

SeeQ®



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ORLANDO JUNE 1-3, 2026

From Spreadsheets to Scalable Insights: Automating Slowback Tracking

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International
Paper



International Paper

Global leader in sustainable
packaging solutions

\$23.7B Net Sales Worldwide

400+ facilities

~ 37,000 Employees



Global Headquarters
Memphis, TN



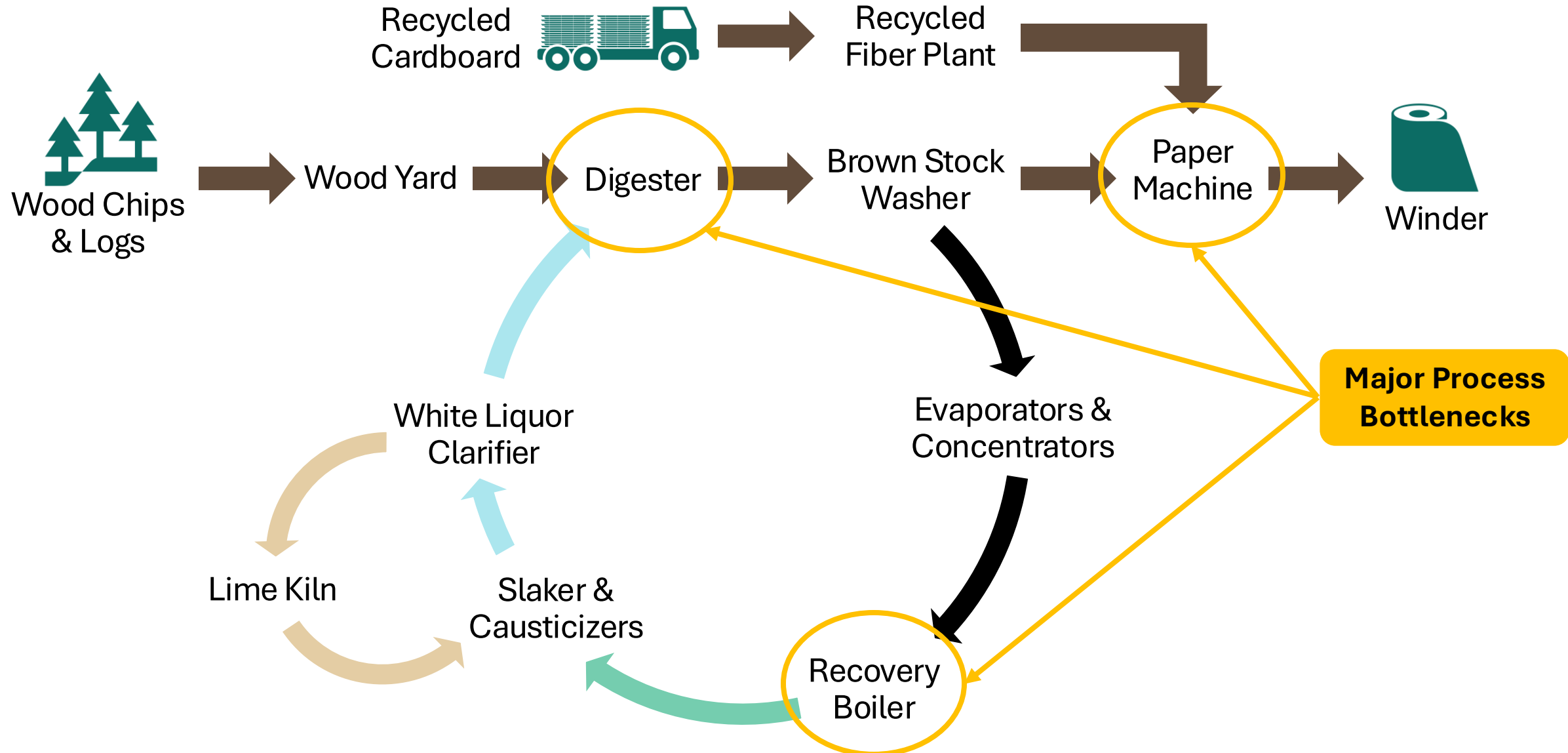
My Facility
Springfield, OR



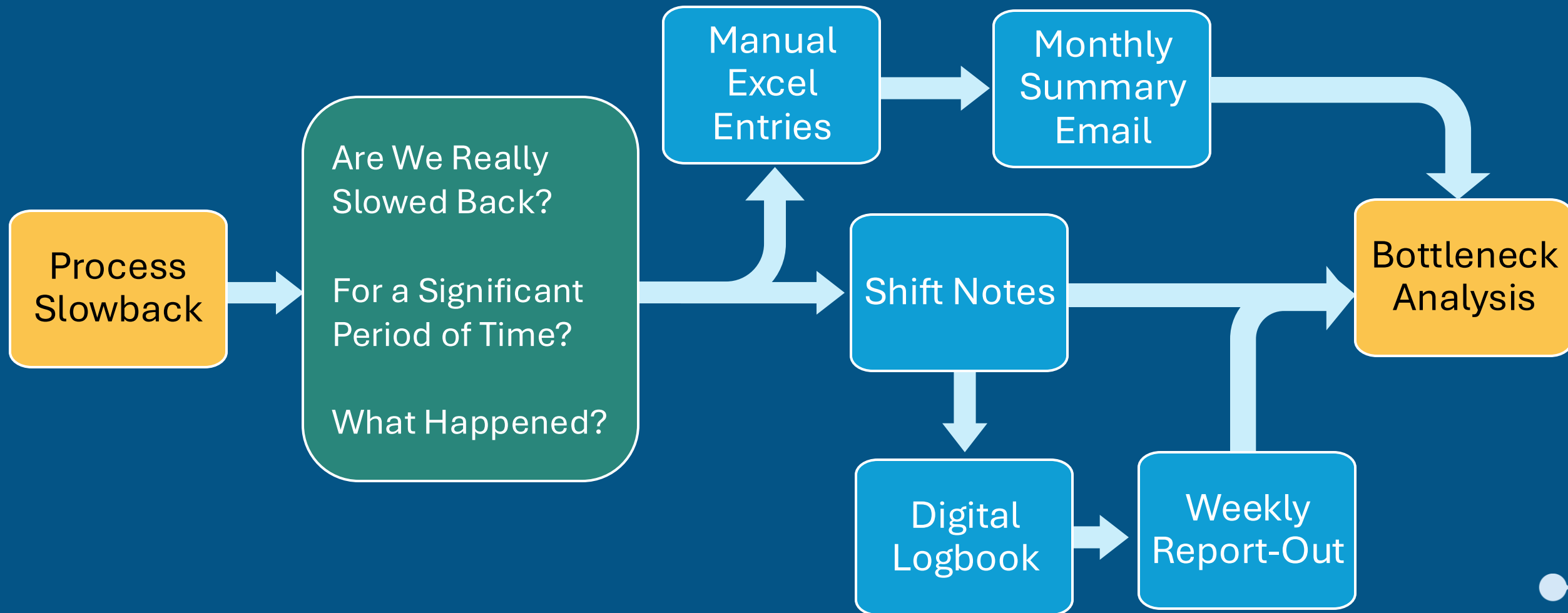
A photograph of an industrial facility, likely a refinery or chemical plant, silhouetted against a dramatic sunset sky. Several tall smokestacks are visible, with thick plumes of dark smoke rising from them. The sky is a mix of deep blue and orange, with scattered white clouds. The overall mood is industrial and somewhat somber.

**Do you know why your Facility is
Losing Production?**

Papermaking 101



The Problem



Why This Wasn't an Easy Fix

Data problems

- Noisy tags
- Inconsistent units across processes
- Target rates unclear

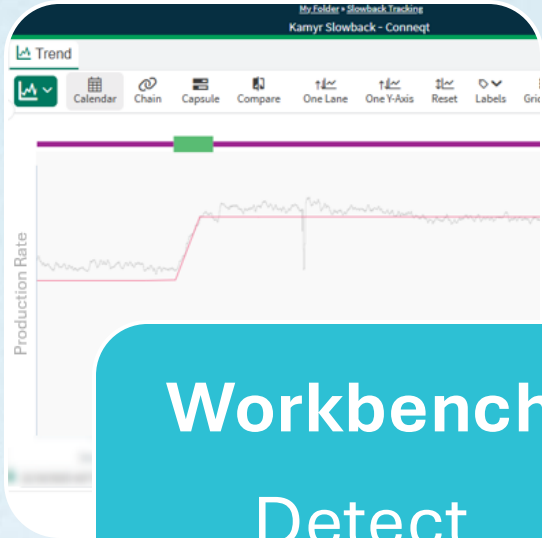
Process problems

- Manual, non-scalable workflows
- Events are missed or forgotten

Human problems

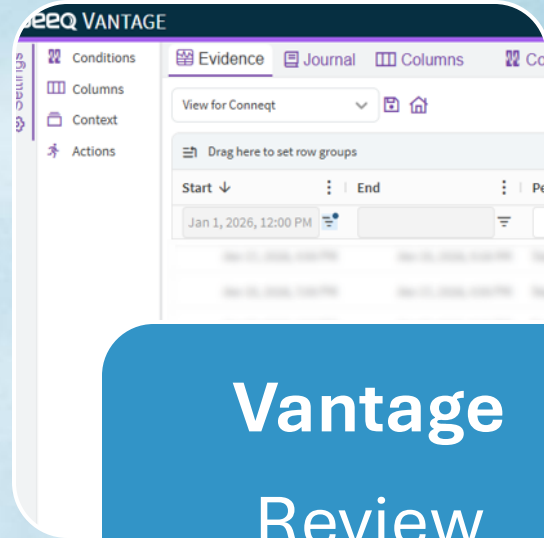
- “Data telephone”
- Busy teams and many priorities

What We Built in Seeq



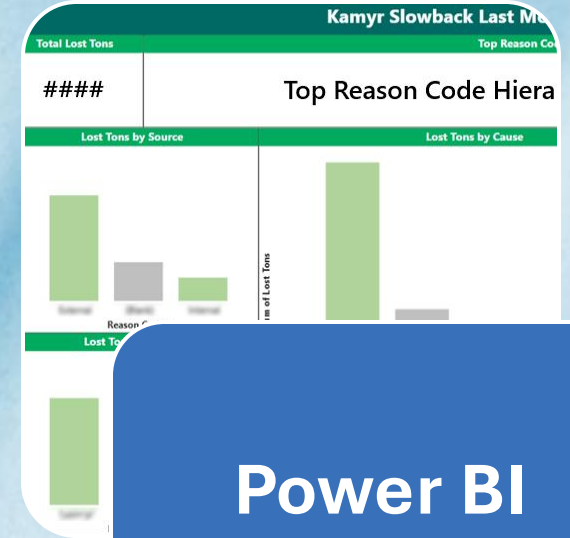
Workbench

Detect
Slowback &
Calculate
Losses



Vantage

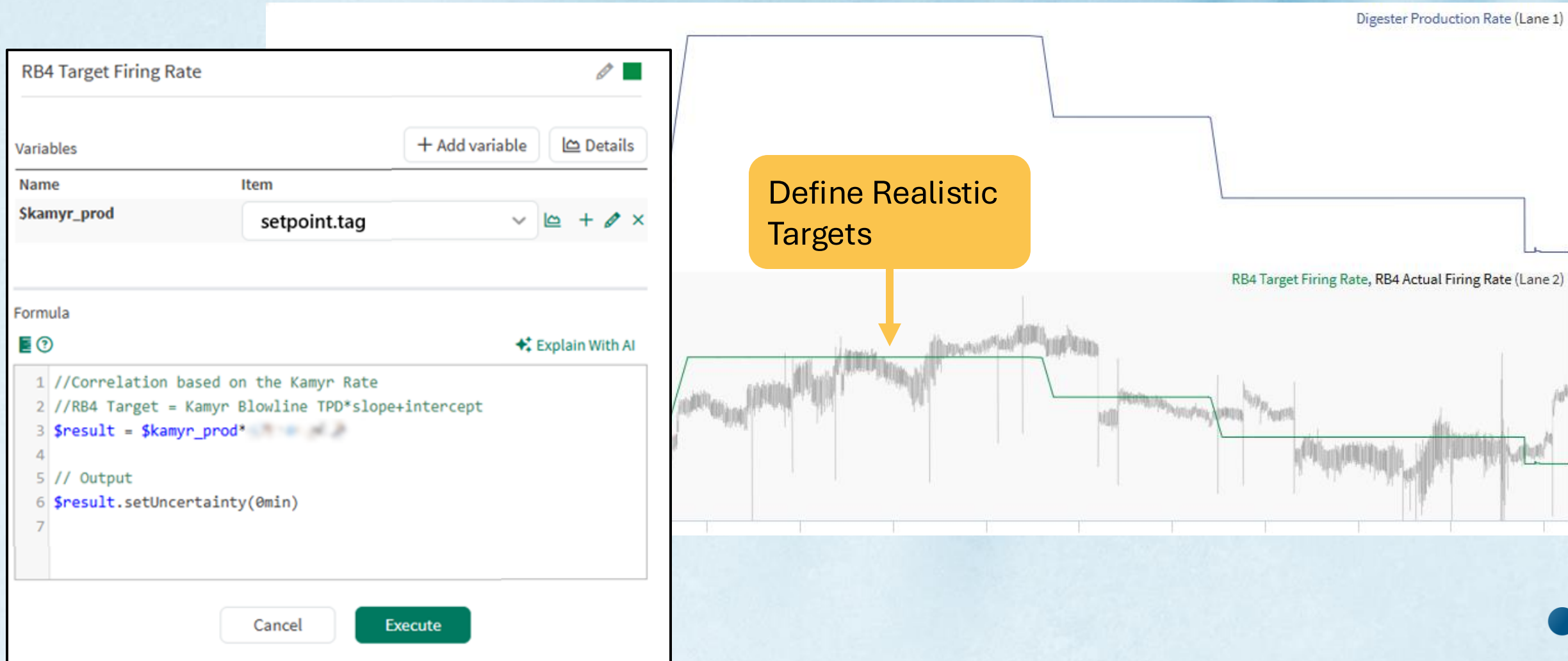
Review
Events &
Assign
Reasons



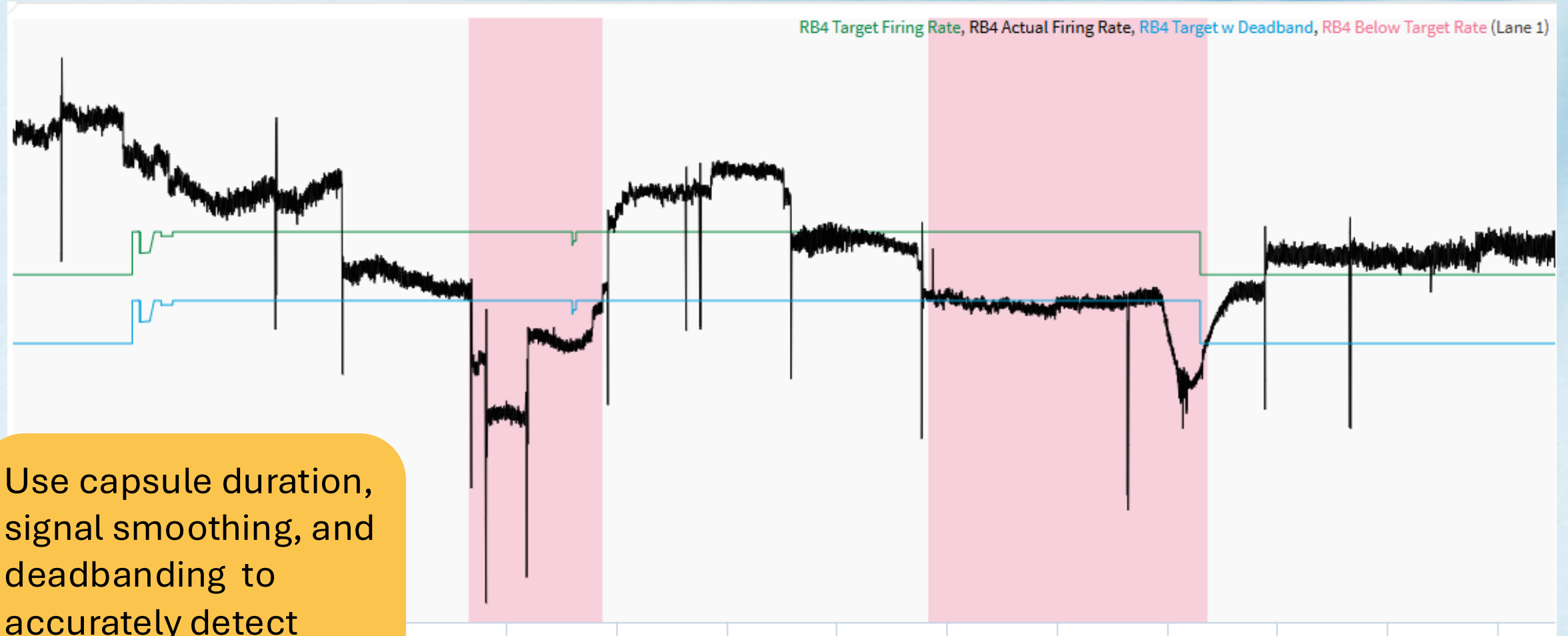
Power BI

Aggregate &
Analyze Data

How it Works: Workbench



How it Works: Workbench



Use capsule duration, signal smoothing, and deadbanding to accurately detect slowback events

How it Works: Workbench

Overview » Quantify » Signal from Condition

Lost Production

Select a signal or condition

RB4 Production Difference (Mlb/h)

Select the summary statistic you want to plot

Totalized
Definite integral

Convert time units to: hour(s)

Select a bounding condition

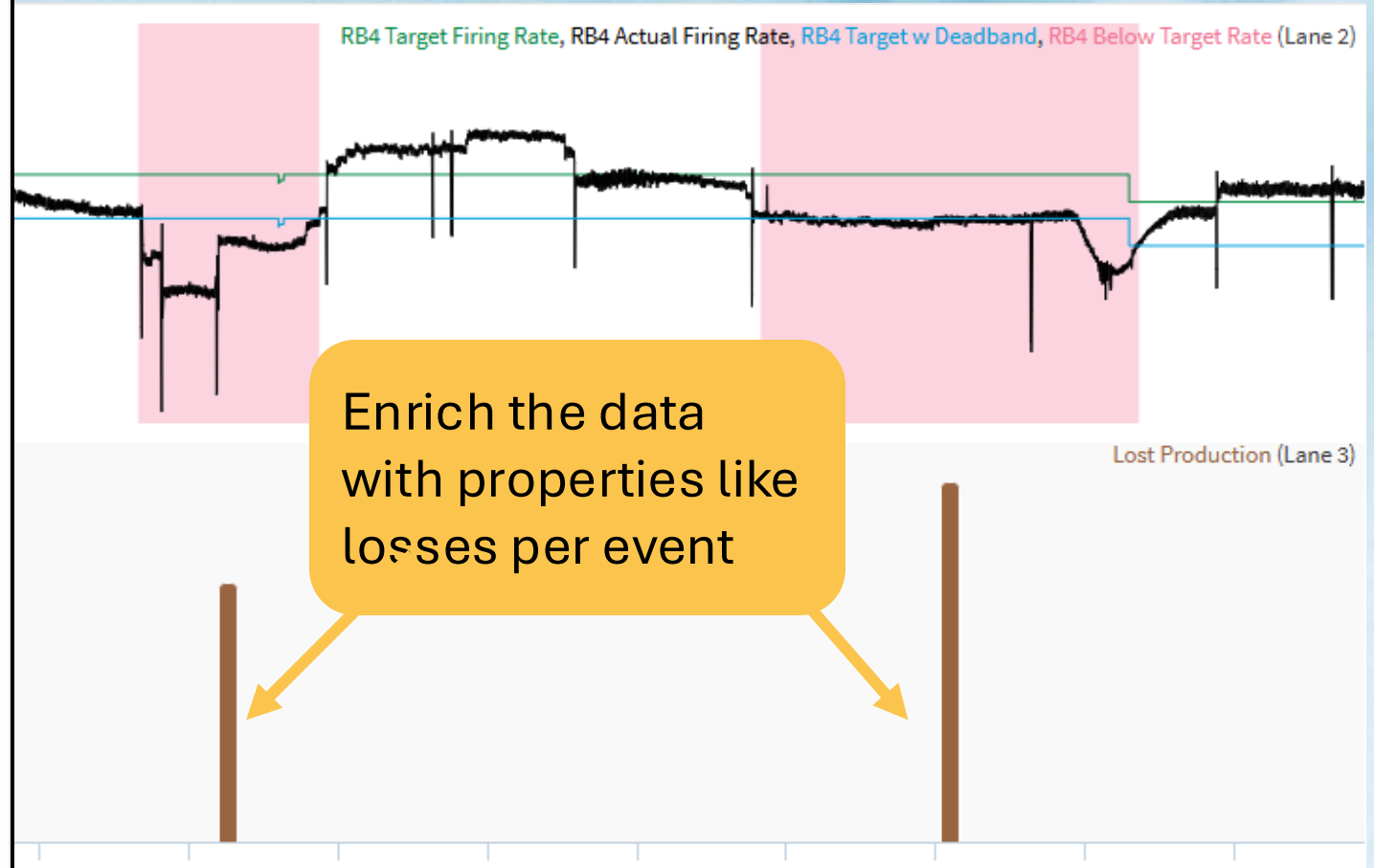
RB4 Below Target Rate

Maximum capsule duration ?
2 day(s)

Select where to place the timestamp of the summary statistic ?
Middle

Select the interpolation method of your new signal
Discrete Linear Step

Cancel Execute



SeeQ VANTAGE

[Settings](#)
[Conditions](#)
[Evidence](#)
[Journal](#)
[Columns](#)
[Conditions](#)
[Visualize](#)

[Columns](#)
[Context](#)
[Actions](#)

View for Connect ⌵ 🏠 🏠

Drag here to set row groups

Context

Currently selected: 1 Capsule

History

Flag

Unreview

Label

Suppress

Reason codes

Reason Codes

Split Capsule

Reason code 1

Internal

Reason code 2 *

Unplanned

Reason code 3 *

Operations

Reason code 4 *

High Steam/Liquor Ratio

Reason code 5 *

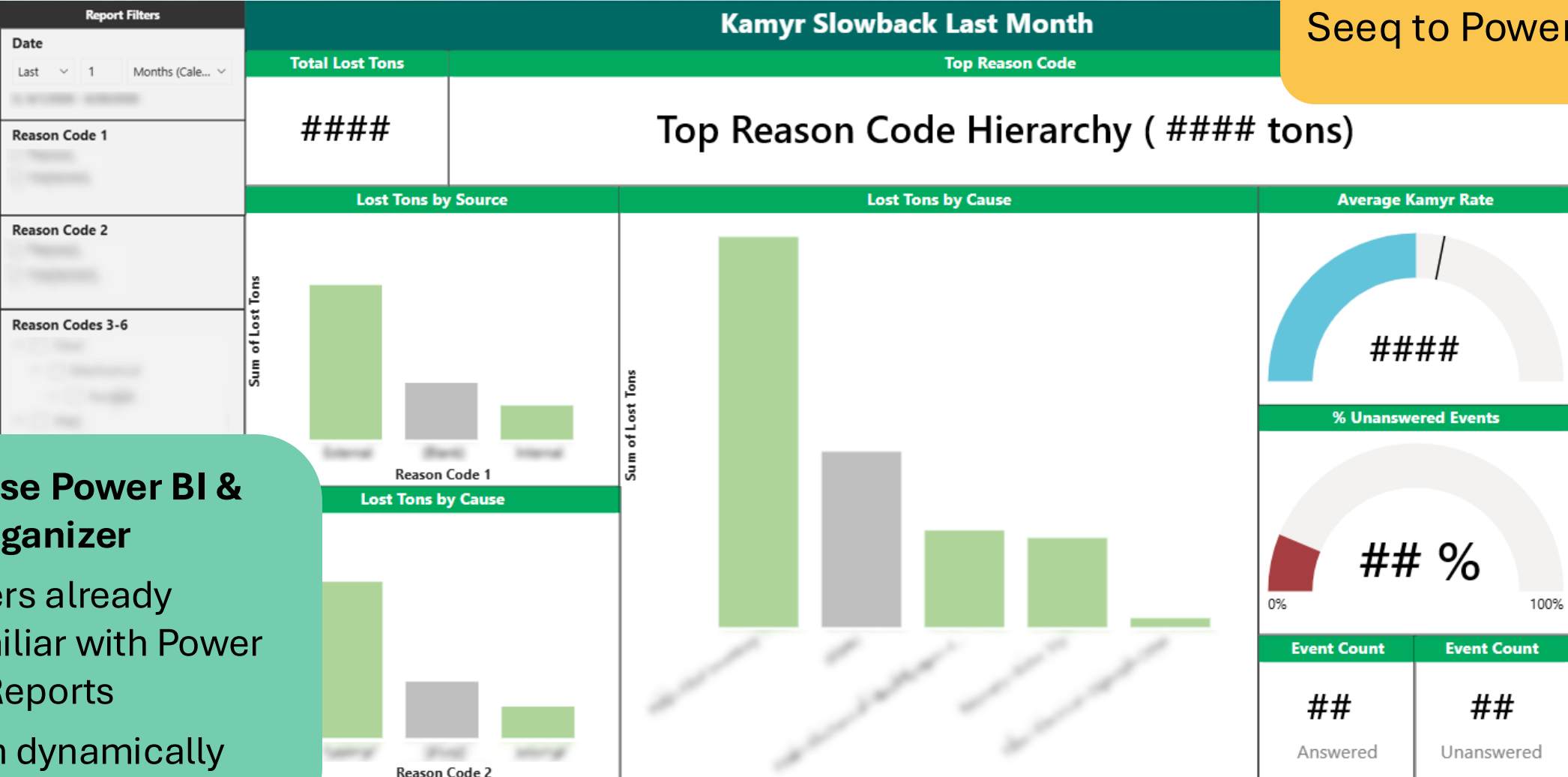
Processing Soap

Enter a note by typing here...

Submit

How it Works: Reporting

OData connects
Seeq to Power BI



Why Use Power BI & Not Organizer

- Users already familiar with Power BI Reports
- Can dynamically slice & dice the data

Scaling: Build it Once. Apply it Everywhere.

- **Initial Build**

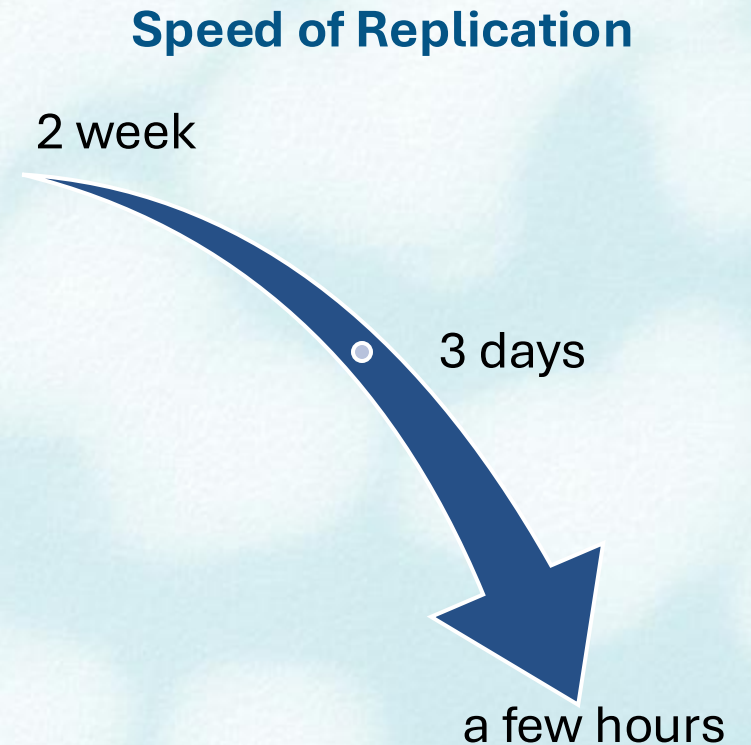
- Paper Machine: ~1-2 week

- **Rapid Replication to Across the Mill**

- Kamyr: 2-3 days
- Recovery Boiler: a few hours

- **Cross-Site Scaling**

- 1 hour knowledge transfer call
- Shared Workbench, Vantage Rooms, and Datalab scripts
- No advanced Seeq expertise required



Results



Reduced manual effort

Teams spend a minutes/week instead of hours tracking slowback

Improved confidence in data

Process is automated, consistent, & auditable

Faster time to insight

Bottleneck analysis occurring monthly not annually

Alignment across the mill

All areas are tracking the same data in the same ways

Replicated at four other facilities

Why This Solution Worked?

Detection

- Deadband reduces noise-driven events
- Duration thresholds remove transient swings

Standardization

- Consistent event definitions
- Shared logic across processes

Context

- Capsules calculate losses in common units
- Reason codes add meaning

connect
THANK YOU!



SeeQ®