

NOVEMBER 2022

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# Enhance your plant floor control with AVEVA™ Operations Control

Edge

John Krajewski

**AVEVA**

# AVEVA Operations Control

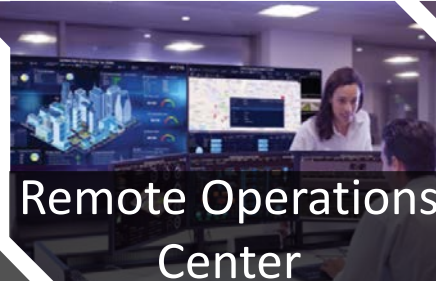
## Evolving HMI/SCADA to Operations Control

### Enterprise Edition

Long Term Focus  
(up to 1 Year)  
Enterprise View  
IT/OT Convergence



Command Center



Remote Operations Center



Casual User

### Supervisory Edition

Medium Term Focus  
(up to 1 Week)  
Process View  
OT Convergence



Control Room



Area Workstation



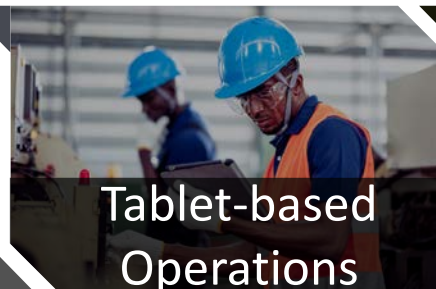
Mobile Supervisor

### Edge Edition

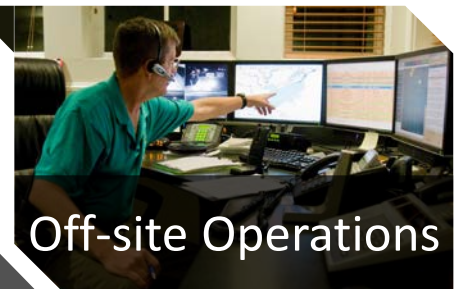
Short Term Focus  
(up to 1 Shift)  
Work Cell View  
Control Convergence



Panel-based Operations



Tablet-based Operations



Off-site Operations

# Hybrid SaaS Industrial Operations

Command Center

Remote Operations Center

Casual User



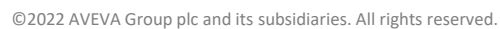
Control Room

Area Workstation

Mobile Supervisor

The image consists of three side-by-side panels, each with a white diagonal line separating the top image from the bottom text label.

- Panel-based Operations:** The top image shows a worker in a blue hard hat and dark jacket interacting with a large, circular, perforated metal panel. The bottom text label is "Panel-based Operations".
- Tablet-based Operations:** The top image shows two workers in blue hard hats and safety vests; one is holding a tablet. The bottom text label is "Tablet-based Operations".
- Off-site Operations:** The top image shows a person in a green shirt sitting at a desk with multiple computer monitors, pointing at one of them. The bottom text label is "Off-site Operations".



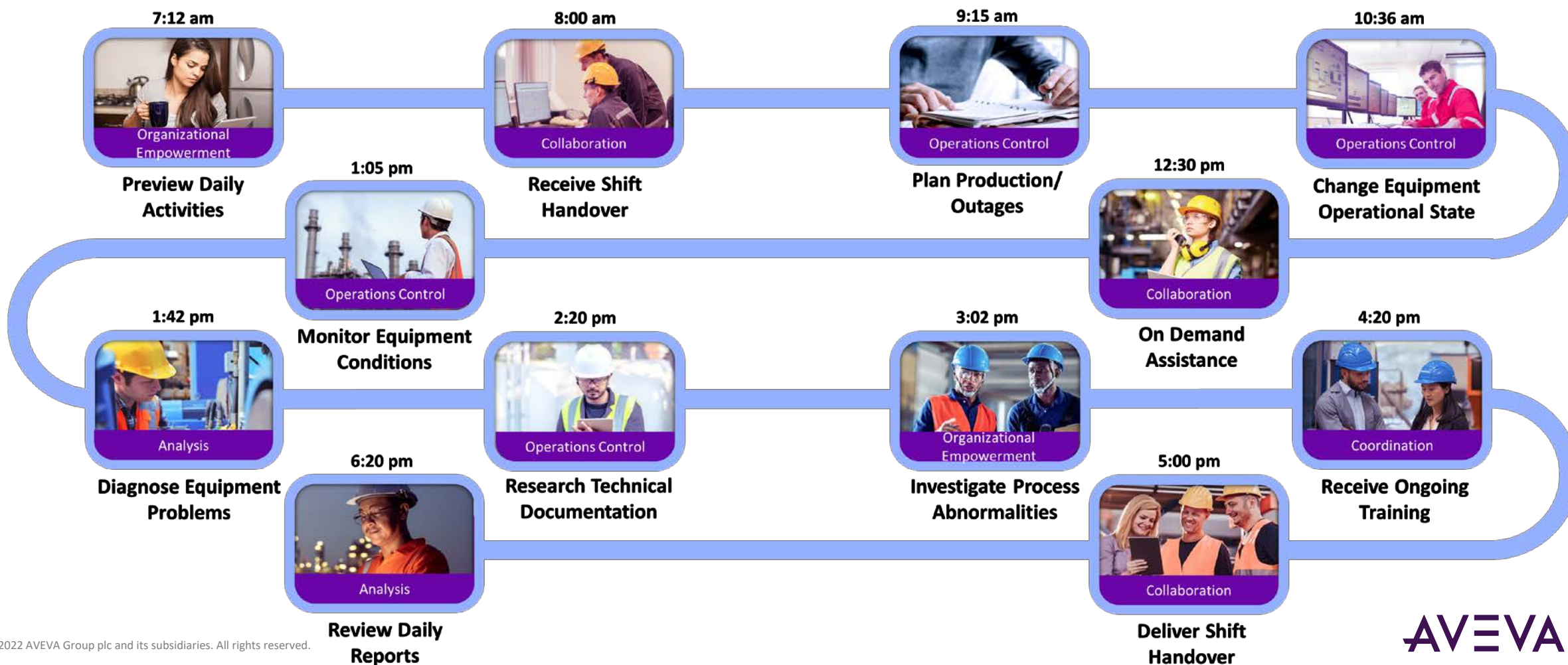
# AVEVA Operations Control 2023

Now Available!



# Operations – A Day in the Life

Enabled By AVEVA Operations Control – Hybrid SaaS Solution



# Human Machine Interface

## AVEVA InTouch AVEVA Edge

Key functions:

### Legendary Ease of Use – New UI/UX!

InTouch is an open and extensible HMI with intuitive graphical animation and scripting capabilities that provide incredible power and flexibility for application designers.

### Powerful Data Modeling – Unlimited Tags Added!

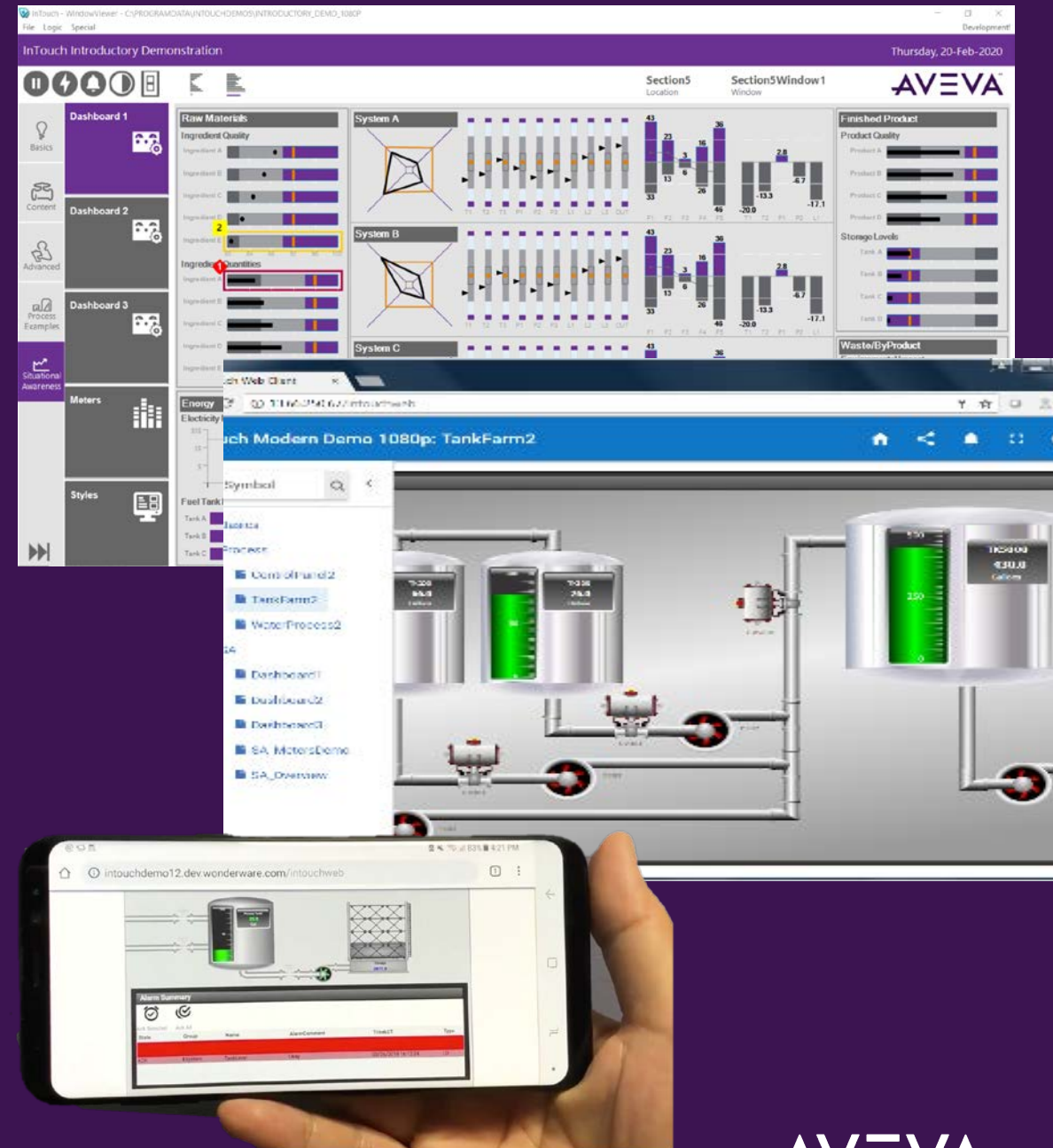
Design user-friendly HMIs and detect and troubleshoot problems in any process.

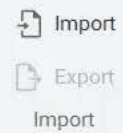
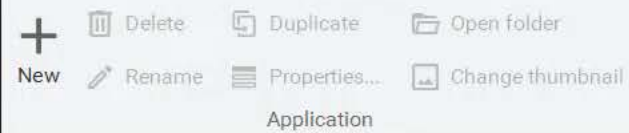
### Process Visualization and Control – Workspaces!

Use InTouch to visualize and control vital plant processes in real time.

### Situational Awareness

InTouch HMI brings unmatched clarity, consistency and meaning to integrated data.



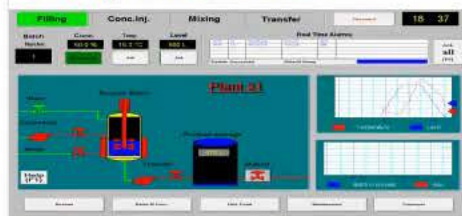


InTouch

OMI

Web Client

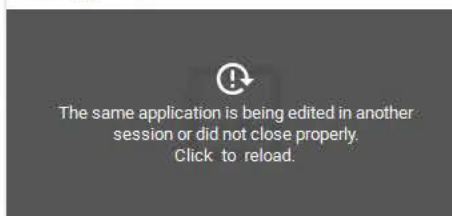
Demo Application 1280 x 1024



InTouch Introductory Demo 1080p



NewApp\_001



NewApp\_002





What's New?

Dashboard 1



Basics

Dashboard 2



Content

Dashboard 3



Advanced

Meters



Styles

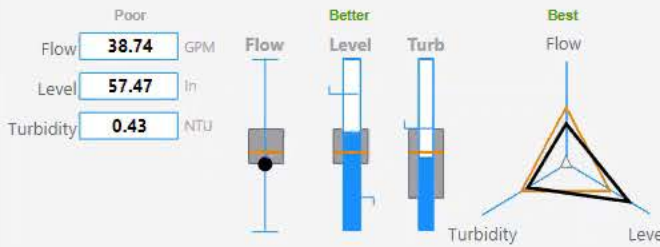


Situational Awareness Overview

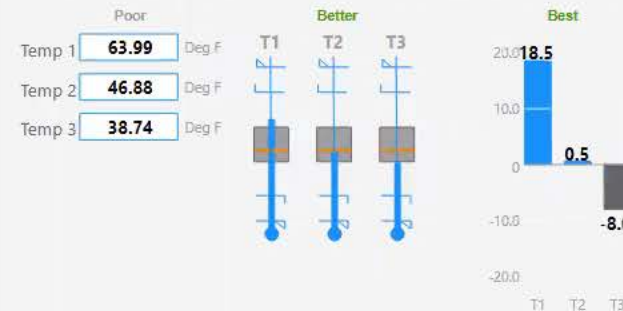
Which visualization style gives the best understanding how FIT123 is performing?



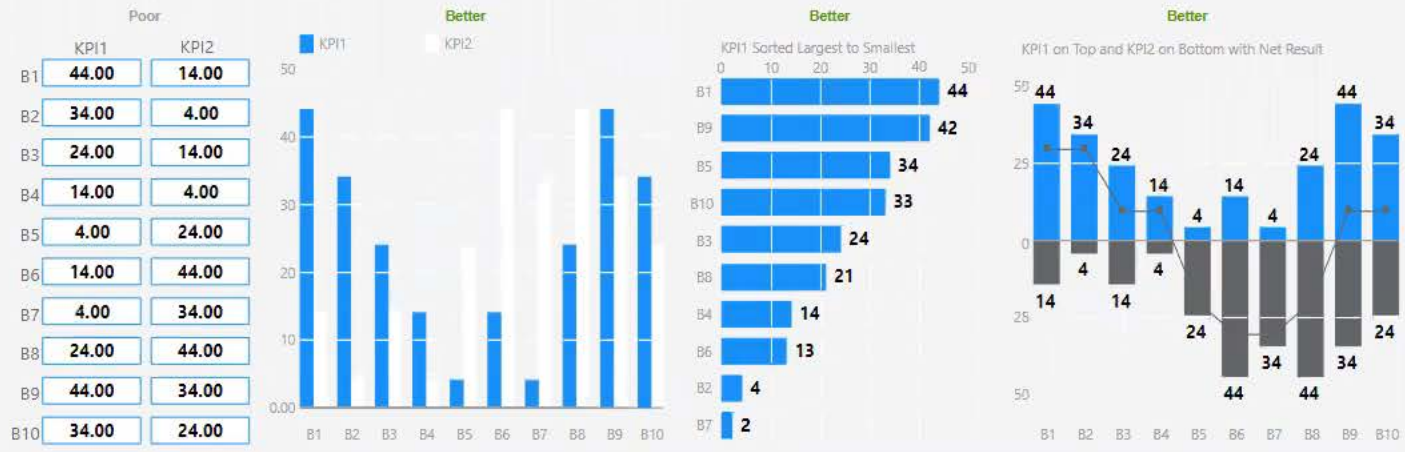
Which style best communicates how well the Filter 100 process is performing?



Which visualization style best communicates overall control loop performance?



Which visualization style best communicates data patterns and relationships in real time?



Which visualization style best allows analysis and comparison across multiple KPIs?



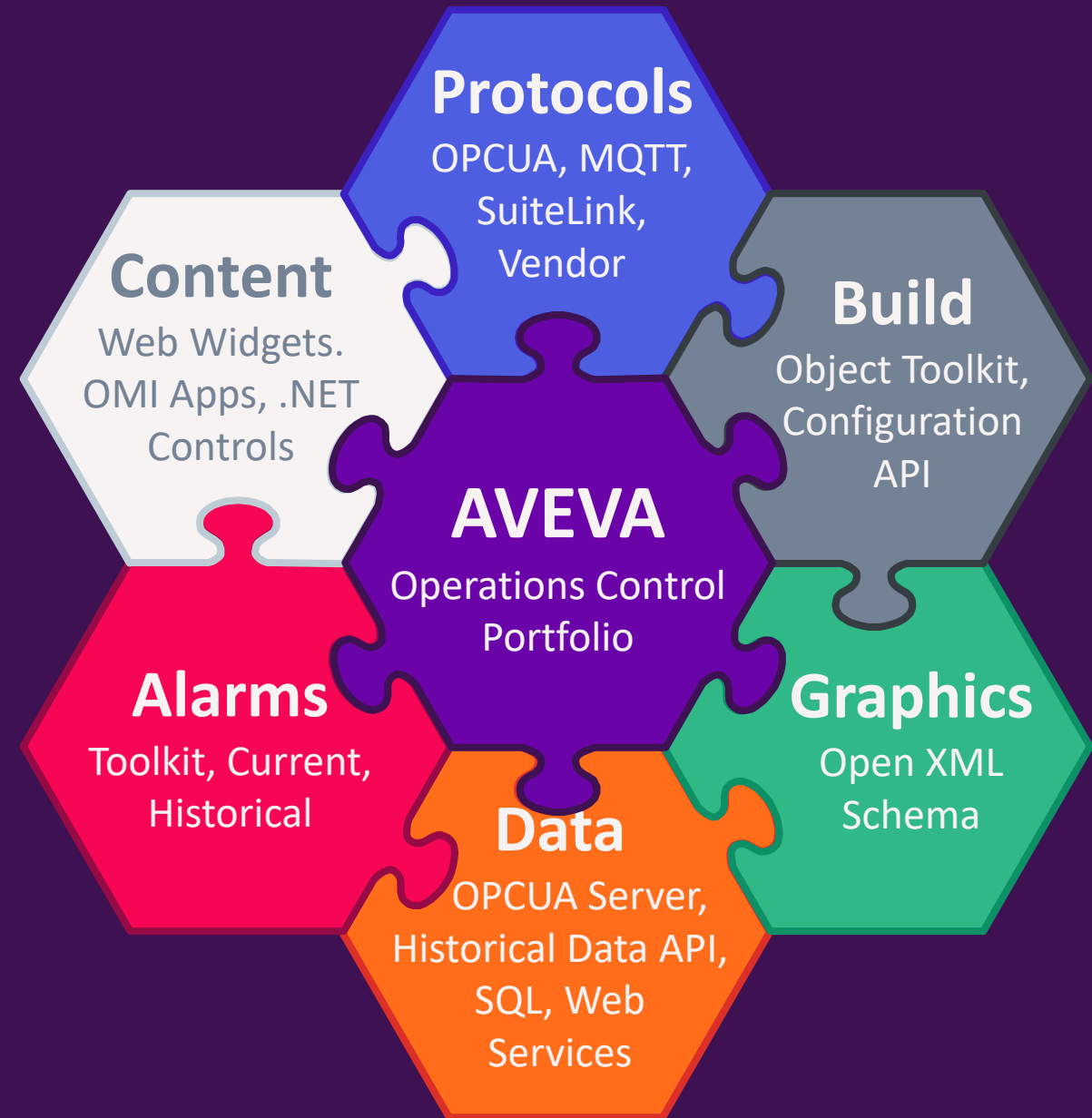
Which visualization style best allows analysis and comparison across multiple...



# Communications

## AVEVA Communications Drivers

- The AVEVA Operations Control Portfolio has a history of commitment to vendor protocols, open standards, and interoperability.
- OPC UA
  - Client – **Added Reverse Connect!**
  - Server
- MQTT
  - Subscribe to Plant Floor - Sparkplug
  - Publish to Broker – **Added SparkPlug!**
- Telemetry – **Added IEC61850!**





# Collaboration/Coordination

## AVEVA Teamwork

Key functions:

### Digital Knowledge

Scan QR codes to quickly access a standardized library of instructions, videos and troubleshooting content.

### Skills Management

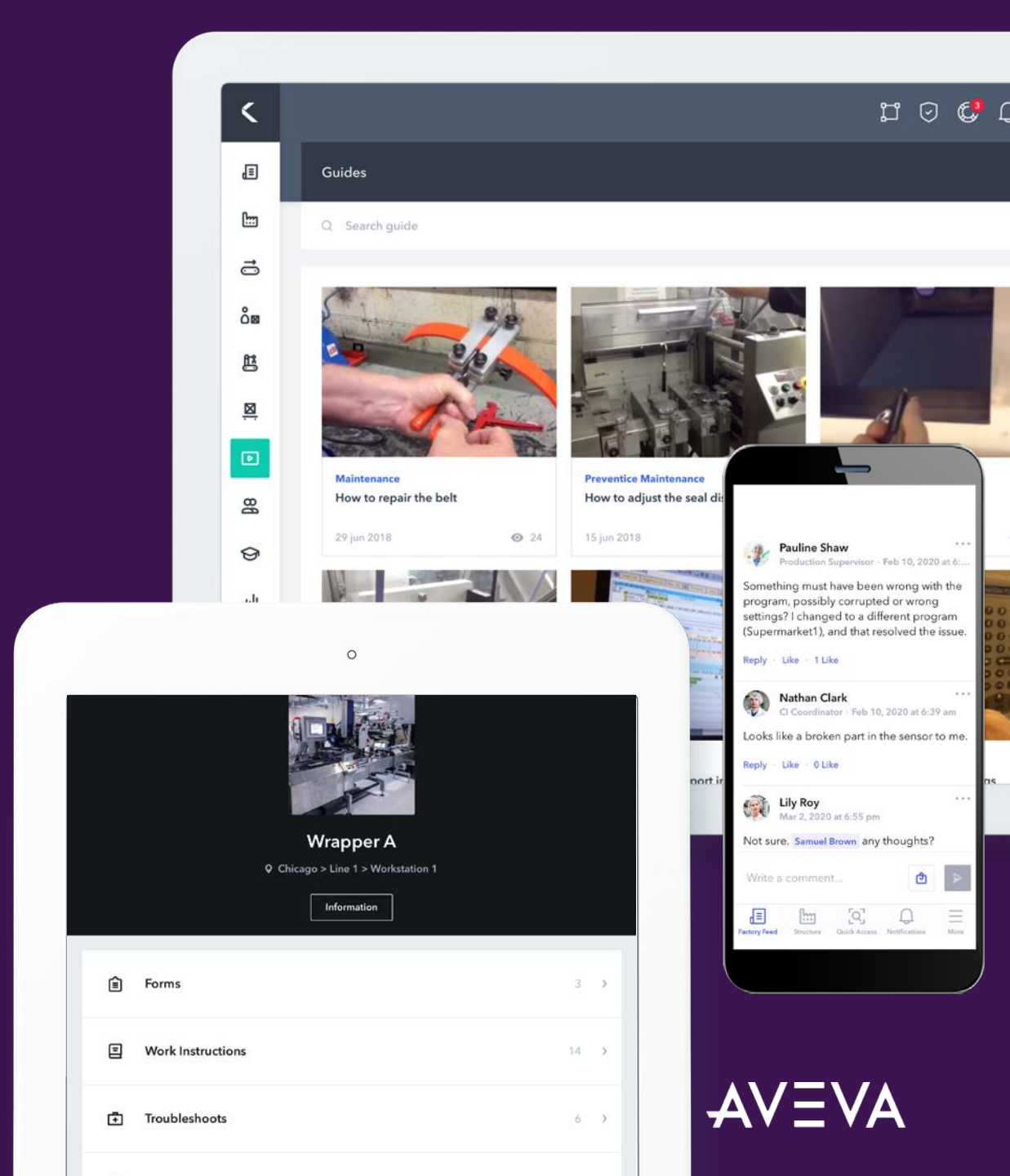
Deliver and track training for new hires, upskilling and certifications with a review pane to view pending and completed training.

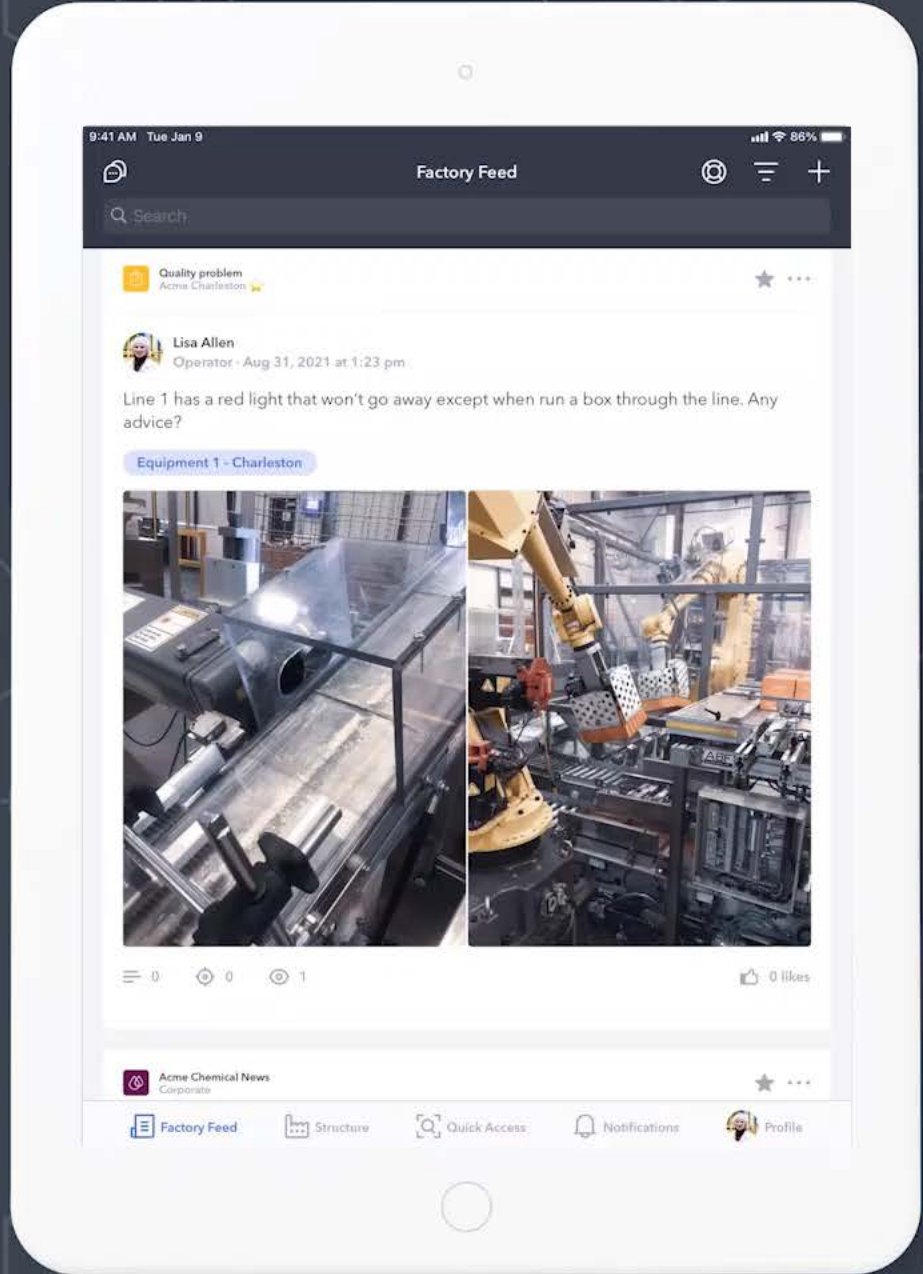
### Communication – Added Teamwork Chat!

Connect with workers across shifts and facilities to solve problems. Share insights in a logbook and continuously grow the archive of knowledge.

### Issues Management

Capture, track and resolve problems through call for help escalation and collaboration with subject matter experts.





# Reporting & Analysis

## AVEVA Historian Client AVEVA Reports for Operation

Key functions:

### Trending & Alarm Analysis – Added Adhoc Expressions!

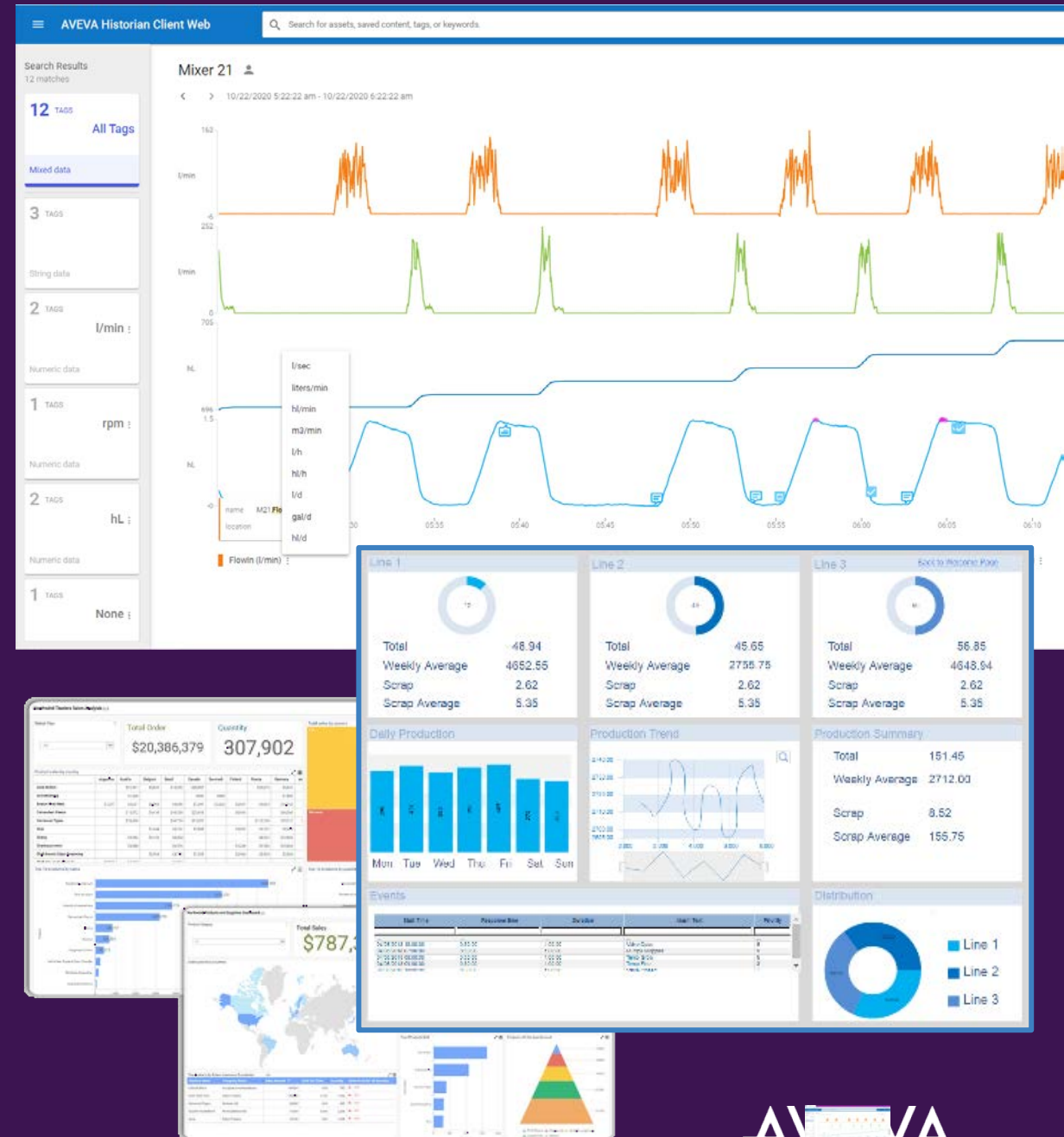
Powerful data analytics, from simple statistical summaries to error correction and cycle time analysis.

### Industrial Reports

Produce clear, professionally rendered reports for communication and analysis of real-time and transactional events.

### Live Web Dashboards

Share reports with anyone, anywhere, anytime, with an intuitive scheduling tool that simplifies distribution. Seamlessly integrate output from AVEVA Operations Control Edge, Supervisory, and Enterprise Editions.



Search Results  
3 matches

3 TAGS

All Tags

Mixed data

3 TAGS

l/sec :

Numeric data





# Organizational Empowerment

## AVEVA Insight

Key functions:

### Actionable Insights – New UI Experience!

With the rise of remote working, your teams must be empowered to make agile decisions and transform operations with quick access to actionable information.

### Increase collaboration

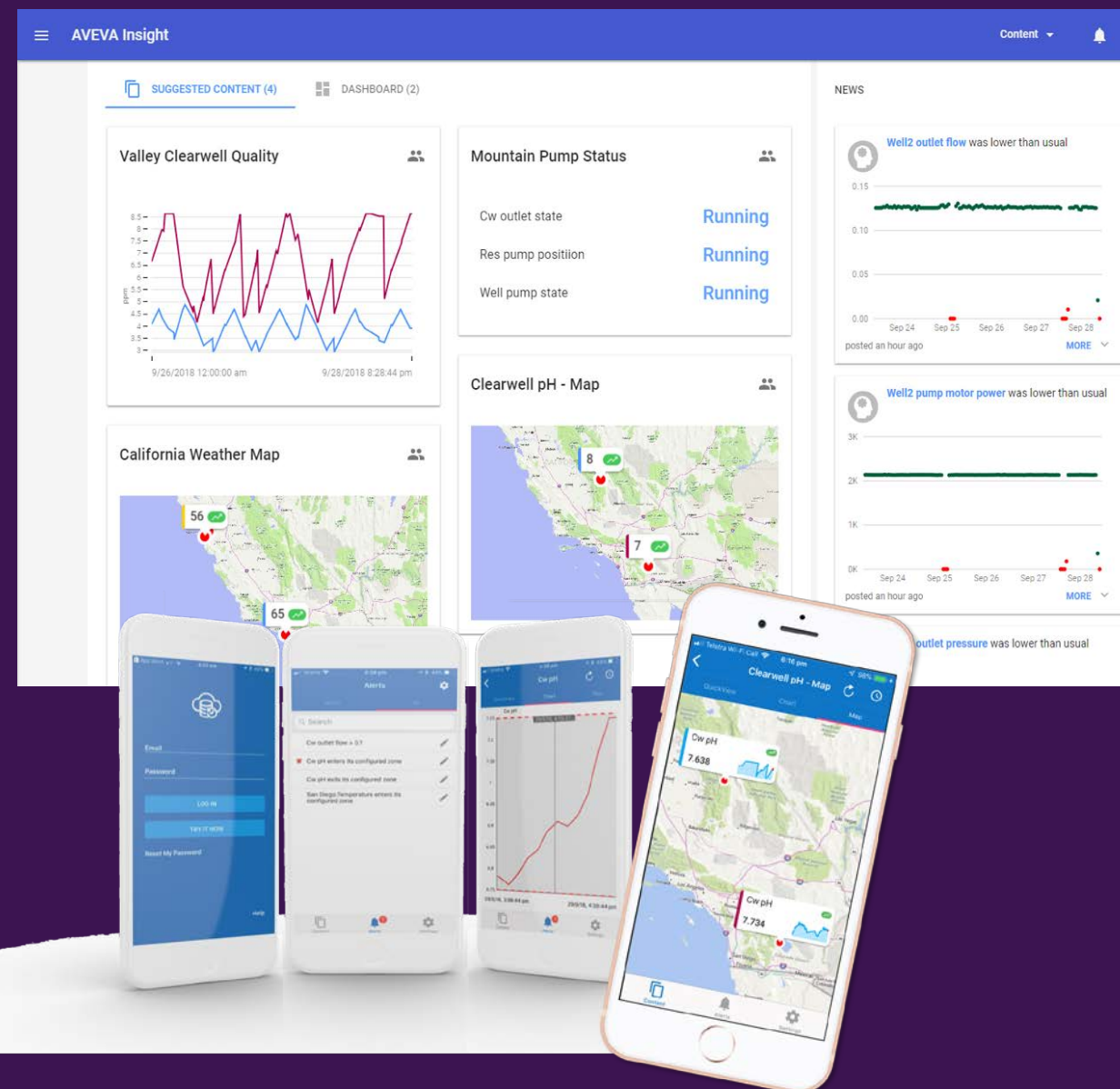
Empower the connected worker and break down silos with a single source of truth and customized alerts for better, faster decisions.

### Unlock critical data

Access contextualized data from multiple sources while automatically identifying process anomalies in a single cloud environment to gain operational insights anywhere, any time.

### Drive operational performance

Fully understand your operations with a digital twin that combines corporate and operational KPIs to discover efficiency gains.





# New Experience UI?



# Management and Monitoring

## AVEVA Development Studio

## AVEVA System Monitor

Key functions:

### Application Generation

Common development system across the entire Operations Control portfolio. Leverage Artificial intelligence to read data sources and generate the application based on customer standards.

### Unified Standards and Asset Model

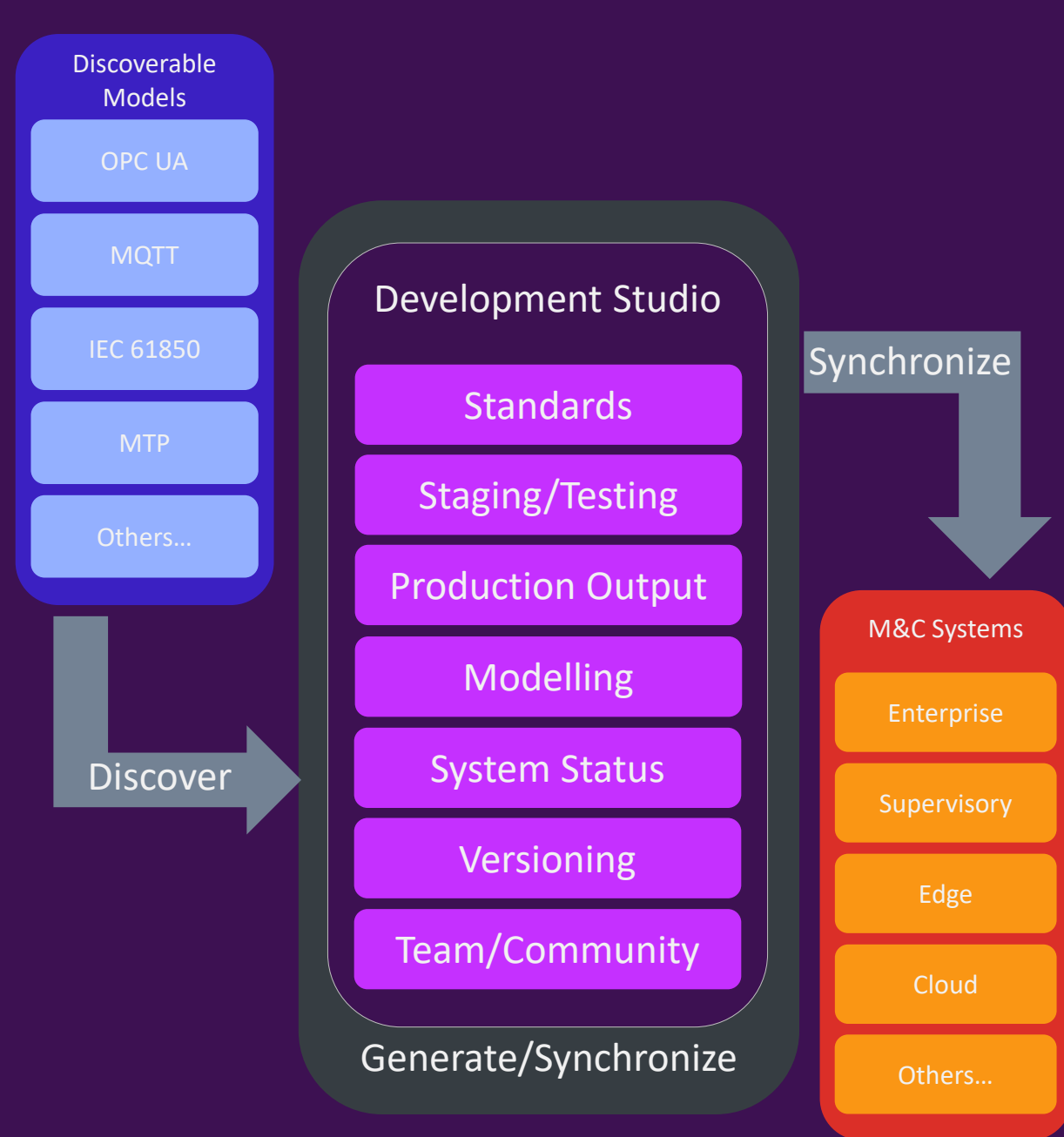
Build a single model from independent external sources and synchronize the asset model and application standards across all usages.

### Lifecycle Management - **New Entitlement Access!**

Central mechanism for managing hybrid-cloud solution including application and software creation, delivery, and revisioning.

### System and Infrastructure Monitoring


Centrally monitor all aspects of cloud, hardware and software used for the entire operational platform.



## Entitlements

AVEVA software available for download under your subscription.

Subscription: **Edge**  
Supervisory  
Manufacturing Execution Add-on

 **AVEVA Communication Drivers**


Universal connectivity suite of protocol drivers for telemetry, supervisory and IIoT applications.

[Learn more](#) [Downloads](#)

 **AVEVA Edge**


Powerful small-footprint HMI/SCADA/IIoT software for Linux, Embedded and Windows Operating System.

[Learn more](#) [Downloads](#)

 **AVEVA Historian**

High-performance process historian that ensures secure and open access to process, alarm, and event data.

[Learn more](#) [Downloads](#)

 **AVEVA InTouch HMI**

The worlds most popular, award-winning HMI software that empowers customers to achieve their quest for operational excellence.

[Learn more](#) [Downloads](#)

 **AVEVA Insight**


Self-service cloud-based analytics engine that transforms data into asset and operations insights.

[Learn more](#)

 **AVEVA Reports for Operations**


User-friendly reporting solution for Industrial Automation that makes creating and distributing reports a simple task.

[Learn more](#) [Downloads](#)

 **AVEVA System Monitor**

Real-time management utility that monitors and notifies you about the system health of your software.

[Learn more](#) [Downloads](#)

 **AVEVA Teamwork**

Cloud application for digital collaboration, issue resolution, work instructions, and skills management.

[Learn more](#)

# AVEVA Operations Control

User-centric software subscription for industrial operations, from edge to enterprise.

## Operational visibility

Gain a clear perspective into operations relative to the user's role through superior visualization applications.

## Data analysis

Drill-down through information layers and leverage tools that allow users to examine data in detail.

## Digital thread

Ensure everyone can interpret the same outcomes and remove the burden of recreating data sets and insights.



## Collaboration

Bring teams together and promote operational continuity through messages, chat and calls for help.

## Coordination & Learning

Develop skillsets and retain knowledge digitally to reduce onboarding and time away from operations.

## Vendor agnostic

Software purpose-built for industry and leveraging a wider set of AVEVA and 3<sup>rd</sup> party devices and applications.

# 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.



## Visit the Expo!


### Sessions:

- Getting the most out of the AVEVA Operations Control common components
- Deep dive into latest in AVEVA Operations Control - Edge including AVEVA InTouch HMI

# Thank you!

This presentation may include predictions, estimates, intentions, beliefs and other statements that are or may be construed as being forward-looking. While these forward-looking statements represent our current judgment on what the future holds, they are subject to risks and uncertainties that could result in actual outcomes differing materially from those projected in these statements. No statement contained herein constitutes a commitment by AVEVA to perform any particular action or to deliver any particular product or product features. Readers are cautioned not to place undue reliance on these forward-looking statements, which reflect our opinions only as of the date of this presentation.

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#### ABOUT AVEVA

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.

Learn more at [www.aveva.com](https://www.aveva.com)