
SeeQ®
conneqt
FOOD & BEVERAGE

Using Asset Groups to Easily Create Processing Metrics with Seeq

Chloe Soejima, *Process Engineer II*

Chobani®

Chobani®

- Founded 2005
- 3000+ Employees
- Largest Facility in Twin Falls, ID
- Greek Yogurt, Oat Milk, Dairy-based Coffee Creamers, RTD Coffee Beverages


ONLY NATURAL INGREDIENTS
GREEK YOGURT
Chobani
flip
Chocolate
Covered Strawberry
Strawberry Lowfat Greek Yogurt with Brownie Pieces,
White Chocolate Chips & Cocoa Swirl Chunks

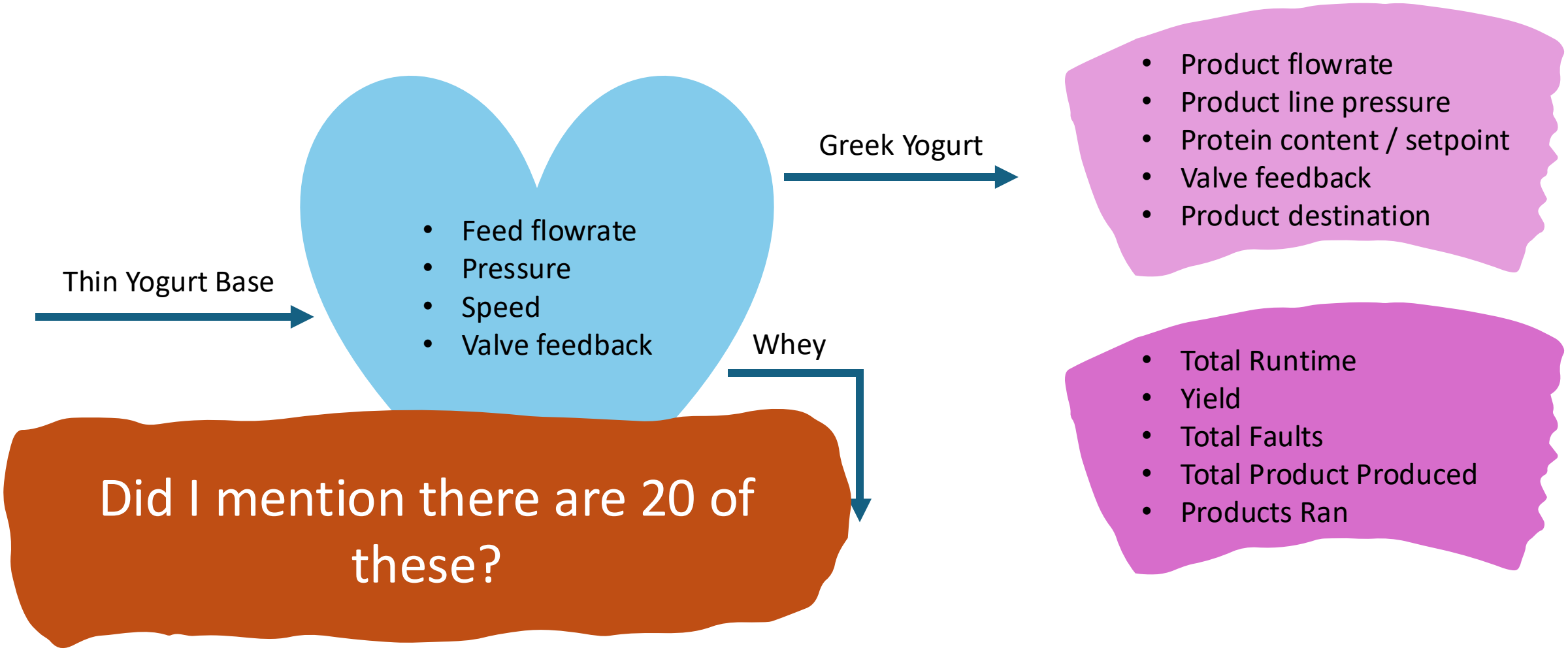

How would you make yogurt from scratch?
Especially *Greek Yogurt?*


Whey is strained out with cheesecloth
Cultures ferment with milk
Final product is nutritious yogurt!
6L
4L
4 qt
2L
2 qt


All yogurt bases are strained through a yogurt **“Separator”**
Chobani
Greek Yogurt
Strawberry
on the Bottom
Chobani
Greek Yogurt
Nonfat Plain
Our triple strained, delicately creamy recipe. Full of endless possibilities. Smoother of smoothest smoothies, dazzler of the dreamiest dips, fluffer of fluffiest flapjacks, creamer of creamiest crème brûlée. This is magic in the making.
16g
PROTEIN
0g
ADDED SUGAR
NONFAT GREEK YOGURT
NET WT. 32 OZ (907g)
Chobani
Greek Yogurt
Peach
on the Bottom
Chobani
Greek Yogurt
Strawberry
Banana

The Separator

The “Heartbeat” of the Plant



The Separator

The “Heartbeat” of the Plant

Since this is a central process operation…

Most of the plant savings are around these 20 machines

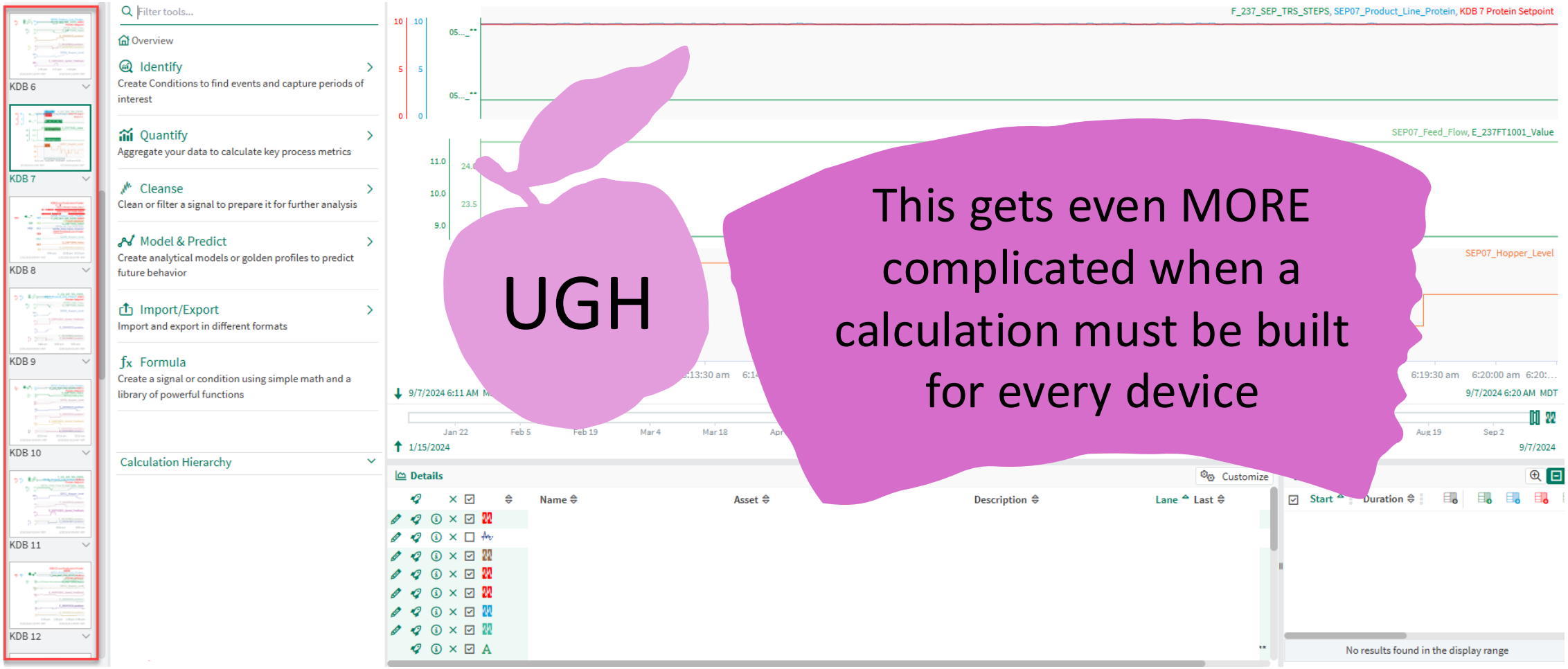
- Maintenance metrics
- Recipe specific metrics
- Runtime metrics

Trending a Separator

Remember, this is only for ONE of the TWENTY

– On a very basic level, might look something like this, with the most vital trends

Trending… ALL the Separators



– A page for every separator, building calculations in every page, flipping through constantly to troubleshoot

Overall Goals

- Create Workbench Analysis Documents for all 20 Separators
  - Easily Navigable
  - Built Quickly
  - Specific to team goals

- Fully Utilize Seeq Visualization tools to drive process improvements
  - Easily communicated
  - Visible across multiple teams

Some Numbers for the Wise Guy

"Why Not use Data Lab?"

1

People who comfortably use data lab on regular basis

15%

Forecasted success rate of getting other team members to learn data lab in a short amount of time

100%

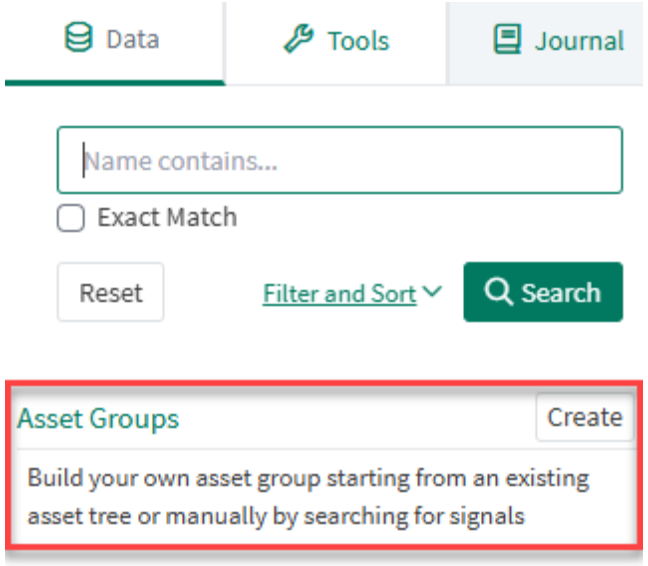
Amount I agree we could do a lot with Data Lab

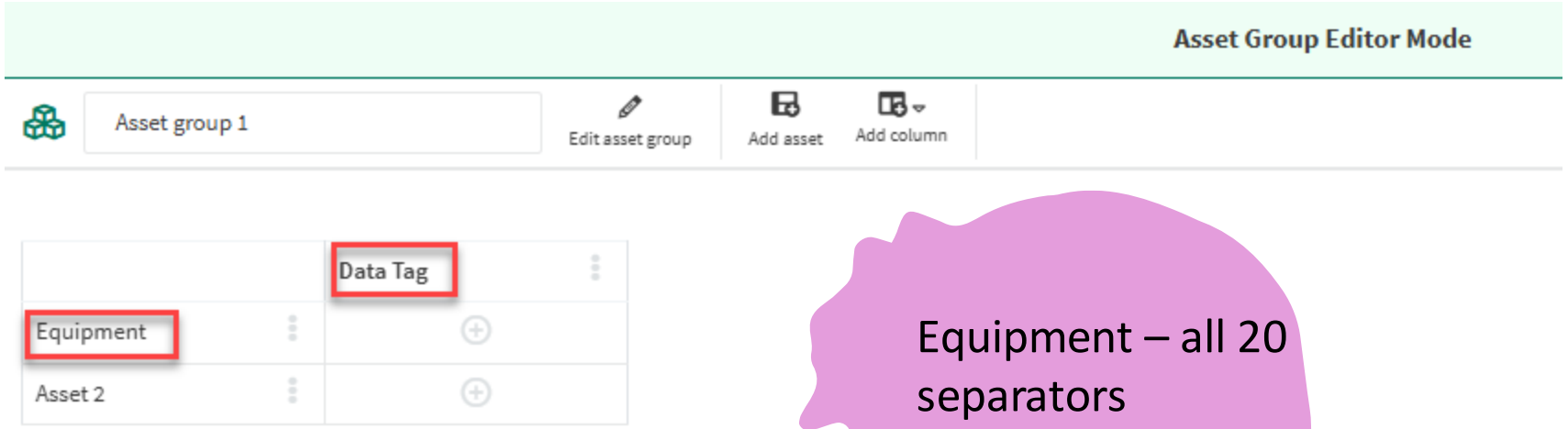
100%

Percent of this presentation completed without Data Lab

Introducing the Asset Group

The Building Block for Multiple Interdepartmental Tools



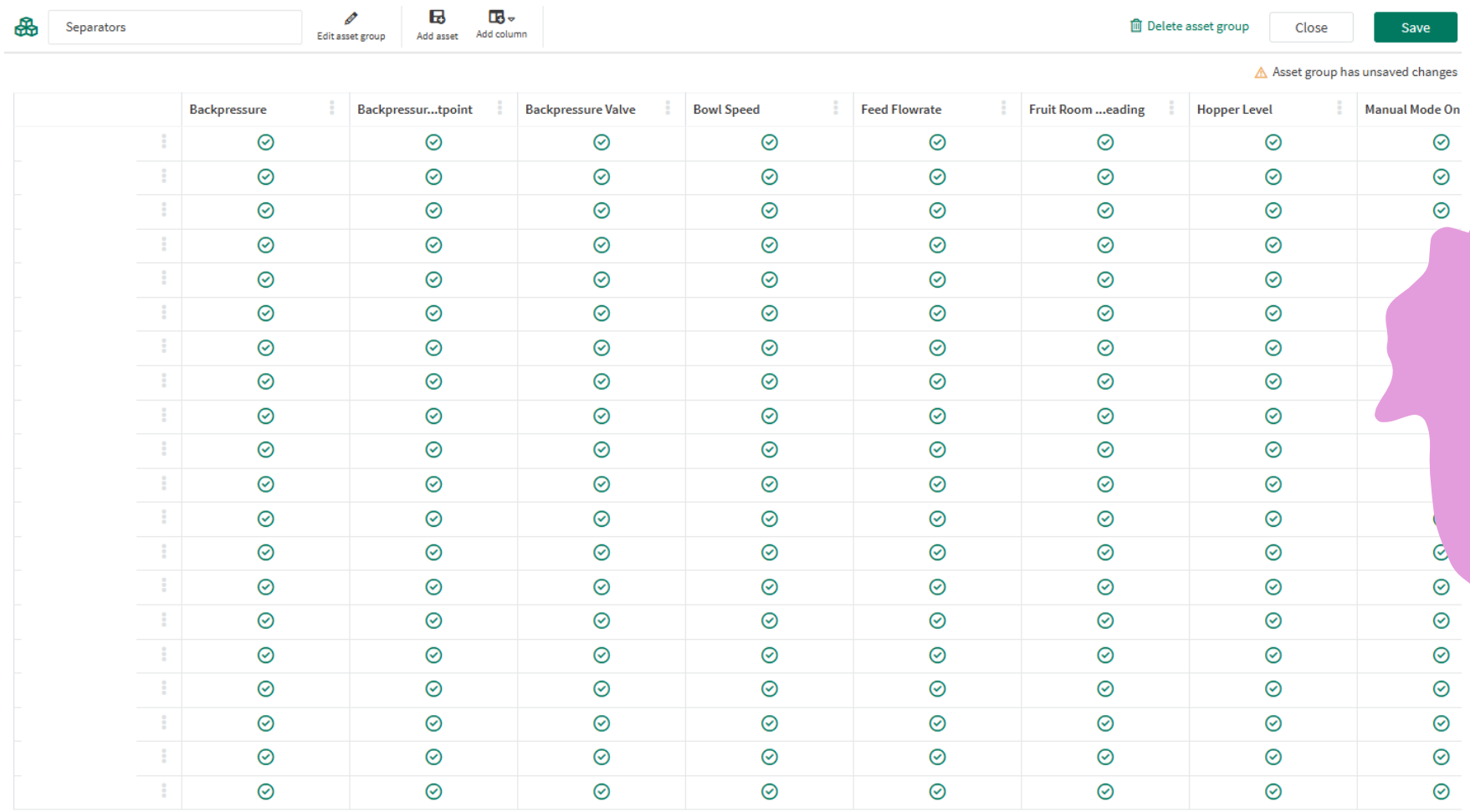


Equipment – all 20 separators

Columns – Relevant trends

Introducing the Asset Group

The Building Block for Multiple Interdepartmental Tools

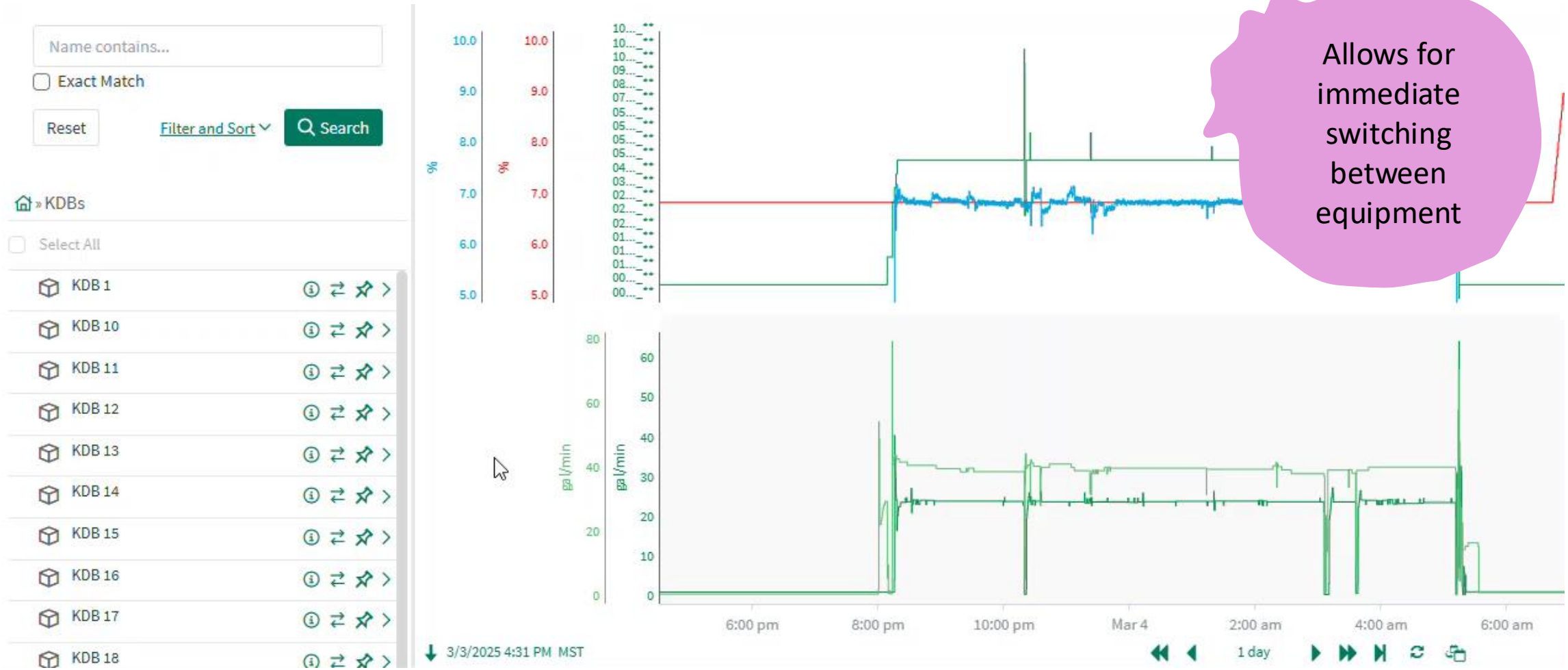


– Adding Columns for any vital Separator Trends

It might look like a lot, but it only needs to be built ONCE

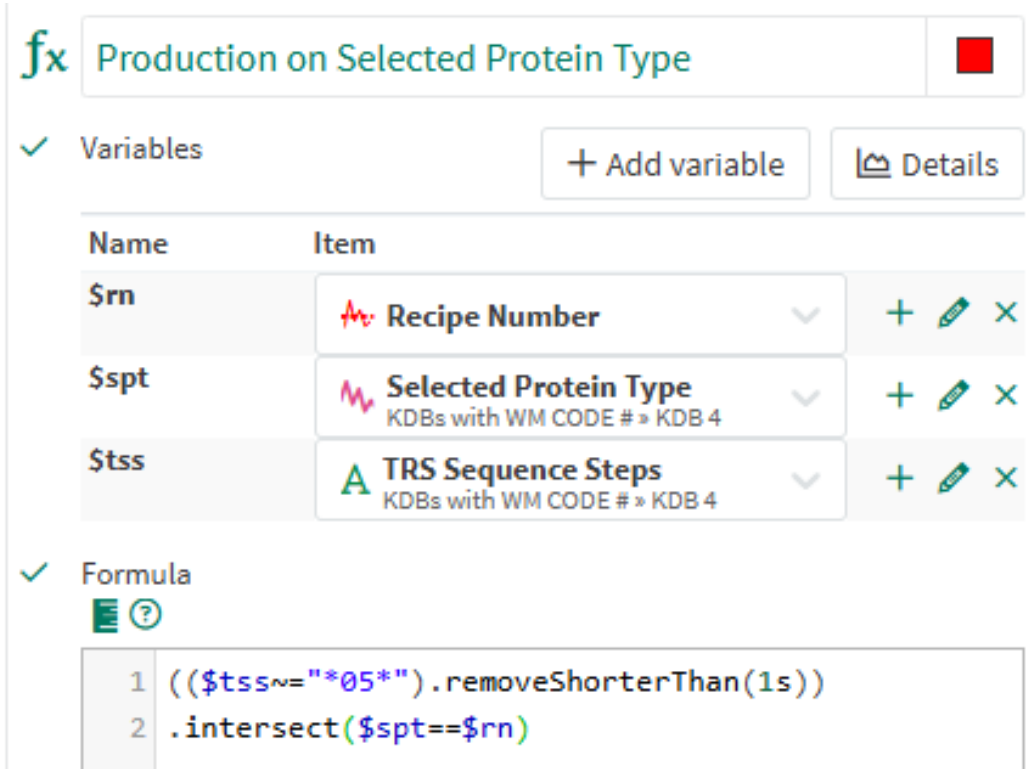
Introducing the Asset Group

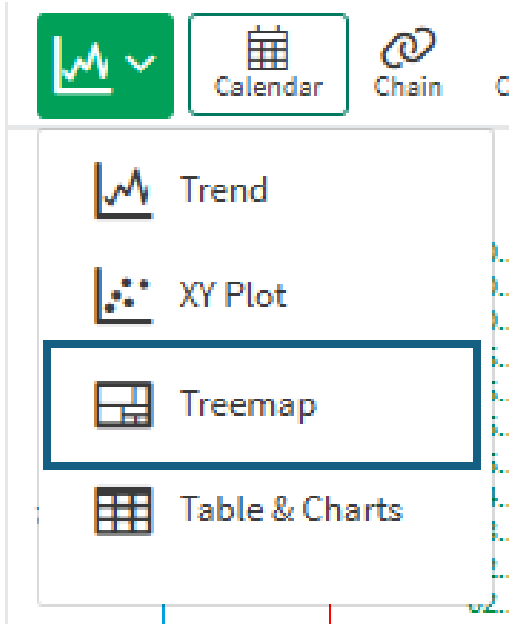
The Asset Swap



Asset Visuals

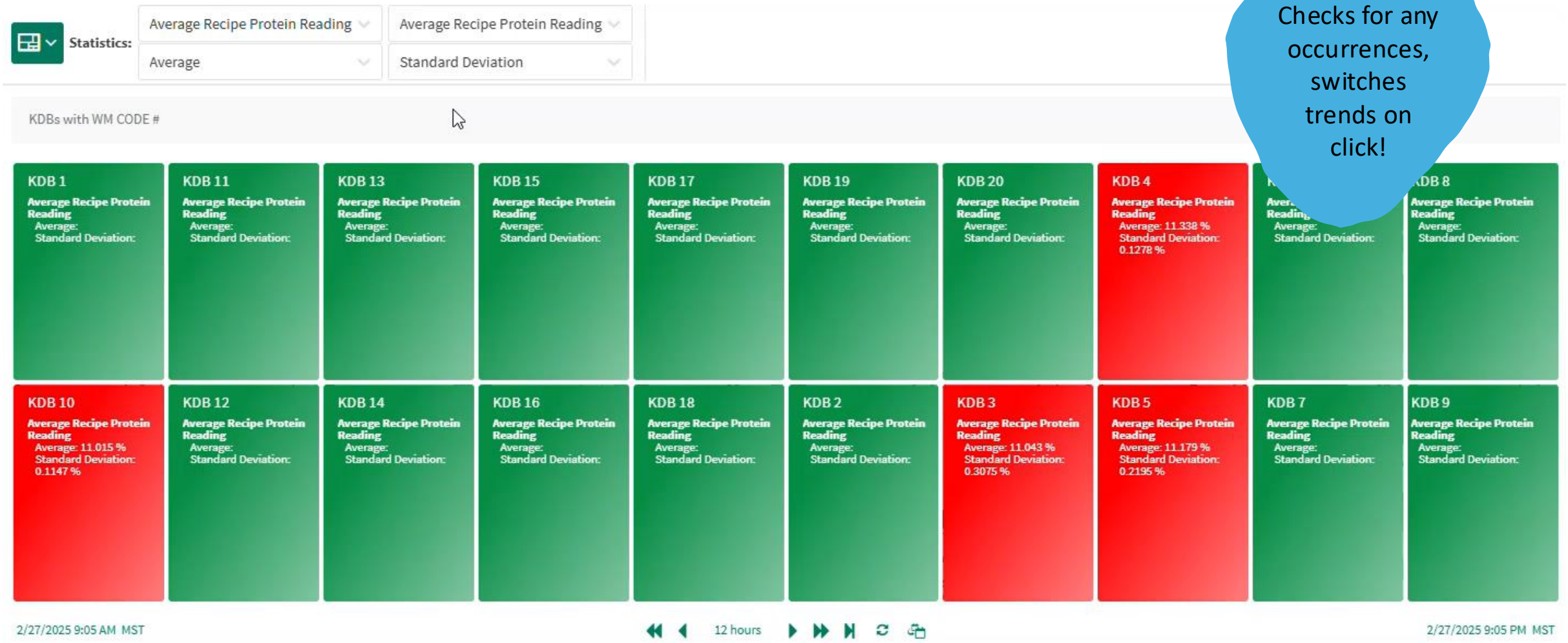
The Asset Tree





Asset Visuals

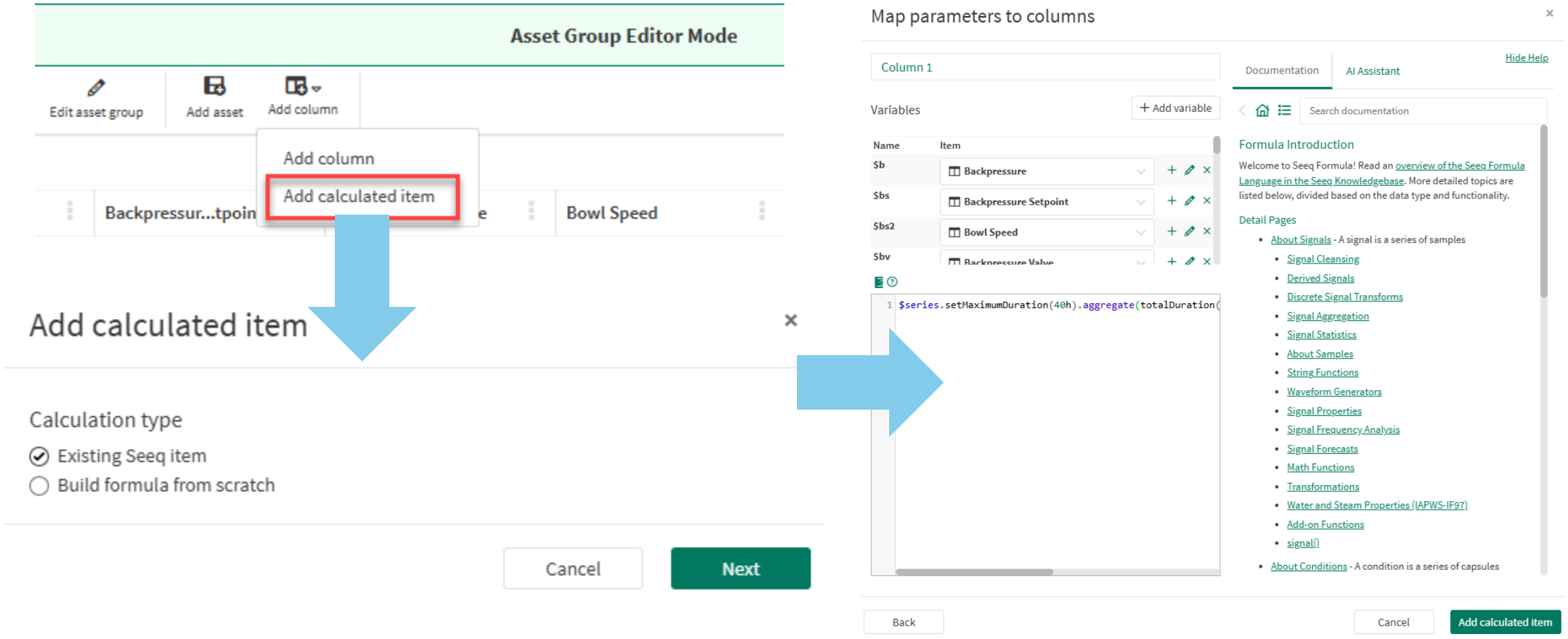
The Asset Tree



Checks for any occurrences, switches trends on click!

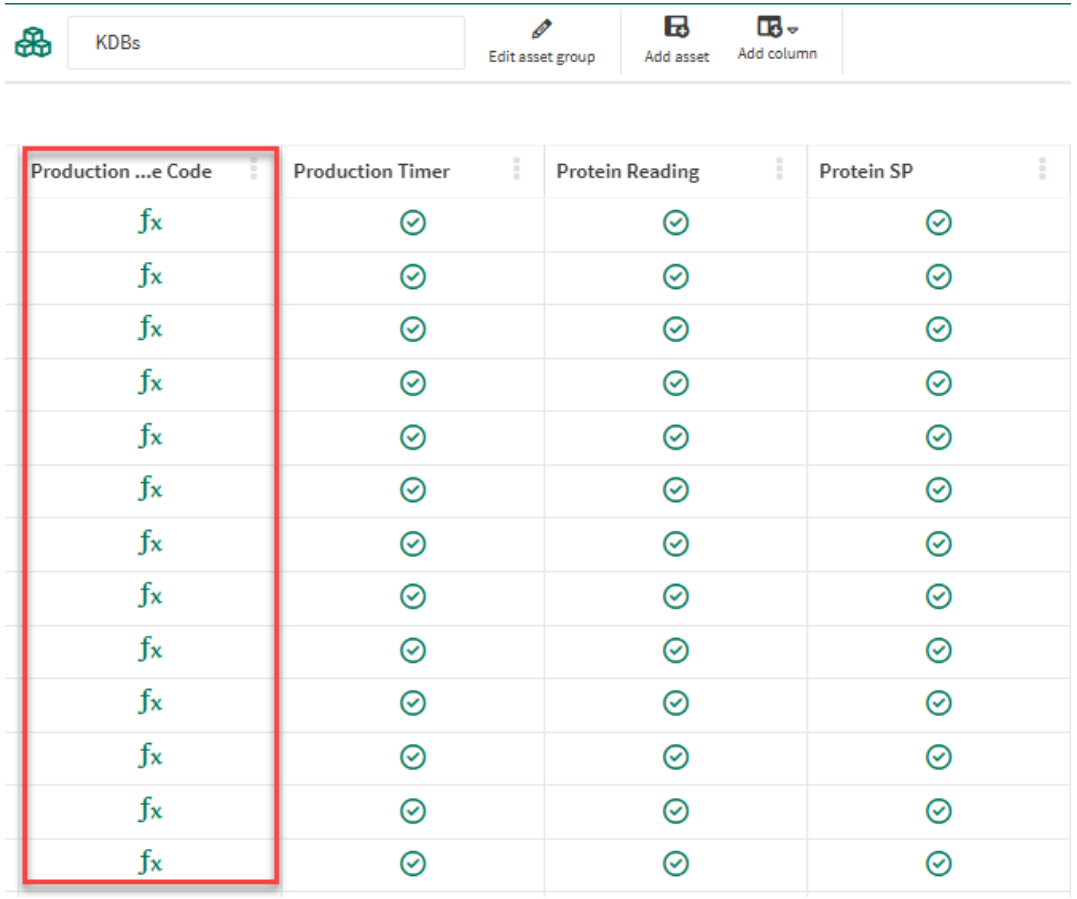
Speed Building Reports

Calculated Item Columns



Speed Building Reports

Calculated Item Columns



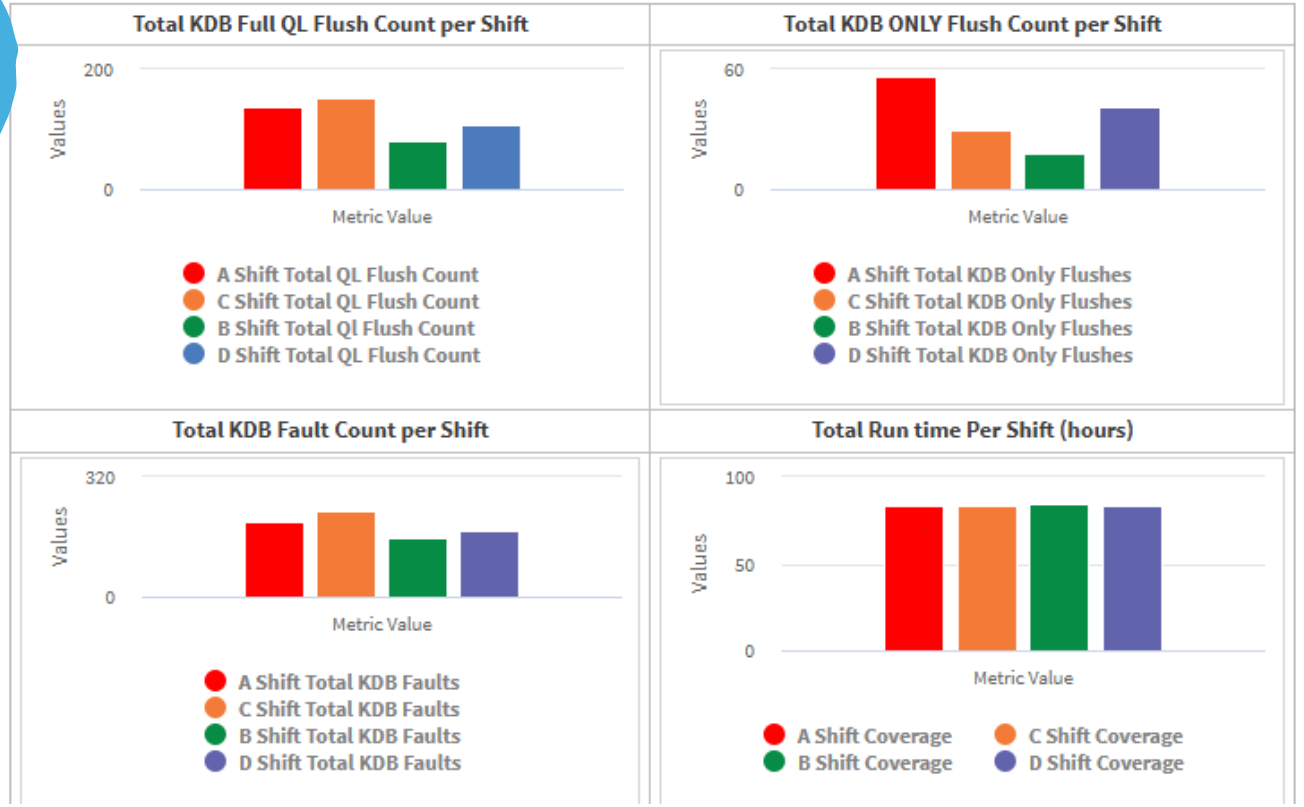
immediately calculated for all assets in group!

Speed Building Reports

What can we accomplish with these skills alone?

Using Asset Groups decreases time to build ANY kind of report over separators

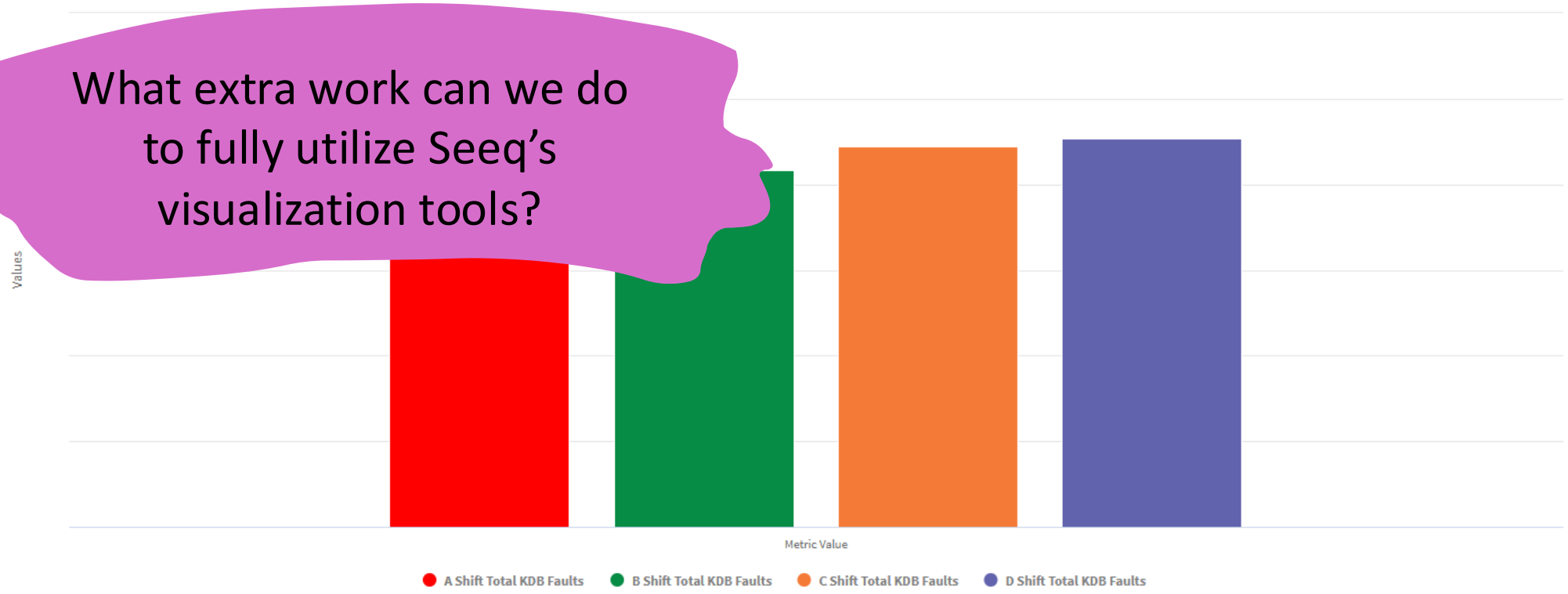
KDB Activity - Shift Comparison Summary



Working “Smarter not Harder”

Faulting Root Cause Analysis

What extra work can we do to fully utilize Seeq’s visualization tools?



Separator Faulting

Root Issue Occurs

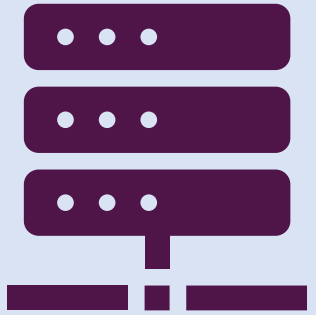
Logic categorizes 33 reasons to stop production

Separator enters Fault "step"

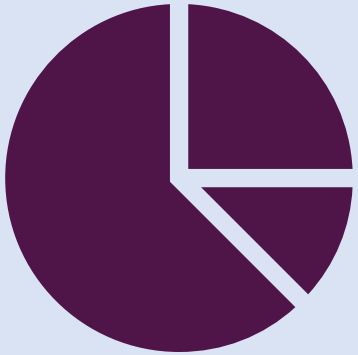
Separator Faulting

Trend fault code number

Add fault code trend for each separator in Asset Group

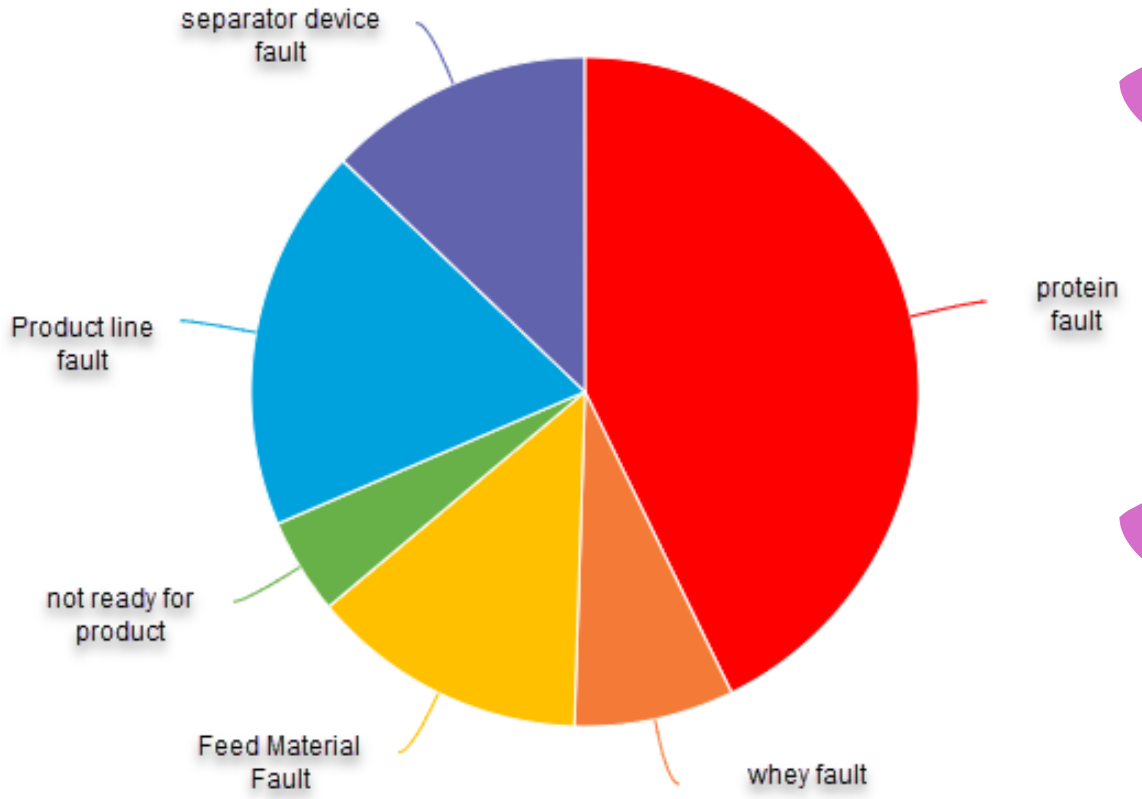


Create calculations and visualize in pie chart



Example Pie chart

Faulting Root Cause Analysis



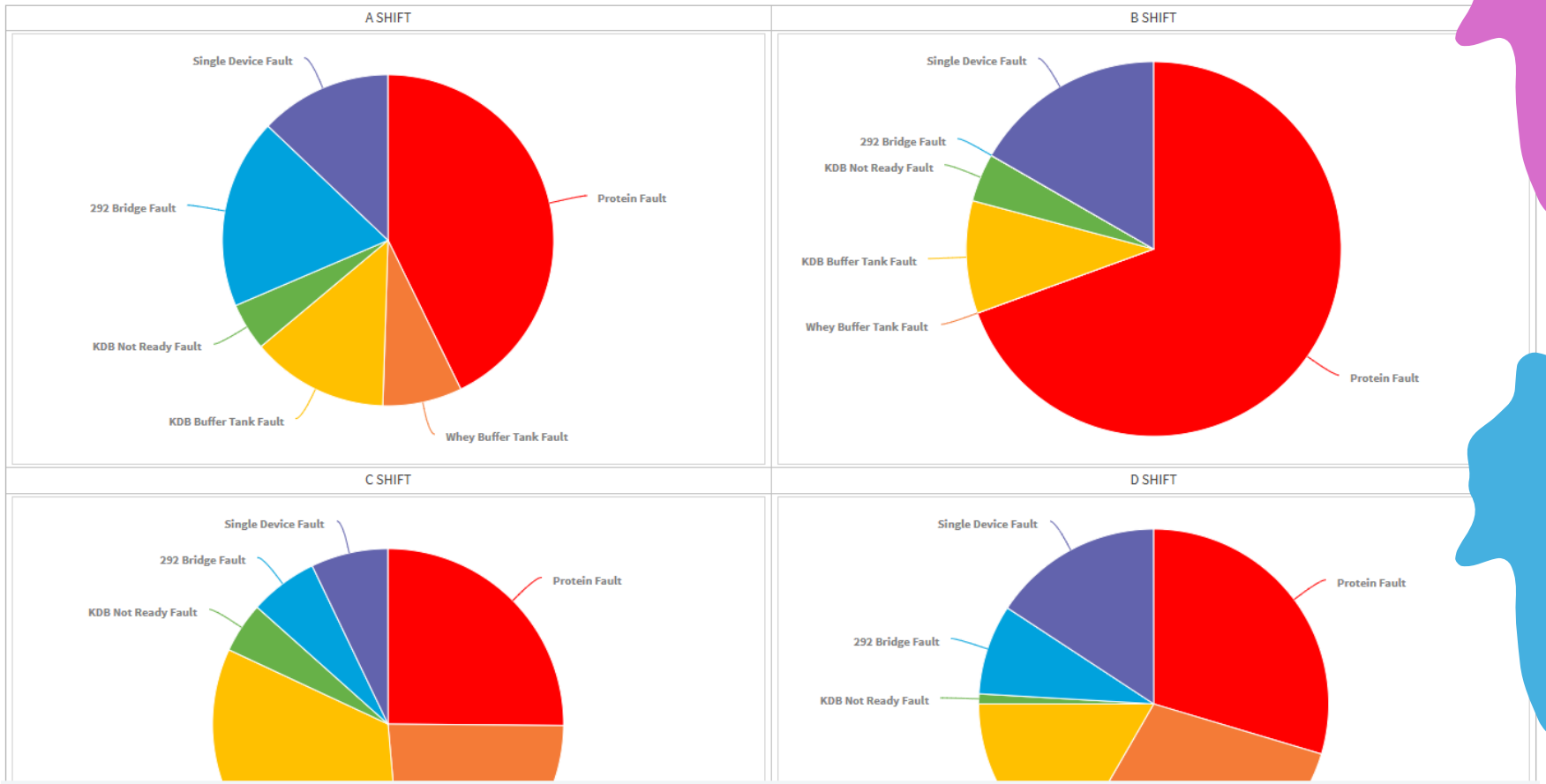
For all 20 Separators combined

Filtered For all 4 shifts to compare

Final Report

Faulting Root Cause Analysis

KDB Shift Fault Breakdown

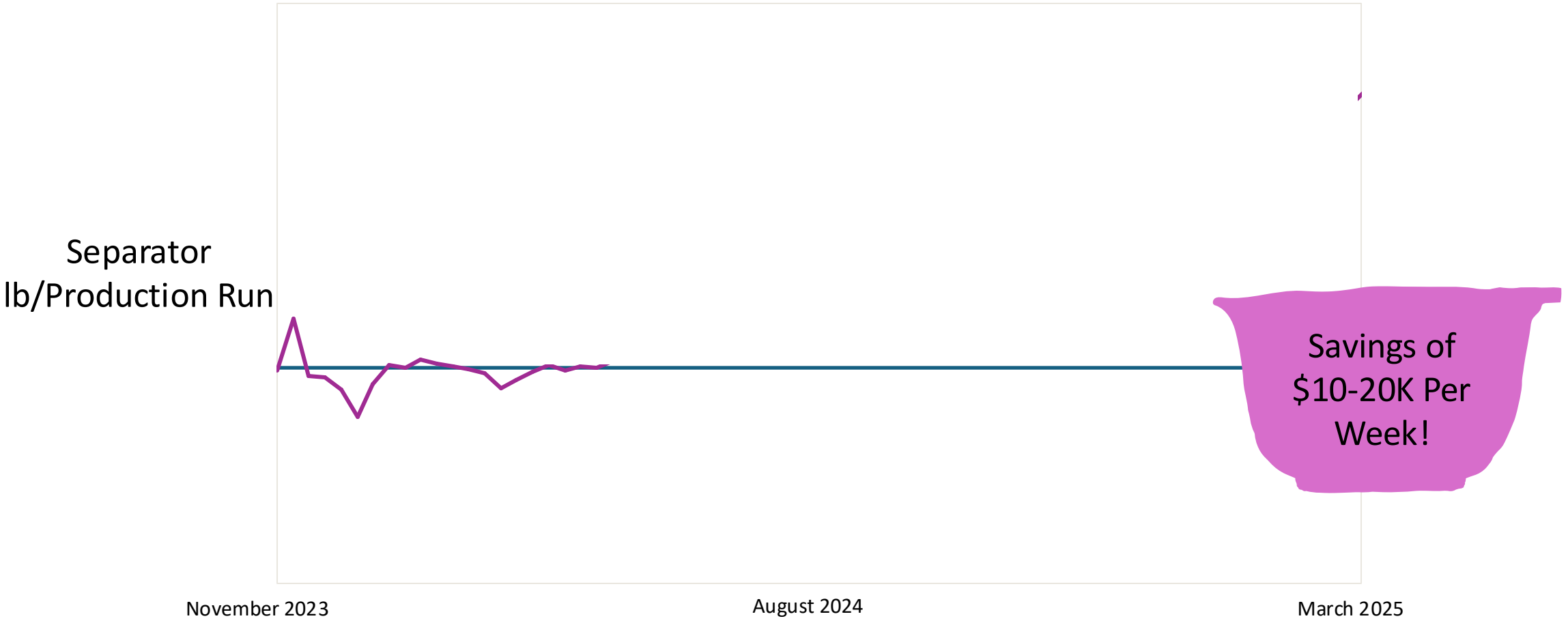


-Inclusion of fault code trend -fast build calculations in Asset Group

-Email Notifications in Organizer Topic

Show Me the Money

How Does this Impact Final Separator Performance / Savings Initiatives?



Conclusions

Asset Group use significantly cuts report building time commitments down for fast analysis

Simple programming additions enhance Seeq's reporting abilities to focus team efforts

Sharing of reports built with Asset Groups encourage new teams to learn and use Seeq

Regular sharing of projects drives skill growth company wide and user literacy


Thank You!
Any Questions?
Chobani
Vanilla Greek Yogurt
Mixed Berry
Chobani
Greek Yogurt
Nonfat Plain
Chobani
Sweet Cream
Coffee Creamer
WITH REAL CREAM
COFFEE CREAMER
Chobani
Zero Sugar
Toasted Coconut
Vanilla

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Thank You