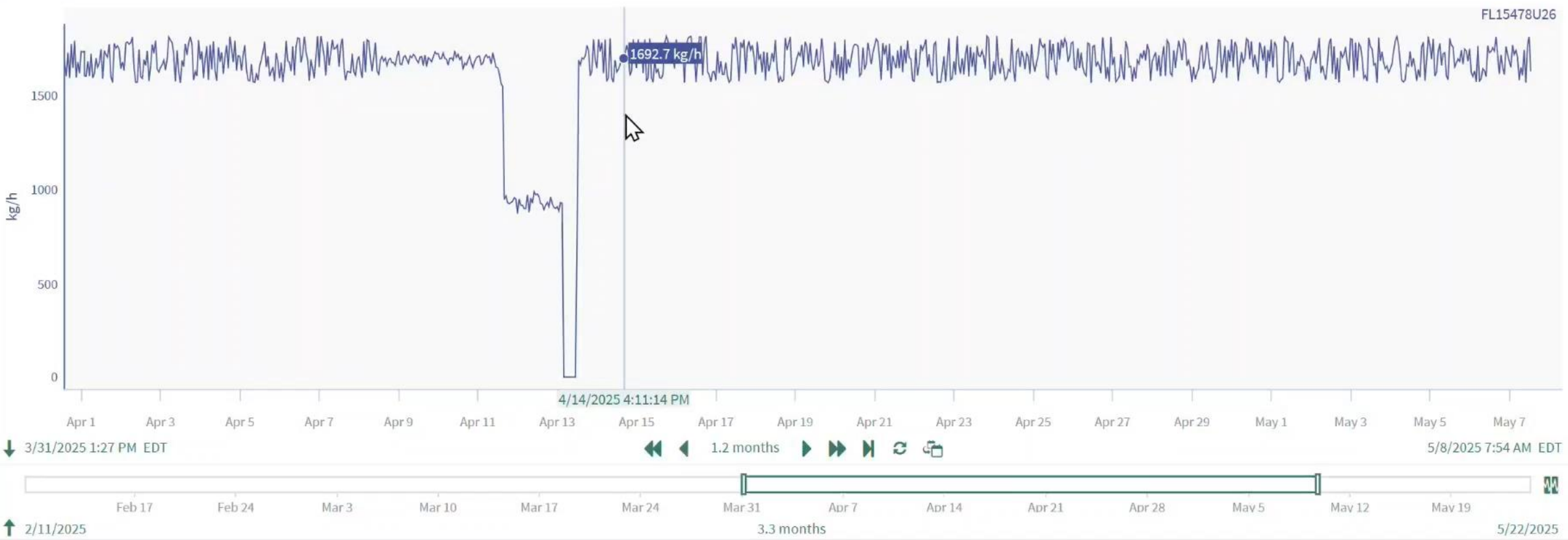
Data

Tools

Journal

Trend

Calendar | Chain | Capsule | Compare | One Lane | One Y-Axis | Reset | Labels | Gridlines | Color | Summary | Dimming | Certainty | Zoom | Annotate



Details

Apr 14, 2025 4:11 PM | Customize

Name	Asset	Lane	
kg/h FL15478U26	Data	1	1692.7

Expanded AI Actions

- Analytics with AI Assistance
- Document with AI
- Let AI do tedious work

Lean on AI so you can do more, faster

Trend

Simple
Condition
Chart View
Rows
Columns
Headers
Transpose
Striped
Asset
Group
Expand
Collapse
Wipe Chart
New Metric
Copy

Name

Group	Sum: Lost Opportunity Cost Avg
> Inventory Management Issues (3)	808353 $
> Other downtimes (1)	59500 $

2/6/2025 6:44 PM EST
3.1 months
5/11/2025 7:14 PM EDT

Details

Customize

	Name	Color	Asset	Lane
kg/h	FL15478U26		Data	3
kg/h	Lost Production		Data	4
kg	Totalized Lost Production		Data	5
$/kg	U26 Market Margin			6
$	Lost Opportunity Cost		Data	7

AI Assistant

New Chat

Explanation

1. Use the `Calculated Items - analyze or calculate items` action to multiply the market margin by totalized lost production for lost opportunity cost.

Attempting to create the following calculation(s): Lost Opportunity Cost with the corresponding formula(s):

seeq formula

```
// Step 1: Multiply U26 Market Margin by
Totalized Lost Production
$lost_opportunity_cost = $market_margin *
$totalized_lost_production

// Output
return $lost_opportunity_cost
```

Success

Created: 1 items

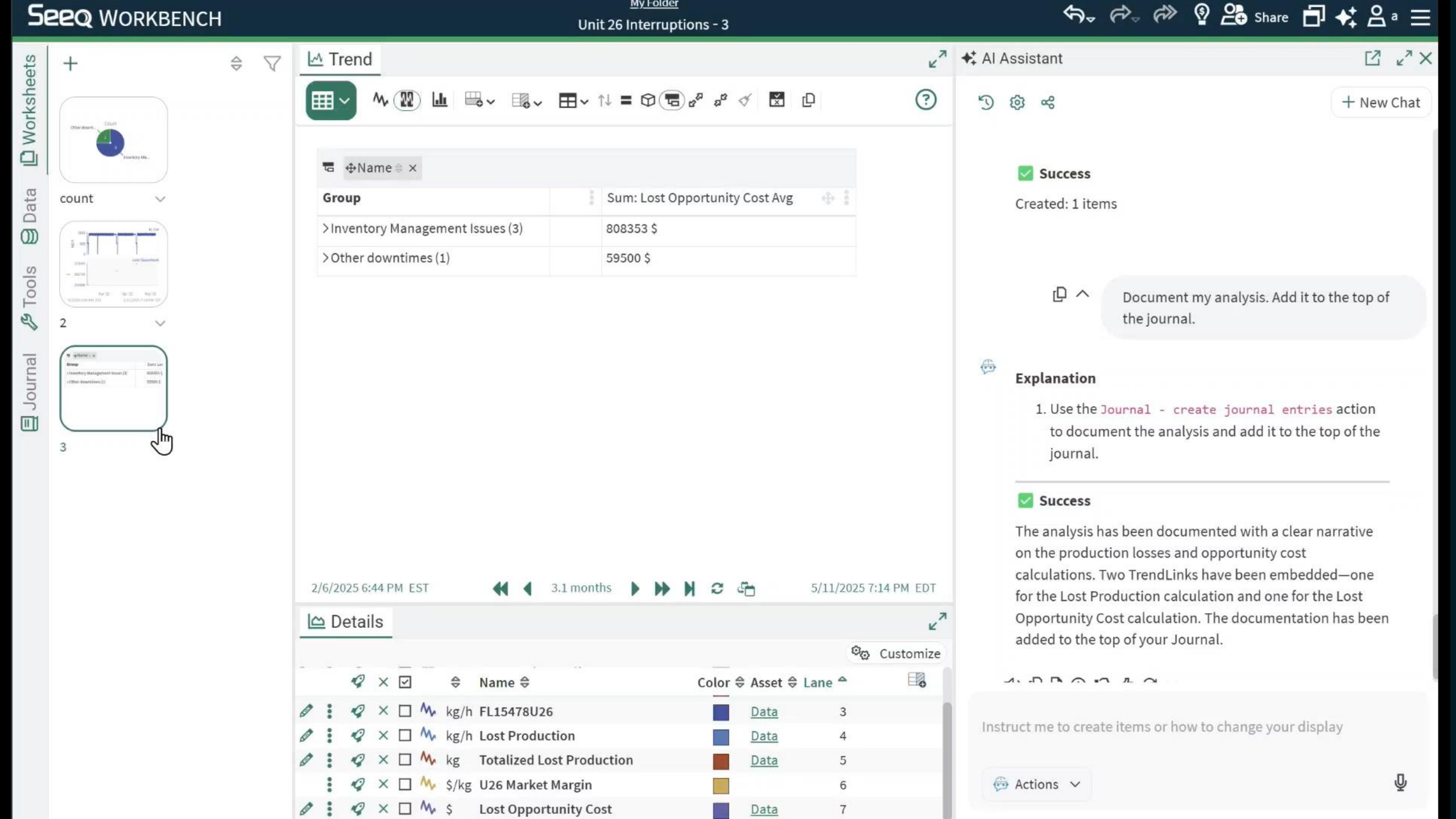
Instruct me to create items or how to change your display

Actions

Expanded AI Actions

- Analytics with AI Assistance
- Document with AI
- Let AI do tedious work

Lean on AI so you can do more, faster



Seeq WORKBENCH
My Folder
Unit 26 Interruptions - 3
Share
Worksheets
Data
Tools
Journal
count
2
3
Trend
Name
Group
Sum: Lost Opportunity Cost Avg
Inventory Management Issues (3)
808353 $
Other downtimes (1)
59500 $
2/6/2025 6:44 PM EST
3.1 months
5/11/2025 7:14 PM EDT
Details
Customize
Name
Color
Asset
Lane
kg/h FL15478U26 Data 3
kg/h Lost Production Data 4
kg Totalized Lost Production Data 5
$/kg U26 Market Margin 6
$ Lost Opportunity Cost Data 7
AI Assistant
New Chat
Success
Created: 1 items
Document my analysis. Add it to the top of the journal.
Explanation
1. Use the Journal - create journal entries action to document the analysis and add it to the top of the journal.
Success
The analysis has been documented with a clear narrative on the production losses and opportunity cost calculations. Two TrendLinks have been embedded—one for the Lost Production calculation and one for the Lost Opportunity Cost calculation. The documentation has been added to the top of your Journal.
Instruct me to create items or how to change your display
Actions

Expanded AI Actions

- Analytics with AI Assistance
- Document with AI
- Let AI do tedious work

Lean on AI so you can do more, faster

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SHAMUS CUNNINGHAM

HEAD OF CUSTOMER INSIGHTS

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Impact Reports

- Translate analytics into business value
- Capture and promote best practices
- Drive date-informed decision making

Elevate Your Impact for Repeatability

conneqt

Impact Reports

- Translate analytics into business value
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Elevate Your Impact for Repeatability

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Seeq

User

+ New

- Home
- My Folder
- Shared
- Corporate
- Users
- Trash
- Add-ons

Name | Search in current folder

Recently Opened | Pinned

Name	Owner	Creator	Created	Last Updated
My Folder Production Analysis	User Name	User Name	5/5/2025 4:46 PM	5/6/2025 8:02 AM
My Folder » Example Use Cases » Predicting Product Properties Use Case Selector: Predicting Product Properties	User Name	User Name	5/7/2025 2:27 PM	5/7/2025 6:25 PM
My Folder F1 Miami Analysis	User Name	User Name	5/5/2025 9:26 PM	5/5/2025 9:26 PM
Corporate » Demo Use Cases SPC Monitoring	User Name	User Name	5/5/2025 1:56 PM	5/5/2025 2:01 PM
Corporate » Demo Use Cases Overall Equipment Effectiveness (OEE)	User Name	User Name	5/5/2025 1:45 PM	5/5/2025 1:48 PM
My Folder » Example Use Cases » Energy Modeling Use Case Selector: Energy Model	User Name	User Name	5/7/2025 2:27 PM	5/7/2025 3:23 PM
My Folder » Example Use Cases » Chromatography Transition Analysis Use Case Selector: Chromatography Transition Analysis	User Name	User Name	5/7/2025 2:33 PM	5/7/2025 2:33 PM
Corporate » Demo Use Cases Batch Cycle Time Opimization	User Name	User Name	5/5/2025 1:11 PM	5/5/2025 1:12 PM
My Folder » Example Use Cases » Detector Exceedance Events Emissions Reporting During Detector Limit Exceedance Events	User Name	User Name	5/7/2025 3:12 PM	5/7/2025 3:12 PM
Corporate » Demo Use Cases Product Campaign Analytics	User Name	User Name	5/5/2025 2:01 PM	5/5/2025 2:02 PM

Page: 1 | Show: 10 | Previous | 1 | 2 | Next

Impact Reports

- Translate analytics into business value
- Capture and promote best practices
- Drive data-informed decision making

Elevate Your Impact for Repeatability

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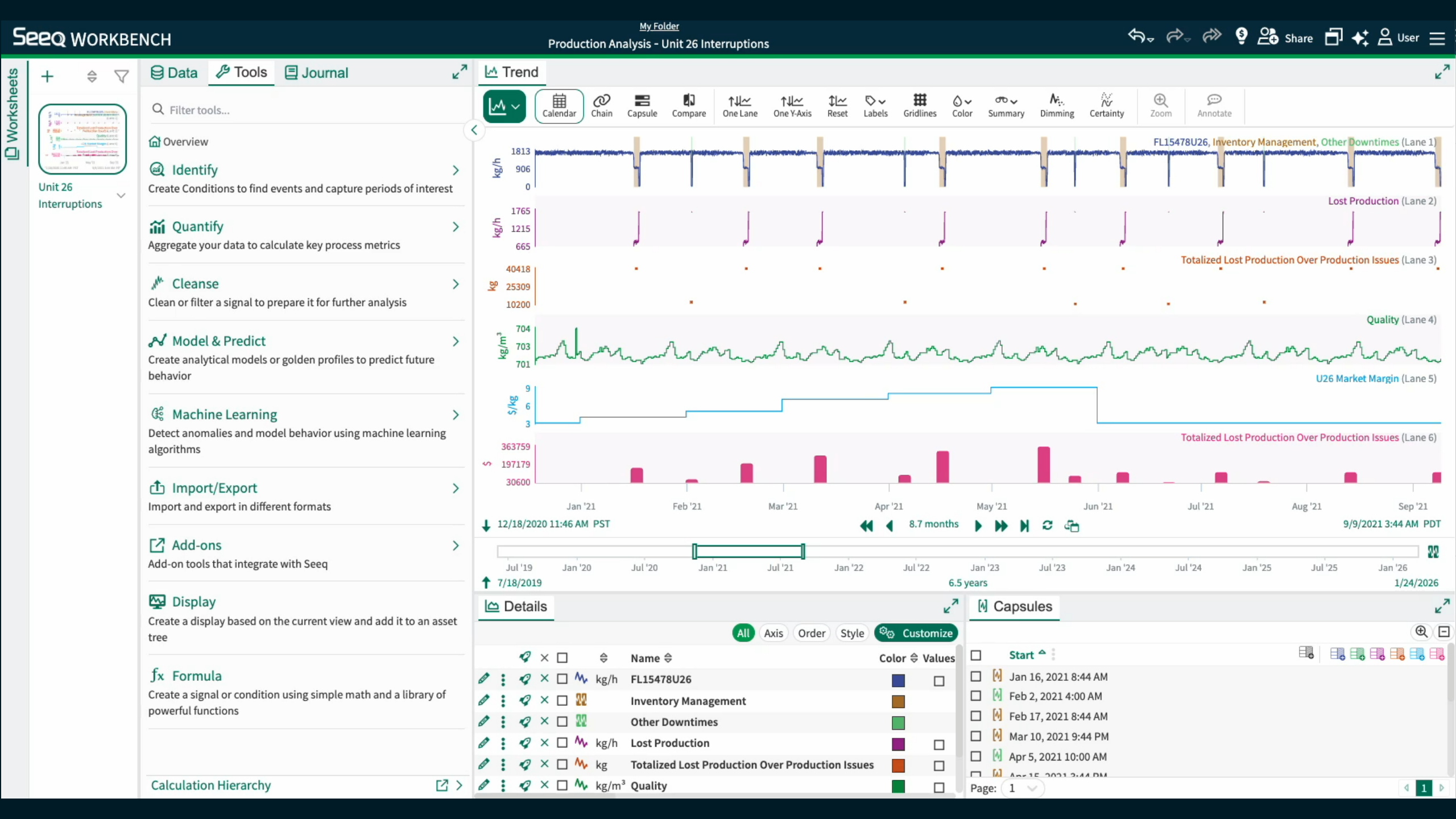
Seeq WORKBENCH
My Folder
Production Analysis - Unit 26 Interruptions
Share
User
Worksheets
Unit 26 Interruptions
Data
Tools
Journal
Filter tools...
Overview
Identify
Create Conditions to find events and capture periods of interest
Quantify
Aggregate your data to calculate key process metrics
Cleanse
Clean or filter a signal to prepare it for further analysis
Model & Predict
Create analytical models or golden profiles to predict future behavior
Machine Learning
Detect anomalies and model behavior using machine learning algorithms
Import/Export
Import and export in different formats
Add-ons
Add-on tools that integrate with Seeq
Display
Create a display based on the current view and add it to an asset tree
Formula
Create a signal or condition using simple math and a library of powerful functions
Calculation Hierarchy
Trend
Calendar
Chain
Capsule
Compare
One Lane
One Y-Axis
Reset
Labels
Gridlines
Color
Summary
Dimming
Certainty
Zoom
Annotate
FL15478U26, Inventory Management, Other Downtimes (Lane 1)
Lost Production (Lane 2)
Totalized Lost Production Over Production Issues (Lane 3)
Quality (Lane 4)
U26 Market Margin (Lane 5)
Totalized Lost Production Over Production Issues (Lane 6)
Jan '21
Feb '21
Mar '21
Apr '21
May '21
Jun '21
Jul '21
Aug '21
Sep '21
12/18/2020 11:46 AM PST
8.7 months
9/9/2021 3:44 AM PDT
7/18/2019
6.5 years
1/24/2026
Details
All
Axis
Order
Style
Customize
Name
Color
Values
FL15478U26
Inventory Management
Other Downtimes
Lost Production
Totalized Lost Production Over Production Issues
Quality
Capsules
Start
Jan 16, 2021 8:44 AM
Feb 2, 2021 4:00 AM
Feb 17, 2021 8:44 AM
Mar 10, 2021 9:44 PM
Apr 5, 2021 10:00 AM
Page: 1

Impact Reports

- Translate analytics into business value
- Capture and promote best practices
- Drive data-informed decision making

Elevate Your Impact for Repeatability

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Impact Reports

- Translate analytics into business value
- Capture and promote best practices
- Drive data-informed decision making

Elevate Your Impact for Repeatability

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No-Code Scaling

- AI-assisted search for scalable insights
- Fallback rules for asset variability
- Analytics applied at scale
- Multi-level asset contextualization

Find & Organize Data to Scale Calculations and Monitor to Drive Continuous Improvement

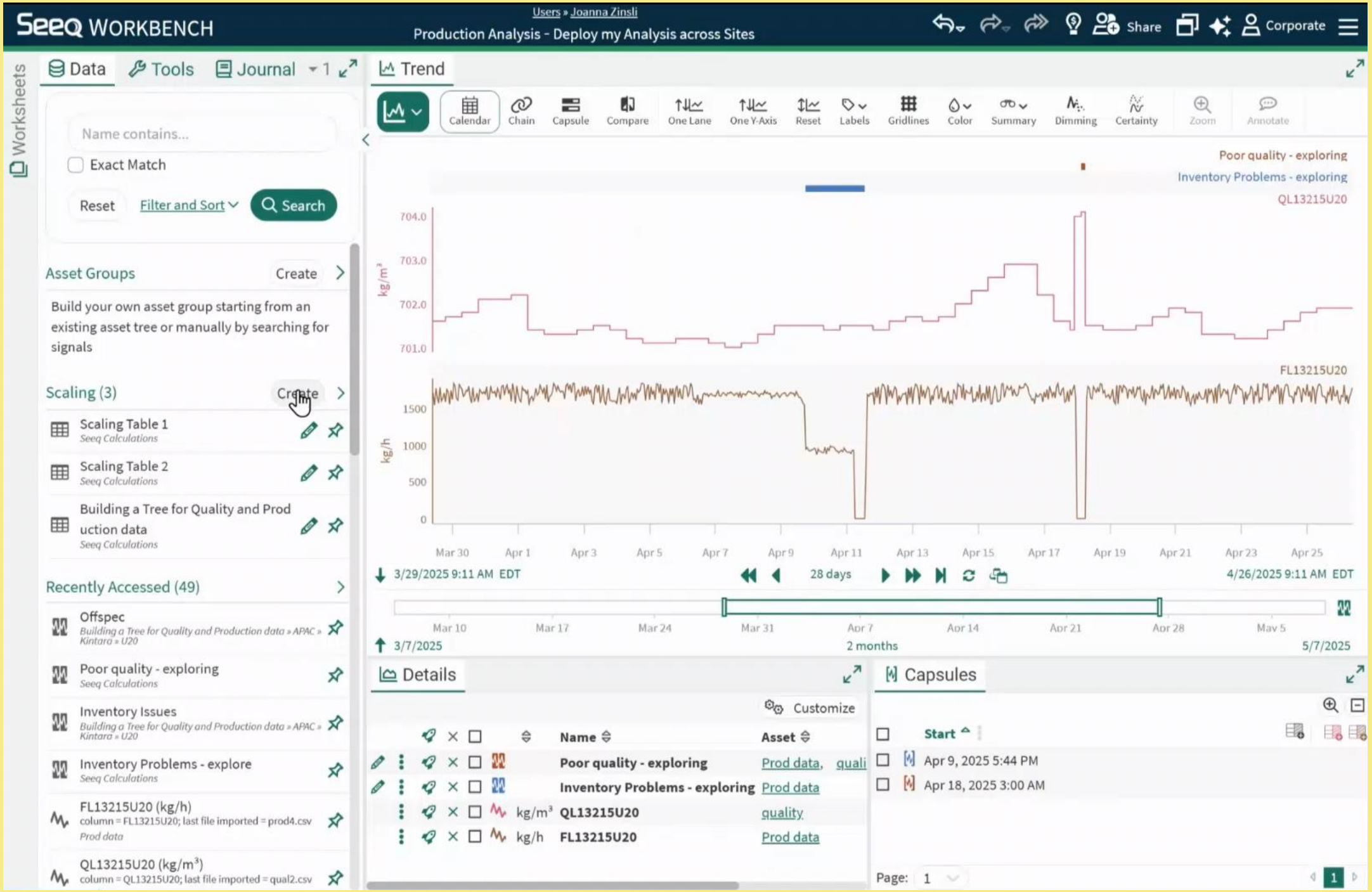
---

No-Code Scaling

- AI-assisted search for scalable insights
- Fallback rules for asset variability
- Analytics applied at scale
- Multi-level asset contextualization

Find & Organize Data to Scale Calculations and Monitor to Drive Continuous Improvement

---


Seeq WORKBENCH
Users » Joanna Zinsli
Production Analysis - Deploy my Analysis across Sites
Share
Corporate
Worksheets
Data
Tools
Journal
1
Name contains...
Exact Match
Reset
Filter and Sort
Search
Asset Groups
Create
Build your own asset group starting from an existing asset tree or manually by searching for signals
Scaling (3)
Create
Scaling Table 1
Seeq Calculations
Scaling Table 2
Seeq Calculations
Building a Tree for Quality and Production data
Seeq Calculations
Recently Accessed (49)
Offspec
Building a Tree for Quality and Production data » APAC » Kintara » U20
Poor quality - exploring
Seeq Calculations
Inventory Issues
Building a Tree for Quality and Production data » APAC » Kintara » U20
Inventory Problems - explore
Seeq Calculations
FL13215U20 (kg/h)
column = FL13215U20; last file imported = prod4.csv
Prod data
QL13215U20 (kg/m³)
column = QL13215U20; last file imported = qual2.csv
Trend
Calendar
Chain
Capsule
Compare
One Lane
One Y-Axis
Reset
Labels
Gridlines
Color
Summary
Dimming
Certainty
Zoom
Annotate
Poor quality - exploring
Inventory Problems - exploring
QL13215U20
704.0
703.0
702.0
701.0
kg/m³
FL13215U20
1500
1000
500
0
kg/h
Mar 30
Apr 1
Apr 3
Apr 5
Apr 7
Apr 9
Apr 11
Apr 13
Apr 15
Apr 17
Apr 19
Apr 21
Apr 23
Apr 25
3/29/2025 9:11 AM EDT
28 days
4/26/2025 9:11 AM EDT
Mar 10
Mar 17
Mar 24
Mar 31
Apr 7
Apr 14
Apr 21
Apr 28
May 5
3/7/2025
2 months
5/7/2025
Details
Customize
Name
Asset
Poor quality - exploring
Prod data, quali
Inventory Problems - exploring
Prod data
kg/m³ QL13215U20
quality
kg/h FL13215U20
Prod data
Capsules
Start
Apr 9, 2025 5:44 PM
Apr 18, 2025 3:00 AM
Page: 1
1

No-Code Scaling

- AI-assisted search for scalable insights
- Fallback rules for asset variability
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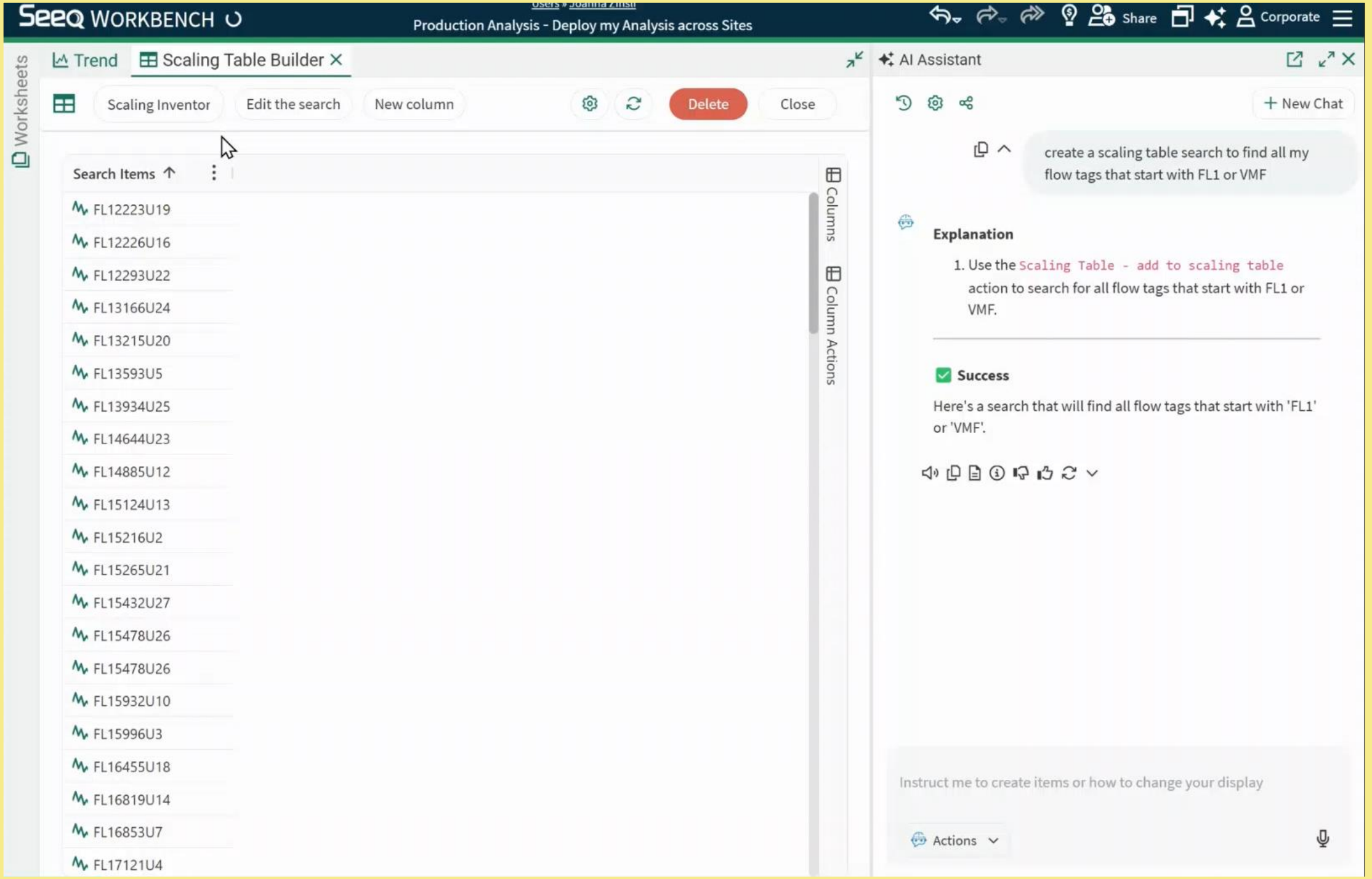
Find & Organize Data to Scale Calculations and Monitor to Drive Continuous Improvement

---


Seeq WORKBENCH
Users » Joanna Zinsli
Production Analysis - Deploy my Analysis across Sites
Share
Corporate
Worksheets
Trend
Scaling Table Builder
Scaling Inventor
Edit the search
New column
Delete
Close
Search Items
FL12223U19
FL12226U16
FL12293U22
FL13166U24
FL13215U20
FL13593U5
FL13934U25
FL14644U23
FL14885U12
FL15124U13
FL15216U2
FL15265U21
FL15432U27
FL15478U26
FL15478U26
FL15932U10
FL15996U3
FL16455U18
FL16819U14
FL16853U7
FL17121U4
Columns
Column Actions
AI Assistant
New Chat
create a scaling table search to find all my flow tags that start with FL1 or VMF
Explanation
1. Use the Scaling Table - add to scaling table action to search for all flow tags that start with FL1 or VMF.
Success
Here's a search that will find all flow tags that start with 'FL1' or 'VMF'.
Instruct me to create items or how to change your display
Actions

No-Code Scaling

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Find & Organize Data to Scale Calculations and Monitor to Drive Continuous Improvement

---

Seeq WORKBENCH

Users » Joanna Zinsli

Production Analysis - Deploy my Analysis across Sites

Share Corporate

Worksheets

Trend | Scaling Table Builder ×

Scaling Inventor | Edit the search | New column | Delete | Close

Search Items	Search Items Name	Unit
FL18981U30	FL18981U30	U30
FL19342U6	FL19342U6	U6
FL19391U9	FL19391U9	U9
FL19397U28	FL19397U28	U28
FL19628U1	FL19628U1	U1
FL19915U8	FL19915U8	U8
VMF1241S1L3	VMF1241S1L3	S1L3
VMF1275S2L9	VMF1275S2L9	S2L9
VMF1473S2L4	VMF1473S2L4	S2L4
VMF1649S4L9	VMF1649S4L9	S4L9
VMF1772S2L2	VMF1772S2L2	S2L2
VMF1793S1L7	VMF1793S1L7	S1L7
VMF1879S1L5	VMF1879S1L5	S1L5
VMF1889S1L11	VMF1889S1L11	S1L11
VMF2231S4L13	VMF2231S4L13	S4L13
VMF2255S3L2	VMF2255S3L2	S3L2
VMF2294S1L14	VMF2294S1L14	S1L14
VMF2411S3L12	VMF2411S3L12	S3L12
VMF2414S4L8	VMF2414S4L8	S4L8
VMF2424S2L11	VMF2424S2L11	S2L11

Columns | Column Actions

AI Assistant

New Chat

1. Use the `Scaling Table - add to scaling table` action to search for all flow tags that start with FL1 or VMF.

Success

Here's a search that will find all flow tags that start with 'FL1' or 'VMF'.

Now make a new column called Unit that extracts the Unit value from that column - the value U(any #s)

Explanation

1. Use the `Scaling Table - create columns` action to add a new column called Unit that extracts the Unit value from the column with the pattern U(any #s).

Success

Create a new column called 'Unit' that extracts the unit value from the 'Search Items Name' column, specifically the pattern 'U' followed by any numbers.

Instruct me to create items or how to change your display

Actions

No-Code Scaling

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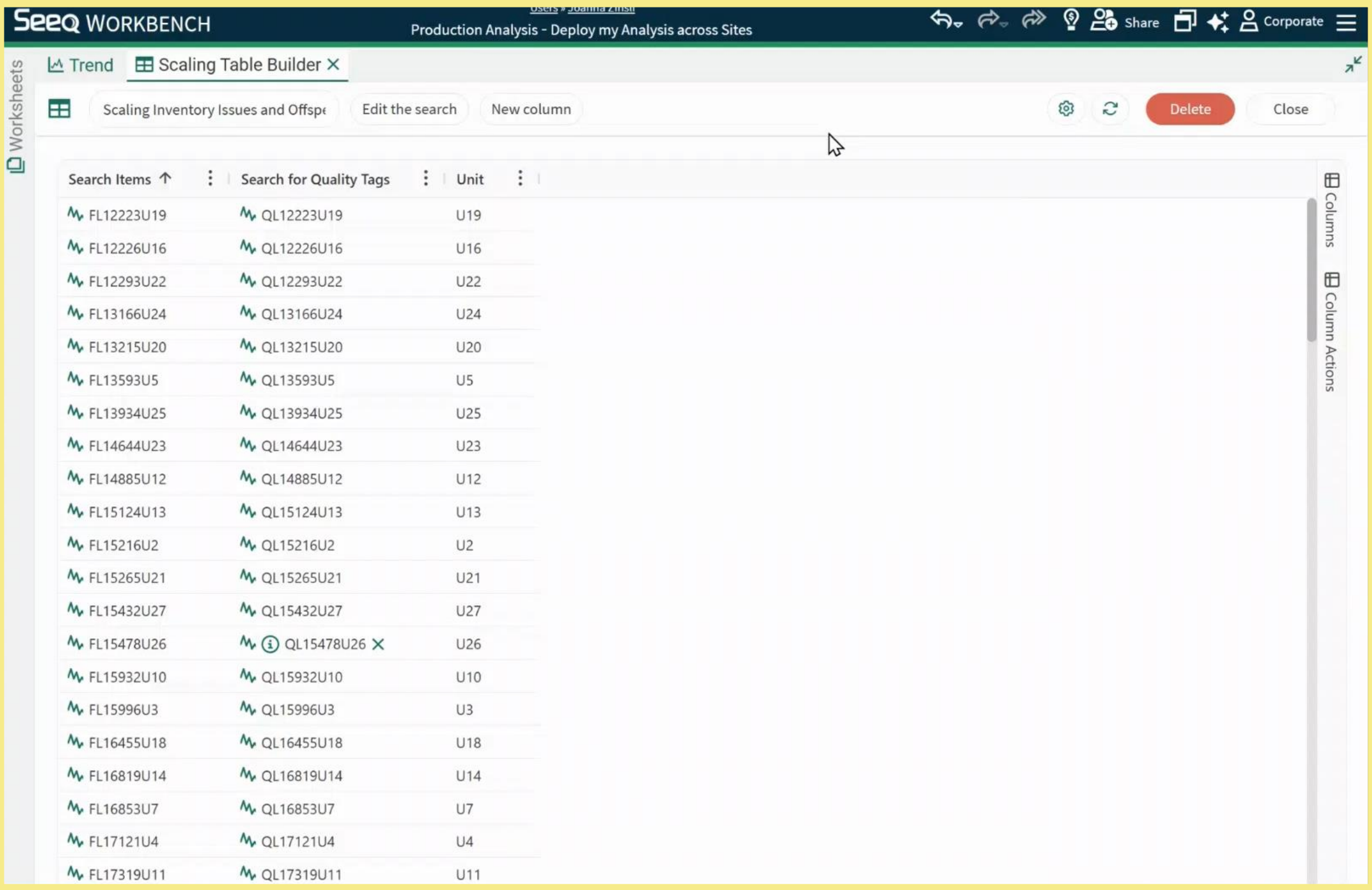
Find & Organize Data to Scale Calculations and Monitor to Drive Continuous Improvement

---


Seeq WORKBENCH
Users » Joanna Zinsli
Production Analysis - Deploy my Analysis across Sites
Share
Corporate
Worksheets
Trend
Scaling Table Builder
Scaling Inventory Issues and Offspe
Edit the search
New column
Delete
Close
Search Items
Search for Quality Tags
Unit
FL12223U19 QL12223U19 U19
FL12226U16 QL12226U16 U16
FL12293U22 QL12293U22 U22
FL13166U24 QL13166U24 U24
FL13215U20 QL13215U20 U20
FL13593U5 QL13593U5 U5
FL13934U25 QL13934U25 U25
FL14644U23 QL14644U23 U23
FL14885U12 QL14885U12 U12
FL15124U13 QL15124U13 U13
FL15216U2 QL15216U2 U2
FL15265U21 QL15265U21 U21
FL15432U27 QL15432U27 U27
FL15478U26 QL15478U26 U26
FL15932U10 QL15932U10 U10
FL15996U3 QL15996U3 U3
FL16455U18 QL16455U18 U18
FL16819U14 QL16819U14 U14
FL16853U7 QL16853U7 U7
FL17121U4 QL17121U4 U4
FL17319U11 QL17319U11 U11
Columns
Column Actions

No-Code Scaling

- AI-assisted search for scalable insights
- Fallback rules for asset variability
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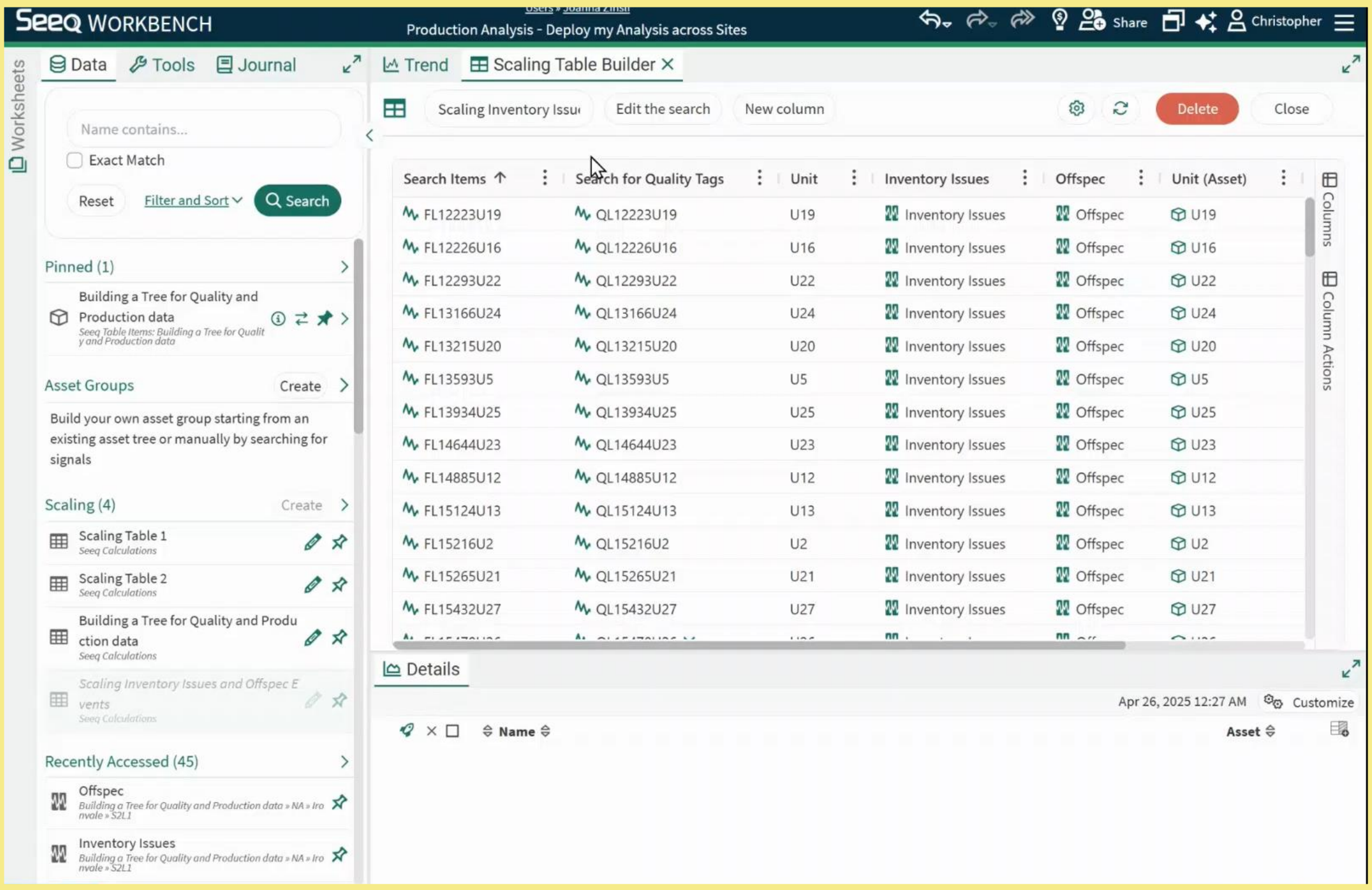
Find & Organize Data to Scale Calculations and Monitor to Drive Continuous Improvement

---


Seeq WORKBENCH
Production Analysis - Deploy my Analysis across Sites
Share
Christopher
Worksheets
Data
Tools
Journal
Name contains...
Exact Match
Reset
Filter and Sort
Search
Pinned (1)
Building a Tree for Quality and Production data
Seeq Table Items: Building a Tree for Quality and Production data
Asset Groups
Create
Build your own asset group starting from an existing asset tree or manually by searching for signals
Scaling (4)
Create
Scaling Table 1
Seeq Calculations
Scaling Table 2
Seeq Calculations
Building a Tree for Quality and Production data
Seeq Calculations
Scaling Inventory Issues and Offspec Events
Seeq Calculations
Recently Accessed (45)
Offspec
Building a Tree for Quality and Production data » NA » Ironvale » S2L1
Inventory Issues
Building a Tree for Quality and Production data » NA » Ironvale » S2L1
Trend
Scaling Table Builder
Scaling Inventory Issue
Edit the search
New column
Delete
Close
Search Items
Search for Quality Tags
Unit
Inventory Issues
Offspec
Unit (Asset)
FL12223U19 QL12223U19 U19 Inventory Issues Offspec U19
FL12226U16 QL12226U16 U16 Inventory Issues Offspec U16
FL12293U22 QL12293U22 U22 Inventory Issues Offspec U22
FL13166U24 QL13166U24 U24 Inventory Issues Offspec U24
FL13215U20 QL13215U20 U20 Inventory Issues Offspec U20
FL13593U5 QL13593U5 U5 Inventory Issues Offspec U5
FL13934U25 QL13934U25 U25 Inventory Issues Offspec U25
FL14644U23 QL14644U23 U23 Inventory Issues Offspec U23
FL14885U12 QL14885U12 U12 Inventory Issues Offspec U12
FL15124U13 QL15124U13 U13 Inventory Issues Offspec U13
FL15216U2 QL15216U2 U2 Inventory Issues Offspec U2
FL15265U21 QL15265U21 U21 Inventory Issues Offspec U21
FL15432U27 QL15432U27 U27 Inventory Issues Offspec U27
Columns
Column Actions
Details
Apr 26, 2025 12:27 AM
Customize
Name
Asset

No-Code Scaling

- AI-assisted search for scalable insights
- Fallback rules for asset variability
- Analytics applied at scale
- Multi-level asset contextualization

Find & Organize Data to Scale Calculations and Monitor to Drive Continuous Improvement

---

Vantage Updates

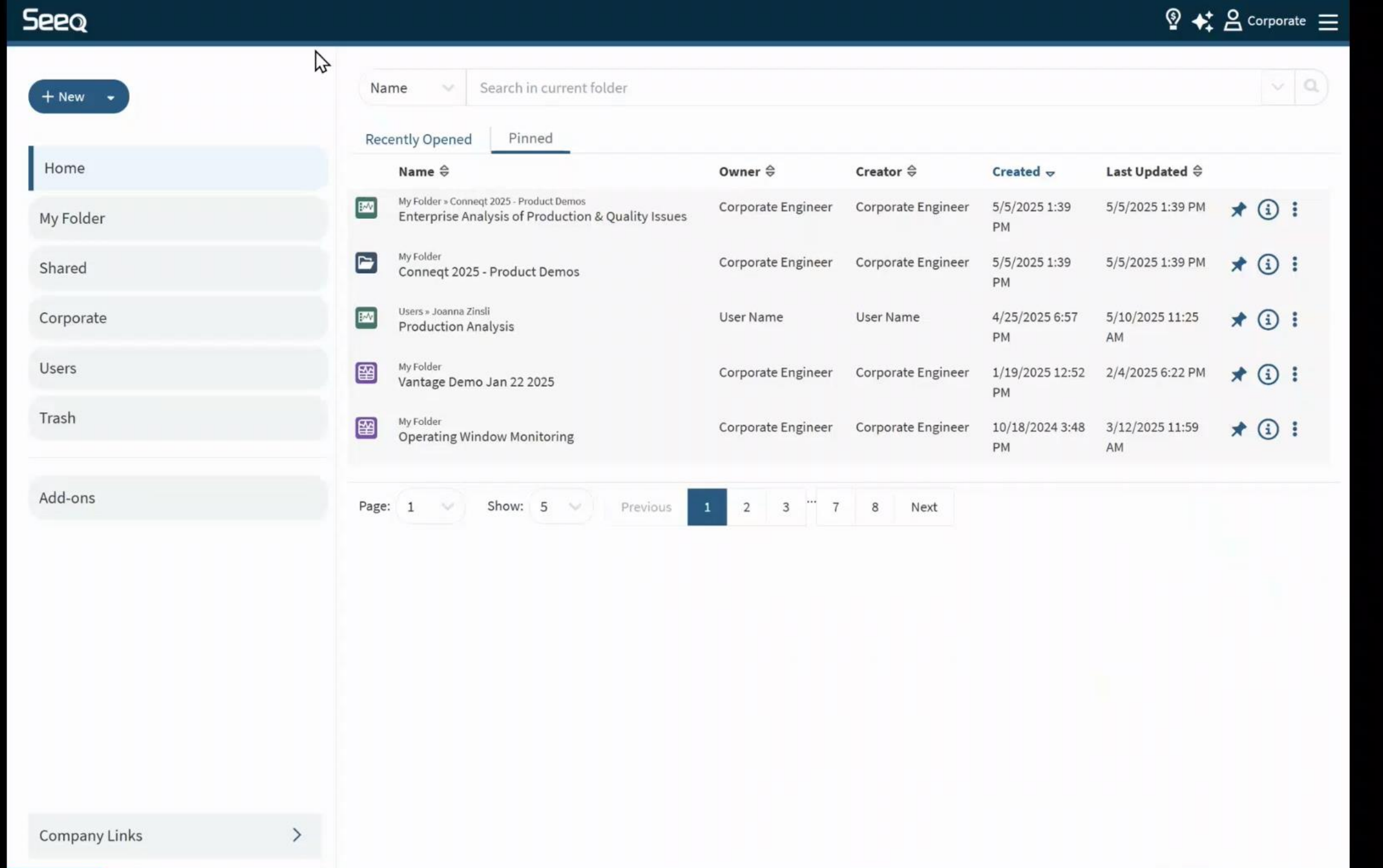
- Vantage Rooms: Self-service setup
- Organize events for triage and collaboration
- Capture expert knowledge during monitoring workflows

Flexible Workflows to Monitor across your Enterprise

Vantage Updates

- Vantage Rooms: Self-service setup
- Organize events for triage and collaboration
- Capture expert knowledge during monitoring workflows

Flexible Workflows to Monitor across your Enterprise


Seeq
Corporate
+ New
Home
My Folder
Shared
Corporate
Users
Trash
Add-ons
Company Links
Name
Search in current folder
Recently Opened
Pinned
Name
Owner
Creator
Created
Last Updated
My Folder » Conneqt 2025 - Product Demos
Enterprise Analysis of Production & Quality Issues
Corporate Engineer
Corporate Engineer
5/5/2025 1:39 PM
5/5/2025 1:39 PM
My Folder
Conneqt 2025 - Product Demos
Corporate Engineer
Corporate Engineer
5/5/2025 1:39 PM
5/5/2025 1:39 PM
Users » Joanna Zinsli
Production Analysis
User Name
User Name
4/25/2025 6:57 PM
5/10/2025 11:25 AM
My Folder
Vantage Demo Jan 22 2025
Corporate Engineer
Corporate Engineer
1/19/2025 12:52 PM
2/4/2025 6:22 PM
My Folder
Operating Window Monitoring
Corporate Engineer
Corporate Engineer
10/18/2024 3:48 PM
3/12/2025 11:59 AM
Page: 1
Show: 5
Previous
1
2
3
...
7
8
Next

Vantage Updates

- Vantage Rooms: Self-service setup
- Organize events for triage and collaboration
- Capture expert knowledge during monitoring workflows

Flexible Workflows to Monitor across your Enterprise

Settings

Evidence

Inventory Issues by Site

4/1/2025 8:49 AM EDT - 4/26/2025 8:49 AM EDT

QuickTrend

Site

Filter table...

Site	Start	End	Flagged	Labels	Reviewe
Caldrith (1)	Apr 24, 2025, 8:44 PM	Apr 26, 2025, 12:00 PM			
Ironvale (13)	Apr 7, 2025, 4:46 AM	Apr 26, 2025, 12:00 PM			
Forgehaven (12)	Apr 4, 2025, 10:44 AM	Apr 26, 2025, 12:00 PM			
Velmark (6)	Apr 3, 2025, 2:44 AM	Apr 25, 2025, 9:00 AM			
Harborstone (14)	Apr 14, 2025, 12:44 AM	Apr 25, 2025, 9:00 AM			
Westmoor (13)	Apr 3, 2025, 2:44 AM	Apr 25, 2025, 9:00 AM			
Kintara (9)	Apr 4, 2025, 10:44 AM	Apr 24, 2025, 10:00 AM			
Stravon (4)	Apr 6, 2025, 4:44 AM	Apr 19, 2025, 7:00 AM			
Mirelan (2)	Apr 4, 2025, 10:44 AM	Apr 18, 2025, 9:00 PM			
Millcrest (10)	Apr 6, 2025, 4:44 AM	Apr 14, 2025, 2:00 PM			
Veltrin (1)	Apr 12, 2025, 2:44 PM	Apr 14, 2025, 10:00 AM			
Bravora (1)	Apr 11, 2025, 7:44 AM	Apr 13, 2025, 3:00 AM			
Carrick (1)	Apr 11, 2025, 5:44 AM	Apr 13, 2025, 1:00 AM			
Norham (1)	Apr 7, 2025, 5:44 AM	Apr 9, 2025, 1:00 AM			
Lembak (1)	Apr 6, 2025, 4:44 AM	Apr 8, 2025, 12:00 AM			

Context

Currently selected: 1 Site

History

Search context

The selected items have no context.

Flag Review Label Suppress Reason codes

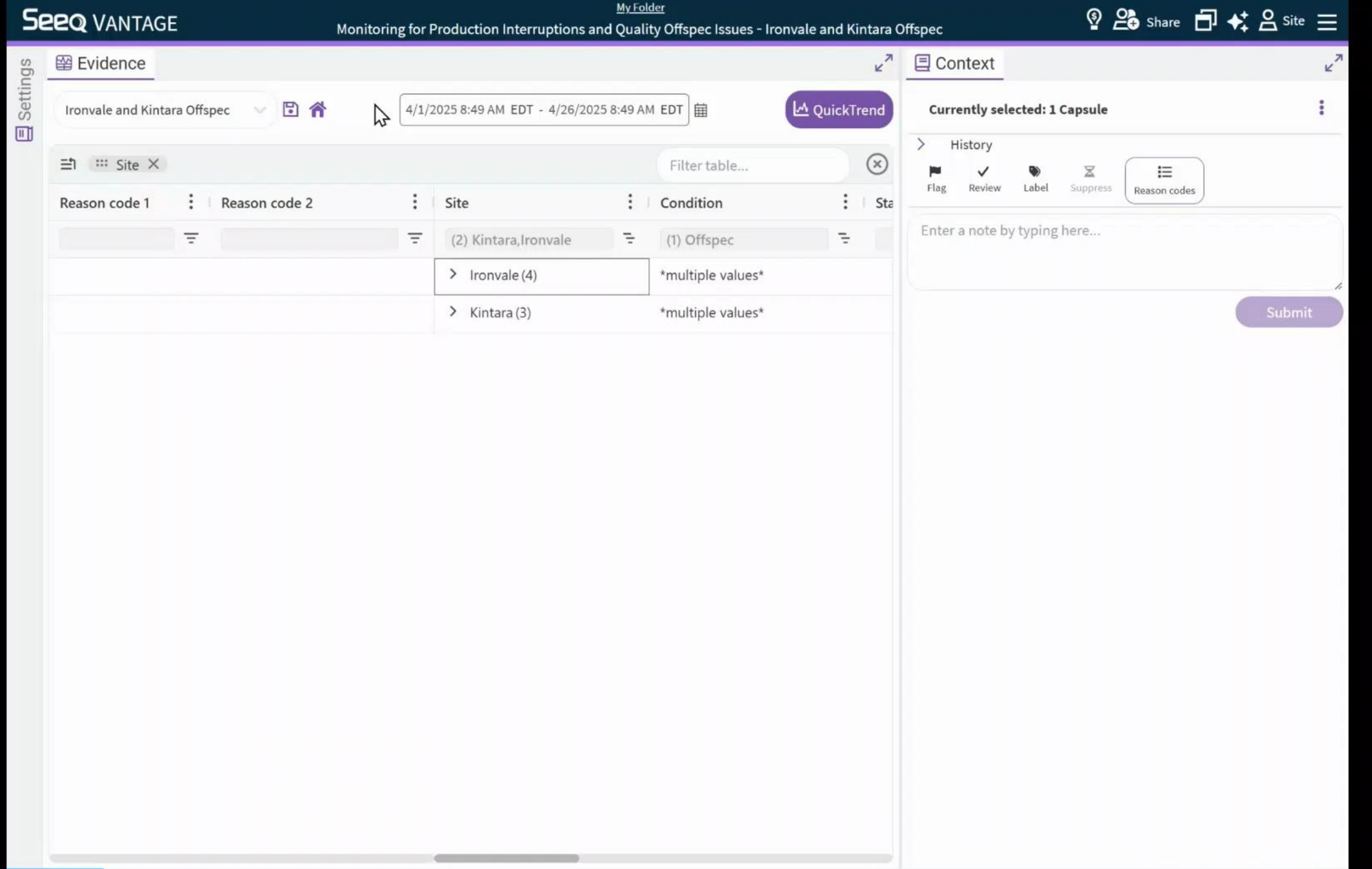
Enter a note by typing here...

Submit

Vantage Updates

- Vantage Rooms: Self-service setup
- Organize events for triage and collaboration
- Capture expert knowledge during monitoring workflows

Flexible Workflows to Monitor across your Enterprise


Seeq VANTAGE
My Folder
Monitoring for Production Interruptions and Quality Offspec Issues - Ironvale and Kintara Offspec
Share
Site
Settings
Evidence
Ironvale and Kintara Offspec
4/1/2025 8:49 AM EDT - 4/26/2025 8:49 AM EDT
QuickTrend
Site
Filter table...
Reason code 1
Reason code 2
Site
Condition
Sta
(2) Kintara,Ironvale
(1) Offspec
Ironvale (4)
multiple values
Kintara (3)
multiple values
Context
Currently selected: 1 Capsule
History
Flag
Review
Label
Suppress
Reason codes
Enter a note by typing here...
Submit

Vantage Updates

- Vantage Rooms: self-service setup
- Organize events for triage and collaboration
- Capture expert knowledge during monitoring workflows

Flexible Workflows to Monitor across your Enterprise

Premium AI

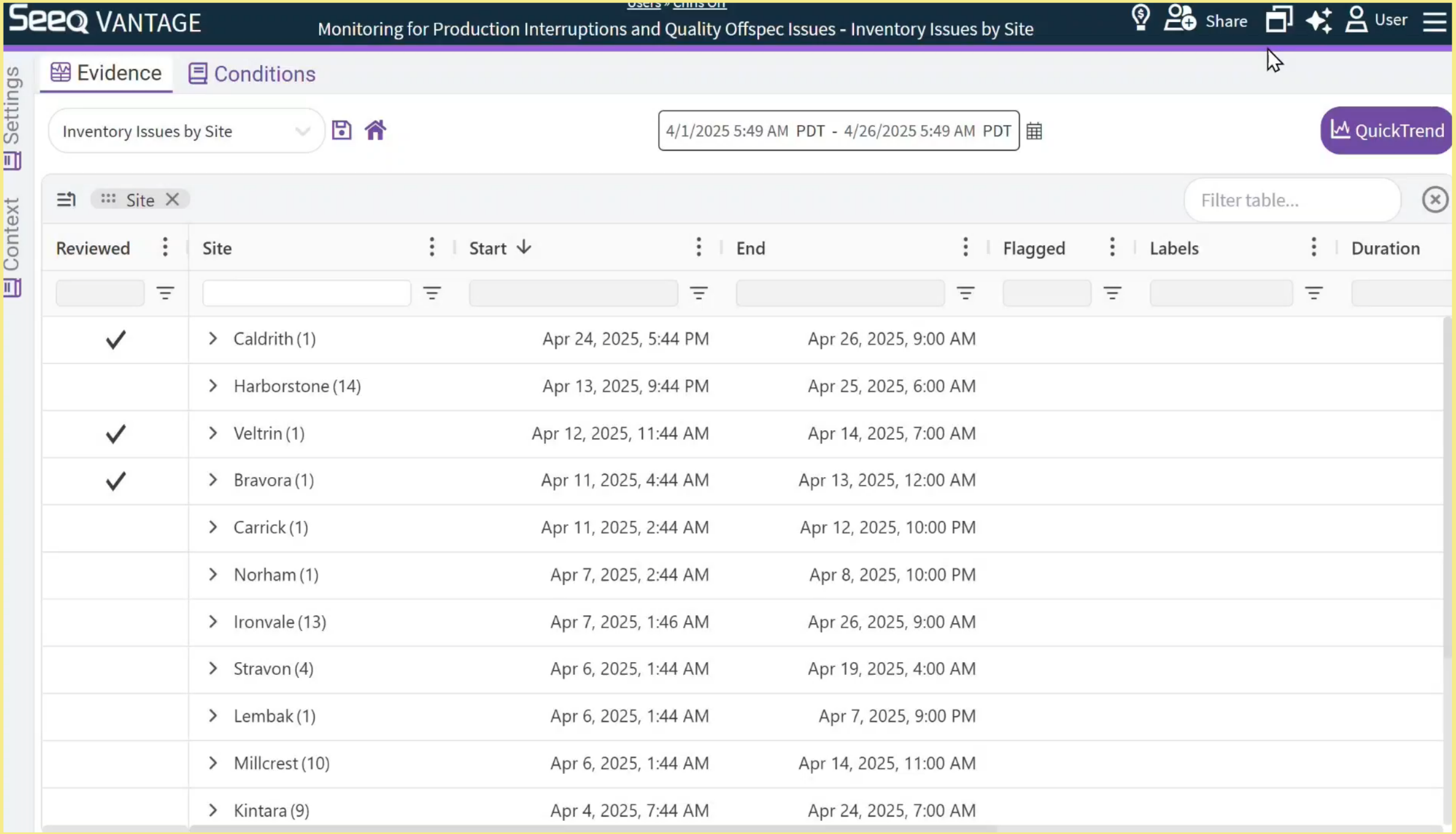
- Reason and perform multi-step analytics
- Respond with text and interactive visuals
- Access external documentation or knowledge in Seeq

Accelerate Discovery And Scale Expertise

Premium AI

- Reason and perform multi-step analytics
- Respond with text and interactive visuals
- Access external documentation or knowledge in Seeq

Accelerate Discovery And Scale Expertise


Seeq VANTAGE
Monitoring for Production Interruptions and Quality Offspec Issues - Inventory Issues by Site
Share
User
Settings
Context
Evidence
Conditions
Inventory Issues by Site
4/1/2025 5:49 AM PDT - 4/26/2025 5:49 AM PDT
QuickTrend
Site
Filter table...
Reviewed
Site
Start
End
Flagged
Labels
Duration
Caldrith (1) Apr 24, 2025, 5:44 PM Apr 26, 2025, 9:00 AM
Harborstone (14) Apr 13, 2025, 9:44 PM Apr 25, 2025, 6:00 AM
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Ironvale (13) Apr 7, 2025, 1:46 AM Apr 26, 2025, 9:00 AM
Stravon (4) Apr 6, 2025, 1:44 AM Apr 19, 2025, 4:00 AM
Lembak (1) Apr 6, 2025, 1:44 AM Apr 7, 2025, 9:00 PM
Millcrest (10) Apr 6, 2025, 1:44 AM Apr 14, 2025, 11:00 AM
Kintara (9) Apr 4, 2025, 7:44 AM Apr 24, 2025, 7:00 AM

Premium AI

- Reason and perform multi-step analytics
- Respond with text and interactive visuals
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Accelerate Discovery And Scale Expertise

Settings
Context

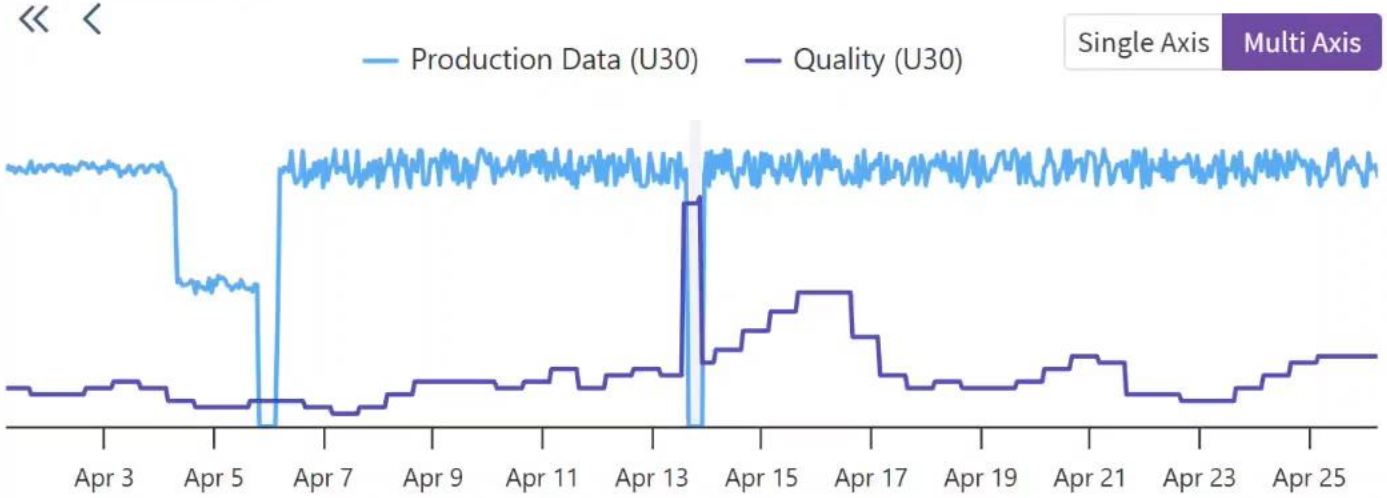
Evidence | Conditions

All Offspec Events by Site

4/1/2025 5:49 AM PDT - 4/26/2025 5:49 AM PDT

QuickTrend

Single Axis | Multi Axis



Site

Filter table...

Reason code 1	Reason code 2	Site	Condition
multiple values	*multiple values*	Mirelan (1)	*multiple
multiple values	*multiple values*	Kintara (3)	*multiple
multiple values	*multiple values*	Millcrest (5)	*multiple

AI Assistant

+ New Chat

General Agent

Follow up with more question or info to refine my answers.

Agent Q

I can help you gather insights about your operations

TΩme

I can answer questions using your company documentation

Ask me anything about Seeq or industrial analytics

General

Premium AI

- Reason and perform multi-step analytics
- Respond with text and interactive visuals
- Access external documentation or knowledge in Seeq

Accelerate Discovery And Scale Expertise

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JOHN GARRAMONE
PRODUCT MANAGER

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Machine Learning (ML)

- Predicting with Partial Least Squares
- Refining the Data
- Detecting Deviations with Traditional and Machine Learning Methods

Machine Learning (ML)

- Predicting with Partial Least Squares
- Refining the Data
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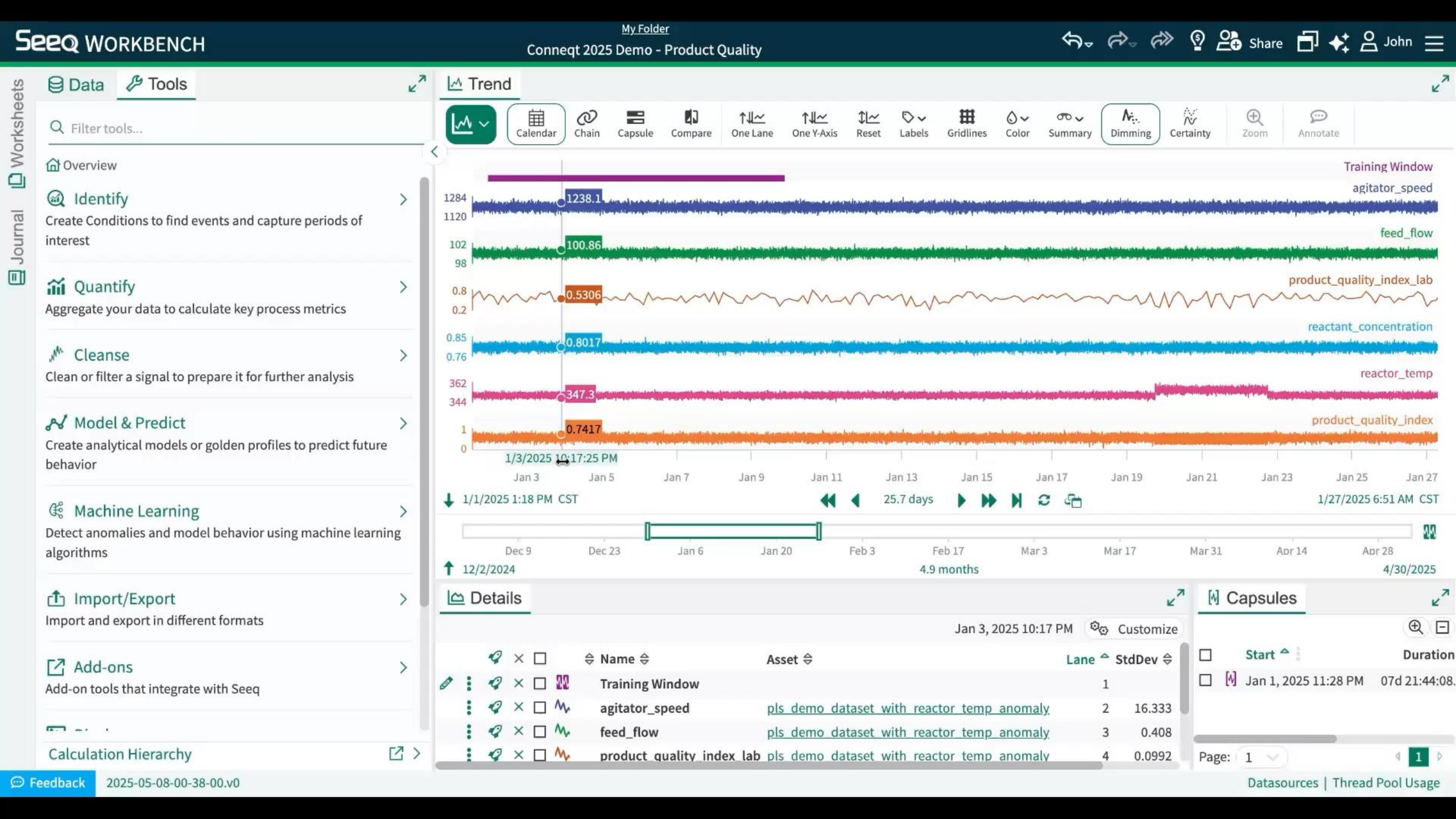
Making Hybrid Analytics Simple

conneqt


Seeq WORKBENCH
My Folder
Conneqt 2025 Demo - Product Quality
Share
John
Worksheets
Journal
Data
Tools
Filter tools...
Overview
Identify
Create Conditions to find events and capture periods of interest
Quantify
Aggregate your data to calculate key process metrics
Cleanse
Clean or filter a signal to prepare it for further analysis
Model & Predict
Create analytical models or golden profiles to predict future behavior
Machine Learning
Detect anomalies and model behavior using machine learning algorithms
Import/Export
Import and export in different formats
Add-ons
Add-on tools that integrate with Seeq
Calculation Hierarchy
Trend
Calendar
Chain
Capsule
Compare
One Lane
One Y-Axis
Reset
Labels
Gridlines
Color
Summary
Dimming
Certainty
Zoom
Annotate
Training Window
agitator_speed
1284
1120
1238.1
feed_flow
102
98
100.86
product_quality_index_lab
0.8
0.2
0.5306
reactant_concentration
0.85
0.76
0.8017
reactor_temp
362
344
347.3
product_quality_index
1
0
0.7417
1/3/2025 10:17:25 PM
Jan 3
Jan 5
Jan 7
Jan 9
Jan 11
Jan 13
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Jan 17
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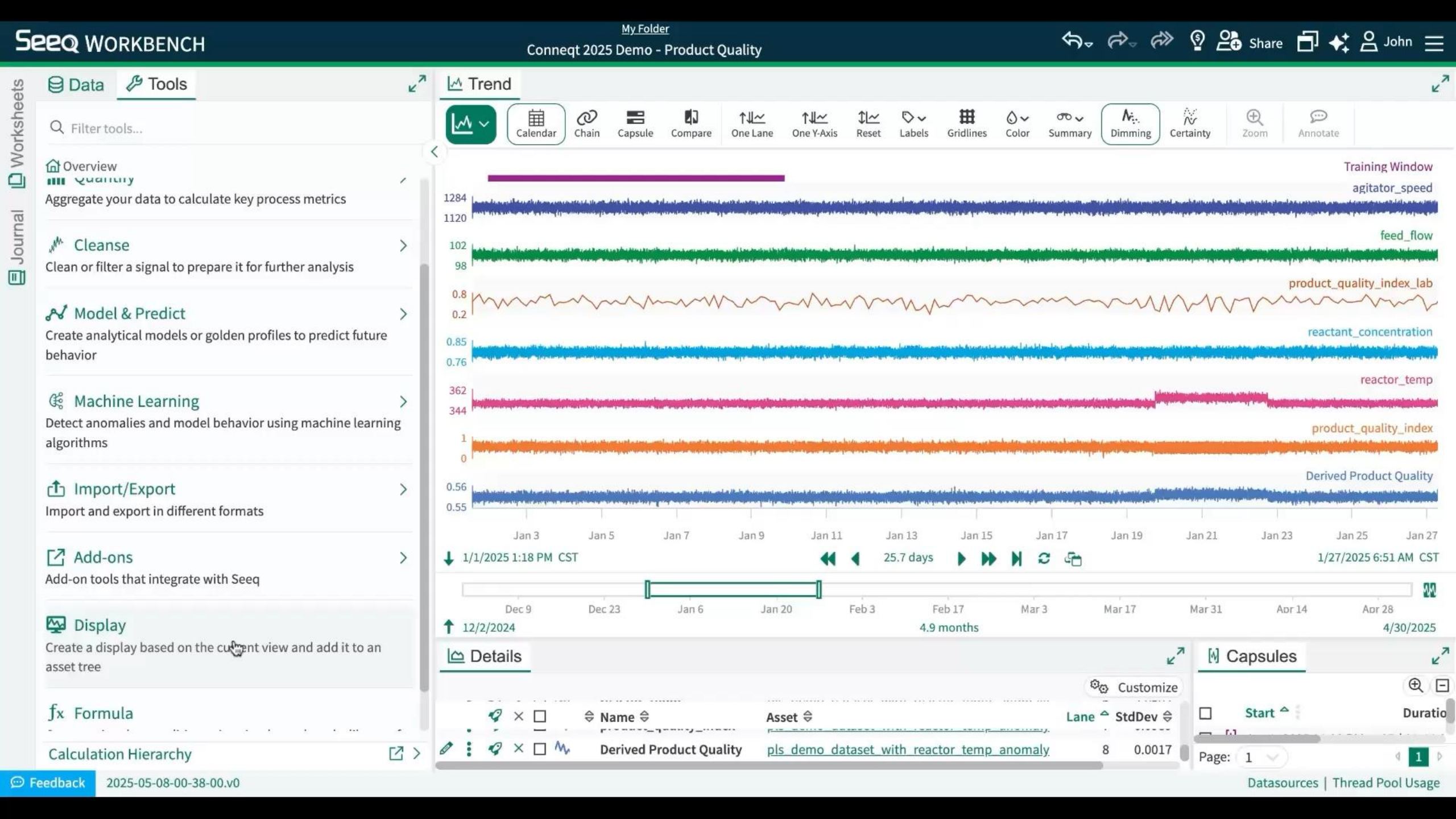
Jan 23
Jan 25
Jan 27
1/1/2025 1:18 PM CST
25.7 days
1/27/2025 6:51 AM CST
Dec 9
Dec 23
Jan 6
Jan 20
Feb 3
Feb 17
Mar 3
Mar 17
Mar 31
Apr 14
Apr 28
12/2/2024
4.9 months
4/30/2025
Details
Jan 3, 2025 10:17 PM
Customize
Name
Asset
Lane
StdDev
Training Window
1
agitator_speed
pls_demo_dataset_with_reactor_temp_anomaly
2
16.333
feed_flow
pls_demo_dataset_with_reactor_temp_anomaly
3
0.408
product_quality_index_lab
pls_demo_dataset_with_reactor_temp_anomaly
4
0.0992
Capsules
Start
Duration
Jan 1, 2025 11:28 PM
07d 21:44:08.
Page: 1
1
Feedback
2025-05-08-00-38-00.v0
Datasources | Thread Pool Usage

Machine Learning (ML)

- Predicting with Partial Least Squares
- Refining the Data
- Detecting Deviations with Traditional and Machine Learning Methods

Making Hybrid Analytics Simple

conneqt


Seeq WORKBENCH
My Folder
Conneqt 2025 Demo - Product Quality
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Worksheets
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Add-on tools that integrate with Seeq
Display
Create a display based on the current view and add it to an asset tree
Formula
Calculation Hierarchy
Trend
Calendar
Chain
Capsule
Compare
One Lane
One Y-Axis
Reset
Labels
Gridlines
Color
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Zoom
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Training Window
agitator_speed
1284
1120
feed_flow
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product_quality_index_lab
0.8
0.2
reactant_concentration
0.85
0.76
reactor_temp
362
344
product_quality_index
1
0
Derived Product Quality
0.56
0.55
Jan 3
Jan 5
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Jan 15
Jan 17
Jan 19
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Jan 23
Jan 25
Jan 27
1/1/2025 1:18 PM CST
25.7 days
1/27/2025 6:51 AM CST
Dec 9
Dec 23
Jan 6
Jan 20
Feb 3
Feb 17
Mar 3
Mar 17
Mar 31
Apr 14
Apr 28
12/2/2024
4.9 months
4/30/2025
Details
Customize
Name
Asset
Lane
StdDev
Derived Product Quality
pls_demo_dataset_with_reactor_temp_anomaly
8
0.0017
Capsules
Start
Duratio
Page: 1
1
Feedback
2025-05-08-00-38-00.v0
Datasources | Thread Pool Usage

Machine Learning (ML)

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- Refining the Data
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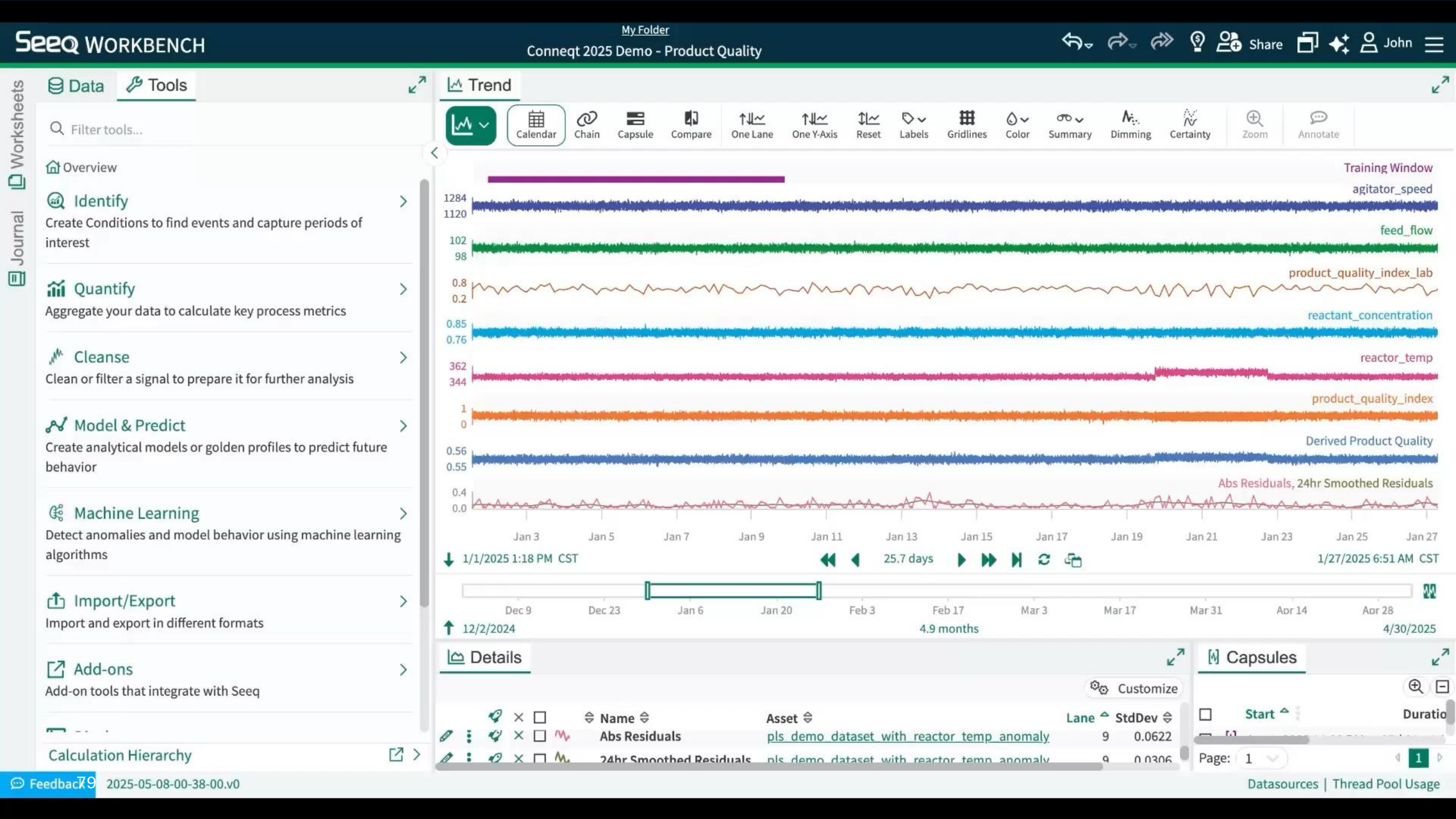
Making Hybrid Analytics Simple

conneqt


Seeq WORKBENCH
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Conneqt 2025 Demo - Product Quality
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Zoom
Annotate
Training Window
agitator_speed
1284
1120
feed_flow
102
98
product_quality_index_lab
0.8
0.2
reactant_concentration
0.85
0.76
reactor_temp
362
344
product_quality_index
1
0
Derived Product Quality
0.56
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Abs Residuals, 24hr Smoothed Residuals
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Jan 3
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Jan 23
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1/1/2025 1:18 PM CST
25.7 days
1/27/2025 6:51 AM CST
Dec 9
Dec 23
Jan 6
Jan 20
Feb 3
Feb 17
Mar 3
Mar 17
Mar 31
Apr 14
Apr 28
12/2/2024
4.9 months
4/30/2025
Details
Customize
Name
Asset
Lane
StdDev
Abs Residuals
pls_demo_dataset_with_reactor_temp_anomaly
9
0.0622
24hr Smoothed Residuals
pls_demo_dataset_with_reactor_temp_anomaly
9
0.0306
Capsules
Start
Duratio
Page: 1
1
Feedback
2025-05-08-00-38-00.v0
Datasources | Thread Pool Usage

Machine Learning (ML)

- Predicting with Partial Least Squares
- Refining the Data
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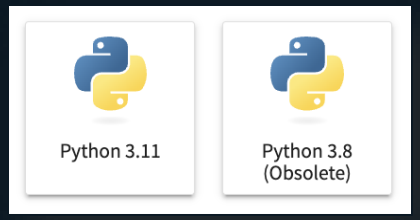
Data Lab & Add-on Updates

- Python 3.11
- New General Availability Add-ons
  - Parallel Coordinates
  - Plot Digitizer

Improving the Add-on Ecosystem

conneqt

Python 3.11 Update



- Python 3.11 is here!
- Python 3.8 is no longer receiving security updates by the Python Organization.
- Data Lab Environment Manager is available to help with transition

Data Lab Environment Manager

This tool helps Data Lab users transition their Notebooks between different Python versions, manage projects, and handle Python packages effectively.

For detailed instructions, please refer to the full documentation.

This project has been verified to work with Python 3.11.

Remove Verification

Verified by: John Garramone

Verified on: 2025-05-07 14:55:14

Notebooks Overview | Projects Overview | Packages | Console Output

Last Used: Last 6 Months | Scheduled Notebook: All | Project Type: All | Sort By: Last Updated | Local Packages (Python): All | Python 3.11 Verified: False

	Project Name	ID	Owner Name	Creator Name	Project Type	Last Updated	Scheduled Notebooks	Local Packages (Python)	Python 3.11 Verified
1	lib office pdf convert sdl	0F02C8C0-90FA-E830-999C-1AB4BDC2DD62	James Higgie	James Higgie	Data Lab	2025-05-09 02:26:51	None	3.11	False
2	seeq_genai	0EFD3675-EF6F-75B0-A2C7-06273CCC27DF	Andres Barbaro	Andres Barbaro	Data Lab Functions	2025-05-08 22:51:28	None	3.11	False
3	Project May 8, 2025 6:33 PM	0F02C5C8-0829-6420-9F38-59594EBAAD37	John Brezovec	John Brezovec	Data Lab	2025-05-08 17:41:59	None		False
4	com.seeq.addon.seeq_ml.create	0EFFDFE9-191B-62A0-8240-08E922B6E6F3	Ayobami Ojekunle	Ayobami Ojekunle	Data Lab Packaged Add-On	2025-05-08 14:39:41	Active	3.11, 3.8	False
5	com.seeq.addon.seeq_ml.backend	0EFFDFEB-CEA5-E8D0-88C4-0DB437F81B9B	Ayobami Ojekunle	Ayobami Ojekunle	Data Lab Functions	2025-05-08 13:34:37	None	3.8	False

Need Help? Ask our Assistant “Help me upgrade to Python 3.11”

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Data Lab & Add-on Updates

- Python 3.11

- New General Availability Add-ons
  - Parallel Coordinates
  - Plot Digitizer

Improving the Add-on Ecosystem

conneqt

Worksheets

Product Quality

Plot Digitizer

Parallel Coordinates

Data | Tools | Journal

Name contains...

Exact Match

Reset | Filter and Sort | Search

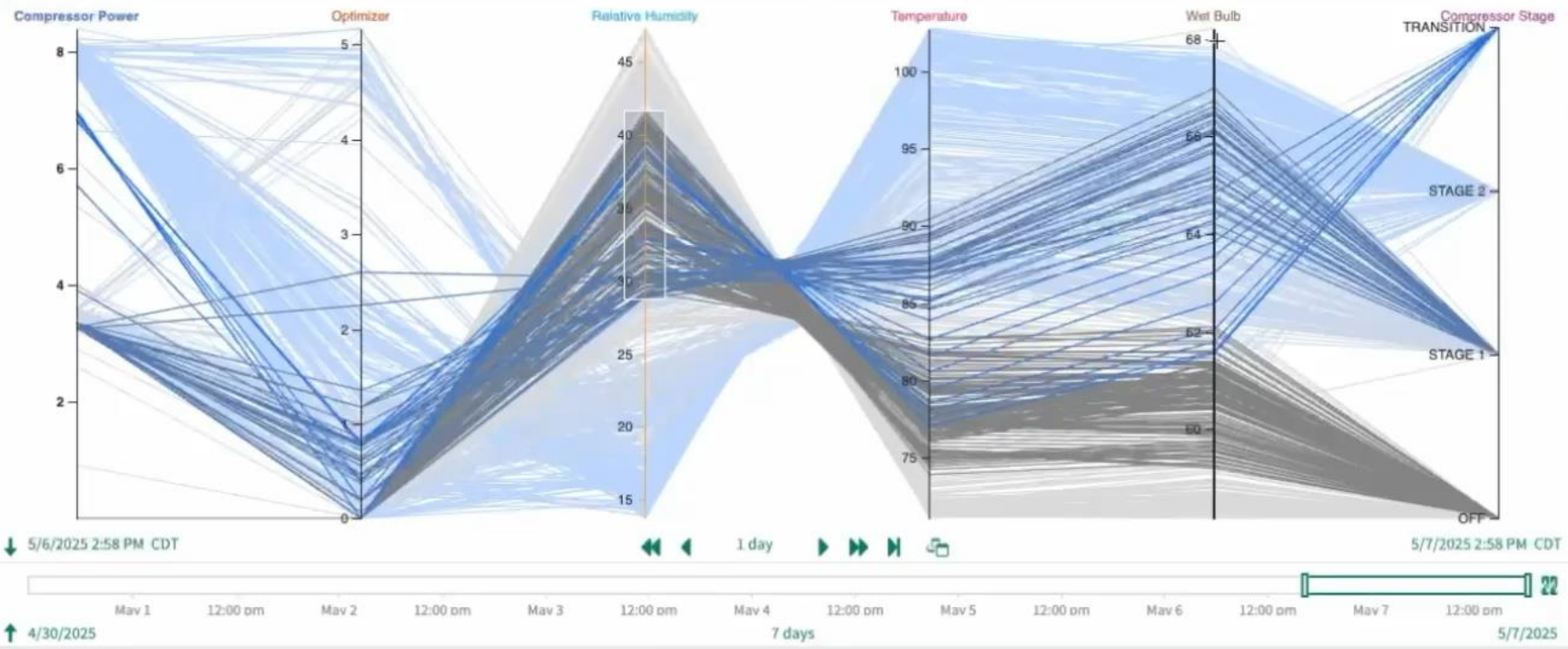
» Example » Cooling Tower 1 » Area B

Select All

- Compressor Power (kW) 20
- Compressor Stage
- Optimizer
- Relative Humidity (%)
- Temperature (°F)
- Wet Bulb (°F)

Trend

Sampling | Samples Aligned To: Compressor Power | Color | Filter | Dimming | Reset Order | Show Time | Brushes | Boundaries | Create



5/6/2025 2:58 PM CDT | 1 day | 5/7/2025 2:58 PM CDT

May 1 12:00 pm | May 2 12:00 pm | May 3 12:00 pm | May 4 12:00 pm | May 5 12:00 pm | May 6 12:00 pm | May 7 12:00 pm

4/30/2025 | 7 days | 5/7/2025

Details

Customize

Name	Color	Asset
kW Compressor Power		Area B
Compressor Stage		Area B
Optimizer		Area B
% Relative Humidity		Area B
°F Temperature		Area B
°F Wet Bulb		Area B

Data Lab & Add-on Updates

- Python 3.11
- New General Availability Add-ons
  - Parallel Coordinates
  - Plot Digitizer

Improving the Add-on Ecosystem

conneqt

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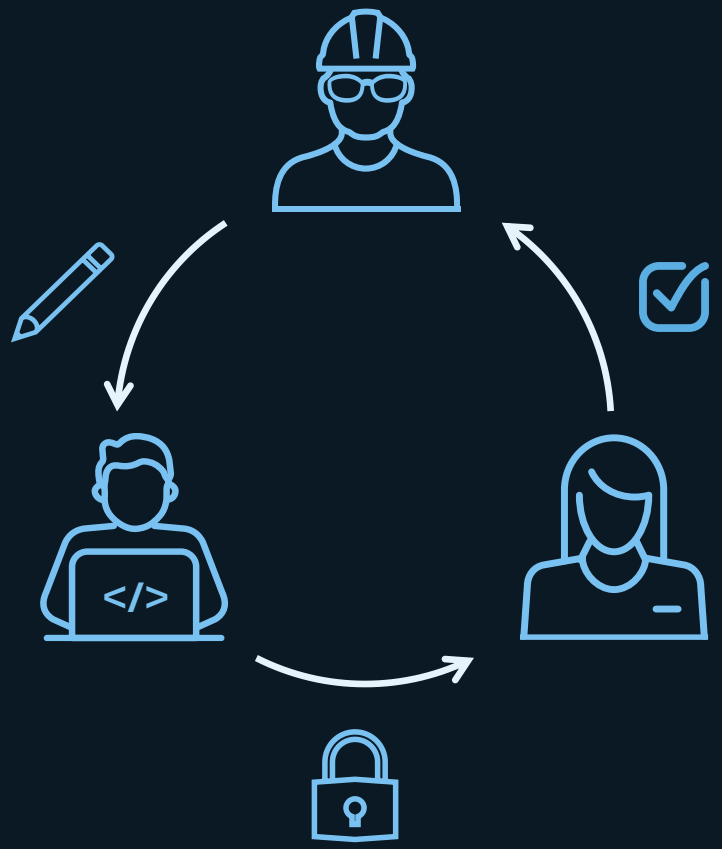
MICHELLE HART

PRODUCT MANAGER

conneqt

Analytics Change Management



- Locking & Versioning of Workbench

Analytics You Can Trust

conneqt

Worksheets

Data Tools Journal

Editing Saved

Paragraph

All signals

In this demo, we're using Partial Least Squares regression to model and understand what drives product quality in a process.

We have four key input signals: feed flow, reactor temperature, agitator speed, and reactant concentration. These are our predictors.

Our output signal is the Product Quality Detector, and we want to see how much of it we can explain using the inputs.

By applying PLS, we can uncover:

The relative importance of each input signal

How much variance in product quality can be captured by these inputs

Insights into underlying process behavior for optimization and troubleshooting.

We will identify 2 issues - a subtle issue with reactant concentration and an issue with the reactor temperature which could signal an issue with a heat exchanger.

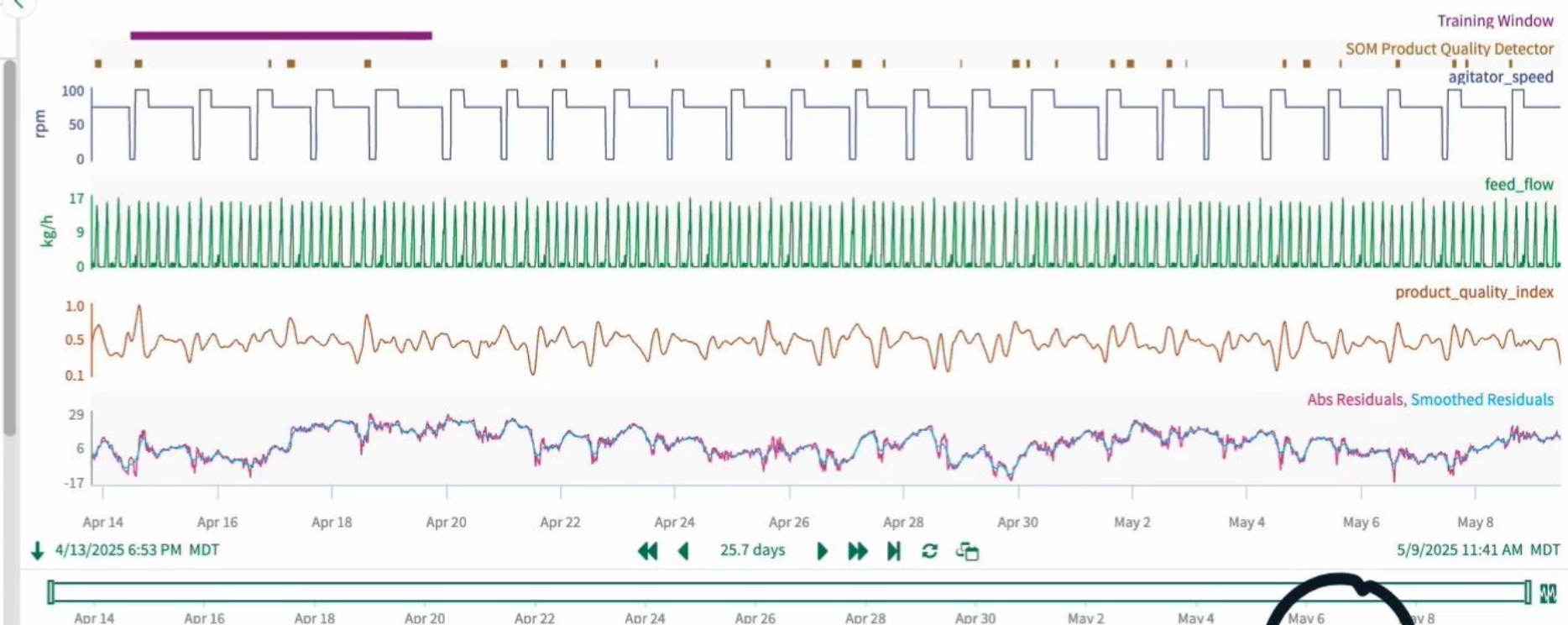
Analysis Documentation

This analysis evaluates the prediction deviation by following a sequential calculation hierarchy starting from the sensor data used in the product quality detector, and proceeding through the residual computations, smoothing, and ultimately the derivation of the prediction deviation condition. Each step is represented by a trend link that captures both the inputs and outputs involved in that stage.

Comments 0

Trend

Calendar Chain Capsule Compare One Lane One Y-Axis Reset Labels Gridlines Color Summary Dimming Certainty Zoom Annotate



Details

Customize

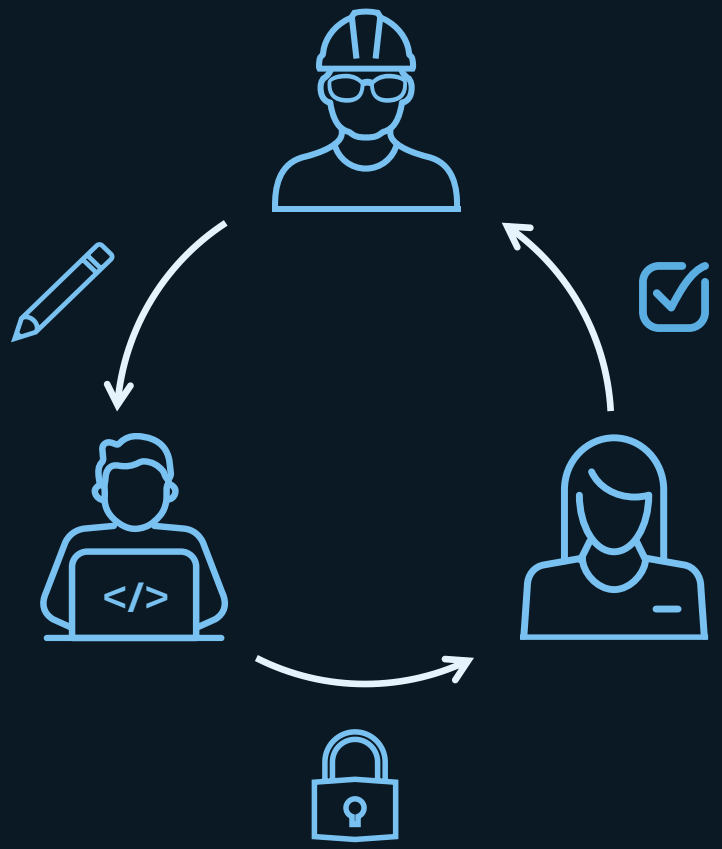
	Name	Asset	Lane
	Training Window		1
	SOM Product Quality Detector	Area A, Area B	2
rpm	agitator_speed	Reactor 1	3
kg/h	feed_flow		4
	product_quality_index	Area A, Area B	5
	Abs Residuals	Area A, Area B	6
	Smoothed Residuals	Area A, Area B	6

Capsules

Start
Apr 13, 2025 8:29 PM
Apr 14, 2025 11:26 AM
Apr 14, 2025 1:10 PM
Apr 16, 2025 9:26 PM
Apr 17, 2025 5:09 AM
Apr 18, 2025 1:33 PM

Page: 1

Analytics Change Management



- Locking & Versioning of Workbench

Analytics You Can Trust

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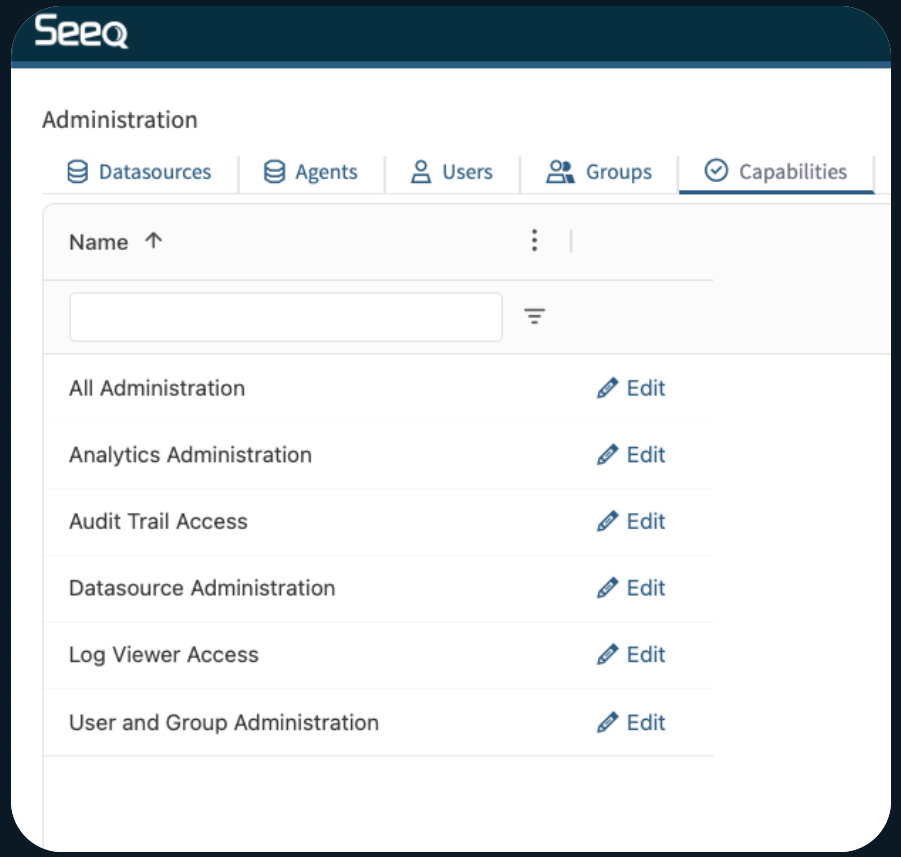
CAPABILITIES



EACH PERSON HAS ONLY THE CAPABILITIES NEEDED FOR THEIR ROLE

conneqt

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Impact Reports

Premium AI

Analytics Change Management

Expanded AI Actions

No-code Scaling

ML Tools

Add-on Updates

Vantage Updates

Capabilities

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DUSTIN JOHNSON

CHIEF TECHNOLOGY OFFICER

MATT DENTON

PRODUCT MANAGER DAV

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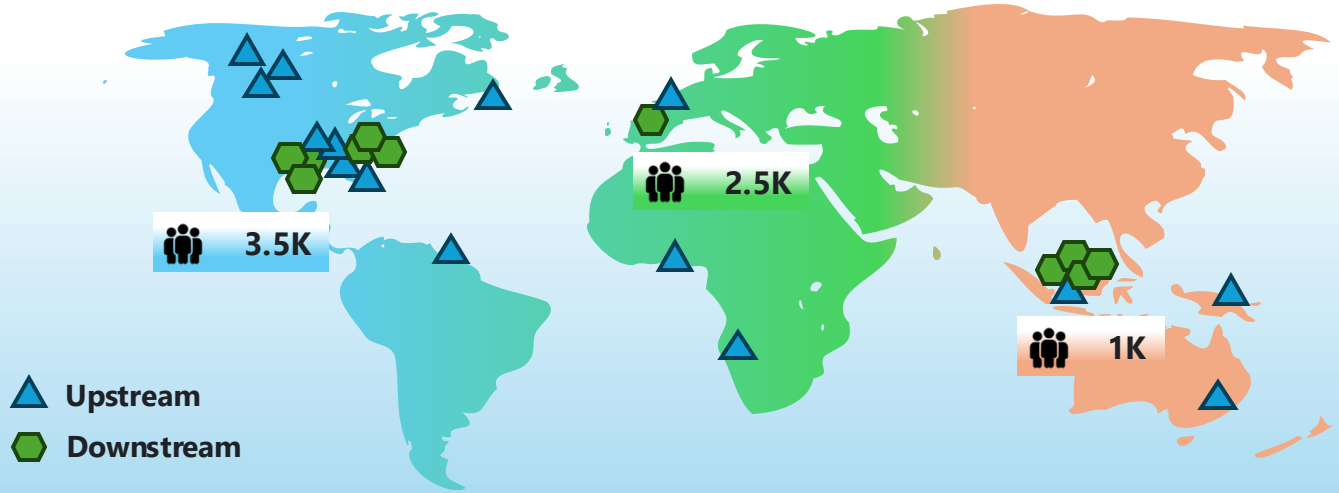
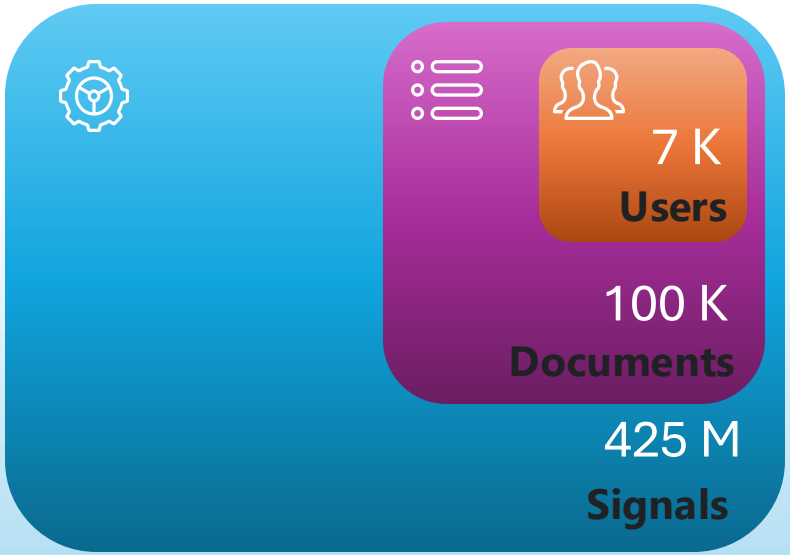
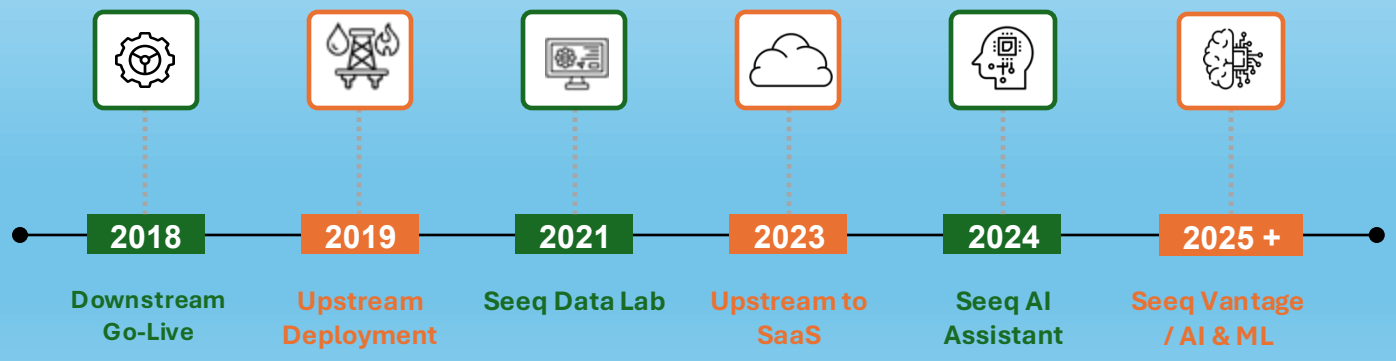
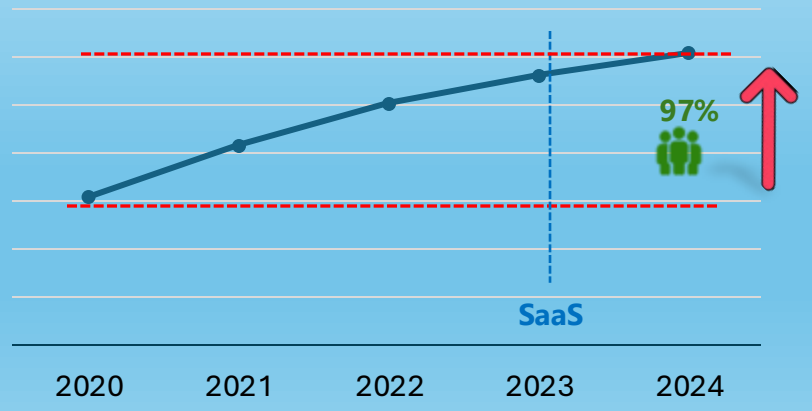
Instance & User Distribution







Seeq Upstream User Growth



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Be an enabler not a barrier

Don’t sit idle

Active customer engagement

The Vision

*Disclaimer: As an Agile company, we are led by the needs and desires of our customers. We think the strategic vision presented here is a darn good one, but it is provided for viewer entertainment and enjoyment only. Any similarities to real individuals is merely coincidental and should not be construed as fact or opinion against them or their pets.

The Vision

The Vision

Climbing the pyramid

- Models, Asset Builder, and Scaling Tables
- New personas, new scope, all people

The Golden Goose

- Building and using the Knowledge Mine
- Leaning into AI

More than time series

The Vision

Better, Faster Data-Driven Decisions For Everyone