

From Process Data to Action: Building and Sharing Solutions with TrendMiner

Trinity Colbert



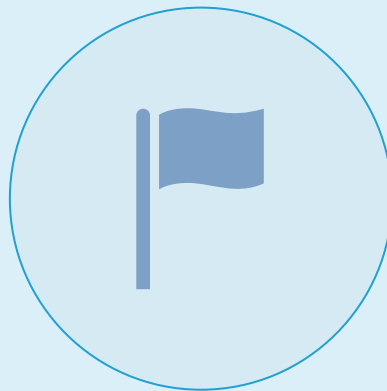
 **BASF**

We create chemistry

Start with the Operational Problem



Complicated
tracking systems



Lack of tools for
flagging outliers



Delayed cost data

Why TrendMiner? (Then)



New Engineer

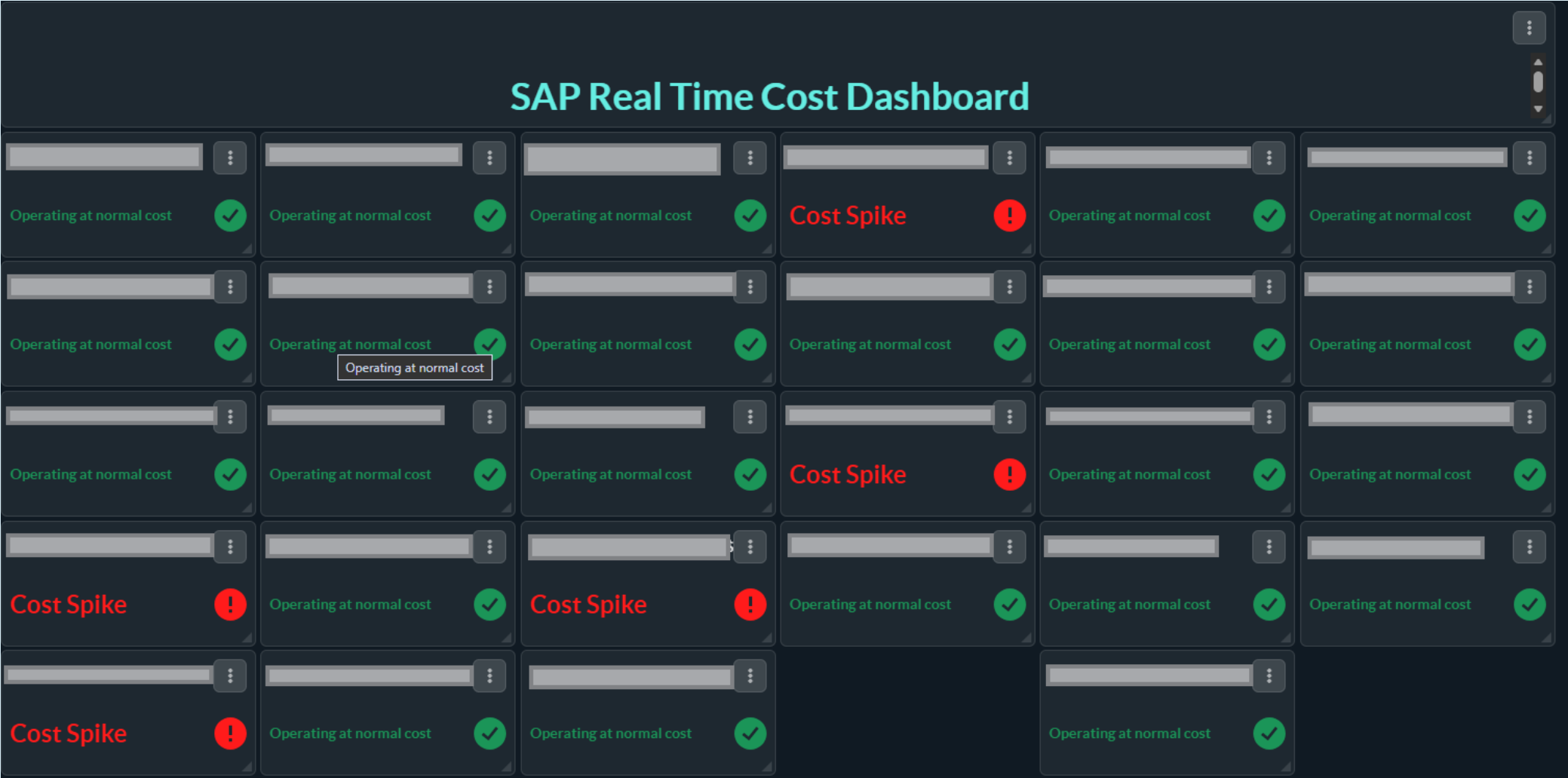


Aspen Process Explorer's Complexity



Available Learning Tools

The Information Matters, at a Glance



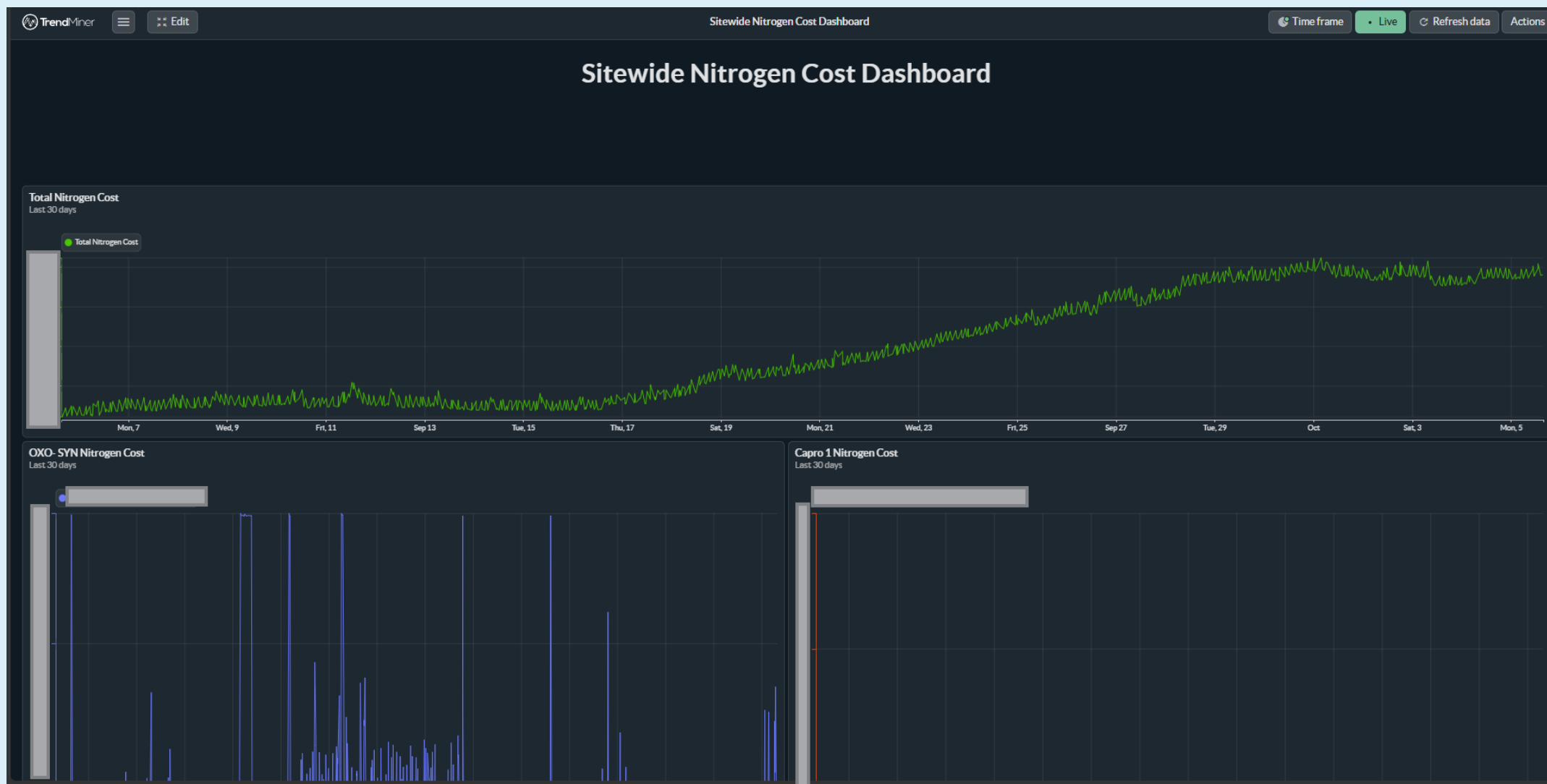
The Information Matters, at a Glance



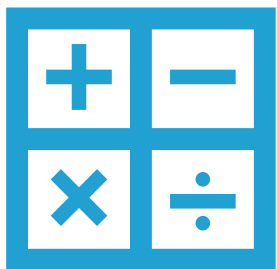
The Information Matters, at a Glance



The Information Matters, at a Glance



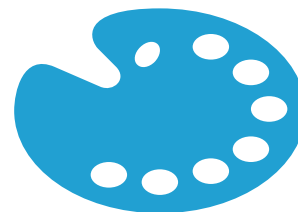
Customize the Dashboard to a Specific Need



**Manipulate the
original tags**



**Historical vs
Live data**



**Conditional
Formatting**



Alarms

Customize the Dashboard to a Specific Need



Manipulate the Original Tags

FORMULA

Name
Total Nitrogen Cost
[Trinity Colbert] sum of all units nitrogen cost, left out the zeroed values

Formula
1 a+b+c+d+e+f+g+h+i+j

▼ VARIABLE MAPPING

a
Oxidation

b
Capro 1

c
DISP ED

d
Capro 1

e
Finished

f
HDO

TrendHub Search tags & attributes

FORMULA

Name
[Trinity Colbert] Price of AMMONIA Conc/Diversion Header NH3 Load in dollars per hour

Formula
1 (((Filter1) + (Filter2)) * 1000 / 60 / 24 / 8.34 *
(Filter3) / 120000) * Cost1
2

▼ VARIABLE MAPPING

Filter1

Filter2

Filter3

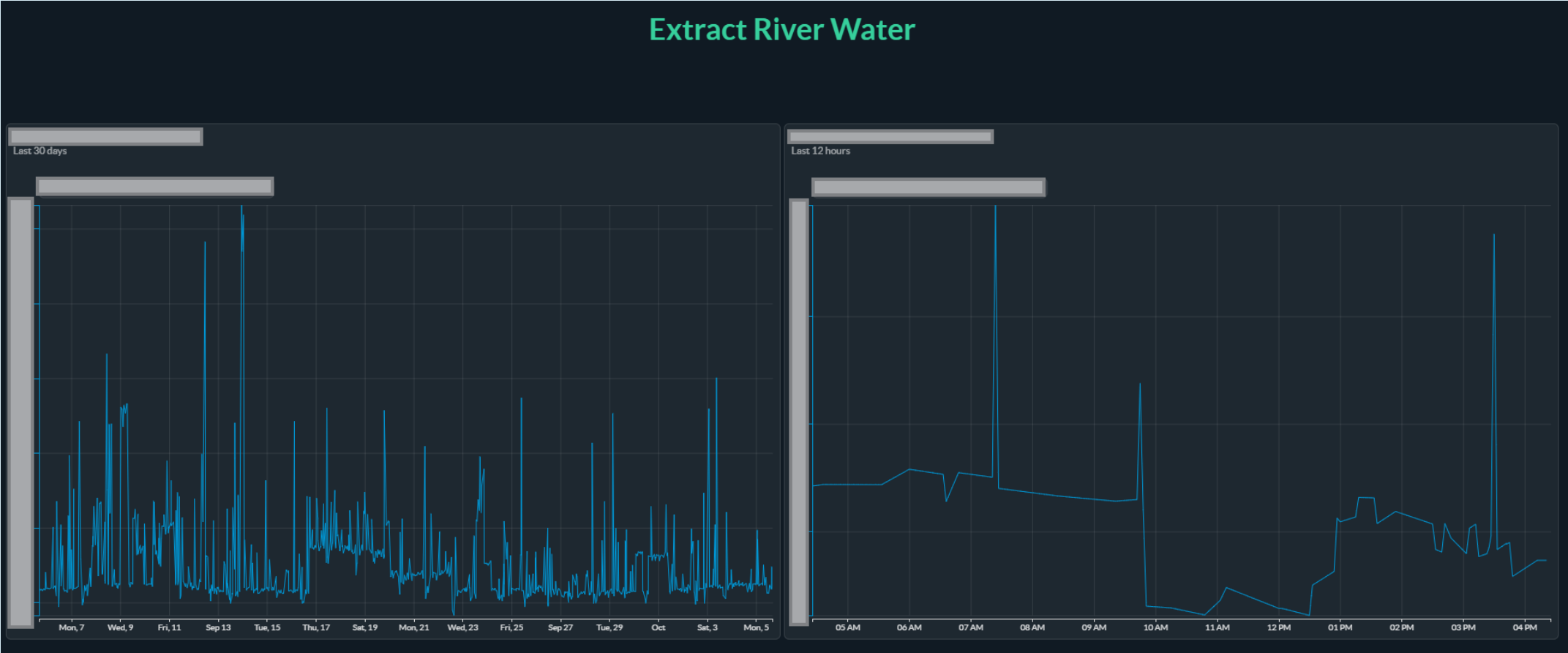
Cost1

Edit formula

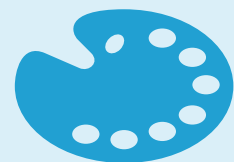
Customize the Dashboard to a Specific Need



Historical vs Live Data



Customize the Dashboard to a Specific Need



Conditional Formatting

Finished River Water Cost Consumption too high !	Extract Nitrogen Cost Operating at normal consumption ✓	Finished Nitrogen Cost Operating at normal consumption ✓
Extract 475# Steam Cost Consumption too high !	Extract 235# Steam Cost Operating at normal consumption ✓	Finished 235# Steam Cost Operating at normal consumption ✓

Customize the Dashboard to a Specific Need



Alerts



Why TrendMiner? (Now)

- Efficiency
 - Creating dashboards
 - Changing your view
 - Creating variations of tags (formulas and aggregations)
- Accessibility
- Search Functionality
- Monitoring and Alerting capabilities
- Ease of distribution
- Intuitive for new users
- Continuous TM software developments

The Effects of my Dashboard

Visibility to Real Time Costs

Mutual Understanding of Utilities Usages

Hurricane Help

Leadership Awareness

Departmental Awareness of TrendMiner Capabilities



We create chemistry