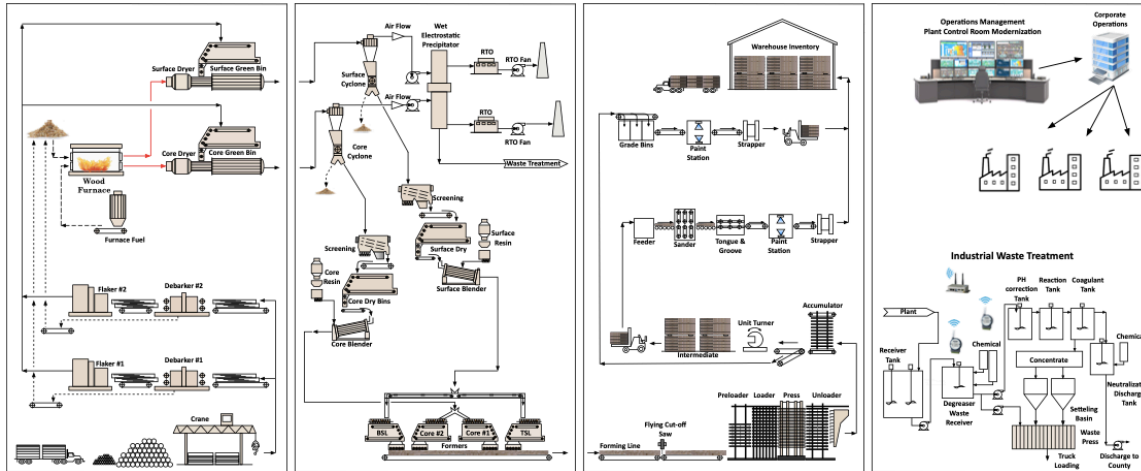


# State of the union for our OSB site

- We've done a lot over the past 30 years to improve.
  - Automation improvements
  - Modernization of equipment
  - Countless CI projects
  - Now at 115% of design capacity
  - A testimony to our people and leadership.



# Our vision of the future - Increase competitiveness ✓

## Improve overall Operational efficiency

- Digitization beyond instrumentation, automation, HMI, etc..
- How we work, our routines & procedures:
  - what & how we do what we do
- Better management of our assets (APM)
  - Downtime avoidance strategies
  - Improved Analytics
- Mobility plant wide
- Begin collapsing OT & IT domain
- Reduce friction of our tools
- Improve our shift cadence

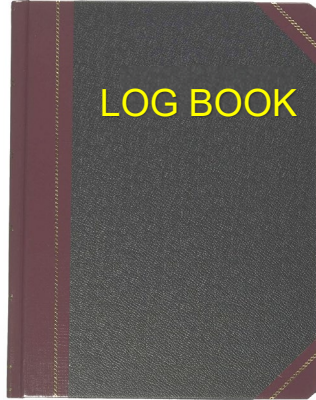
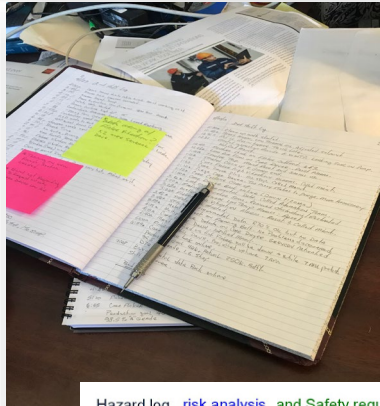




# Improve shift cadence



# How we roll...We "TRY" to build cadence of the shift in logs



Hazard log, risk analysis and Safety requirements

Id	Sub Sys - item	Hazard > accident	Cause	Risk mitigation actions		after		Closed	Owner
				C	F	C	F		
1	Communication	Loss of verbal communication between passenger and Train driver > Passenger can not warn the train driver in an emergency situation	Technical failure Technical failure in communication equipment Human error	Several speech units in each coach 2. Passenger emergency brake 3. Public Announcement equipment	Catastrophic	Improbable	Negligible		

MAINTENANCE LOG

Date	Aircraft	Maintenance Details
3/25	Colson 182	Replaced propeller & front nose wheel
7/4	Extra 300	Installed new receiver
8/18	P-51 Mustang	Repaired crack on left wing tip
9/14	Pitts Biplane	Replaced rudder servo

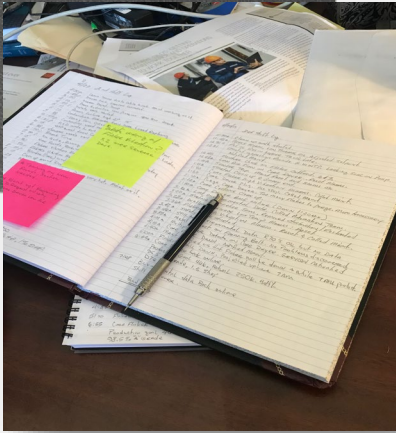
Operations, Maintenance, Safety



# How we start our shift - reviewing logs



## LOG BOOK



- Production fell short. Goal = 466k<sup>BDFT</sup>, Actual = 250k
- Downtime on:
  - Core Dryers Plug @ 1:30am, 1hr 20 min
  - Flakers down @ 4:15am, 2hr 40 min
- Quality was good - 98.5% “A” grade, 1.5% shop
- Safety – No DTZ’s
- Had Environmental excursion due to data losses that is permit related. (3:16am)
- Had to take down WWTP to repack pump seal.(12:31)
- We don’t know any more details – hard to establish cadence based on this info

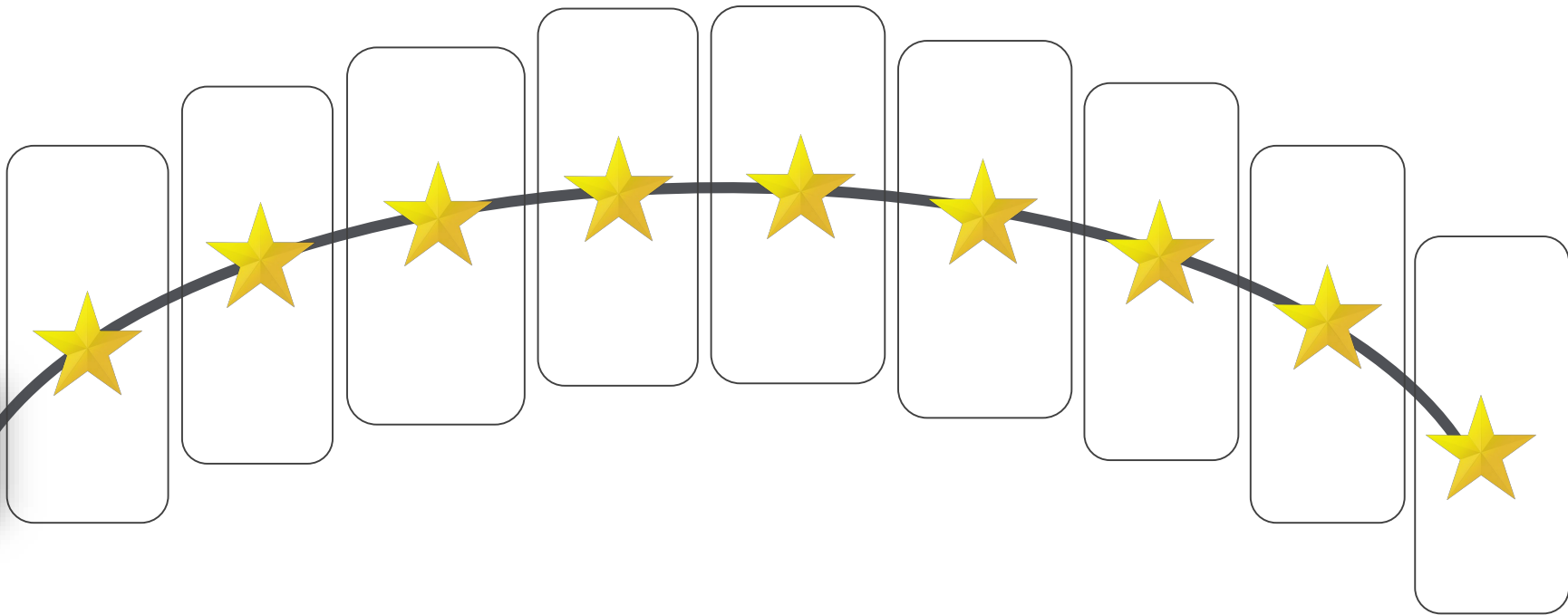
# Our journey today – the cadence of the shift

## Steps toward being more Digitized

Previous  
Shift  
Logs

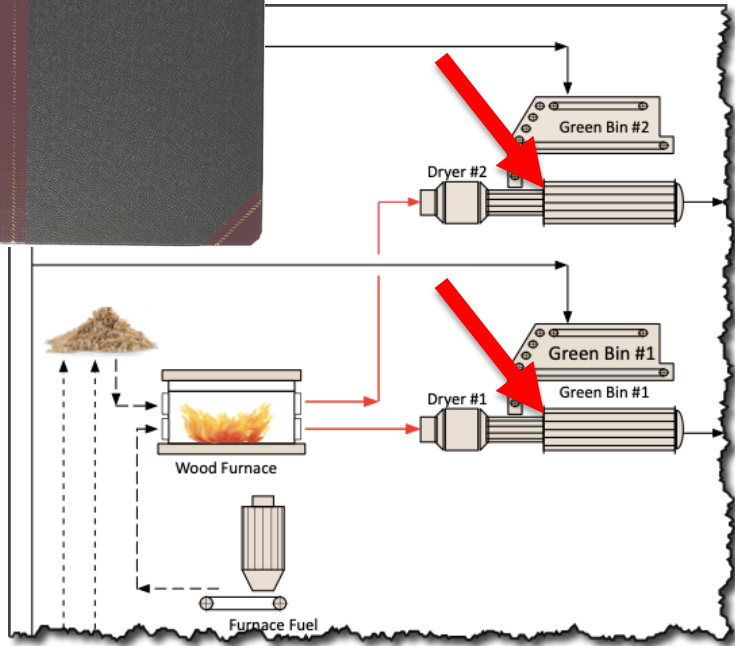


Having a  
Bad day

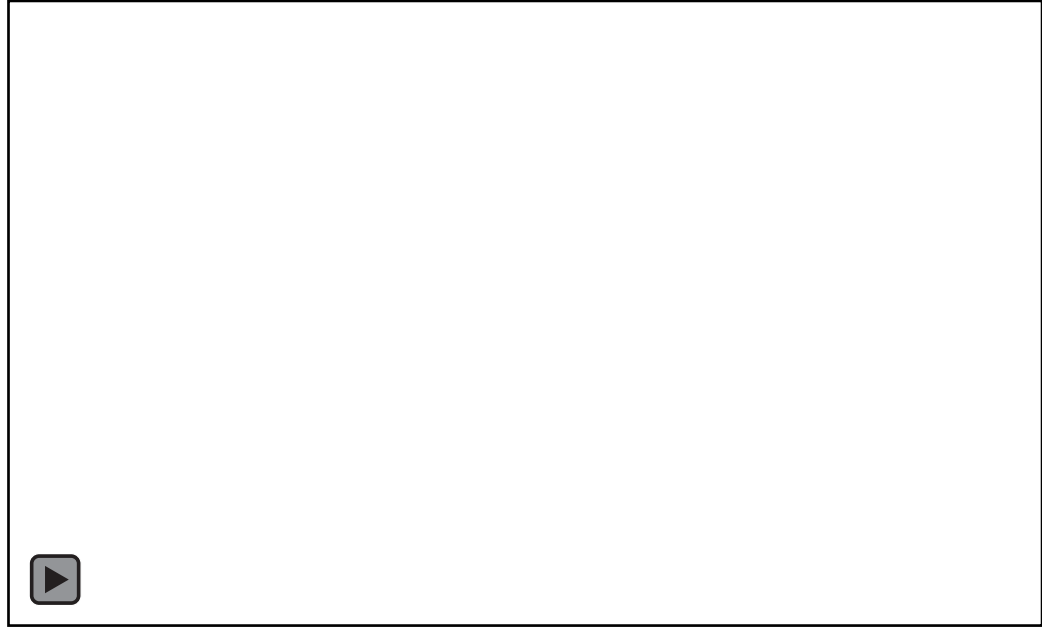


# Dryer plugs are problematic

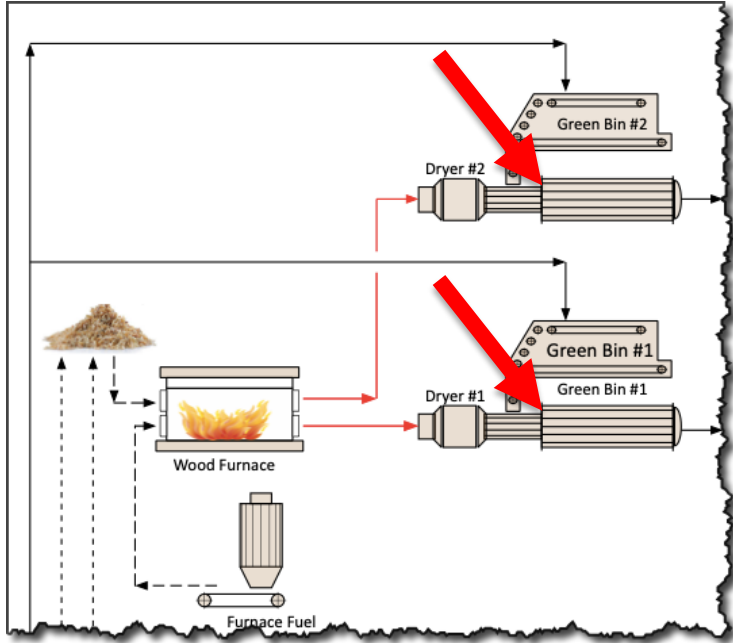
LOG BOOK



## Rotary Dryers



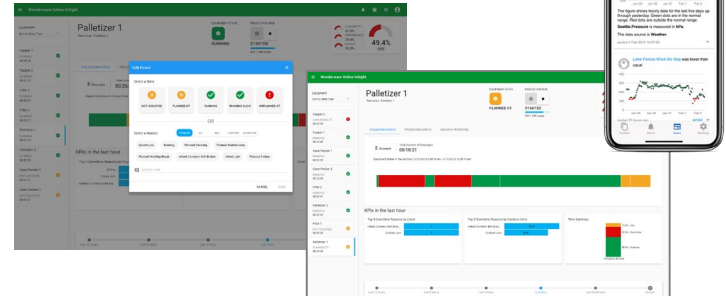
# How we're addressing the issue



1 Fast downtime determination with mobile tools

2 Digitize the what, when, how long & why (assign cause)

3 Quick, cloud based subscription licenses... No capital project

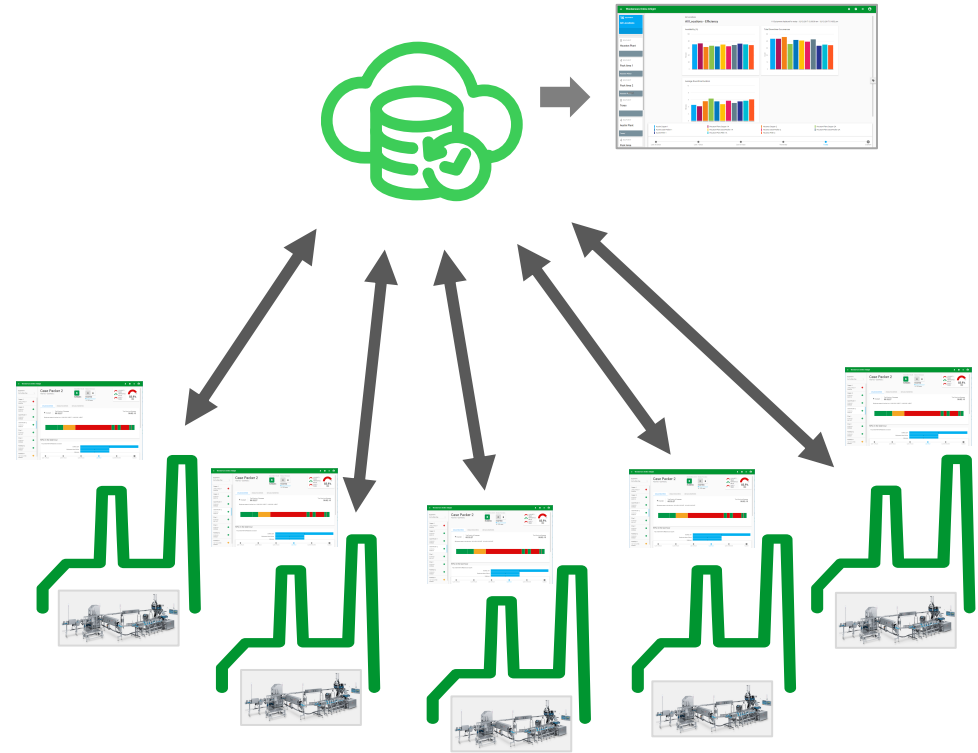


Lets take a look



Industry 4.0

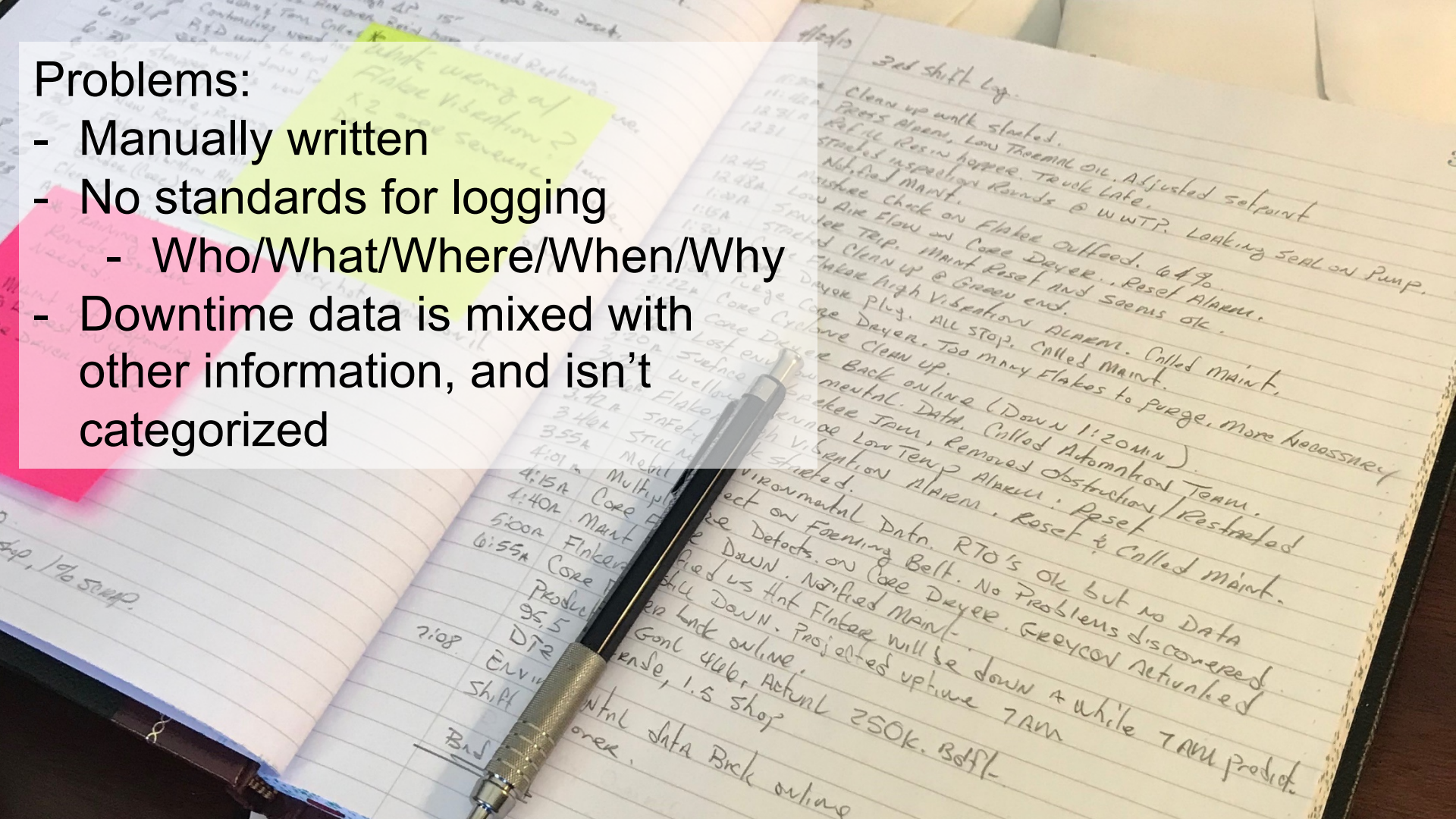
**Driving Operational Results  
Through Digitization**





## Problems:

- Manually written
- No standards for logging
  - Who/What/Where/When/Why
- Downtime data is mixed with other information, and isn't categorized





September 3, 2016

- "Dryer was taken down due to fire"

January 20, 2017

- "Fire. Production stopped."

August 1, 2018

- "Dust in dryer burnt. Set off alarms."

Lets take a look



Industry 4.0

**Driving Operational Results  
Through Digitization**

# WISH LIST

- 1
- 2
- 3

Easy tracking of downtime



AVEVA Insight

# People. Operations. Connected.

It is that simple.

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[SIGN IN](#)

[NEED AN ACCOUNT? SIGN UP NOW](#)

[NEED TO PUBLISH YOUR DATA TO INSIGHT? GET TOOLS HERE](#)

## Key Points:

- [Online.wonderware.com](https://online.wonderware.com)
- Free 45 day trial

# AVEVA INSIGHT

🔍 Search for saved content, tags, or keywords.

📄 SUGGESTED CONTENT

☰ DASHBOARD

### Content that grabs your attention

Soon, you'll see relevant and popular content here. But first, you'll need to start creating your own content in AVEVA Insight.

Check out this [short video](#) or [help to learn more](#).

### NEWS

#### Interesting facts about your data

Insight spends the first week or two learning about your data. After that, you'll begin seeing news stories here that highlight unusual and interesting events in your data trends.

- Equipment
- Sort by State Type
- Cyclone1  
RUNNING  
4 days, 01:18:57
- Cyclone2  
RUNNING  
4 days, 01:22:57
- Debarker1  
RUNNING  
4 days, 03:08:15
- Debarker2  
RUNNING  
4 days, 03:08:10
- Dryer1**  
RUNNING  
09:51:19
- Dryer2  
RUNNING  
4 days, 03:08:01
- Flaker1  
RUNNING  
05:44:42
- Flaker2  
RUNNING  
4 days, 03:07:48

# Dryer1

OSB Plant - Surface Dryer

EQUIPMENT STATE



**RUNNING**  
09:51:19

UTILIZATION EVENTS OEE DATA PROPERTIES

0 Stoppages | Total Duration of Stoppages 00:00:00 | Time Since Last Stoppage 09:51:19

Equipment states in the last hour: 4/15/2019 11:38:28 am - 4/15/2019 12:38:28 pm



## KPIs in the last hour

Top 5 Downtime Reasons by Count  
(No Data)

Top 5 Downtime Reasons by Duration (min)  
(No Data)

Time Summary

100% - Runtime





1:15A Started Clean up @ Green end.

1:30 Core Flaker High Vibration Alarm. Called MAINT.

1:30 Core Dryer plug. ALL STOP. Called MAINT.

2:10A Purge Core Dryer. Too many Flakes to purge. More necessary.

2:22A Core Cyclone Clean up.

2:50A Core Dryer Back online (Down 1:20min).

3:16A Lost environmental. DATA. Called Automation Team.

3:20A Surface Debraker Jam, Removed obstruction / Restarted

3:28A Wellons Furnace Low Temp Alarm: Reset

3:36A Flaker High Vibration Alarm. Reset & Called MAINT.

3:42A SAFETY

3:46A STILL N

3:55A Metal

4:01A Multip

4:15A Core

4:40A MAINT WORKING ON CORE DRYER WILL BE DOWN A WHILE TANK Predict

5:00A Flakers still DOWN. Projected uptime 7AM

6:55A Core Flaker back online.

**UNPLANNED DT**

Equipment Failure

4/15/2019 1:29:35 am

01:17:42

- Equipment
- Sort by State Type
- Cyclone1  
RUNNING  
4 days, 05:32:48
- Cyclone2  
RUNNING  
4 days, 05:36:49
- Debarker1  
RUNNING  
4 days, 07:22:07
- Debarker2  
RUNNING  
4 days, 05:52:23
- Dryer1  
RUNNING  
14:05:06
- Dryer2  
RUNNING  
4 days, 02:22:05
- Flaker1  
RUNNING  
09:58:34
- Flaker2  
RUNNING  
4 days, 07:21:40

# Dryer1

OSB Plant - Surface Dryer

## EQUIPMENT STATE



**RUNNING**  
14:05:06

### UTILIZATION EVENTS

### OEE DATA PROPERTIES

1 Stoppages

Total Duration of Stoppages

01:17:42

Time Since Last Stoppage

14:05:06

Merge Time

Split Time



### KPIs in this period

Edit

#### Top 5 Downtime Reasons by Count

Equipment Failure

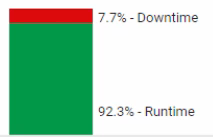
1

#### Top 5 Downtime Reasons by Duration (min)

Equipment Failure

77.7


#### Time Summary



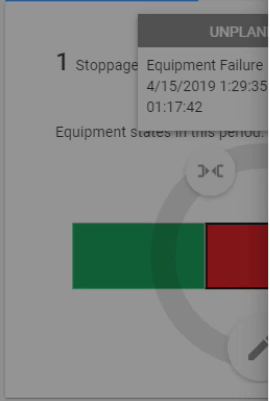
Equipment	State	Duration
Cyclone1	RUNNING	4 days, 05:33:51
Cyclone2	RUNNING	4 days, 05:37:52
Debarker1	RUNNING	4 days, 07:23:10
Debarker2	RUNNING	4 days, 05:53:26
Dryer1	RUNNING	14:06:09
Dryer2	RUNNING	4 days, 02:23:08
Flaker1	RUNNING	09:59:37
Flaker2	RUNNING	4 days, 07:22:43

# Dryer1

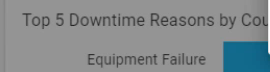
OSB Plant - Surface Dryer

EQUIPMENT STATE  
  
RUNNING

## UTILIZATION EVENTS

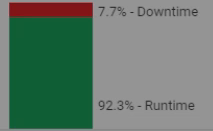


## KPIs in this period



Time Since Last Stoppage  
14:06:09

## Time Summary



### Edit Event

Reason Groups

Select a reason group to view its reasons.

Popular

Reasons

E Stop Equipment Failure Planned Maintenance Process Failure Running Speed Loss

Add Comment

CANCEL SAVE



- Equipment  
Sort by State Type
- Cyclone1  
RUNNING  
4 days, 01:58:15
- Cyclone2  
RUNNING  
4 days, 02:02:17
- Debarker1  
RUNNING  
4 days, 03:47:35
- Debarker2  
RUNNING  
4 days, 03:47:30
- Dryer1**  
RUNNING  
10:30:38
- Dryer2  
RUNNING  
4 days, 03:47:20
- Flaker1  
RUNNING  
06:24:12
- Flaker2  
RUNNING  
4 days, 03:47:07

# Dryer1

OSB Plant - Surface Dryer

EQUIPMENT STATE



**RUNNING**  
10:30:38

## UTILIZATION EVENTS

OEE DATA PROPERTIES

1 Stoppages  
Total Duration of Stoppages  
**01:17:42**

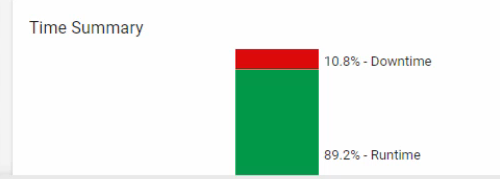
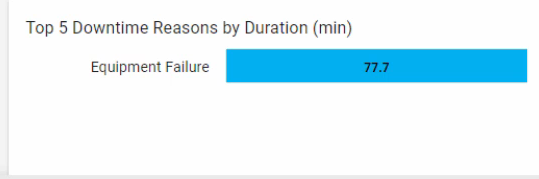
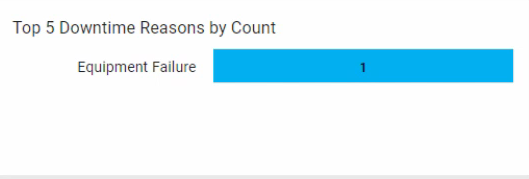
Time Since Last Stoppage  
**10:30:38**

UNPLANNED DT

Equipment Failure  
4/15/2019 1:29:35 am  
01:17:42



## KPIs in the last 12 hours



2:10 PM Purge Core Dryer. Too many flakes to purge, more necessary.  
AN UP.

### Key Points:

- Accurate data capture
- Avoid searching paper logs

### UNPLANNED DT

Equipment Failure



4/15/2019 4:12:16 am

02:41:33

3:42 PM SAFETY Walk started.

3:46 PM STILL NO environmental Data. RTO's OK but no DATA

3:55 AM Metal Detect on Feeding Belt. No Problems discovered.

4:01 PM Multiple Fire Detects on Core Dryer. Greases Activated

4:15 AM Core Flaker Down. Notified Maint-

4:40 PM Maint notified us that Flaker will be down while TAM Predict.

5:00 PM Flakers still Down. Projected up time TAM

6:55 PM Core Flaker back online.

Production Goal 466, Actual 250k. 15%/-

95.5 A Grade, 1.5 shop

DT2=0.

UTILIZATION EVENTS

PRODUCTION EVENTS

OEE DATA PROPERTIES

40 Stoppages

Total Duration of Stoppages

02:56:51

Time Since Last Stoppage

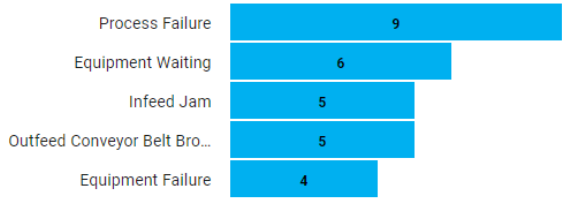
00:17:16

Equipment states in the last 12 hours: 4/15/2019 1:45:45 am - 4/15/2019 1:45:45 pm

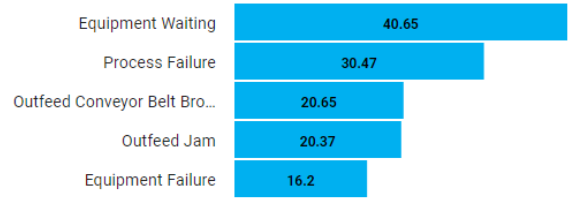


KPIs in the last 12 hours

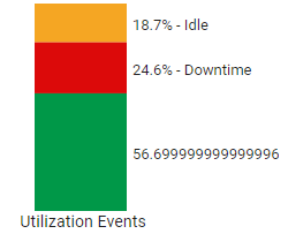
Top 5 Downtime Reasons by Count



Top 5 Downtime Reasons by Duration (min)



Time Summary



Last 12 Hours

Last 8 Hours

Last 4 Hours

Last Hour

Last 30 Minutes

Custom

Lets take a look



Industry 4.0

**Driving Operational Results  
Through Digitization**

# WISH LIST

1  
2  
3

Easy tracking of downtime



Analysis of where downtimes  
most frequently occur

UTILIZATION EVENTS

PRODUCTION EVENTS

OEE DATA PROPERTIES

40 Stoppages

Total Duration of Stoppages

02:56:51

Time Since Last Stoppage

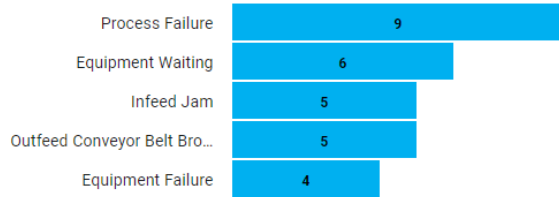
00:17:16

Equipment states in the last 12 hours: 4/15/2019 1:45:45 am - 4/15/2019 1:45:45 pm

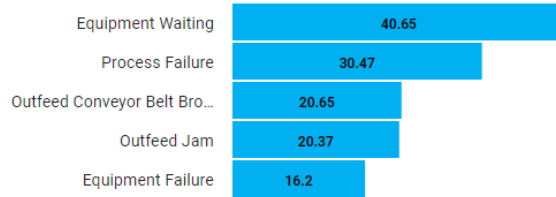


KPIs in the last 12 hours

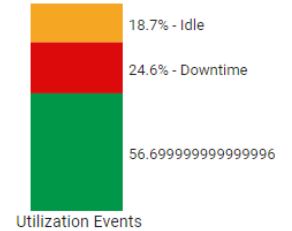
Top 5 Downtime Reasons by Count



Top 5 Downtime Reasons by Duration (min)



Time Summary



Last 12 Hours

Last 8 Hours

Last 4 Hours

Last Hour

Last 30 Minutes

Custom

- Equipment
- Sort by State Type
- Cyclone1  
RUNNING  
4 days, 05:21:21
- Cyclone2  
RUNNING  
4 days, 05:25:23
- Debarker1  
RUNNING  
4 days, 07:10:41
- Debarker2  
RUNNING  
4 days, 05:40:57
- Dryer1  
RUNNING  
13:53:40
- Dryer2  
RUNNING  
4 days, 02:10:39
- Flaker1  
RUNNING  
09:47:19
- Flaker2  
RUNNING  
4 days, 07:10:14

RUNNING  
09:47:19

UTILIZATION EVENTS | OEE DATA PROPERTIES

1 Stoppages | Total Duration of Stoppages  
**02:41:33**

Equipment states in this period: 4/15/2019 12:00:00 am - 4/15/2019 4:39:32 pm

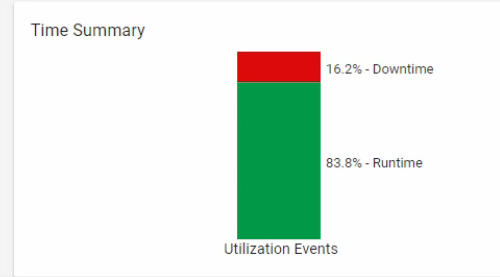
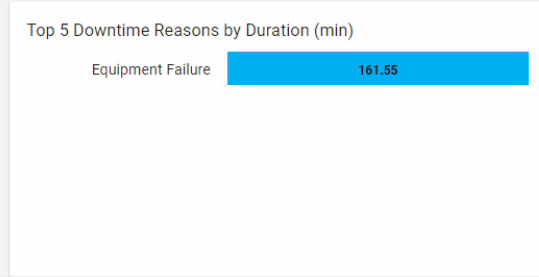
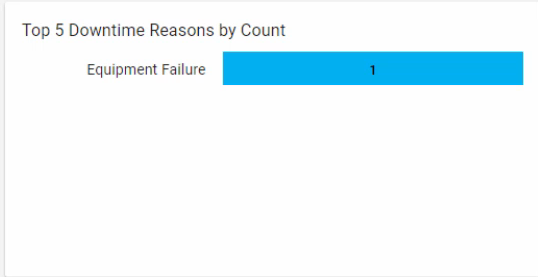
# OEE: Overall Equipment Effectiveness

Time Since Last Stoppage  
**09:47:19**

$$OEE = Availability * Performance * Quality$$



## KPIs in this period



9 EQUIPMENT  
All Locations

9 EQUIPMENT  
OSB

All Locations

### All Locations - Efficiency

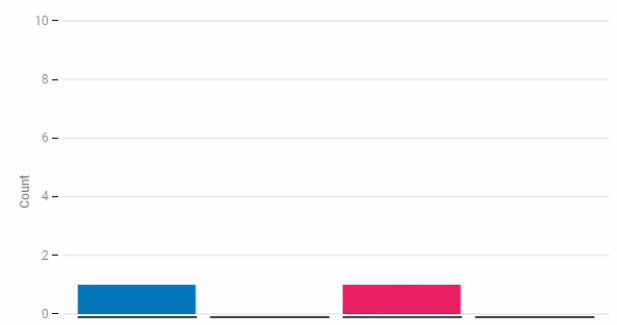
For today : 4/15/2019 12:00:00 am - 4/15/2019 5:23:25 pm

#### UTILIZATION ANALYSIS

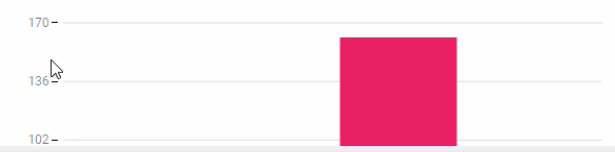
##### Availability (%)



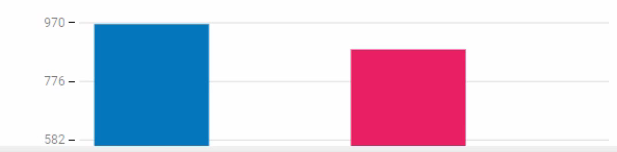
##### Total Downtime Occurrences



##### Mean Time To Repair (MTTR)



##### Mean Time Between Failure (MTBF)



Legend: Dryer1 (blue), Dryer2 (yellow), Flaker1 (pink), Flaker2 (grey)

Timeline: Last 30 Days, Last 7 Days, Last 3 Days, Yesterday, Today (selected), Custom

9 EQUIPMENT  
All Locations

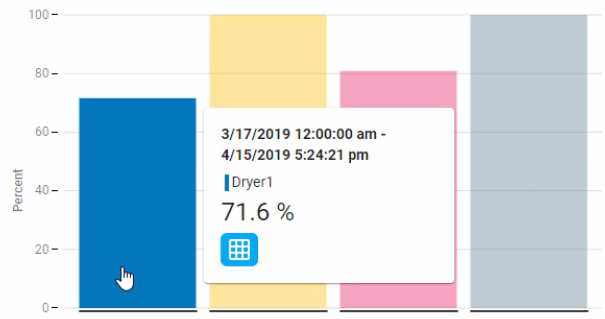
9 EQUIPMENT  
OSB

### All Locations All Locations - Efficiency

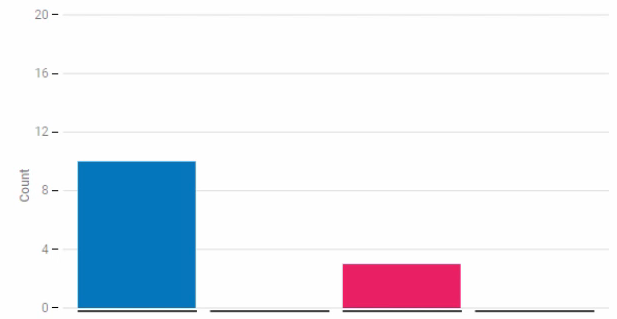
In the last 30 days: 3/17/2019 12:00:00 am - 4/15/2019 5:24:21 pm

#### UTILIZATION ANALYSIS

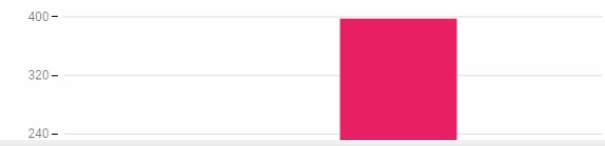
##### Availability (%)



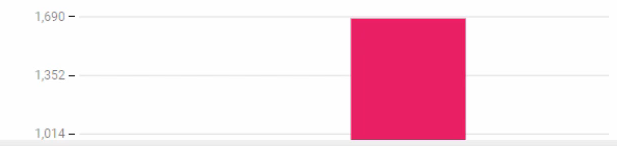
##### Total Downtime Occurrences



##### Mean Time To Repair (MTTR)



##### Mean Time Between Failure (MTBF)



Legend: Dryer1 (Blue), Dryer2 (Yellow), Flaker1 (Pink), Flaker2 (Grey)

Timeline: Last 30 Days (Selected), Last 7 Days, Last 3 Days, Yesterday, Today, Custom



9 EQUIPMENT  
All Locations

9 EQUIPMENT  
OSB

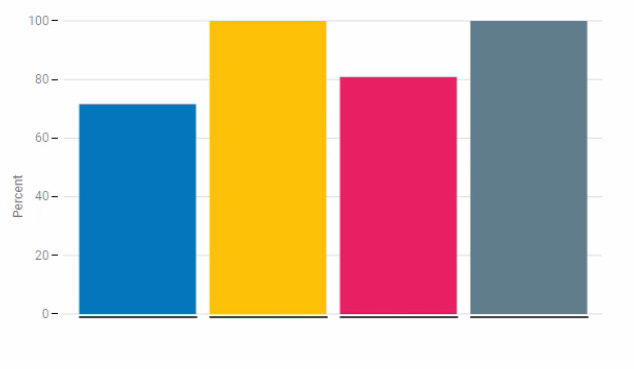
All Locations

### All Locations - Efficiency

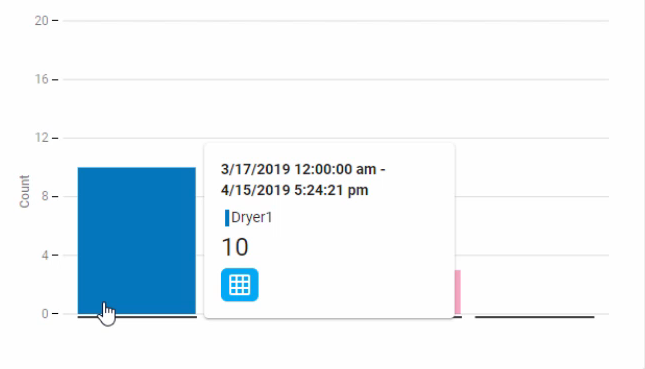
In the last 30 days: 3/17/2019 12:00:00 am - 4/15/2019 5:24:21 pm

#### UTILIZATION ANALYSIS

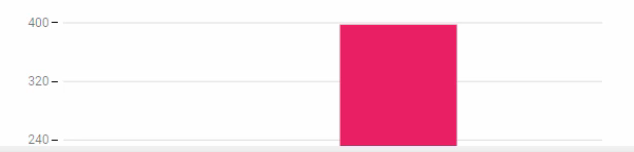
##### Availability (%)



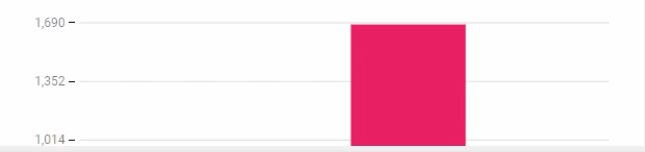
##### Total Downtime Occurrences



##### Mean Time To Repair (MTTR)



##### Mean Time Between Failure (MTBF)



Legend: Dryer1 (blue), Dryer2 (yellow), Flaker1 (pink), Flaker2 (grey)

Timeline: Last 30 Days, Last 7 Days, Last 3 Days, Yesterday, Today, Custom

Lets take a look



Industry 4.0

Driving Operational Results  
Through Digitization

# WISH LIST

1  
2  
3

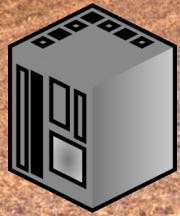
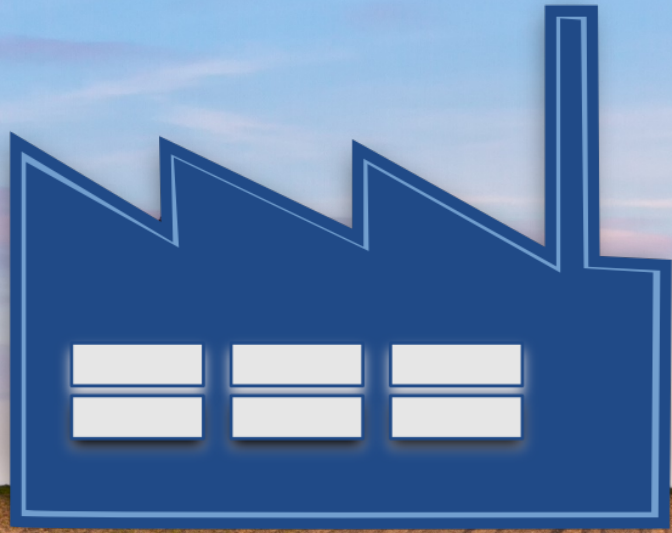
Easy tracking of downtime.



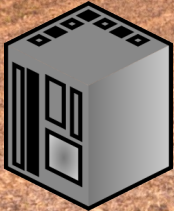
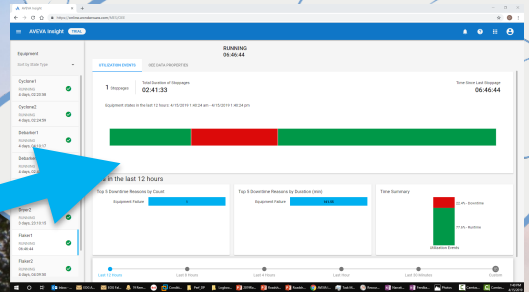
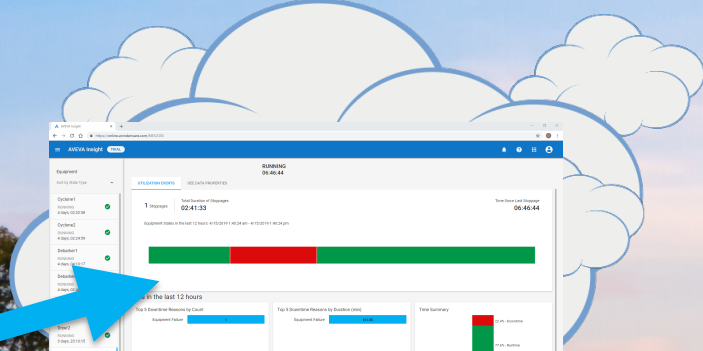
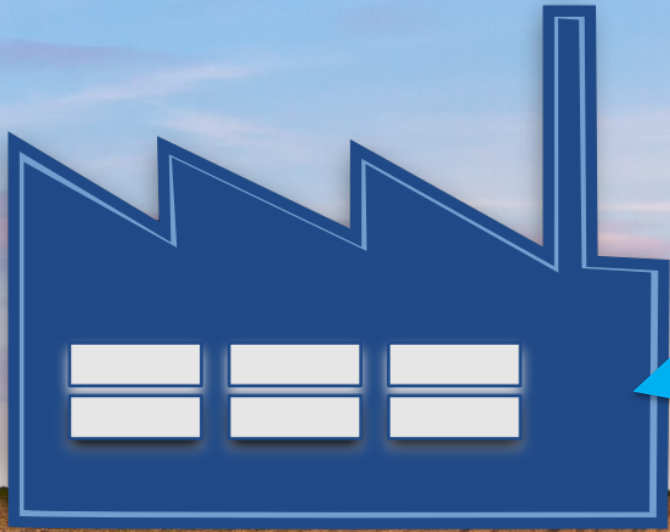
Analysis of where downtimes  
most frequently occur.

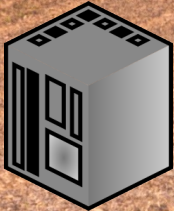
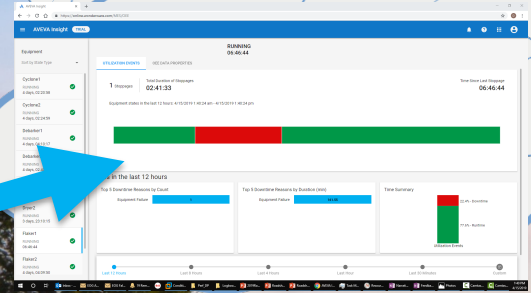
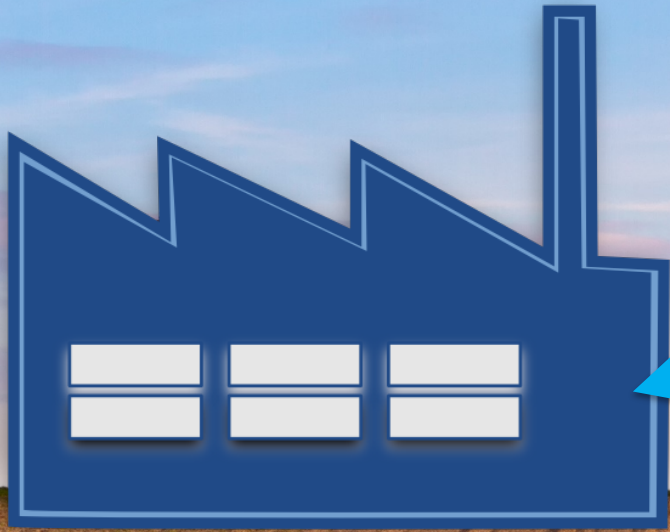


Solution which requires minimal  
maintenance.

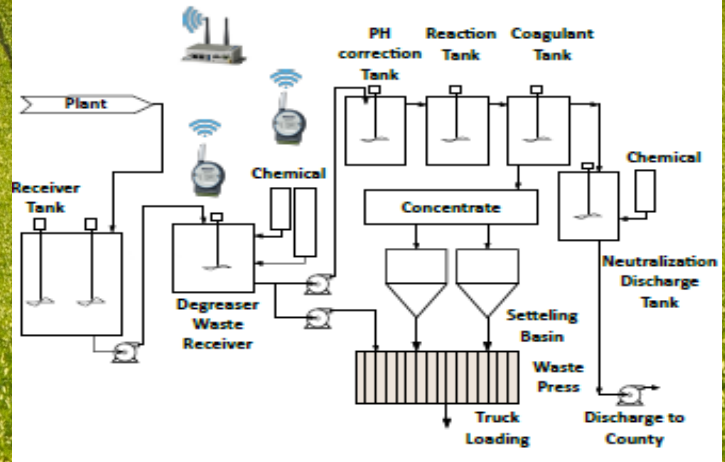








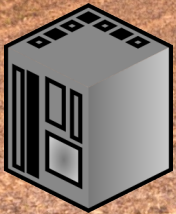
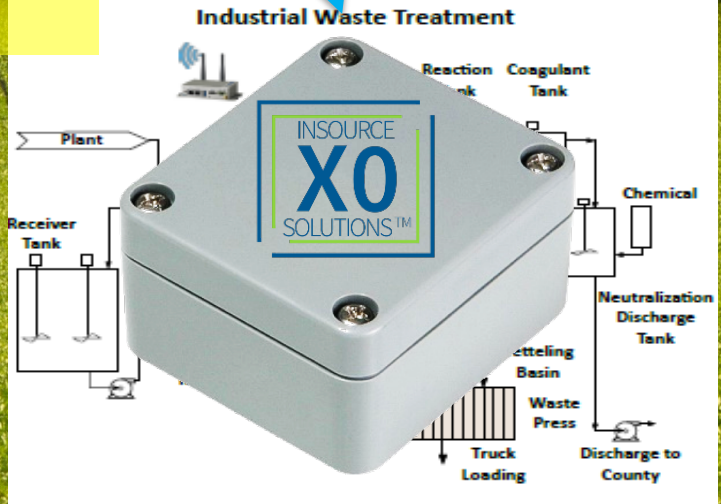
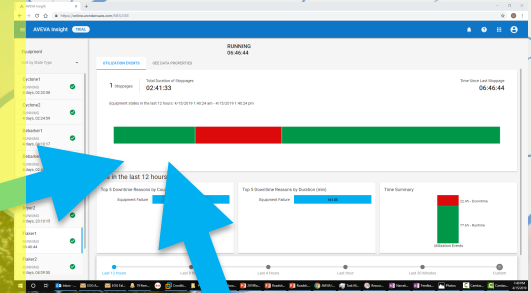
### Industrial Waste Treatment





## InSource X0 Solutions:

- Installed, Configured, and Maintained by InSource
- Powered by AVEVA Insight
- Rapid deployment
- 1/5<sup>th</sup> the cost, and 5x the ROI of traditional solutions



Lets take a look



Industry 4.0

**Driving Operational Results  
Through Digitization**

# WISH LIST

---

1  
2  
3

Easy tracking of downtime



Analysis of where downtimes  
most frequently occur



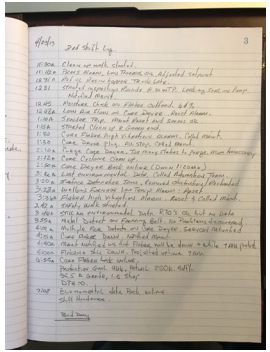
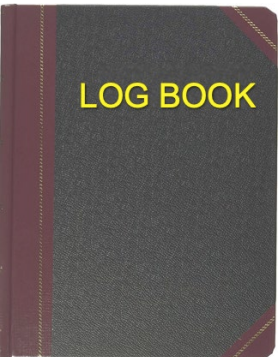
Solution which requires minimal  
maintenance



# Summary – Digitize Equipment Performance off-Premise

## Insight Performance

- 1 Identifies downtime accurately: when/how long/assign cause. Calculates OEE
- 2 Mobile access to analytics. Frictionless operation for each user
- 3 No large capital project – Quick, Cloud based, Subscription model (X0)



### Full Cloud



1) Full Cloud  
IIoT devices are direct-connected to and operated from the Cloud (any modules).

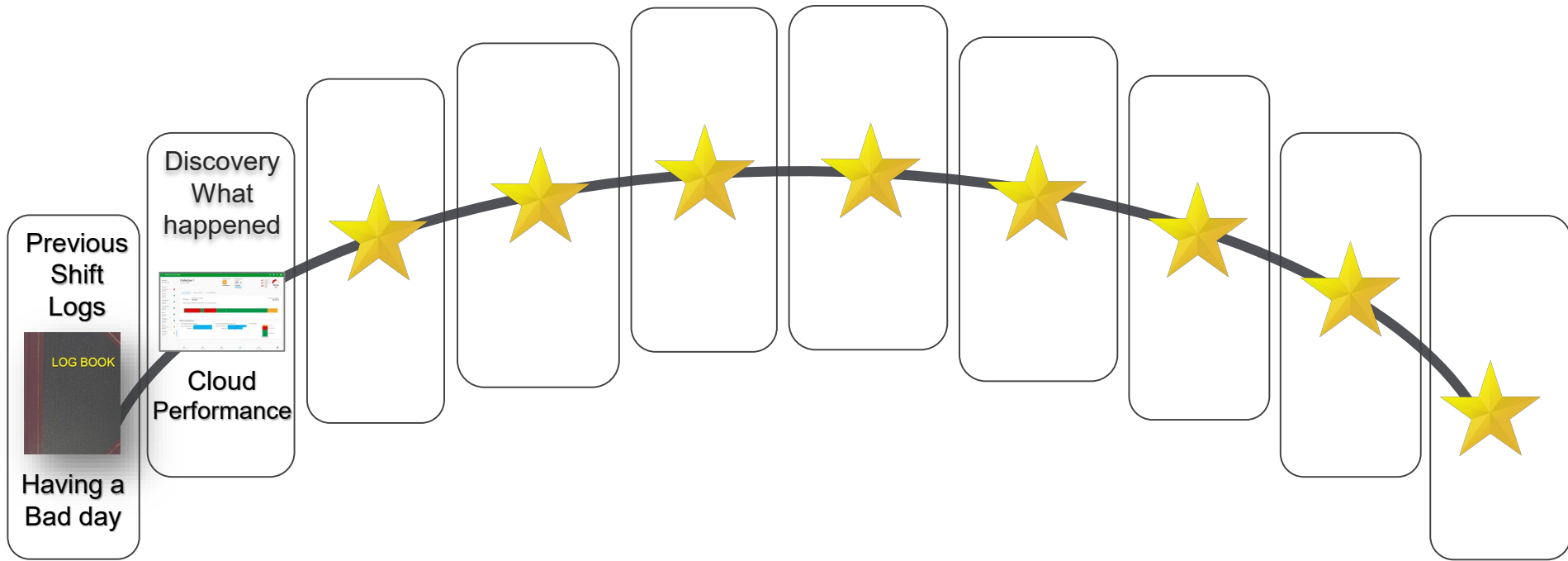


Ownership options: License & Adoption

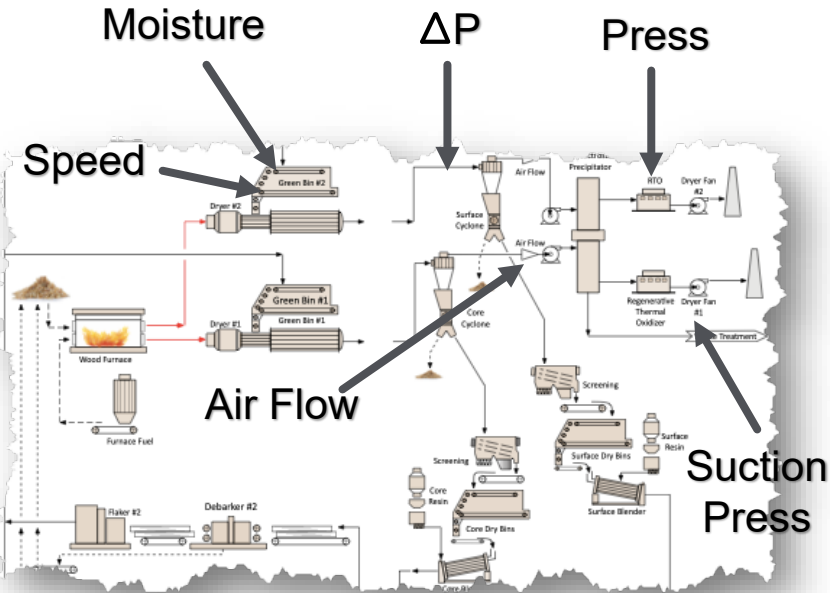


# Our journey today – the cadence of the shift

## Steps toward being more Digitized

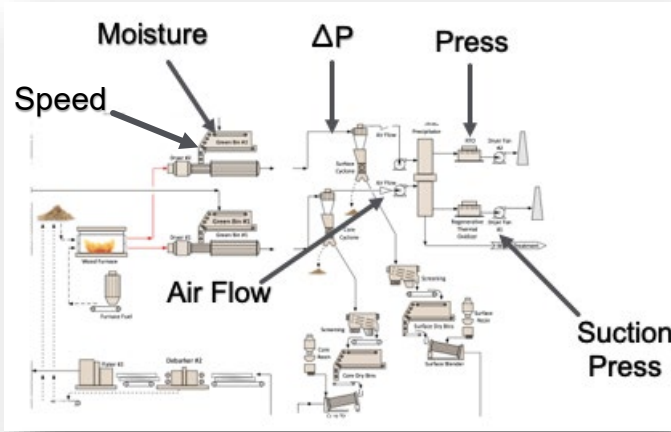


# Determine root cause of the dryer downtime



Why a Dryer plug?

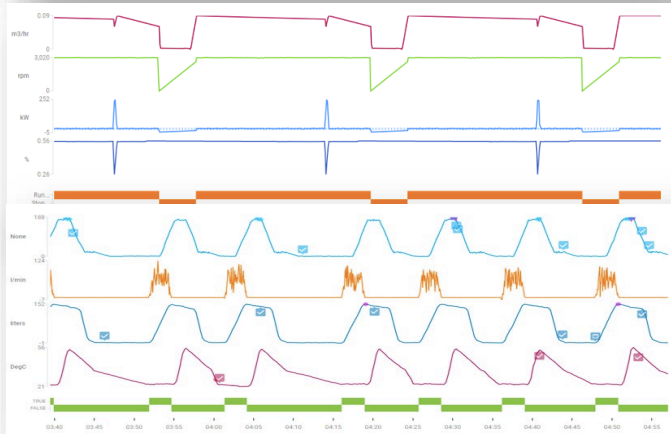
# How we're addressing the issue



1 Tools for fast determination of root cause anywhere, anytime (mobile)

2 Determine if we can predict failure by some set of rules

3 Quick, cloud based subscription licenses... No capital project



1. Are there anomalies?
2. Is there a repeatable pattern?

And yes, mobile required



Lets take a look



Industry 4.0

**Driving Operational Results  
Through Digitization**

Lets take a look



Industry 4.0

**Driving Operational Results  
Through Digitization**

# WISH LIST

1  
2  
3

Make it easy to see our history

# AVEVA INSIGHT

Search for saved content, tags, or keywords.

SUGGESTED CONTENT DASHBOARD

### NEWS

#### Interesting facts about your data

Insight spends the first week or two learning about your data. After that, you'll begin seeing news stories here that highlight unusual and interesting events in your data trends.

#### Content that grabs your attention

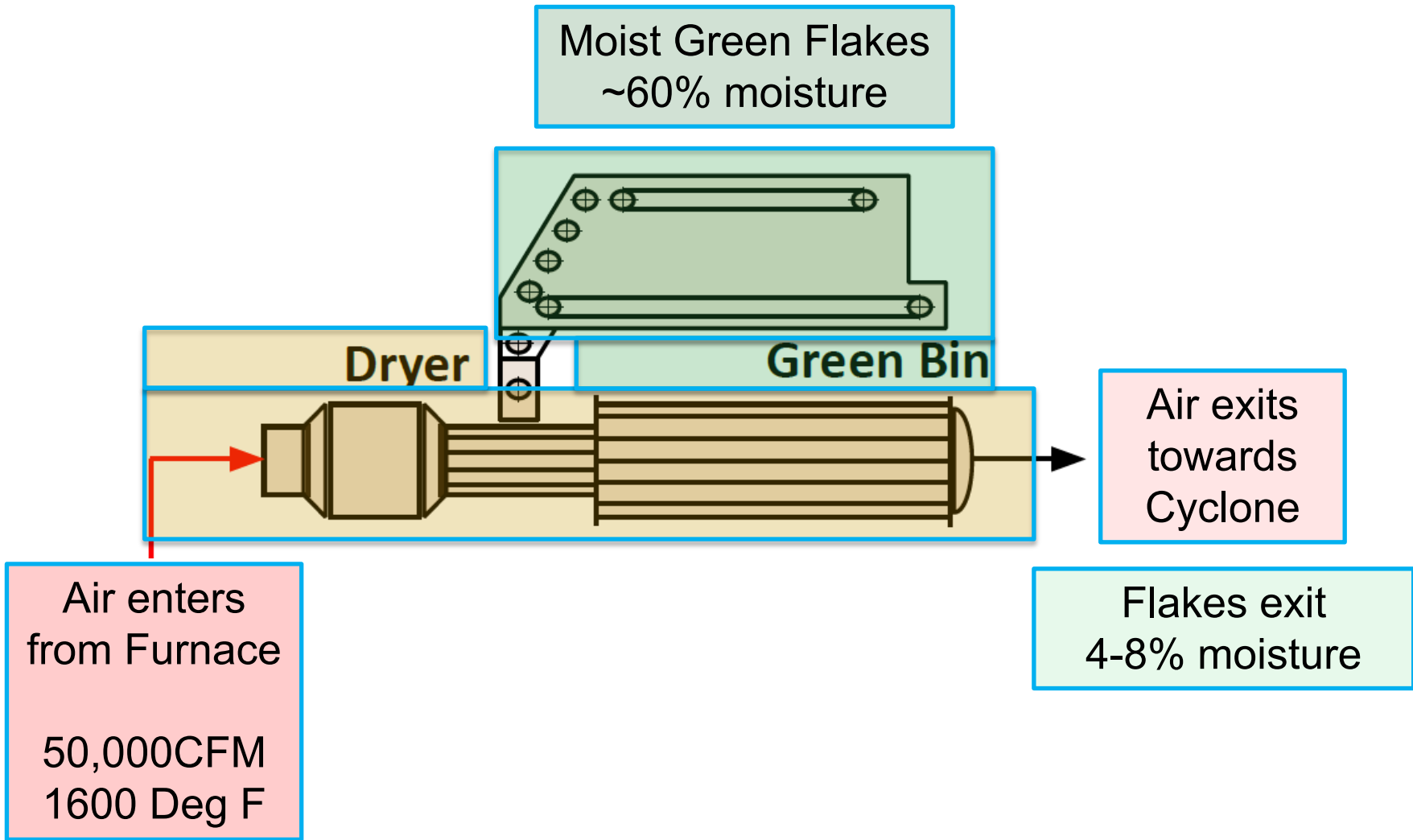
Soon, you'll see relevant and popular content here. But first, you'll need to start creating your own content in AVEVA Insight.

Check out this [short video](#) or [help to learn more](#).

**Key Points:**

- Used for Downtime AND History
- No client software to install





# AVEVA INSIGHT

Search for saved content, tags, or keywords.

SUGGESTED CONTENT

DASHBOARD

NEWS

### Interesting facts about your data

Insight spends the first week or two learning about your data. After that, you'll begin seeing news stories here that highlight unusual and interesting events in your data trends.

### Content that grabs your attention

Soon, you'll see relevant and popular content here. But first, you'll need to start creating your content in AVEVA Insight.

Check out this [short video](#) or [help to learn more](#).

## Key Points:

- Search by partial match on tagname or description

Search Results  
2 matches

2 TAGS

All Tags

Mixed data

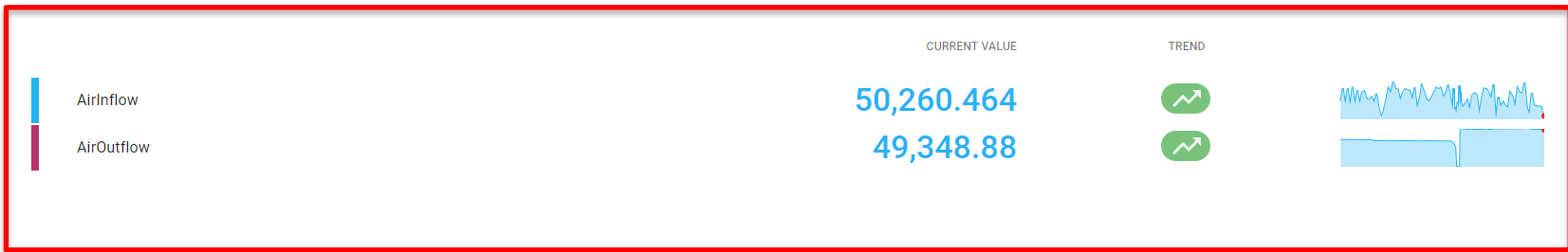
2 TAGS

None

Numeric data

### Numeric data

< 4/18/2019 10:00:00 am - 4/21/2019 12:00:00 am >



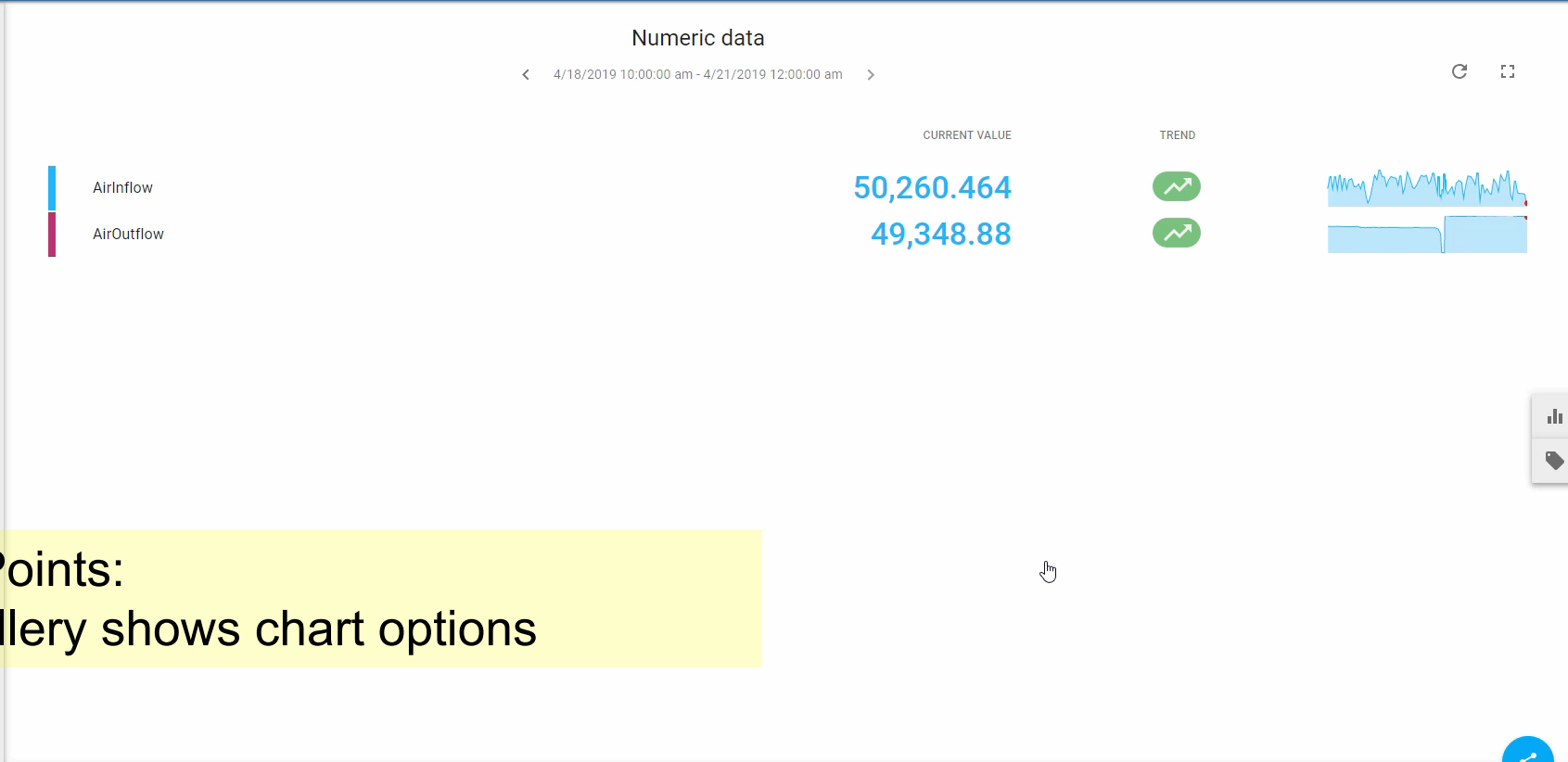
Search Results  
2 matches

2 TAGS  
All Tags

Mixed data

2 TAGS  
None

Numeric data



Key Points:  
- Gallery shows chart options

Search Results  
2 matches

2 TAGS

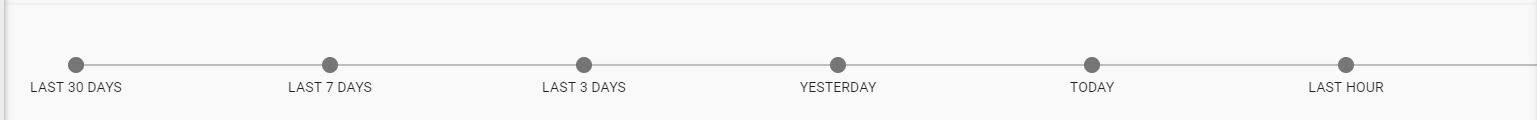
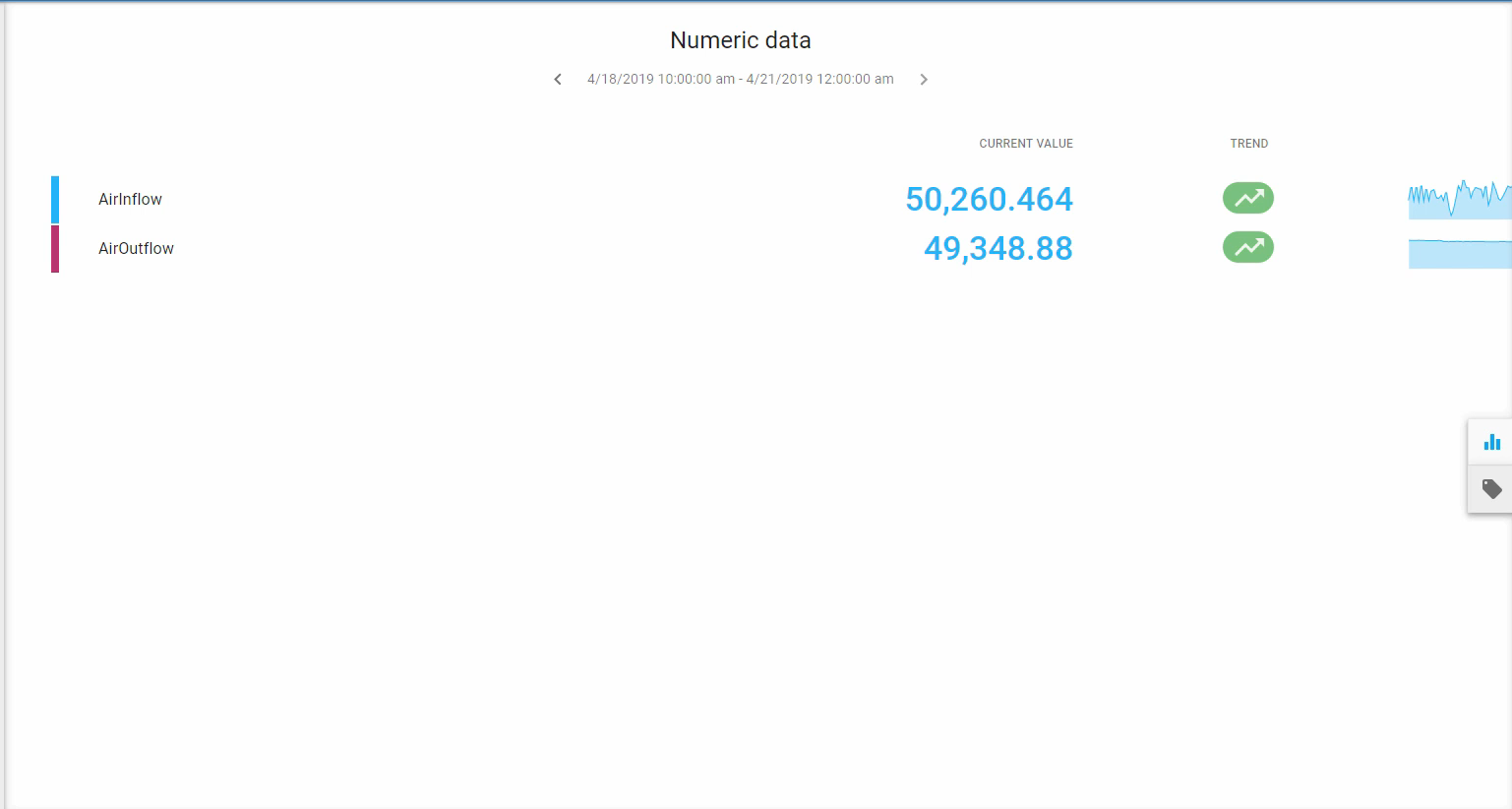
All Tags

Mixed data

2 TAGS

None

Numeric data



#### Gallery

- Map
- Graphic
- Summary Grid
- XY Plot
- Rolling Sum
- Cumulative Line
- Detail Grid
- Diagnostic Grid



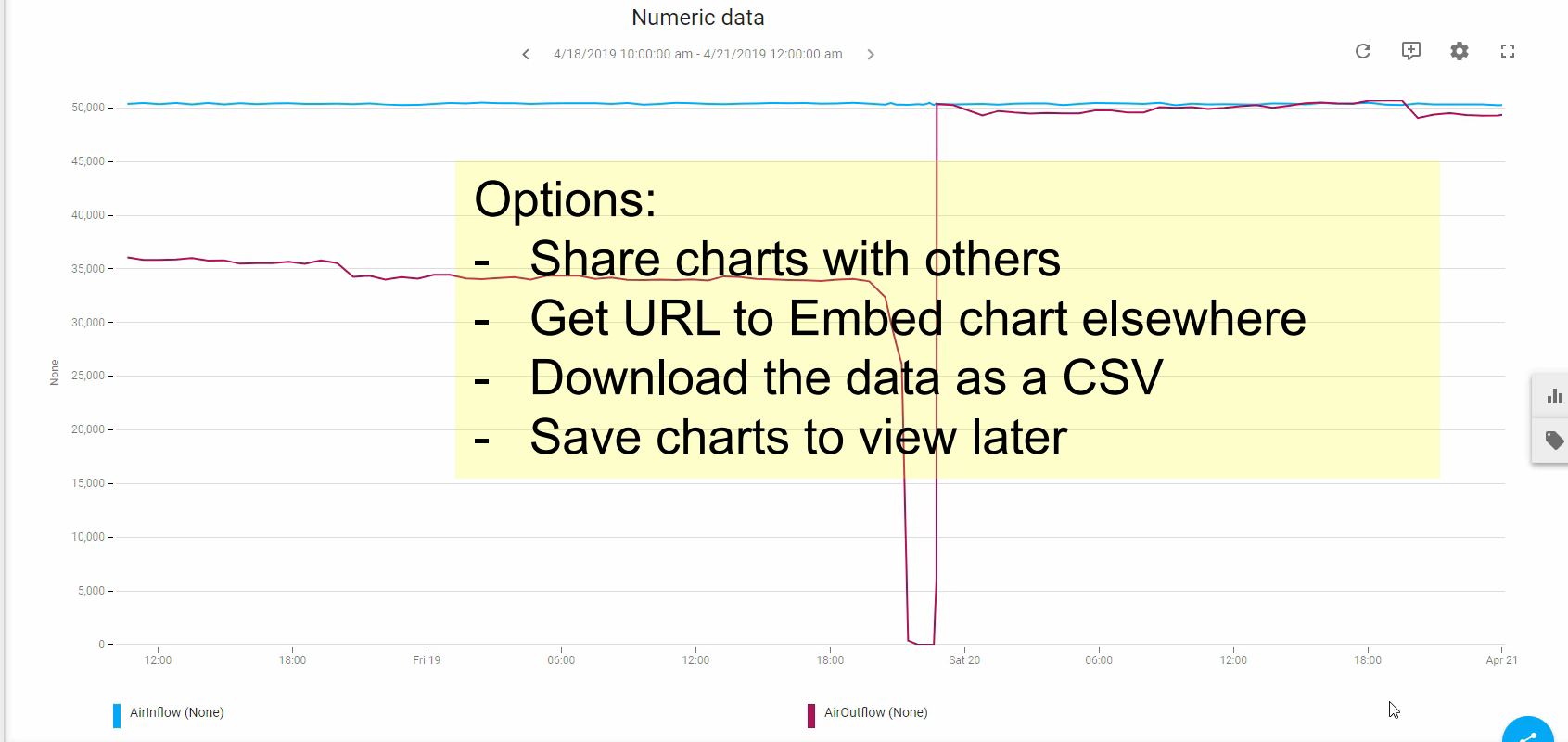
Search Results  
2 matches

2 TAGS  
All Tags

Mixed data

2 TAGS  
None

Numeric data



Search Results  
2 matches

2 TAGS

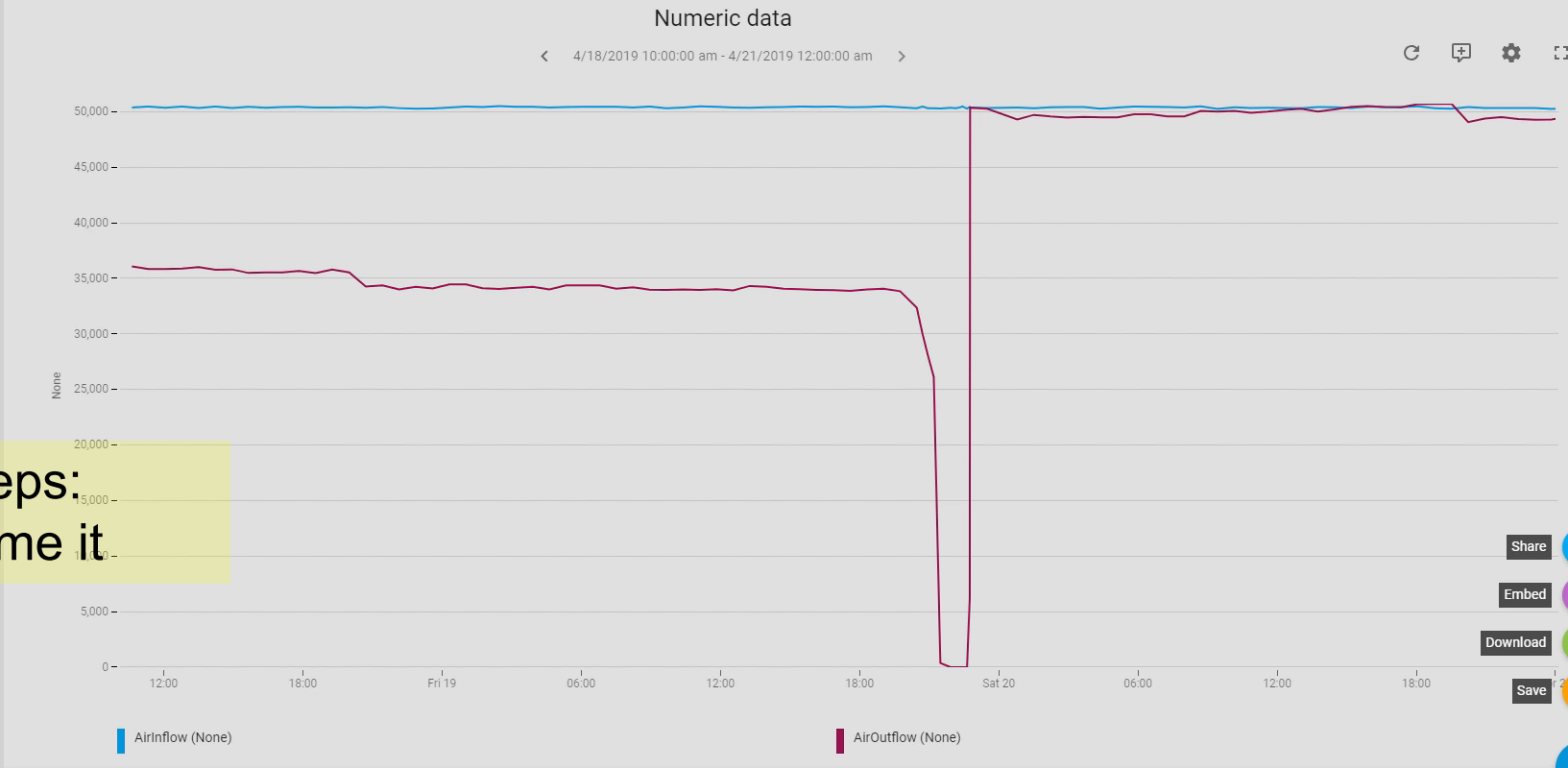
All Tags

Mixed data

2 TAGS

None

Numeric data



Key Steps:  
1) Name it

Share

Embed

Download

Save

Share

Share

Search Results  
2 matches

2 TAGS

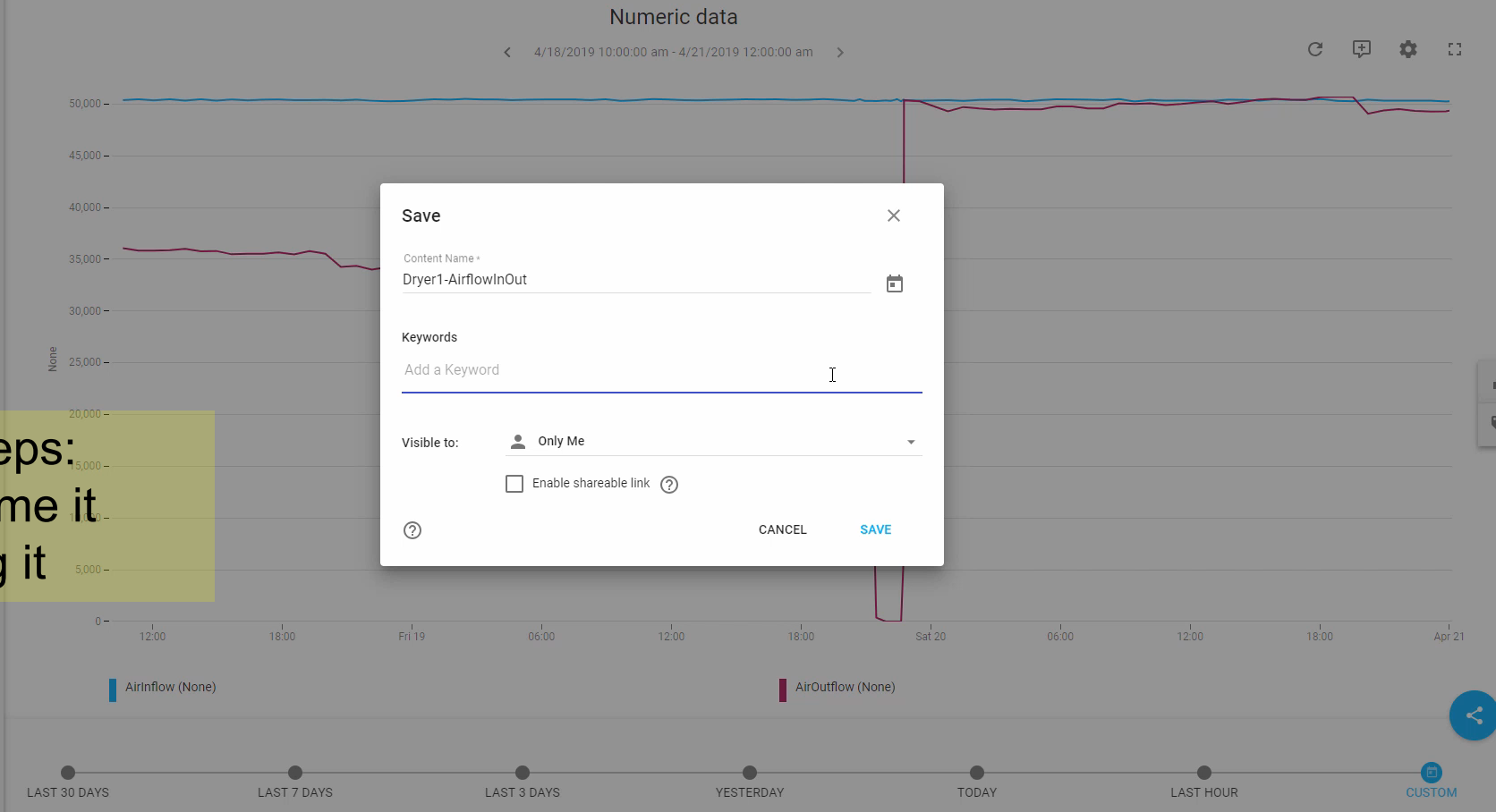
All Tags

Mixed data

2 TAGS

None

Numeric data



### Save

Content Name \*  
Dryer1-AirflowInOut

Keywords  
Add a Keyword

Visible to:  Only Me

Enable shareable link ?

CANCEL SAVE

Key Steps:  
1) Name it  
2) Tag it

Search Results  
2 matches

2 TAGS

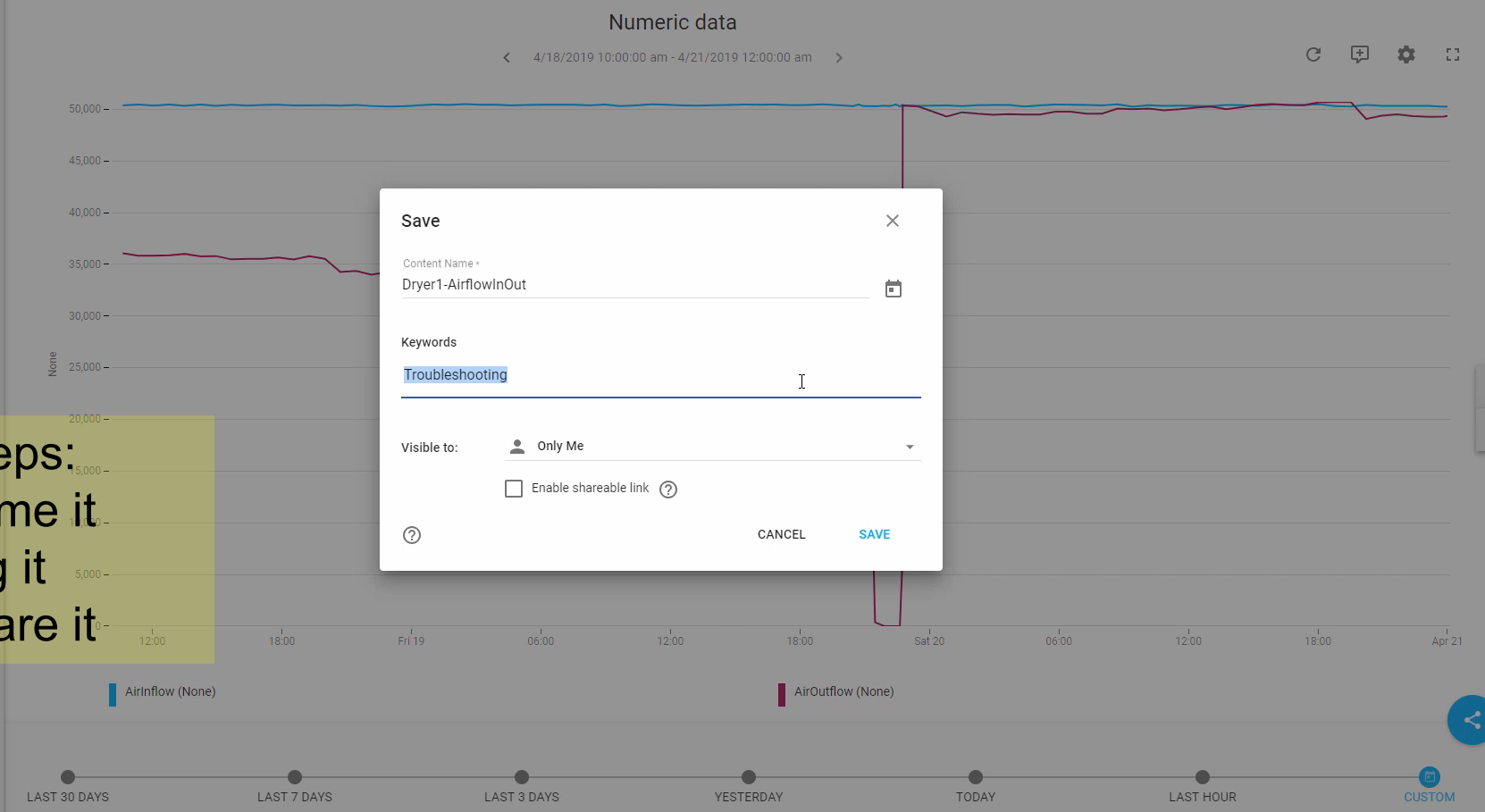
All Tags

Mixed data

2 TAGS

None

Numeric data



#### Save

Content Name \*  
Dryer1-AirflowInOut

Keywords  
Troubleshooting

Visible to:  Only Me

Enable shareable link ?

CANCEL SAVE

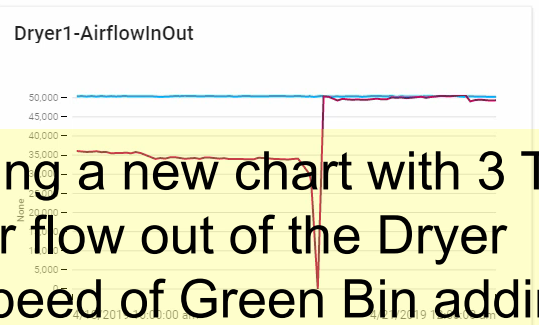
Key Steps:

- 1) Name it
- 2) Tag it
- 3) Share it

# AVEVA INSIGHT

Search for saved content, tags, or keywords.

SUGGESTED CONTENT (1) DASHBOARD (1)



**Making a new chart with 3 Tags:**

- Air flow out of the Dryer
- Speed of Green Bin adding wood to Dryer
- Moisture of the wood being added

## NEWS

### Interesting facts about your data

Insight spends the first week or two learning about your data. After that, you'll begin seeing news stories here that highlight unusual and interesting events in your data trends.



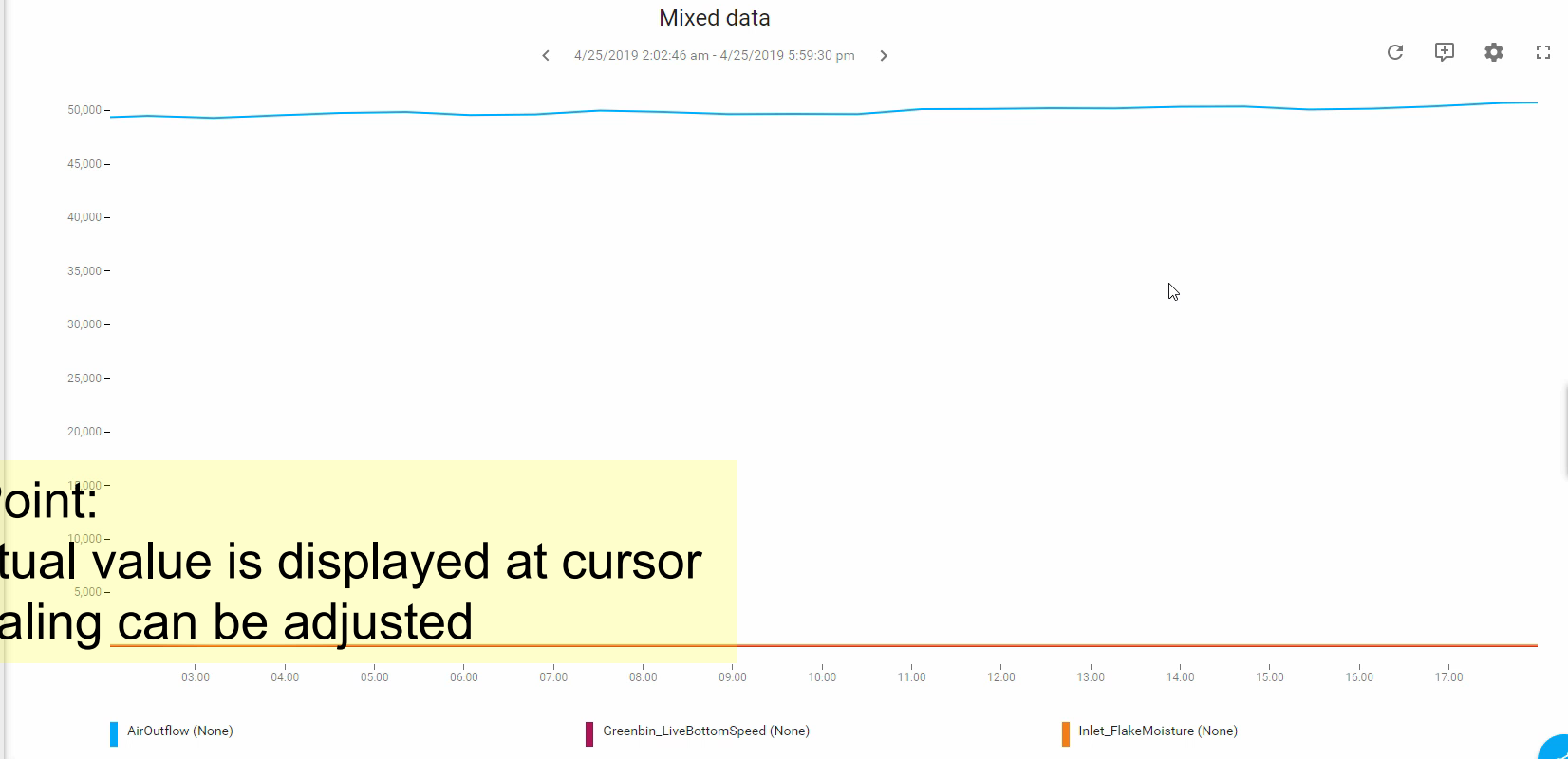
Search Results  
3 matches

3 TAGS  
All Tags

Mixed data

3 TAGS  
None

Numeric data



**Key Point:**

- Actual value is displayed at cursor
- Scaling can be adjusted

Search Results  
3 matches

3 TAGS

All Tags

Mixed data

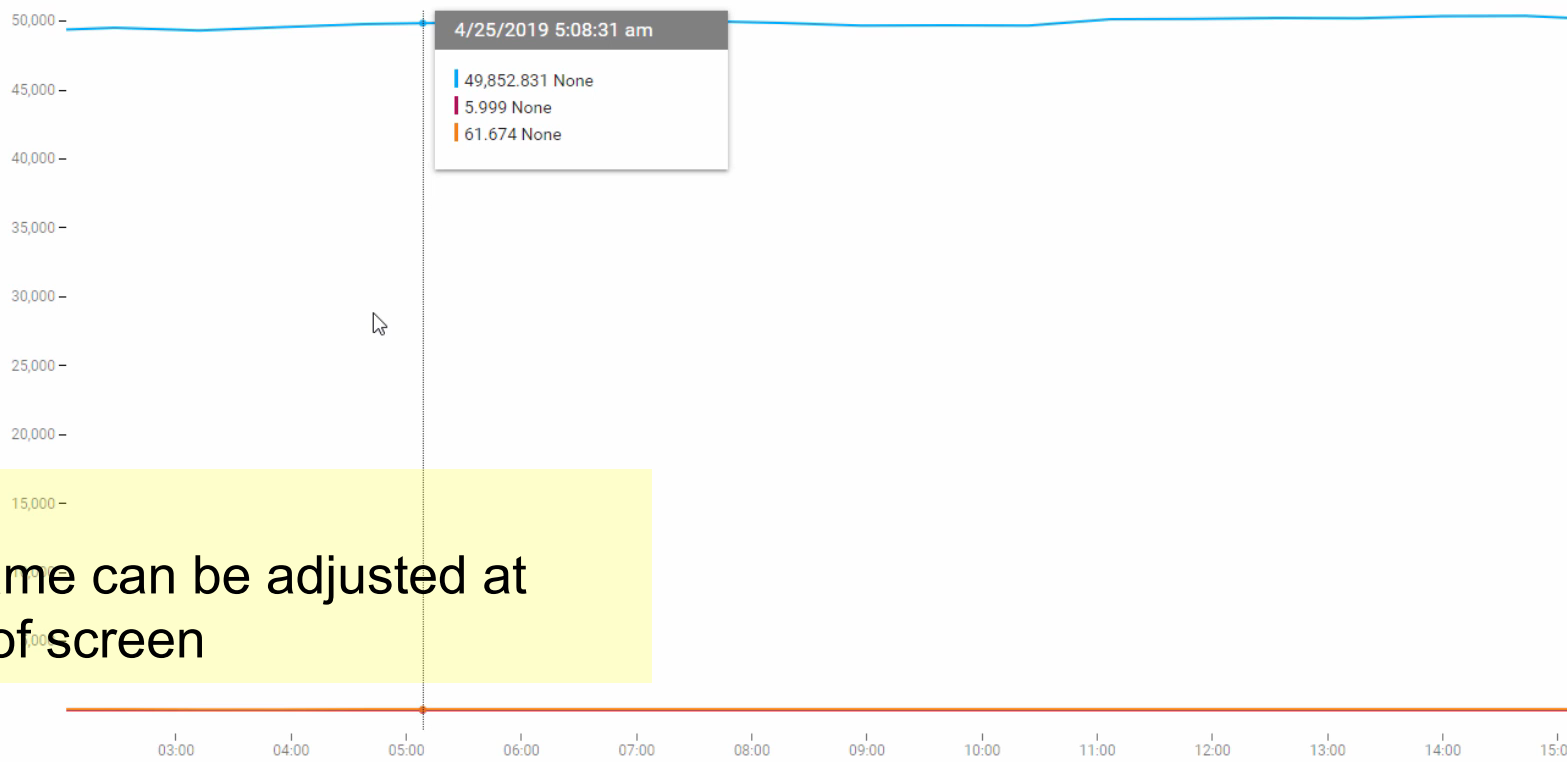
3 TAGS

None

Numeric data

### Mixed data

< 4/25/2019 2:02:46 am - 4/25/2019 5:59:30 pm >



Key Point:

- Time frame can be adjusted at bottom of screen

AirOutflow (None) Greenbin\_LiveBottomSpeed (None) Inlet\_FlakeMoisture (None)



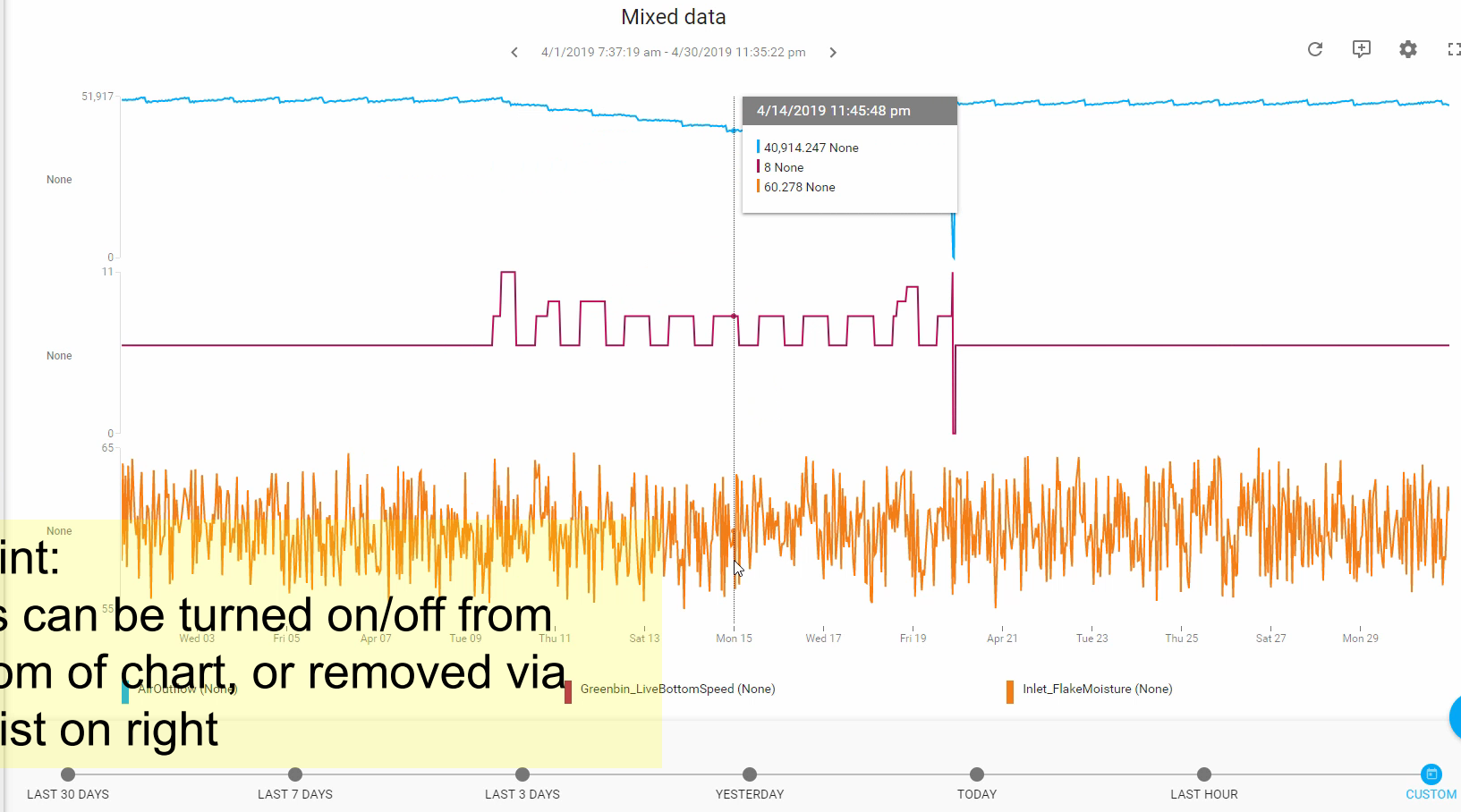
Search Results  
3 matches

3 TAGS  
All Tags

Mixed data

3 TAGS  
None

Numeric data



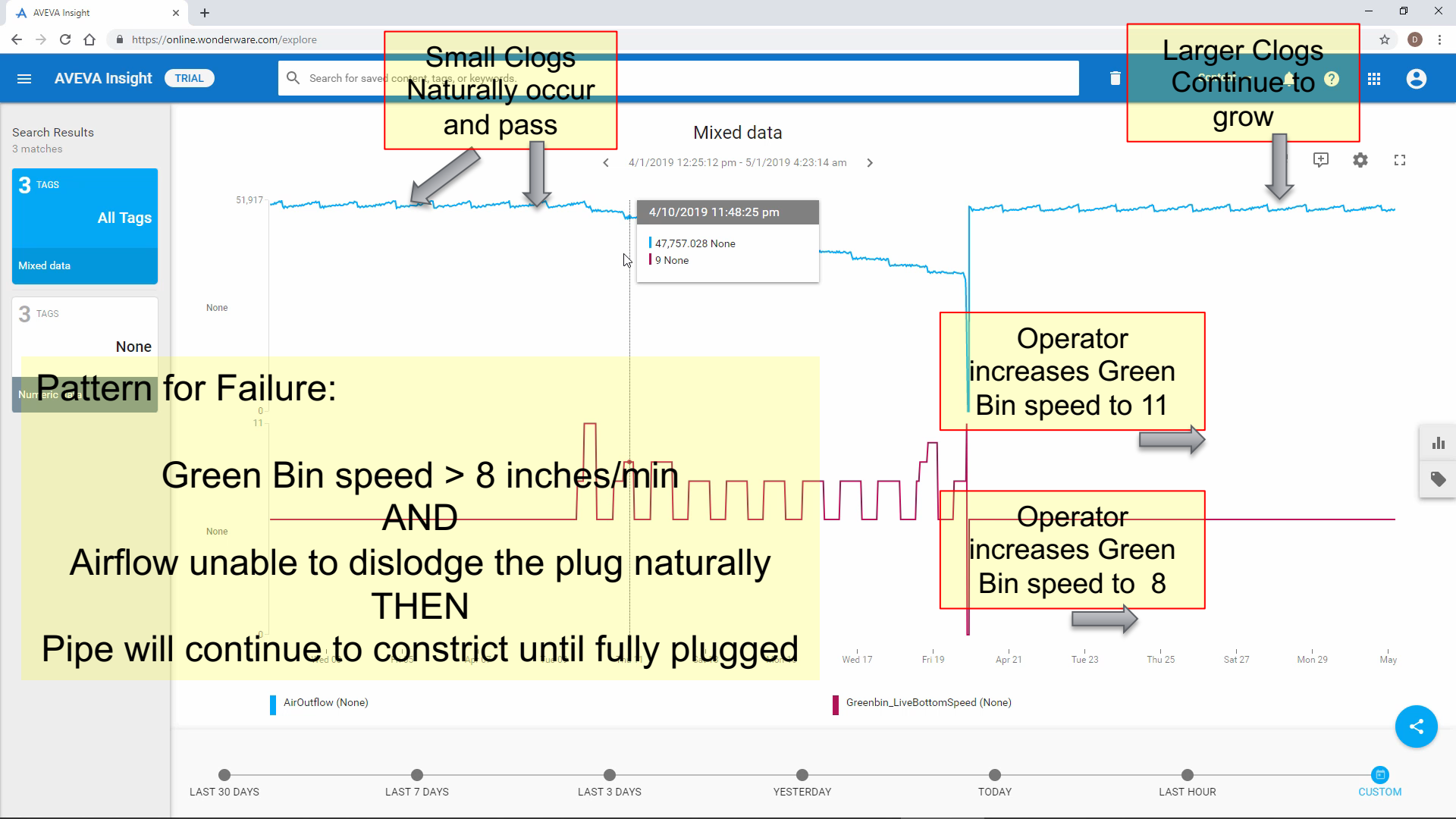
**Key Point:**

- Tags can be turned on/off from bottom of chart, or removed via tag list on right

[Bar Chart Icon]

[Tag Icon]

[Share Icon]



Small Clogs  
Naturally occur  
and pass

Larger Clogs  
Continue to  
grow

Pattern for Failure:  
Green Bin speed > 8 inches/min  
AND  
Airflow unable to dislodge the plug naturally  
THEN  
Pipe will continue to constrict until fully plugged

Operator  
increases Green  
Bin speed to 11

Operator  
increases Green  
Bin speed to 8

4/10/2019 11:48:25 pm  
47,757.028 None  
9 None

Search Results  
3 matches

3 TAGS  
All Tags

Mixed data

3 TAGS  
None

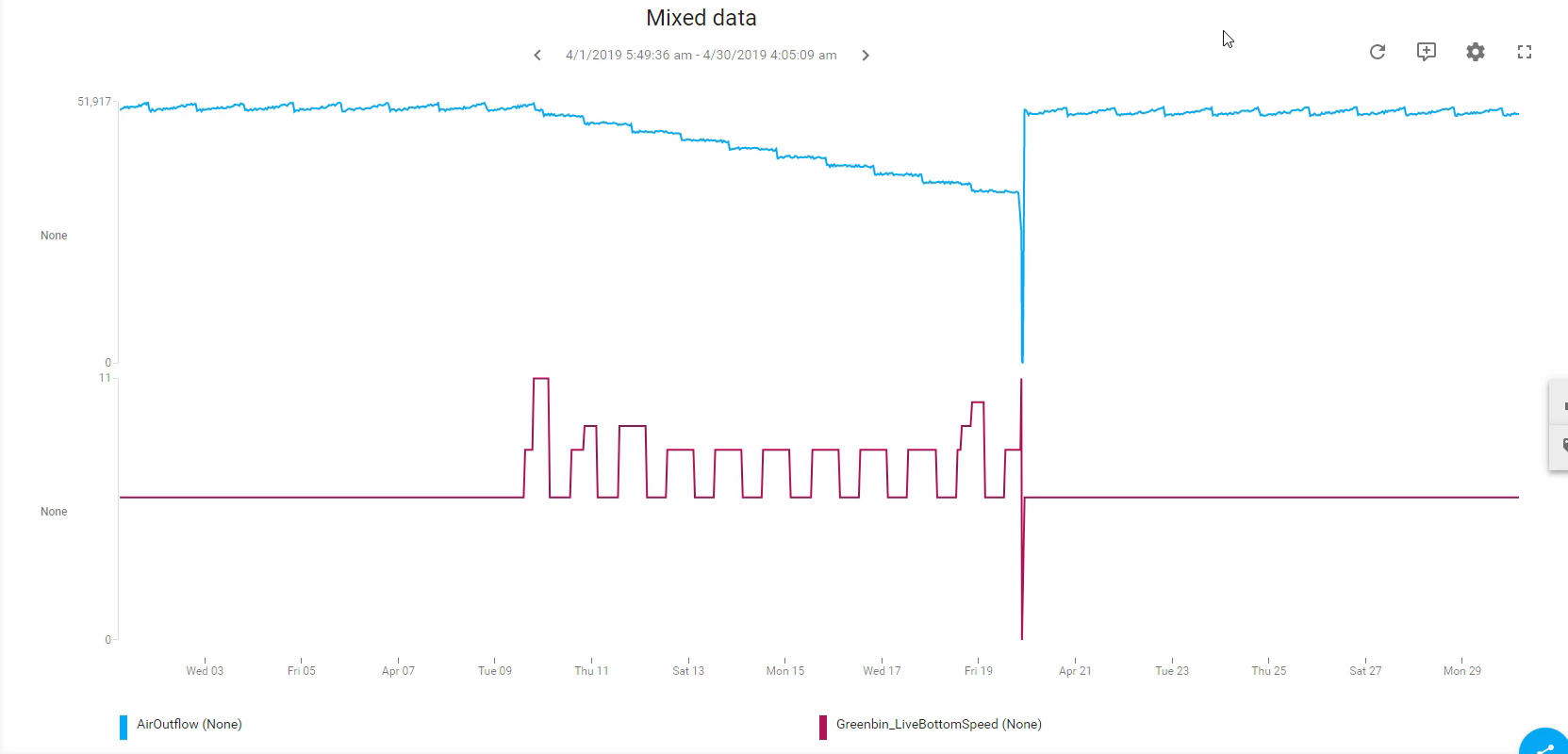
Search Results  
4 matches

4 TAGS  
All Tags

Mixed data

4 TAGS  
None

Numeric data





Lets take a look



Industry 4.0

**Driving Operational Results  
Through Digitization**

# WISH LIST

1  
2  
3

Make it easy to see our history

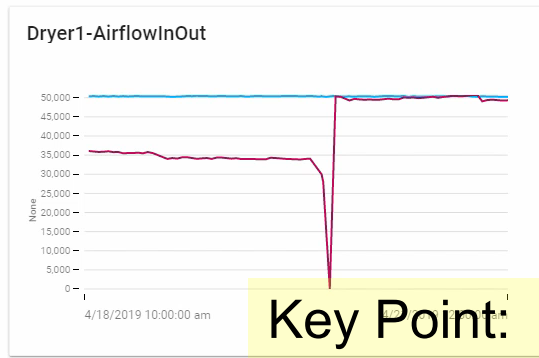
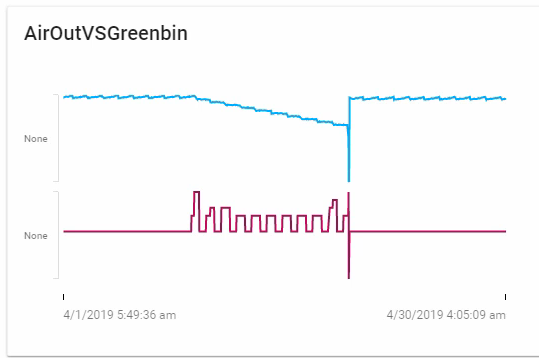


**Build Dashboards**

# AVEVA INSIGHT

🔍 Search for saved content, tags, or keywords.

SUGGESTED CONTENT (2) | DASHBOARD



### NEWS

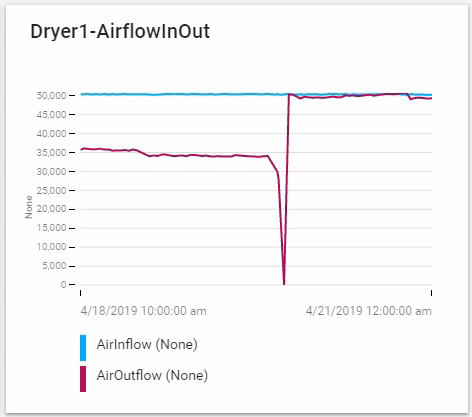
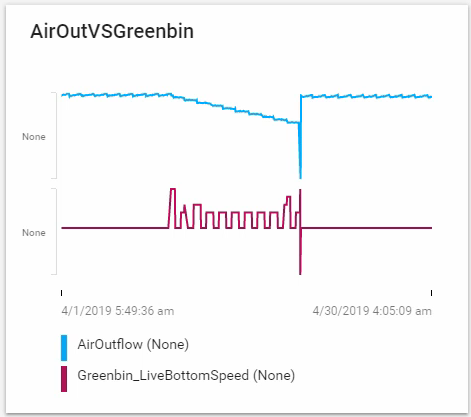
**Interesting facts about your data**

Insight spends the first week or two learning about your data. After that, you'll begin seeing news stories here that highlight unusual and interesting events in your data trends.

**Key Point:**

- Able to aggregate charts by common keyword

# Troubleshooting Dashboard



**Key Point:**  
- Dashboards can be customized.



Lets take a look



Industry 4.0

**Driving Operational Results  
Through Digitization**

# WISH LIST

1  
2  
3

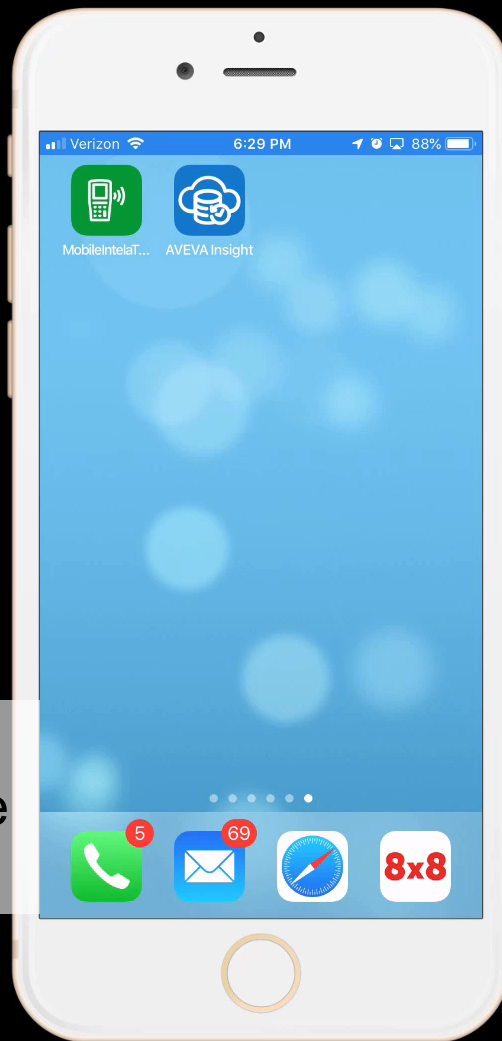
Make it easy to see our history



Build Dashboards

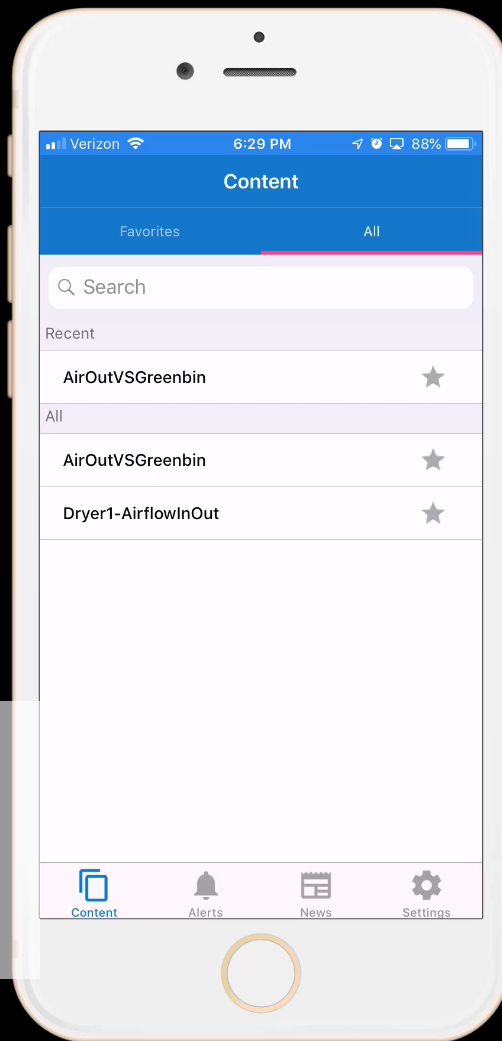


**Mobile Access**



## Key Point:

- Charts built online are available in app



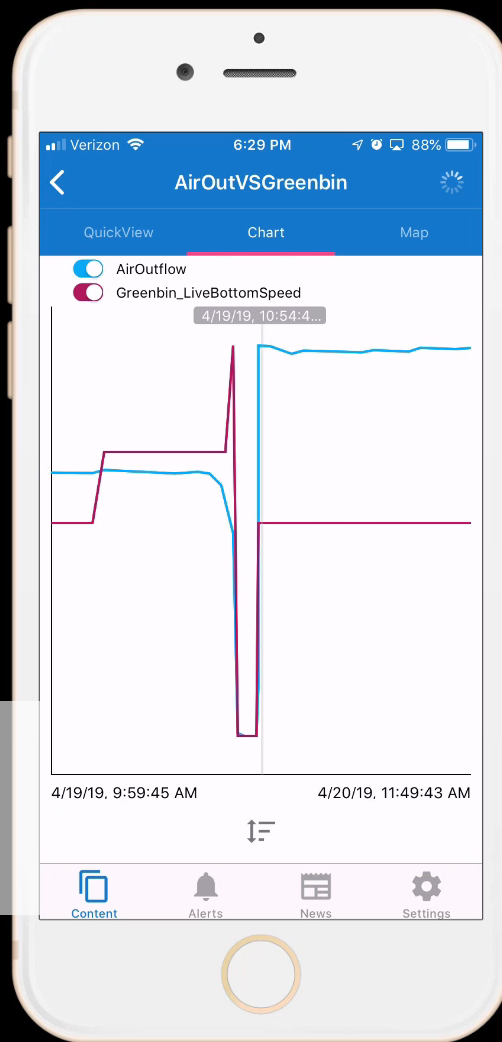
## Key Point:

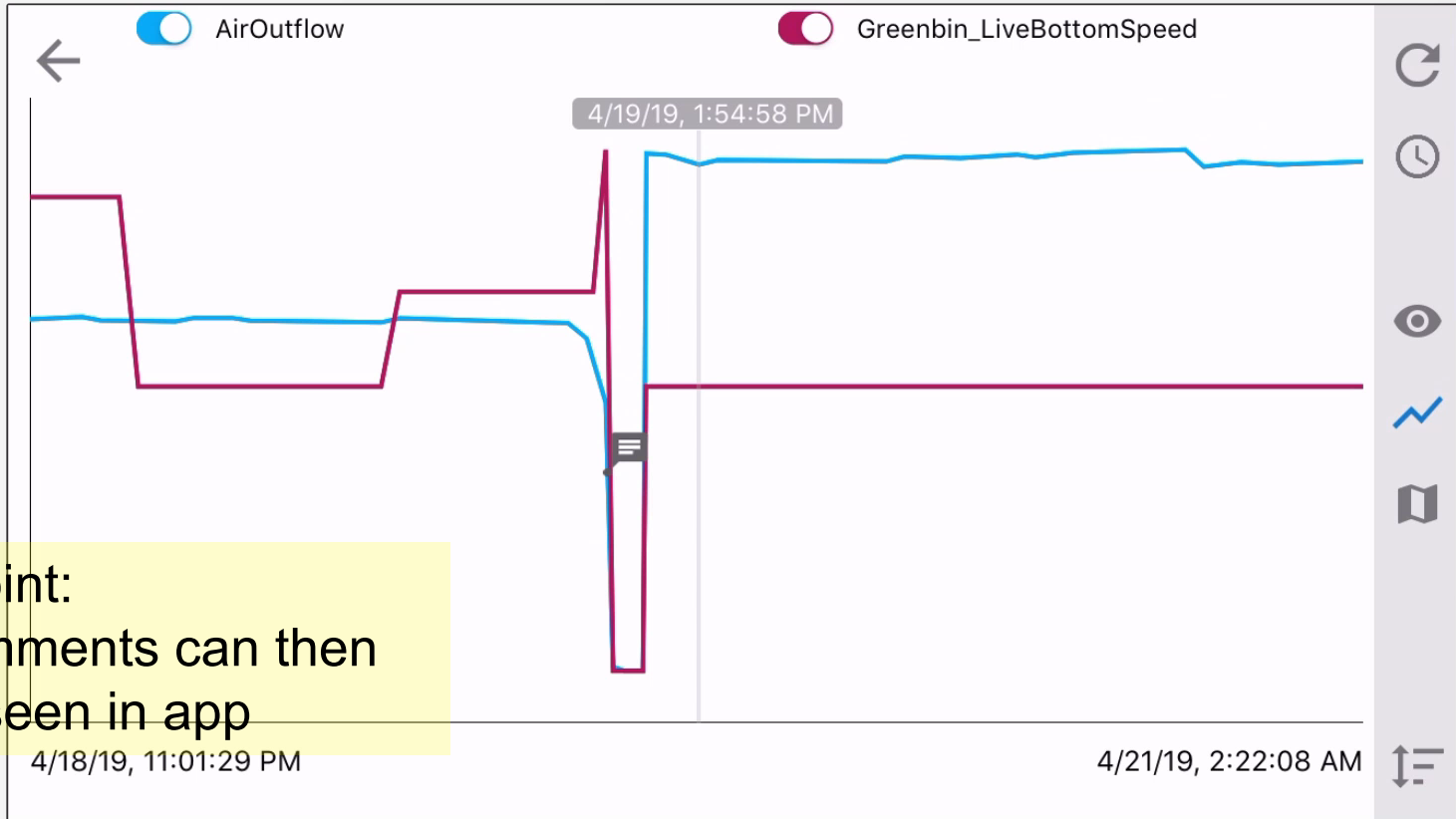
- Allows for familiar Pinch and Zoom experience



## Key Point:

- Comments can be added to the data





**Key Point:**

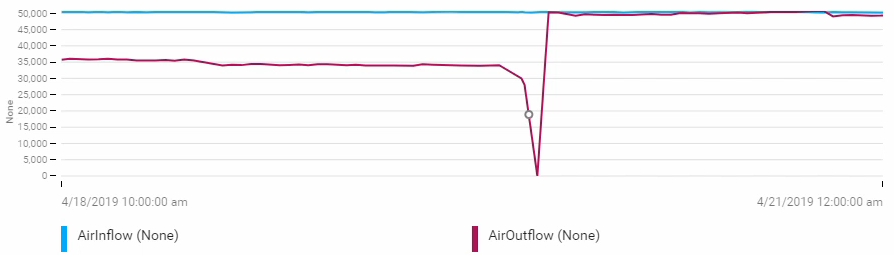
- Comments can then be seen in app

4/18/19, 11:01:29 PM

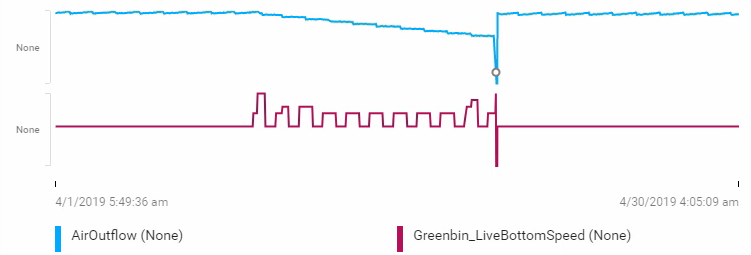
4/21/19, 2:22:08 AM

# Troubleshooting Dashboard

### Dryer1-AirflowInOut



### AirOutVSGreenbin



## Key Point:

- Comments can then be seen in app and online



Lets take a look



Industry 4.0

**Driving Operational Results  
Through Digitization**

# WISH LIST

---

1  
2  
3

Make it easy to see our history



Build Dashboards



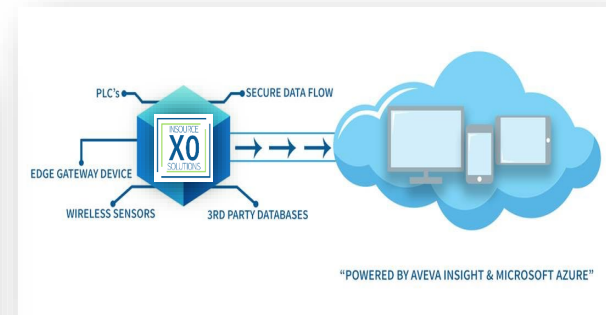
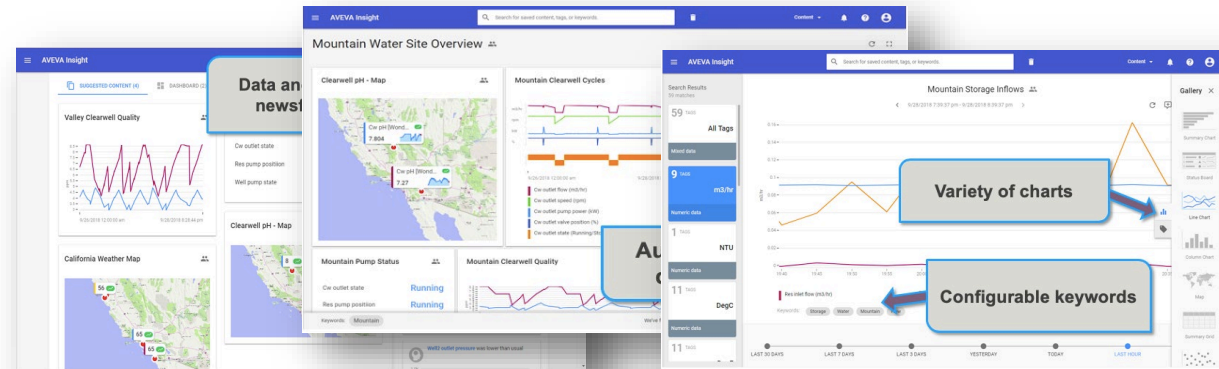
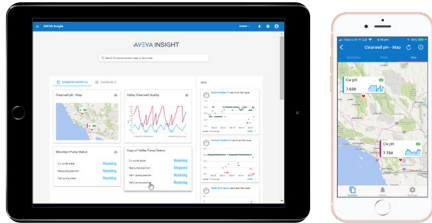
Mobile Access



# Summary – Digitize Process history off Premise

## Insight History

- 1 Helps identifying root cause through cloud-based process history & machine learning
- 2 Cloud-based means Mobile access. Low initial investment, quick install, no infrastructure
- 3 Dashboards & views are User customizable without programming (less friction)



Ownership options: License & Adoption