

NOVEMBER 2022

Unlock Your Plant's Data and Enable A Connected Workforce

Elliott Middleton – Damien Rouge

AVEVA

World-class operations



Challenge

- Information on Operations isn't very accessible or easy to leverage beyond the control room
- Security needs of the Control Network severely complicate expanding access



Solution

- AVEVA Insight is the 'first source' of operational information for everyone except front line operators



Benefits

- Better decision making informed by readily accessible operational data
- Enriched by analytics solutions

On Premise Components

Hybrid SaaS Industrial Operations

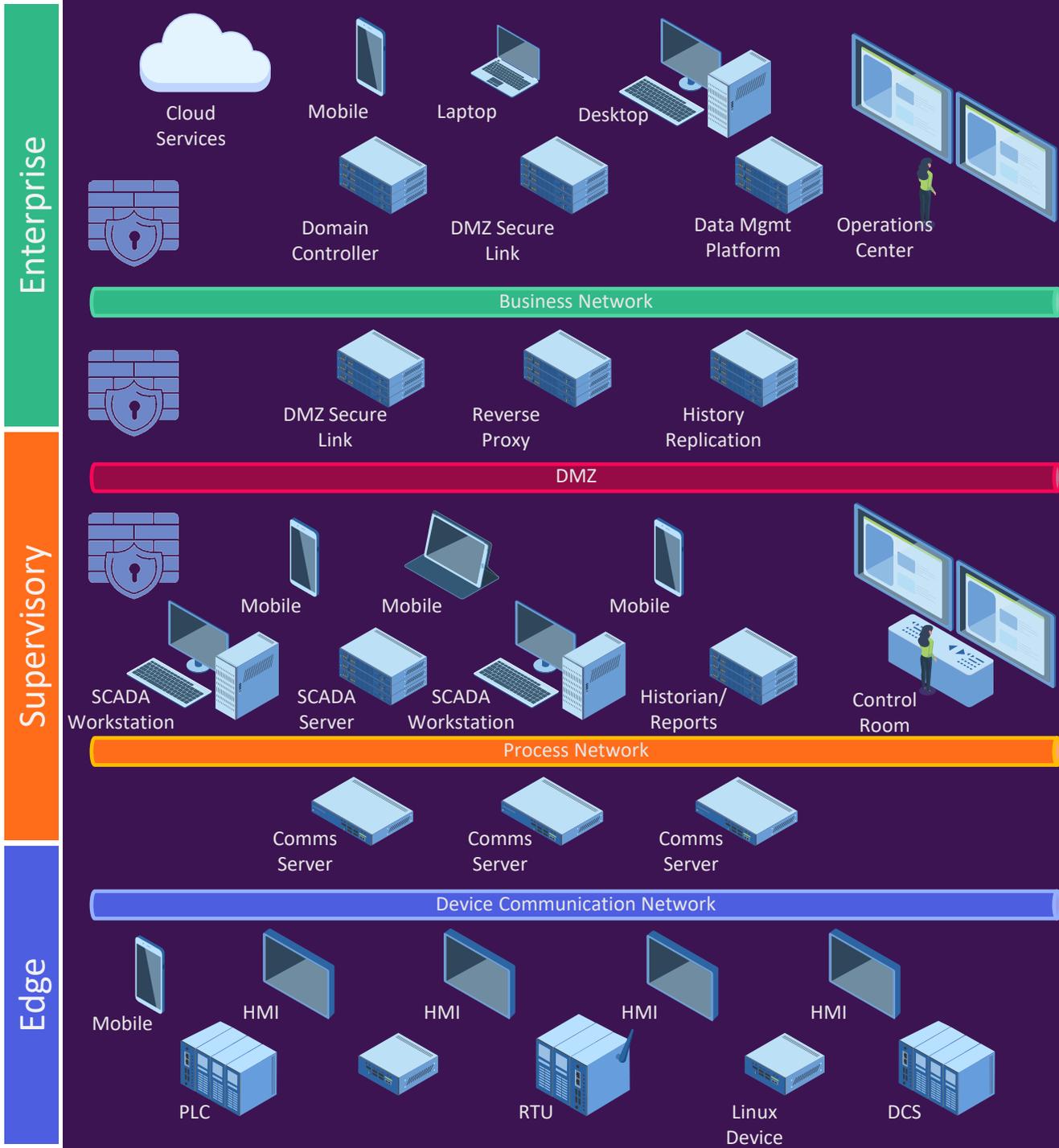
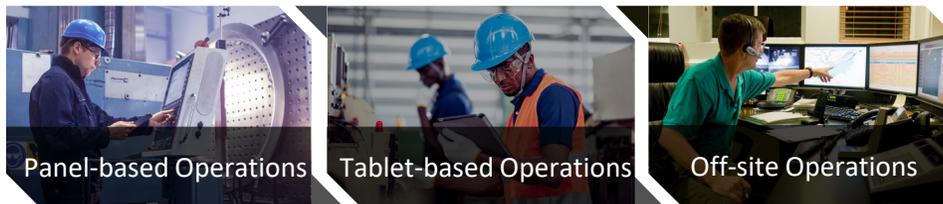
- Enterprise



- Supervisory



- Edge



On Premise Components

Hybrid SaaS Industrial Operations

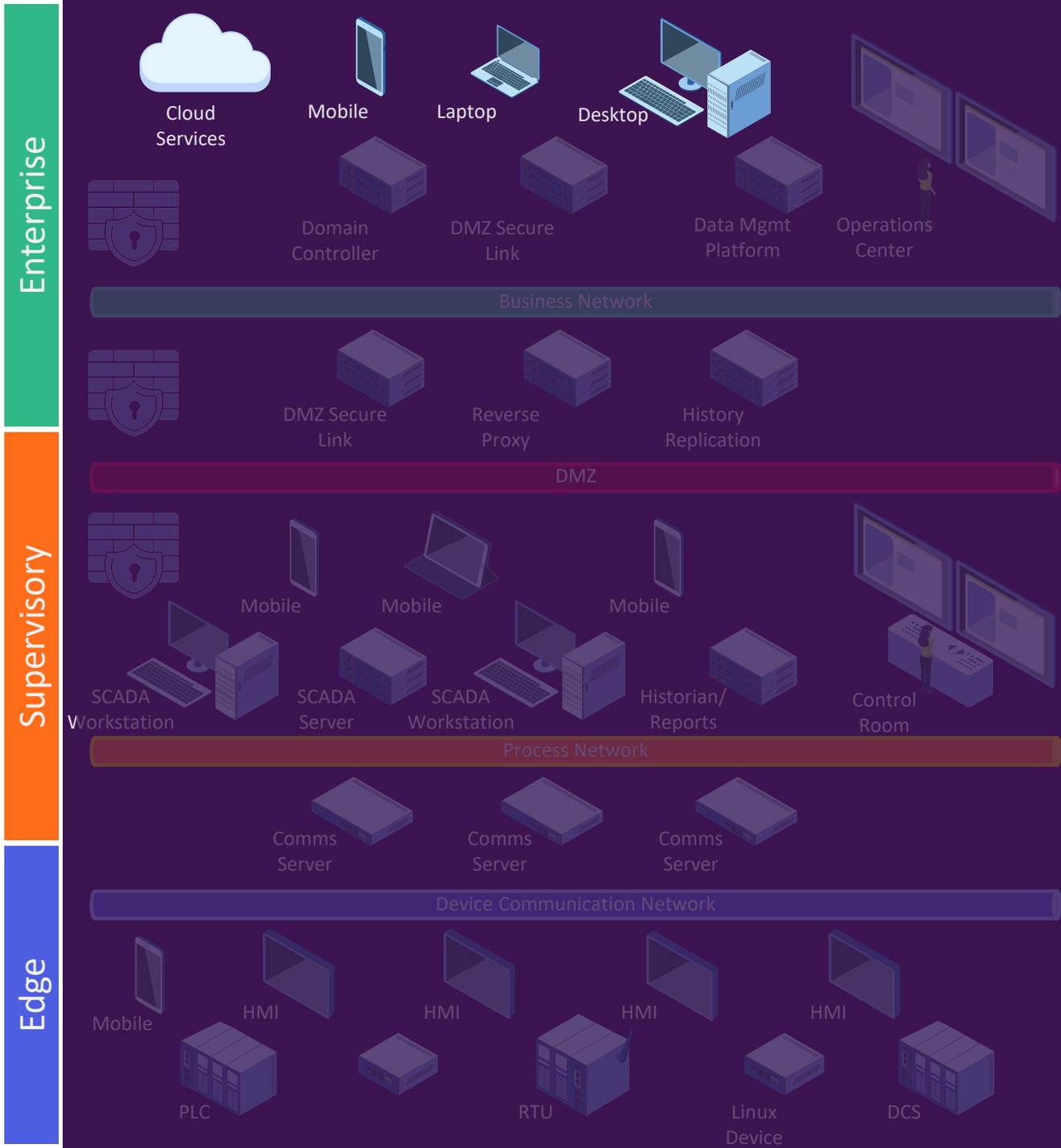
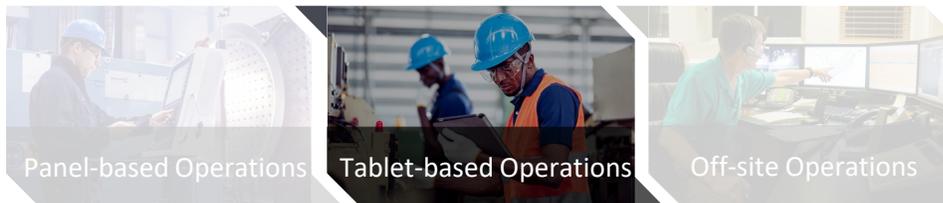
- Enterprise



- Supervisory

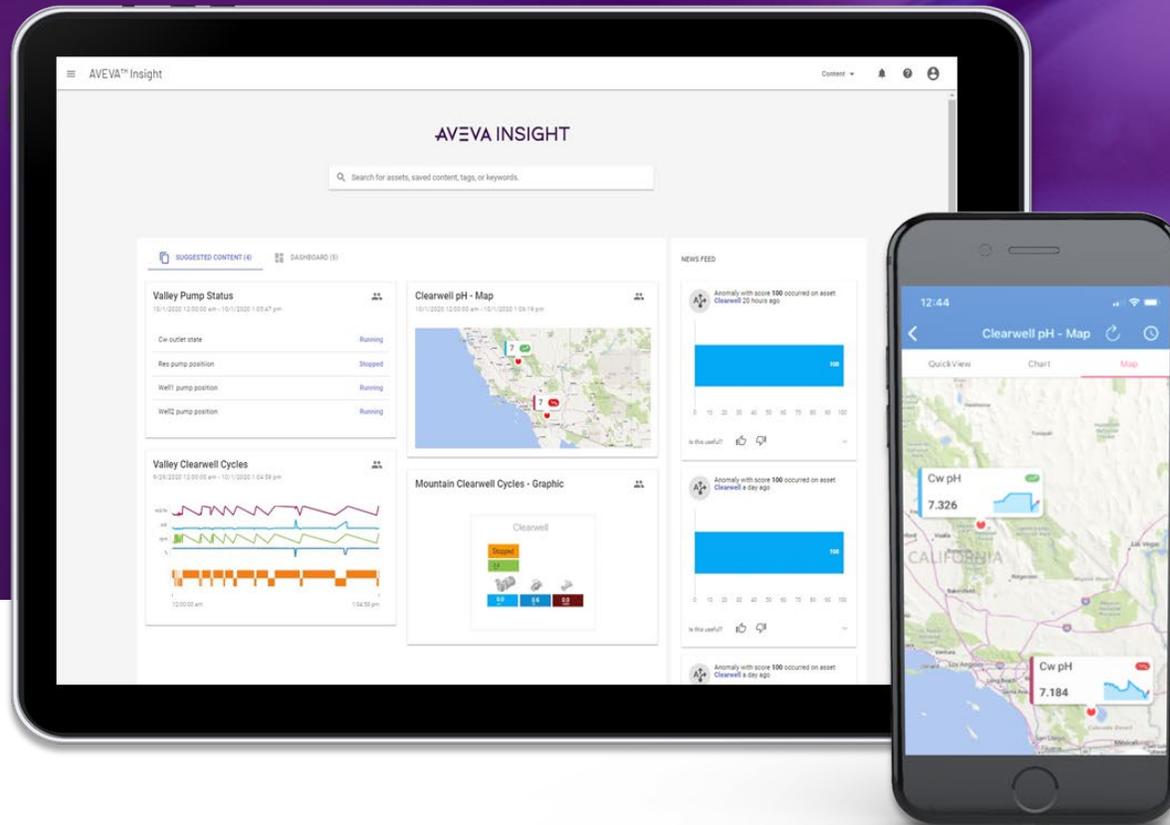


- Edge



AVEVA™ Insight

Make better and faster decisions with complete visibility of your operations in the cloud.



- Unlock critical data
- Increase collaboration
- Improve asset reliability
- Optimize operational performance

AVEVA Insight Highlights



New Experience



Year In Review



Expressions



Near-Term Enhancements



AVEVA Insight & AVEVA™ Data Hub



Analytics



AVEVA Insight Highlights

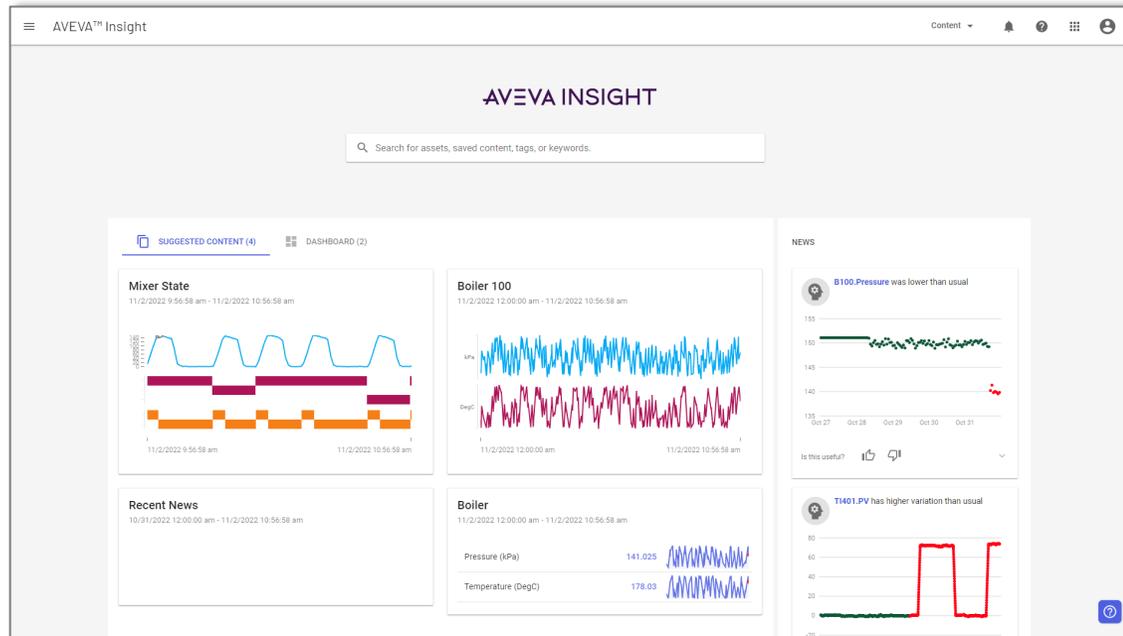


New Experience

Experiences

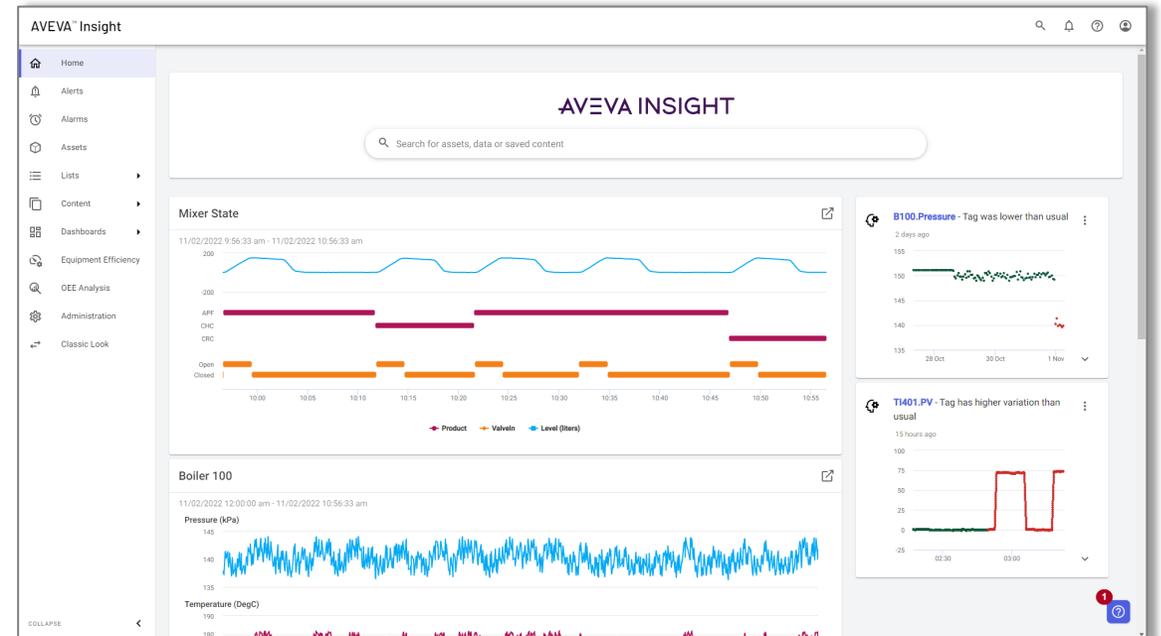
- Most features in both
- Some transitioning to only “New”

Classic



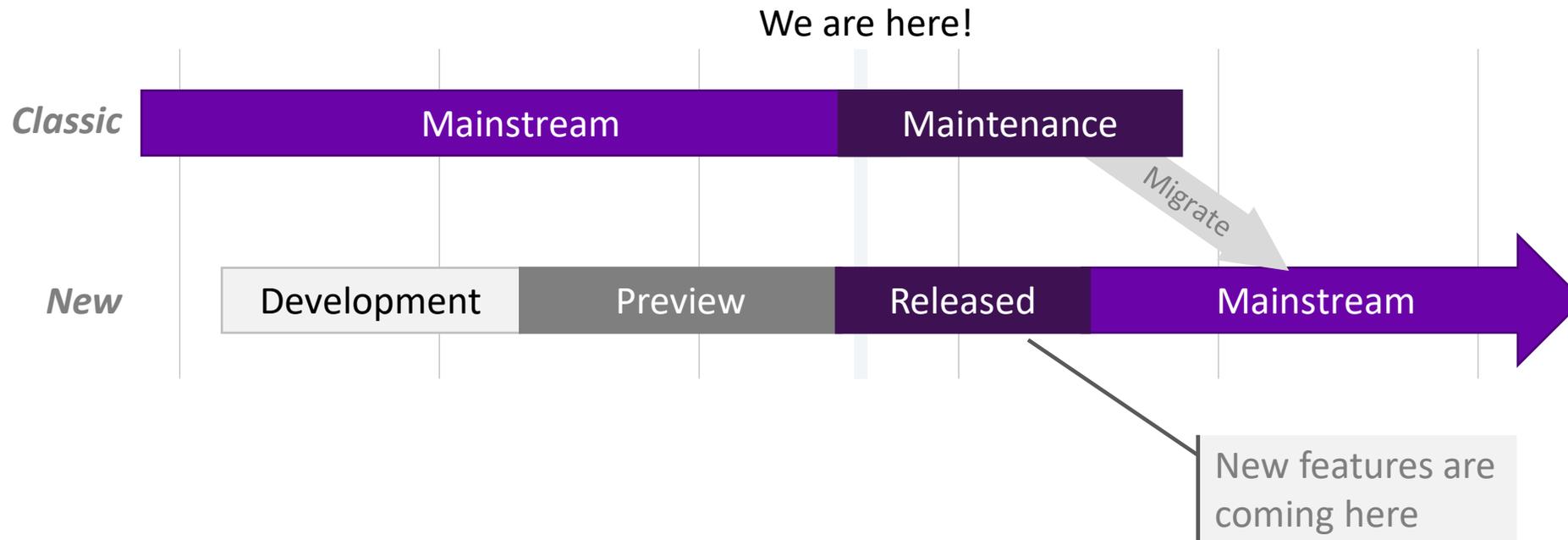
- Mature, stable
- Older technology

New



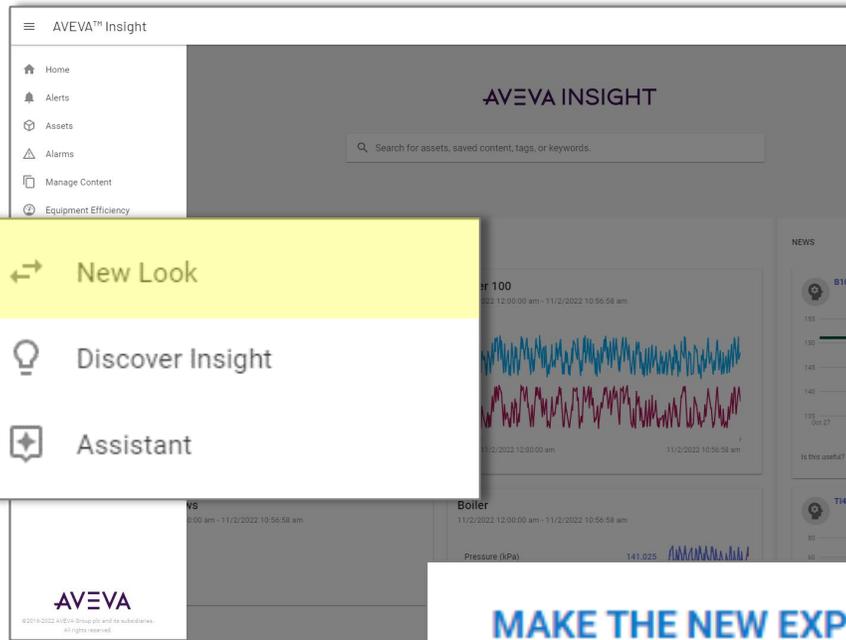
- Better performance
- Improved workflow (dashboards)
- Focus of development

AVEVA Insight: Classic & New



Experiences

Classic



↔ New Look

💡 Discover Insight

➕ Assistant

User Profile

NAME

Elliott Middleton

EMAIL ADDRESS

elliott.middleton@aveva.com

SOLUTION

IntWonderWater

ACCOUNT

elliott.middleton@aveva.com

SOLUTION ID

d86b388d-dadb-4675-8304-b45dca8c24da

SUBSCRIPTION TYPE

Trial

LOCATION

IntWonderWater

PHONE NUMBER

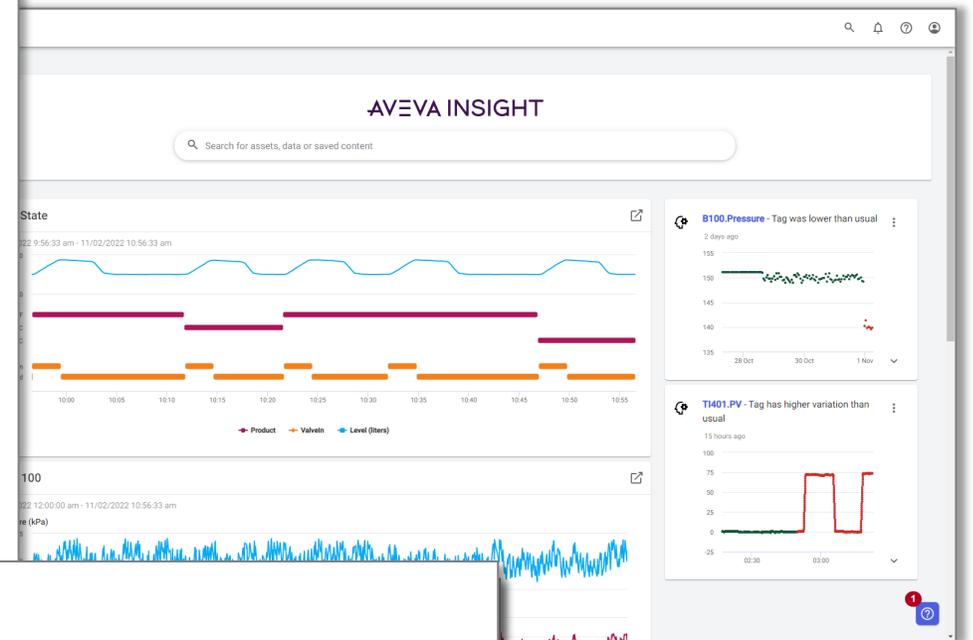
Not provided

SEND ALERTS TO MY EMAIL ADDRESS

Send an email each time one of my alerts is raised in solution IntWonderWater.



New



MAKE THE NEW EXPERIENCE MY DEFAULT

Use the new experience and take advantage of new and improved capabilities. Hide the classic experience.



Out of "preview" and now mainstream



AVEVA Insight Highlights



New Experience



Year In Review

Unit Conversion

- Most useful for scale
 - liters → cubic meters
 - gallons/minute → barrels/day
 - bar → kilopascals
- Preserves existing site labels

L/sec	Liters
l/s	litres

- Administrator: Must associate label to formal “catalog”
- Custom units not fully support *yet*

The screenshot displays the 'Engineering Units' configuration window in AVEVA software. At the top, there are three unit selection buttons: 'DegC', 'liters', and 'rpm'. To the right are two buttons: '(x) Add Expression' and 'Add Tags'. The main area shows a table of properties for an 'Agitator' tag. A dropdown menu is open over the 'Units' property, which is currently set to 'rpm'. The dropdown menu lists various units: Hz, MHz, kHz, rad/min, rad/s, rot/d, rot/h, rot/min, rot/s (highlighted with a mouse cursor), and rpm. The background shows a sidebar with navigation options like Home, Alerts, Alarm, Asset, Lists, Conte, Dashb, Equip, OEE A, Admin, and Class. The main content area shows details for the 'Agitator' tag, including its source, tag name, location, and data type.

Enabling Engineering Unit Conversion

The screenshot shows the AVEVA Insight interface. The main content area is titled "Engineering Unit Catalog" and contains a table of units. The "gal/d" unit is selected, and a "gal/d Properties" dialog box is open on the right. The dialog box has a close button (X) and contains the following fields:

- Unit Name: gal/d
- Select a catalog dimension: Volumetric Flow (US)
- Select a catalog symbol: gal/d
- Save button

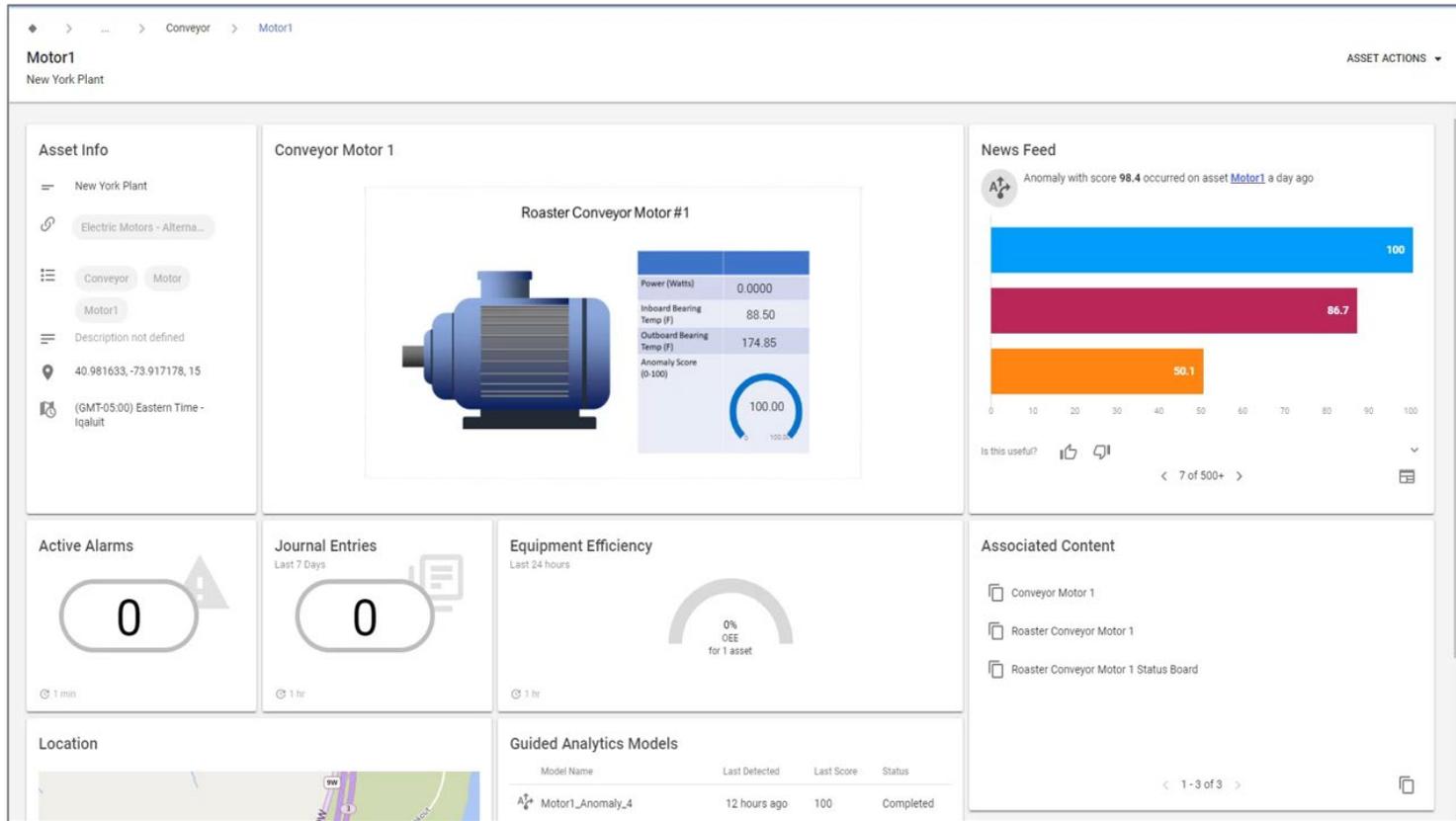
<input type="checkbox"/> Unit	Symbol	Dimension ↑	System
<input type="checkbox"/> liters/min	?	Unknown	General
<input type="checkbox"/> sec	?	Unknown	General
<input type="checkbox"/> gal/d	?/d	Unknown Rate	General
<input type="checkbox"/> gal/h	?/h	Unknown Rate	General
<input type="checkbox"/> gal/min	?/min	Unknown Rate	General
<input type="checkbox"/> gal	gal	Volume	US
<input type="checkbox"/> hL	hL	Volume	SI
<input type="checkbox"/> hl	hL	Volume	SI

Creating Dashboards

Streamlined Workflow

The screenshot shows the AVEVA Insight interface. At the top, the navigation bar includes 'Home', 'Dashboards', 'Alerts', and 'Filter Dashboard'. A dropdown menu is open under 'Dashboards', showing options: 'Content', 'Dashboards' (highlighted), and 'Equipment Efficiency'. The 'Dashboards' sub-menu is further expanded to show 'Discrete Dashboard', 'DMA Dashboard', and 'Power Overview Summary'. Below the menu, a list of existing dashboards is visible: 'R21 Summary Dashboard', 'R21 Dashboard', 'WEFTEC Dashboard', 'Power Overview', 'SydneyWater Dashboard', and 'RN_Dashboard'. A red arrow points to a 'New' button in a 'Manage' overlay. The main dashboard area displays 'Runtime' (18 changes in value, last changed 5 minutes ago) and 'Demand' (1 change in value, last changed 2 minutes ago). On the right, there are three anomaly alerts for 'Motor1' with scores 90.1, 97.9, and 100, each accompanied by a bar chart showing values like 100, 91.338, and 78.903.

Classic Asset Page



- Auto-generated
- Fixed layout

New Asset Page

AVEVA Insight - WonderBrew

theGalaxy > WonderbrewCorp > NewYorkPlant >

Overview Efficiency

Asset Info

Guided Analytics Models

Model Name	Last Detected	Last Score	Status
When you configure a Guided Analytics Model for this asset, you will see it listed here.			

News

- Bottle Line 003 - OEE - Tag flatlined
3 months ago
- Bottle Line 003 - Performance - Tag flatlined
3 months ago

- Auto-generated
- When configured, includes “Efficiency” tab

- Home
- Alerts
- Alarms
- Assets
- Lists
- Content
- Dashboards
- Equipment Efficiency
- OEE Analysis

Mash100

⚠️ 0 Asset Actions

theGalaxy > WonderbrewCorp > LondonPlant > Mashing > Mash100

Overview **Efficiency** Mash100.Dashboard

OEE

07/13/2022 10:49:08 pm - 07/14/2022 10:49:08 am



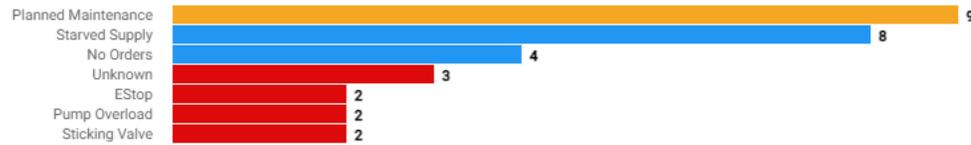
Utilization Event Timeline

07/13/2022 10:49:08 pm - 07/14/2022 10:49:08 am



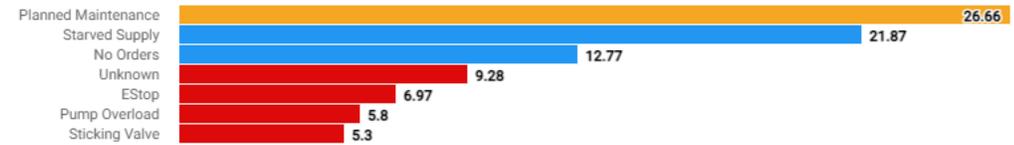
Top Utilization Reasons by Count

07/13/2022 10:49:08 pm - 07/14/2022 10:49:08 am



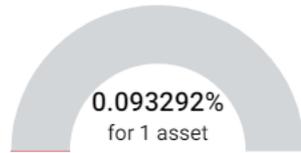
Top Utilization Reasons by Duration

07/13/2022 10:49:08 pm - 07/14/2022 10:49:08 am



Performance

07/13/2022 10:49:08 pm - 07/14/2022 10:49:08 am



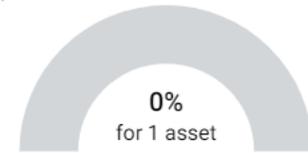
Availability

07/13/2022 10:49:02 pm - 07/14/2022 10:49:02 am



Quality

07/13/2022 10:49:08 pm - 07/14/2022 10:49:08 am



New Asset Page

AVEVA Insight - WonderBrew

Bottling Lines

Bottle Line 001 - Performance Overview

Availability 88.75 percent

Runtime 88.75 percent

17.75

Save

Link to asset (optional)

 /theGalaxy/WonderbrewCorp/NewYorkPlant/Bottling

Select an asset

Make this the default view for the selected asset (affects all users)

Bottle Line 002 15.496 percent

Bottle Line 003 41.386 percent

Bottle Line 004 32.216 percent

30D 7D 3D YESTERDAY TODAY 12H 1H CUSTOM

- Auto-generated
- When configured, includes “Efficiency” tab
- Can be fully customized
 - Create dashboard
 - Share with Team
 - Link to Asset
 - Check “Make default”

- Home
- Alerts
- Alarms
- Assets
- Lists
- Content
- Dashboards
- Equipment Efficiency
- OEE Analysis

Mash100

0 Asset Actions

theGalaxy > WonderbrewCorp > LondonPlant > Mashina > Mash100

- Overview
- Efficiency
- Mash100.Dashboard**

Mash100.Operations.Graphic

Dark Malt
RBB-02417

Agitator AuxContact
OFF

Running
Holding 2

ProductionID
PR-A113071119397381

Wort (Dark Ale)
GW-1307111943

Temperature (PV)
197.25
°F

Level (PV)
34.00
%

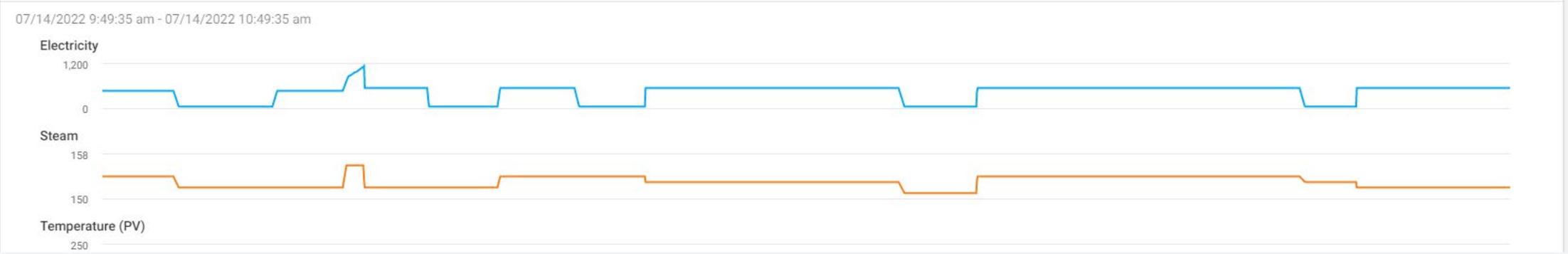
Electricity: **548.25**
Water: **0.0000**
Steam: **152.00**

Mash100.QuickView.Status

07/14/2022 12:00:00 am - 07/14/2022 10:49:35 am

	CURRENT VALUE	TREND
MaterialID	Wort (Dark Ale)	
ProductionID	PR-A113071119397381	
State	Running	
Status	Holding 2	
Utilization	Running (Normal)	
UtilizationState	Runtime	

Mash100.Energy.LineChart



Line Chart: Pen Styles

The screenshot displays the AVEVA Insight interface. On the left is a navigation menu with options like Home, Alerts, Assets, Lists, Content, Dashboards, Equipment Efficiency, OEE Analysis, Administration, and Classic Look. The main area shows a 'Mixer State' dashboard with three line charts: 'Level (liters)', 'Agitator (rpm)', and 'Temp (DegC)'. A configuration panel is overlaid on the right, showing settings for a line series. The panel includes a color selection tool (a gradient bar with a selected green circle), a hex color input field containing '#8bc34a', a 'Pen Thickness' dropdown set to '2', a 'Pen Style' dropdown set to 'Solid', and a 'Manual Range' section with 'Min' and 'Max' input fields. At the bottom, a time range selector is visible with options for 30D, 7D, 3D, YESTERDAY, TODAY, 12H, and LAST.

- Linear/stairstep
- Thickness
- Style (solid/dashed)
- Manual range
- Color

Selecting Chart Type

The image shows a screenshot of the AVEVA Insight interface. The main window displays a 'Boiler Pressure Comparison' chart with multiple data series. A 'Content Settings' dialog is open, showing a 'Visualization' menu with various chart icons. A large grey arrow points from the 'Line Chart' icon in the dialog to the 'Line Chart' button in the 'Visualization' section of the dialog.

Content Settings

Visualization

- Column Chart
- Data Grid
- Graphic
- Line Chart
- Pie Chart
- Status Board

Content Settings

Content Type

- Asset Efficiency
- Asset Overview
- Visualization
- Other

Visualization

- Column Chart
- Data Grid
- Graphic
- Line Chart
- Pie Chart
- Status Board

- Types of content growing
- Harder to remember icon
- Expanding more

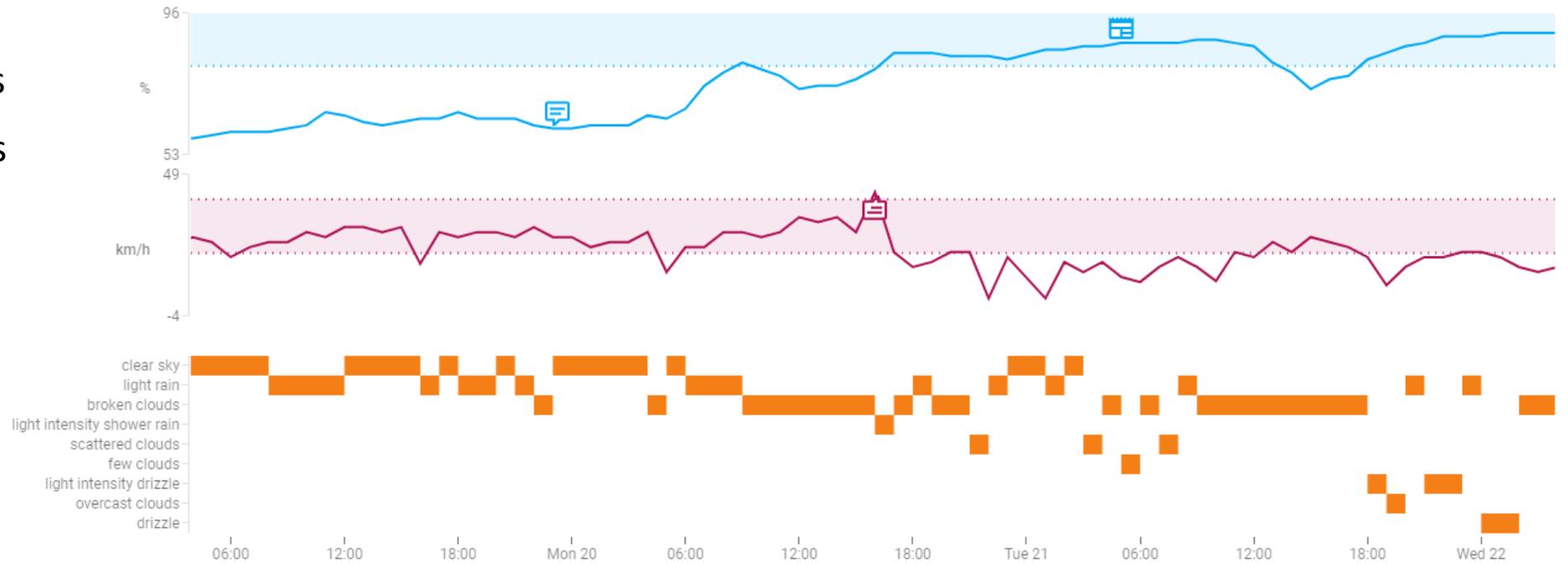
Exporting Data

- Available from most content
- Initially, export
- Plan to adapt on-prem
 - Custom functions
 - More flexible selection
 - Event-based rollups



Richer Line Chart

- Strings & Digitals
- Display of Tag Zones
- Add/Edit Comments
- Overlay “News”





AVEVA Insight Highlights



New Experience



Year In Review



Expressions

More Meaningful Metrics

- Ad hoc expressions
 - Results not stored
 - Can save with charts
- Rich function library
- Integrated engineering unit conversion
- *Only* in “New Experience”

The screenshot displays the AVEVA Insight interface. On the left is a navigation sidebar with options: Home, Alerts, Alarms, Assets, Lists, Content (selected), Dashboards, Equipment Efficiency, OEE Analysis, Administration, and Classic Look. The main area shows three charts under 'Content001': 'LRP101.InletFlow.SP (l/sec)' with a red line, 'LRP101.InletFlow (l/sec)' with a blue line, and 'Control Error (l/sec)' with an orange line. A configuration menu is open over the 'Control Error' chart, listing: 'LRP101.InletFlow', 'LRP101.InletFlow.SP', '(x) Control Error', 'Expression' (highlighted with a red dashed box and containing 'Baytown.LRP101.InletFlow - Baytown.LRP101.InletFlow.SP'), 'Alias' (Control Error), 'Units' (l/sec), 'Interpolation' (Linear), and 'Pen Color' (orange). The menu has 'Cancel' and 'Save expression' buttons at the bottom right.

- 🏠 Home
- 🔔 Alerts
- 🕒 Alarms
- 📦 Assets
- ☰ Lists ▶
- 📄 Content ▶
- 📊 Dashboards
- ⚙️ Equipment Efficiency
- 🔍 OEE Analysis
- ⚙️ Administration
- ↕ Classic Look

Content001

📍 Cursor 📄 Data ⚙️ Settings 💾 Save

🔍 📄 📌 ⬇️ 🔔

< 10/21/2022 12:00:00 am - 10/21/2022 10:54:36 am >

Pressure



Temperature



Ad Hoc Expression Demo

21 Oct 00:30 01:00 01:30 02:00 02:30 03:00 03:30 04:00 04:30 05:00 05:30 06:00 06:30 07:00 07:30 08:00 08:30 09:00 09:30 10:00 10:30

30D
 7D
 3D
 YESTERDAY
 TODAY
 12H
 1H
 CUSTOM

Specific Use Cases Targeted

Simple Engineering

- Pump efficiency
- Find process lag based on flow rate
- Compensate for a process lag

Exception Handling

- Substitute bad/stale values
- Find last good value

Logical Expressions

- Simple comparisons
- Time “true”

Ad Hoc Expressions

Arithmetic

+
-
/
*
^
%

Units

UOM
CASTUOM

Scalar

SIGN
ABS
SQRT
LOG
ROUND
TRUNCATE

AND
OR
NOT

IF
IFBAD

Statistics

AVERAGE
AVERAGES
TOTAL
TOTALS
MIN
MAX

Time Weighted → AVERAGE
→ AVERAGES
→ TOTAL
→ TOTALS

Simple Statistical ← AVERAGES
← TOTALS

*New in
AVEVA
Insight* {

Time Series

TIMESHIFT
DURATION
PREV
PREVGGOOD

Unit Conversion

Integrated Into Expressions

$$\begin{array}{cc} \text{FI101.PV} + \text{FI202.PV} \\ 0-35.0 \quad \quad 0-0.58 \\ \text{liters/minute} \quad \quad \text{liters/second} \end{array}$$

Result will be in units of first tag:

$$0-70.0 \quad \text{liters/minute}$$

Alternative puts burden on user to convert:

$$\text{FI101.PV} + \text{FI202.PV} \quad \text{/} \quad \text{60.0} \quad \times$$

$$\text{FI101.PV} + \text{FI202.PV} \quad * \quad 60.0 \quad \checkmark$$

AVEVA Insight Highlights



New Experience



Year In Review

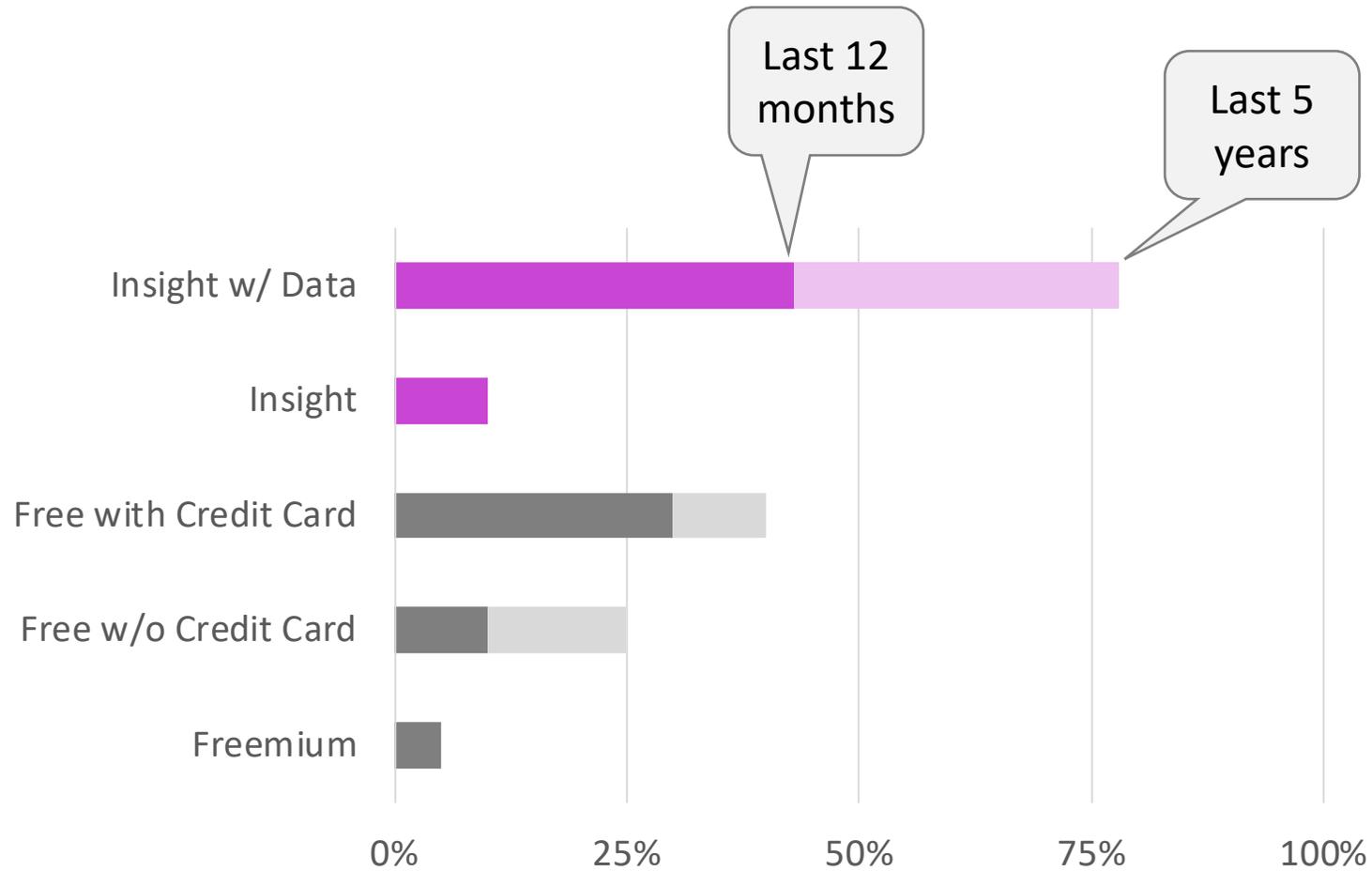


Expressions

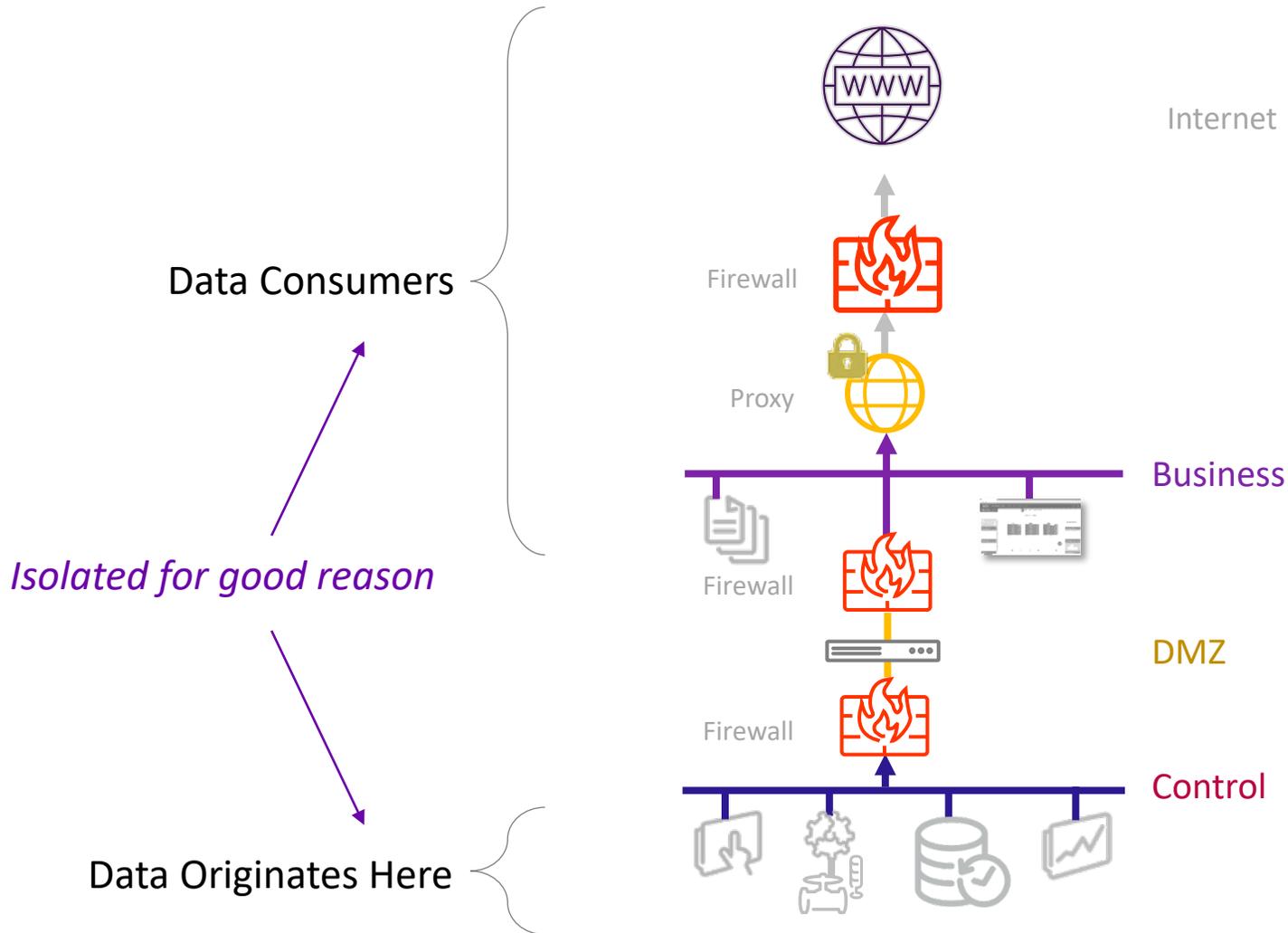


Near-Term Enhancements

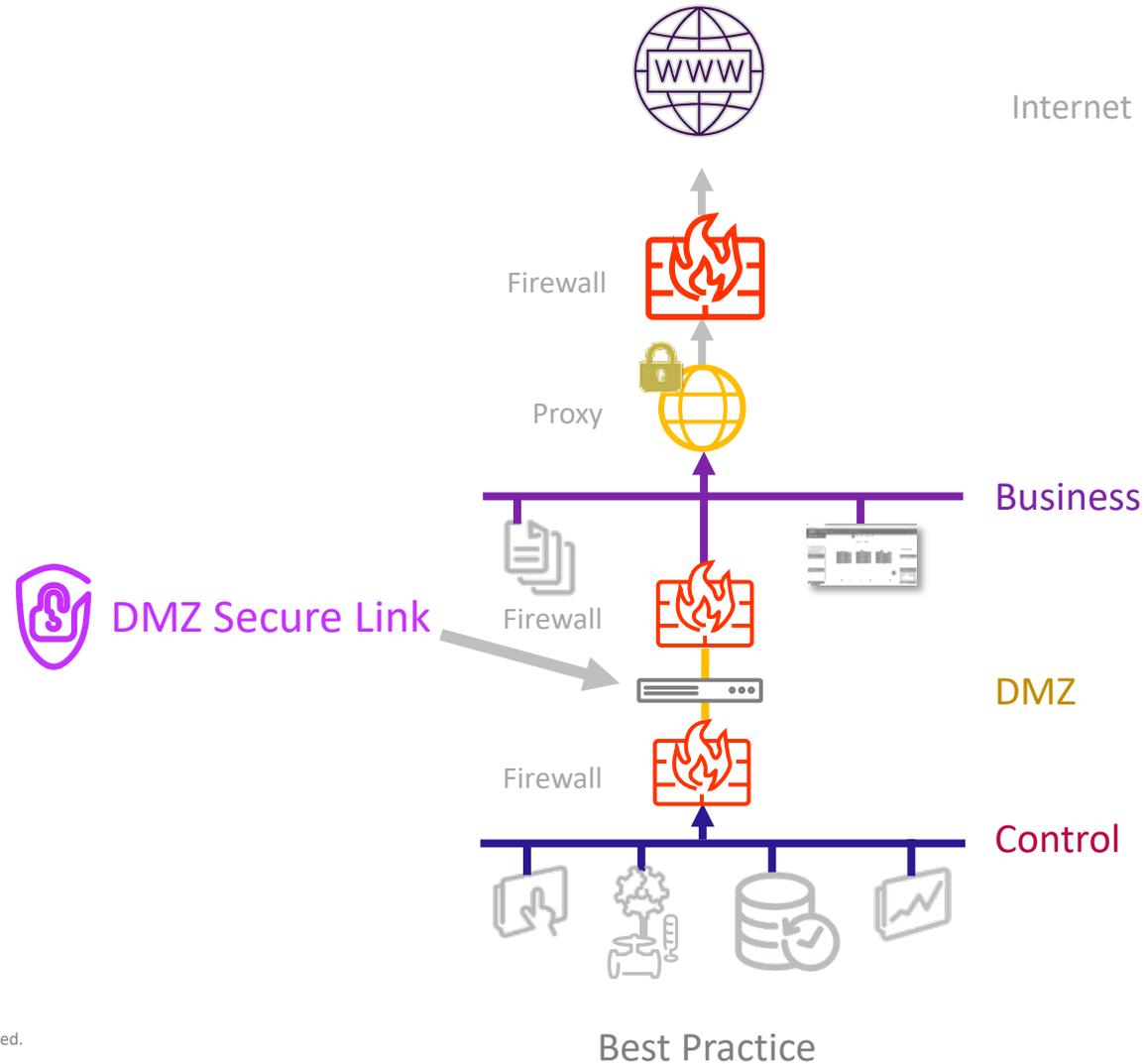
“Free” To “Paid” Conversions



Network Challenges



Crossing The DMZ



- Enables publishing from Control Network
- Managed, application-specific web proxy
- Free download from AVEVA Insight

AVEVA Insight Highlights



New Experience



Year In Review



Expressions

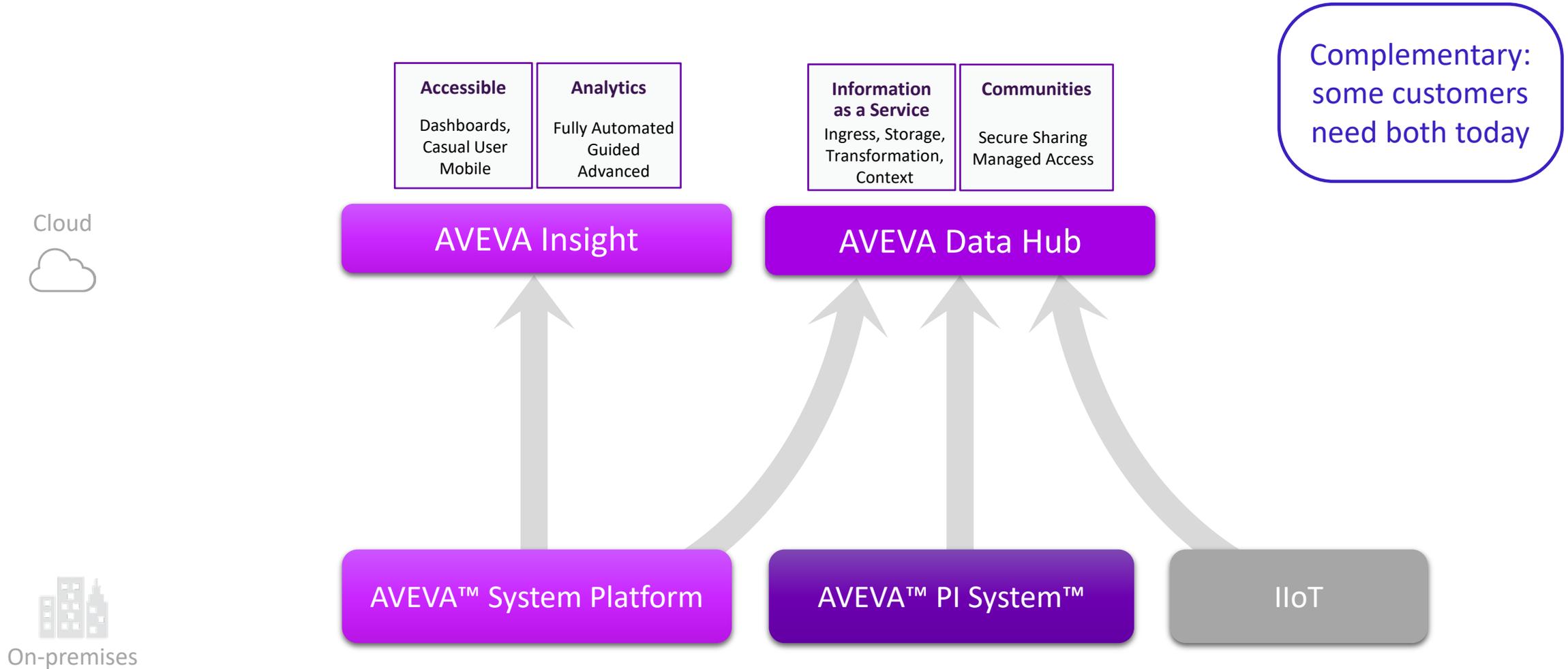


Near-Term Enhancements

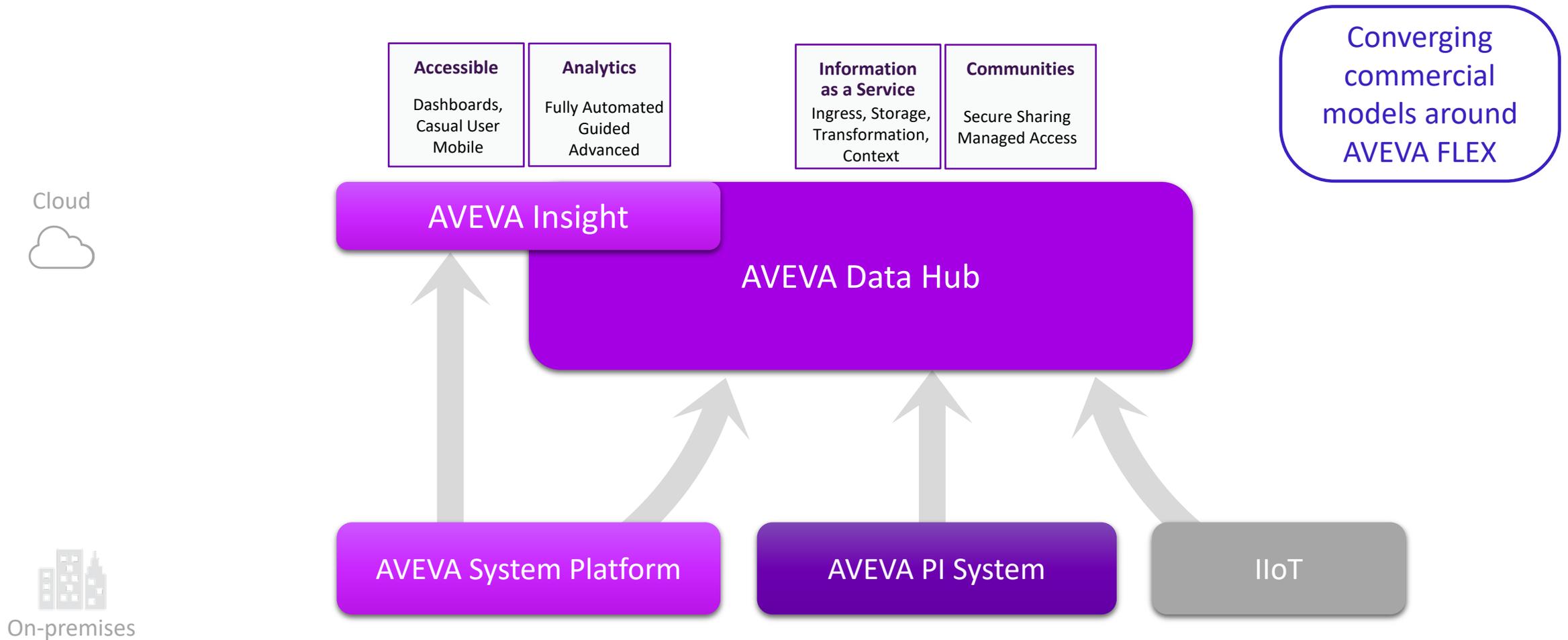


AVEVA Insight & AVEVA Data Hub

Online Information



Converging Online Information



Insight Highlights



New Experience



Year In Review



Expressions



Near-Term Enhancements



AVEVA Insight & AVEVA Data Hub



Analytics

Guided Predictive Analytics

Predictive Analytics (aka PRiSM) algorithm with Guided experience

- Additional option in Guided Analytics:
 - Predictive Analytics for long-running assets (e.g. rotating)
 - TwinThread-based algorithm for batch-oriented assets with time-based patterns
- Predictive Analytics algorithm:
 - Returns a predicted value for each sensor → helps identifying anomaly root cause
 - Also returns an anomaly score (aka Overall Model Residual)
 - Does NOT have segmentation like the TwinThread algorithm
 - Outlier detection automatically applied to training data set

The screenshot shows the 'Guided Predictive Analytics Model Details' configuration page. It includes the following sections:

- Model Name:** UF9_Anomaly (with a close button).
- Asset:** /Laval/UF9 (with a trash icon).
- Tags:** laval uf9 (with a trash icon).
- Choose one or more tags to use in your model:** A list of six tags: Laval.UF9.FlowRate, Laval.UF9.InletPressure, Laval.UF9.InletTemp, Laval.UF9.OutletPressure, Laval.UF9.OutletTemp, and Laval.UF9.PumpMotorCurrent. Each tag has a trash icon.
- 6 tag(s) added out of 30**
- Configure Filter:** Optional condition to indicate the asset or process is not running.
 - Filter Tag:** Laval.UF9.State (with a trash icon).
 - Filter Operator:** Equal (dropdown menu).
 - Filter Value:** Idle (with a close button).

User-friendly but powerful anomaly detection

Coming in
October

Guided Analytics

Predictive Analytics with Guided experience

- Additional option in Guided Analytics:
 - Predictive Analytics for long-running assets (e.g. rotating)
 - Time based patterns for batch-oriented assets
- Predictive Analytics algorithm:
 - Returns a predicted value for each sensor → helps identifying anomaly root cause
 - Anomaly score (aka Overall Model Residual)
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- 6 tag(s) added out of 30**
- Configure Filter:** Optional condition to indicate the asset or process is not running.
 - Filter Tag:** Laval.UF9.State (with a trash icon).
 - Filter Operator:** Equal (dropdown menu).
 - Filter Value:** Idle (with a close button).

User-friendly but powerful anomaly detection

Coming in
October

A person with a backpack is standing on a rocky outcrop, looking out over a sprawling city at dusk. The city is illuminated with warm lights, and the sky is filled with dramatic, dark clouds. The person is wearing a dark shirt and light-colored pants. The city below is a dense collection of buildings, with a large body of water in the middle ground. The overall mood is contemplative and expansive.

AVEVA Insight Advanced Analytics Update

Insight Advanced Analytics Update



Analytics & AI in AVEVA Insight



AVEVA Insight BI Gateway



AVEVA Insight BI Gateway – Use Case



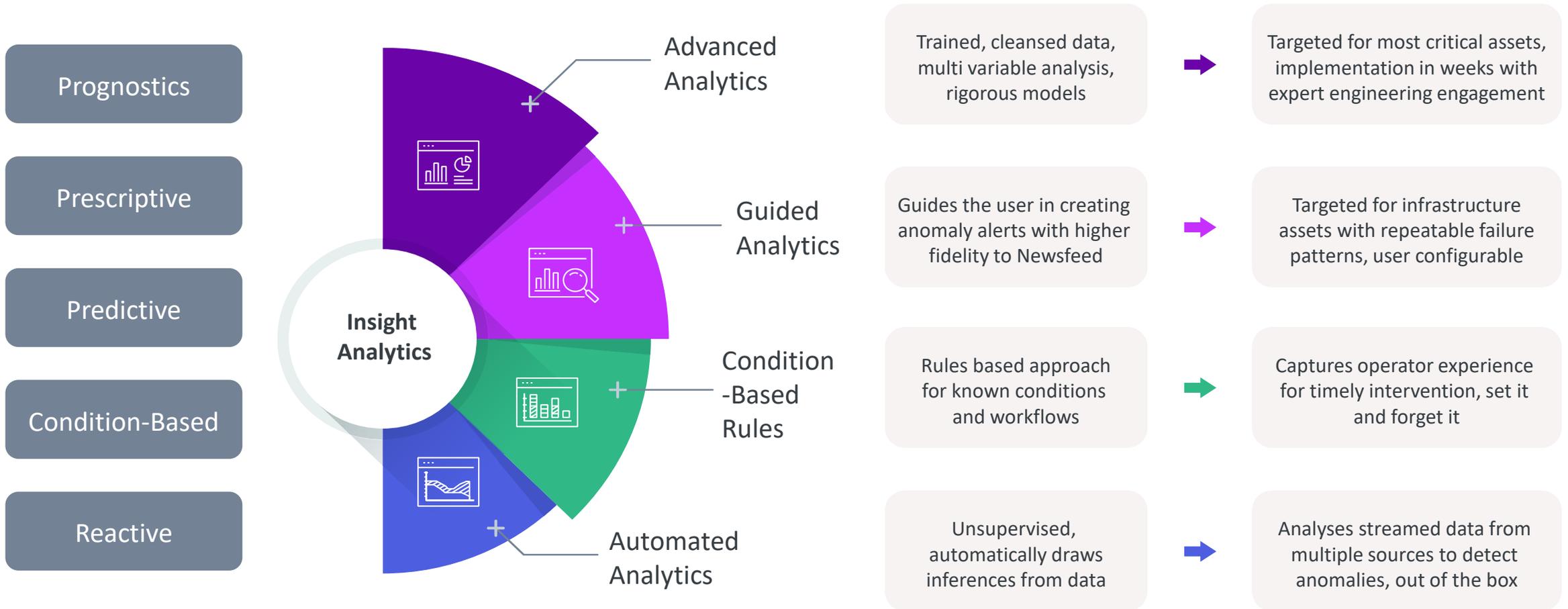
What's coming next



Energy Monitoring Solution

Analytics & AI in AVEVA Insight

The human experience meets Artificial Intelligence in the cloud





AVEVA Insight Advanced Analytics Update



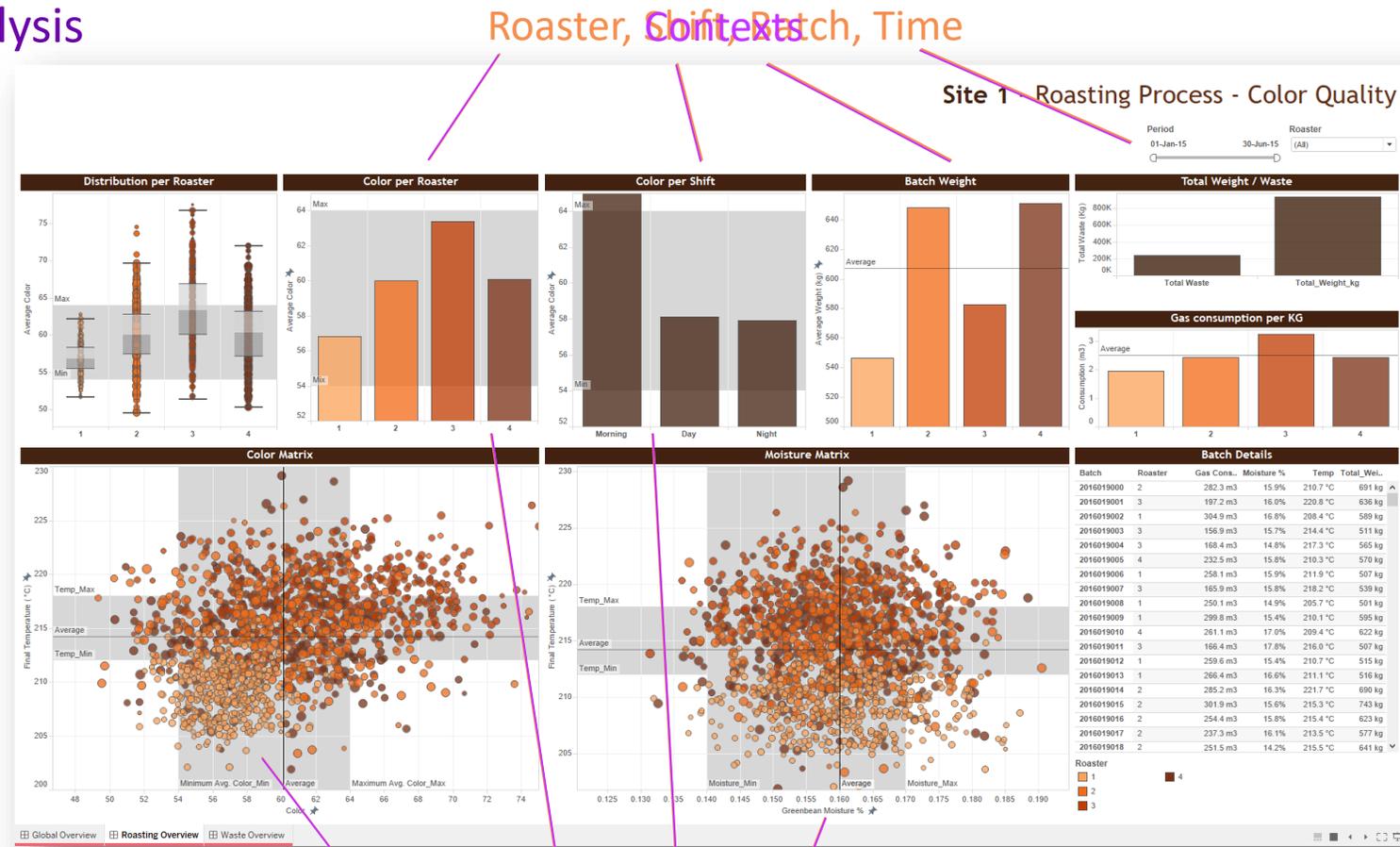
Analytics & AI in AVEVA Insight



AVEVA Insight BI Gateway

Dashboard for connected workforce - a reverse journey

Dashboard analysis



Roaster, Shift, Batch, Time

Contexts

KPIs, Metrics

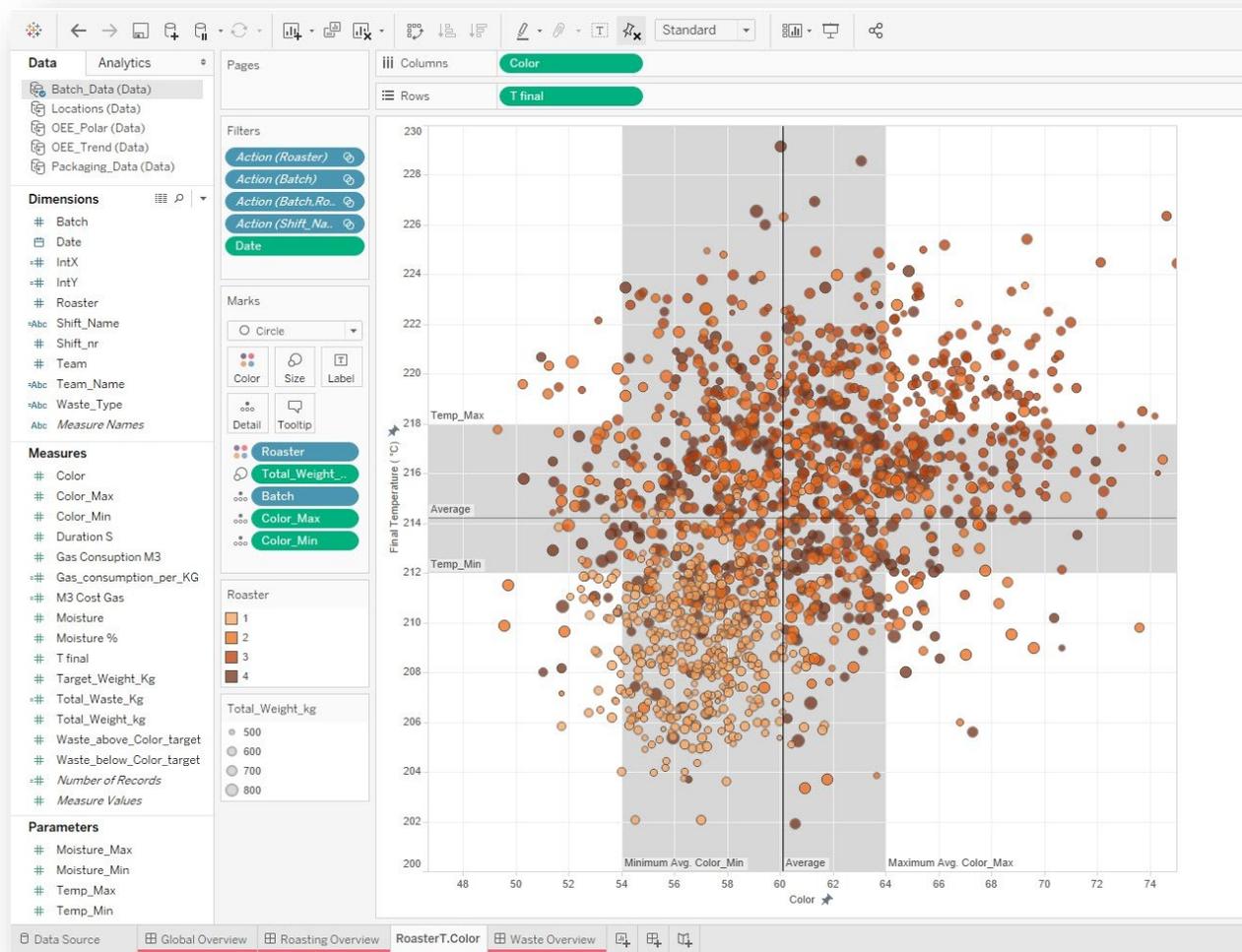
Color, batch weight, KPIs, metrics, gas consumption

Data Modeling – a reverse journey

Dashboard design

Dimensions

Measures



Data model

Data Modeling – a reverse journey

Model Builder

Model Builder

The screenshot displays the AVEVA Insight BI Gateway Model Builder interface. The main workspace is divided into three columns: Measures, Dimensions, and Data Sources. The Measures column contains 'News' and 'Measure'. The Dimensions column contains 'FQNs', 'NewsAlgorithm', 'Asset', 'Crew', 'NewsEvents', 'OEECalculations', 'ProductID', 'Shift', 'UtilizationEvent', 'UtilizationReason', 'UtilizationReasonGroups', 'UtilizationState', and 'WorkOrderID'. The Data Sources column contains 'Insight_EMEA' and 'ProductionPlanning'. On the right, a configuration panel for the 'News' measure is visible, showing fields for Name, Description, Refresh Rate (Interval 1, Unit Hour), Update Period (Interval 2, Unit Hour), and Measure Period (checked, Interval 1, Unit Hour). It also includes a Data Backfill section with a date selection and an 'Edit Calculations' button.

AVEVA Insight Advanced Analytics Update



Analytics & AI in AVEVA Insight



AVEVA Insight BI Gateway

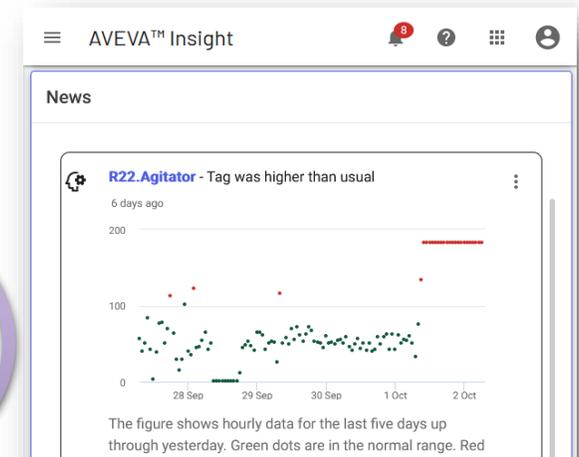
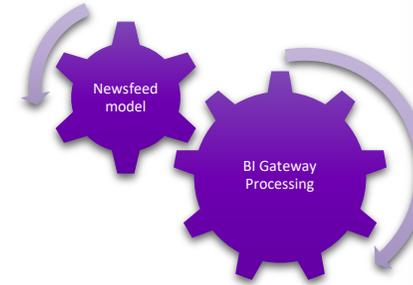


AVEVA Insight BI Gateway – Use Cases

Newsfeed - Extended Experience

AVEVA Insight BI Gateway

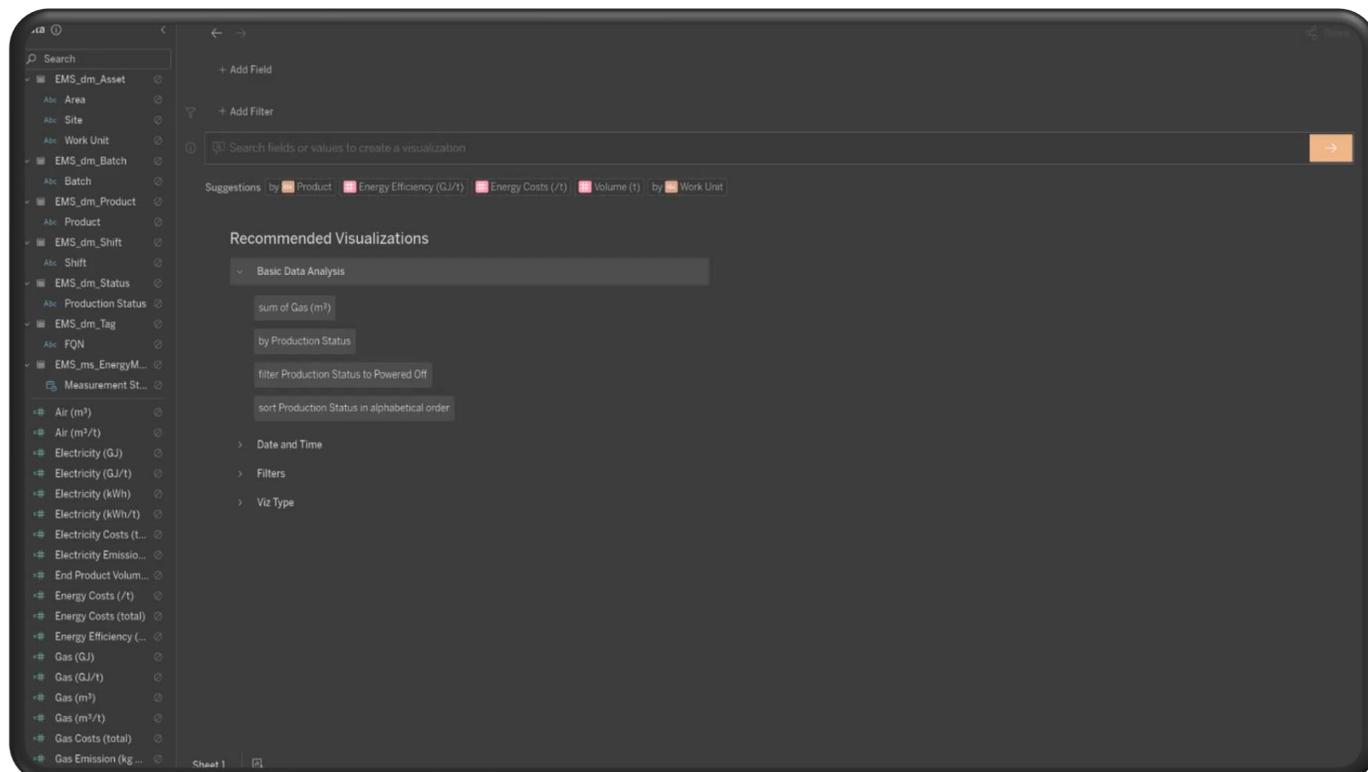
- Consume Insight anomaly detection
- Aggregate detection and score by algorithm
 - Automated Analytics
 - Guided Analytics
 - Advanced Analytics
- Contextualize with operational data
 - Asset, state, shift, workorder, product, etc.
- Quickly identify
 - Site having most anomalies
 - Model most frequently deviating
 - Asset and Tagnames most contributing to site's situation
 - Drill-down to Insight data by observation period



Data at your fingertips

Simplifying analytics with natural language

- Query data using natural language
 - Ask Data (Tableau) - Q&A Microsoft Power BI
 - Self-service analytics
- Powerful analytics that:
 - Interprets intent behind ambiguous question
 - Refine question at any time
 - Answer and visualize data at best
 - Make better data-driven decisions
- Save and share your analytics with your community



Why showcasing those third-party advanced feature?

...its effectiveness is based on a solid, structured, curated and responsive data model provided by **Insight BI Gateway**

AVEVA Insight Advanced Analytics Update



Analytics & AI in AVEVA Insight



AVEVA Insight BI Gateway



AVEVA Insight BI Gateway – Use Case



What's coming next

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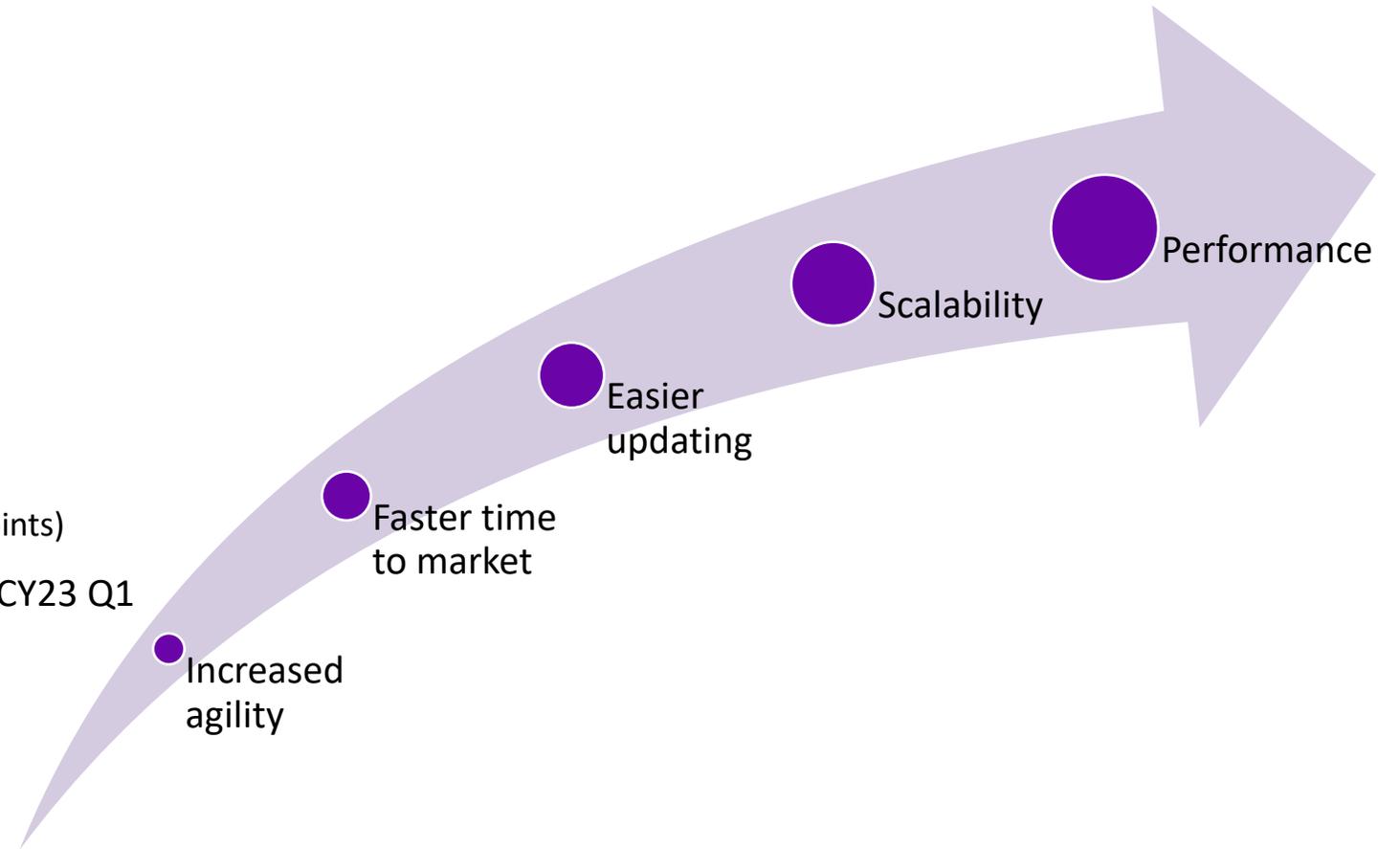
- Next Gen

- Azure Microservices architecture – CY23 Q2
- UI/UX modernization – CY23 H2

- Data Adapters

- Insight Data Adapter enhancement - CY23 Q1
 - Support of new Insigth Asset Model
 - Advanced retrieval mode (Historian and MES endpoints)
- Generic REST API Data Adapter enhancement - CY23 Q1
 - Support of AVEVA Data Hub authentication
 - Support of new Insigth Asset Model

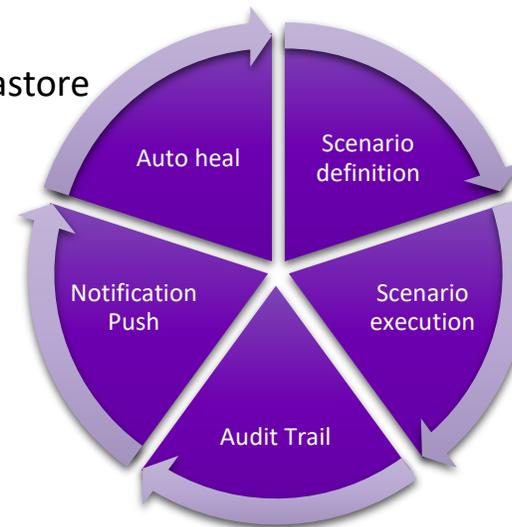
- Data Monitoring Service - CY23 Q1



Dealing with real world problem...

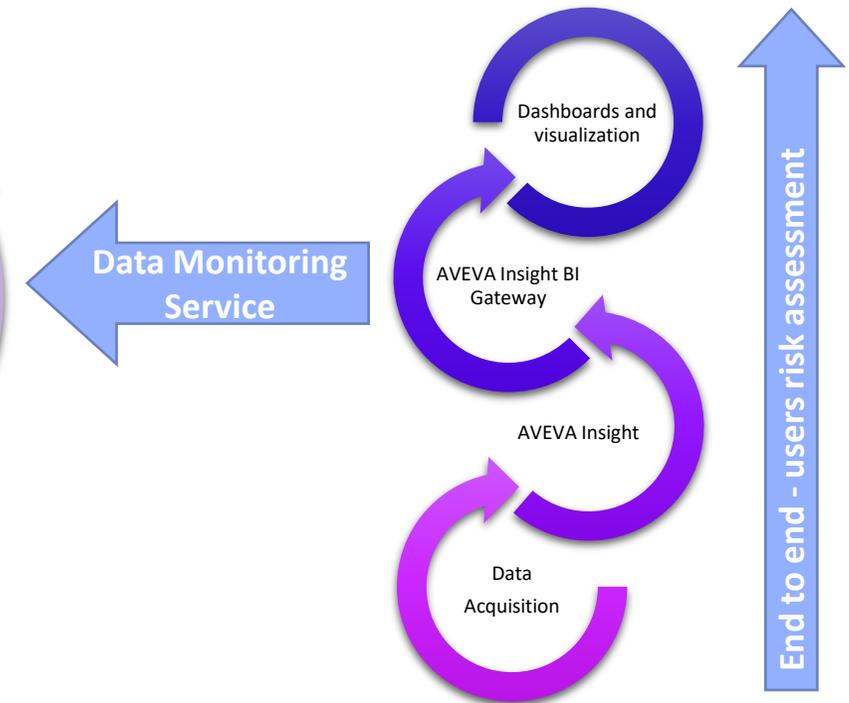
Data Monitoring Service

- #1 – Voice of Customer requirement
- Goals:
 - Sustain user's end-to-end risk assessment initiative
 - Ensure about solid data consistency within the datastore
 - Improve qualification logic of uncertain data
- Scenario definition:
 - Data Reliability
 - Data loss, late, burst
 - Data Validity
 - Anomaly Detection – AI
 - Processing Performance
 - Regular refresh, backfill, on-demand
 - System Health
 - Health index



Risk types:

- Configuration error, change control management
- OnPrem syst shutdown, in maintenance
- LAN/WAN network outage
- Scada communication layers down
- Etc.



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AVEVA Insight BI Gateway – Use Cases



What's coming next

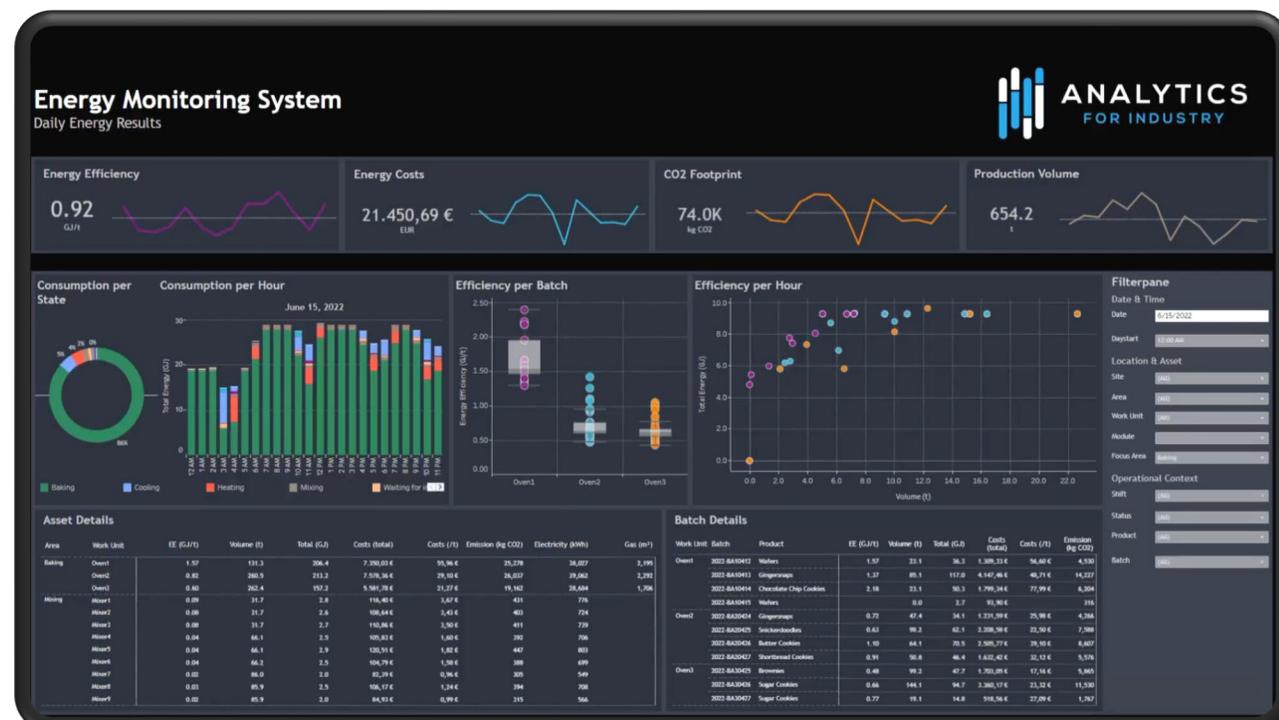


Energy Monitoring Solution

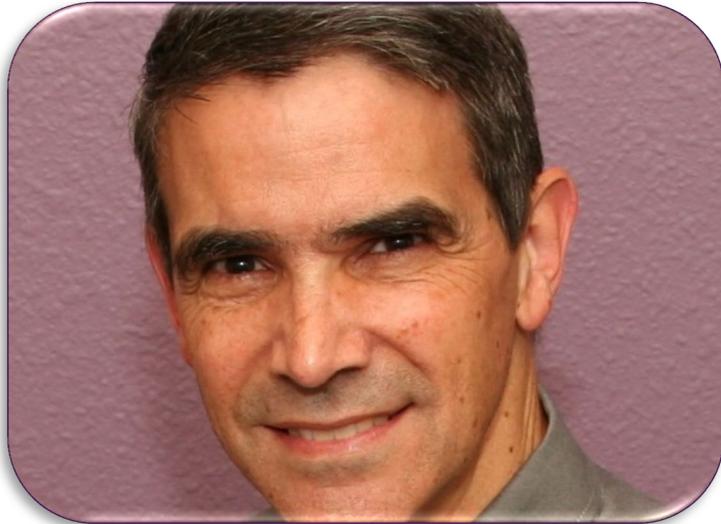
Energy Monitoring System for Manufacturing

Powered by Analytics for Industry

- Monitor energy
 - Consumed/Produced/Transferred/Supplied
- Compute KPIs
 - Energy Efficiency, CO2 footprint, Cost
- Support Energy normalization (GJ/kWh)
- Contextualized with your operational data
 - Asset, Shift, Crew, Product, Work Order, Production Declaration
- Leverage AVEVA Cloud Platform
 - AVEVA Insight – Predefined/Fixed data structure
 - AVEVA Insight BI Gateway - Predefined/Fixed data structure
- Library of Visualization – Predefined (Tableau/Power BI)
- Solution based on a decade of experience
- ...Just feed AVEVA Insight with your plant data



Operational in 5 days!



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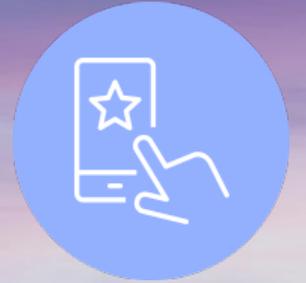
Questions?

Please wait for the microphone.
State your name and company.



Please remember to...

Navigate to this session in the mobile app to complete the survey.



Thank you!

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AVEVA is a global leader in industrial software, sparking ingenuity to drive responsible use of the world's resources. The company's secure industrial cloud platform and applications enable businesses to harness the power of their information and improve collaboration with customers, suppliers and partners.

Over 20,000 enterprises in over 100 countries rely on AVEVA to help them deliver life's essentials: safe and reliable energy, food, medicines, infrastructure and more. By connecting people with trusted information and AI-enriched insights, AVEVA enables teams to engineer efficiently and optimize operations, driving growth and sustainability.

Named as one of the world's most innovative companies, AVEVA supports customers with open solutions and the expertise of more than 6,400 employees, 5,000 partners and 5,700 certified developers. With operations around the globe, we are headquartered in Cambridge, UK and listed on the London Stock Exchange's FTSE 100.

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