

MAY 2022

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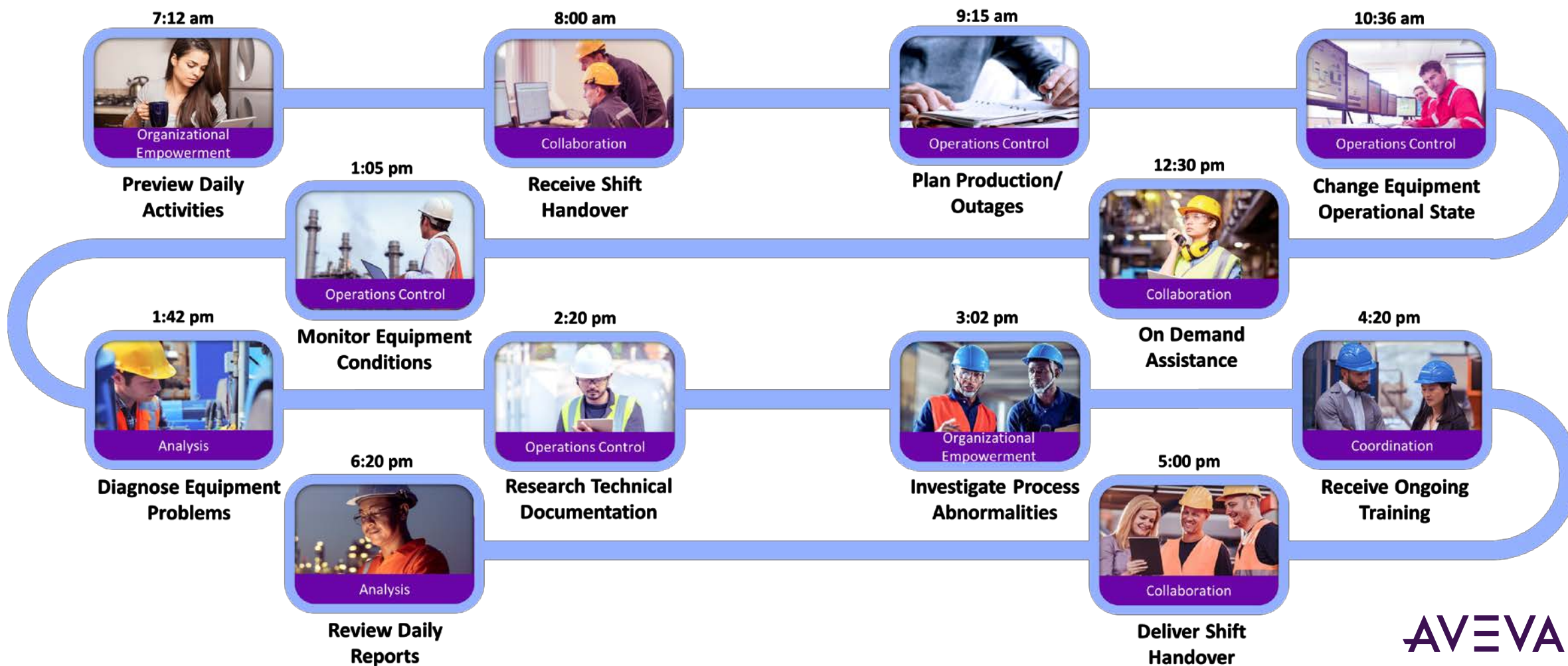
# From the Edge to Supervisory

## Operations Control Innovations and Roadmap

John Krajewski, VP Product Management

# Operations – A Day in the Life

Enabled By AVEVA Operations Control – Hybrid SaaS Solution

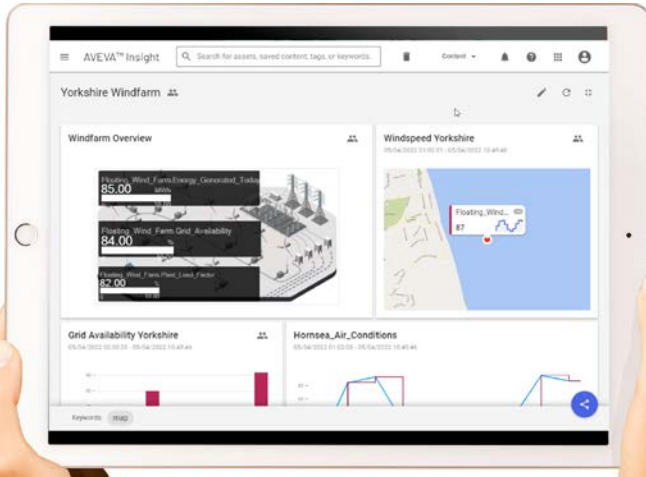


7:12 am



Organizational  
Empowerment

## Preview Daily Activities



8:00 am

Preview your daily activities with remote access to operational data, process visualization, dashboards and detected anomalies that empower you to be prepared to hit the ground running.



Operations Control

## Monitor Equipment Conditions

2:20 pm





8:00 am



Collaboration

**Receive Shift Handover**

9:15 am

Receive shift handover to easily get up to speed on open activities and ensure continuity in operations across shift changes.

**Plan Production/ Outages**

12:30 pm

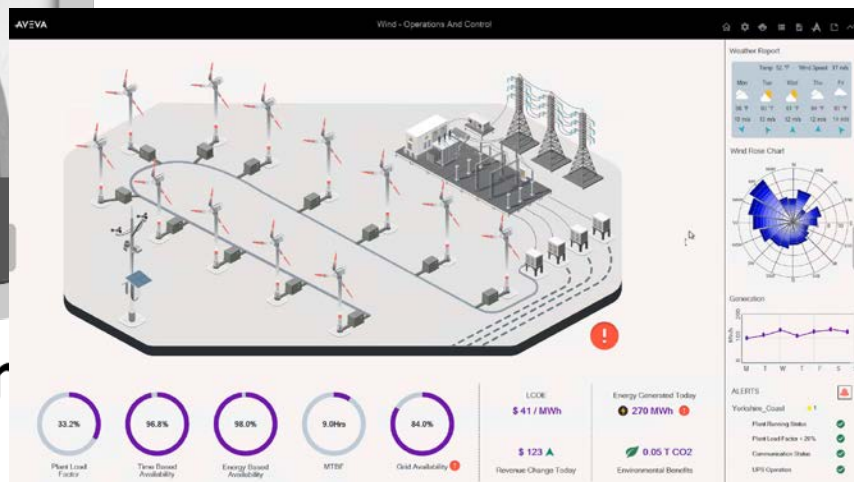


Collaboration

3:02 pm

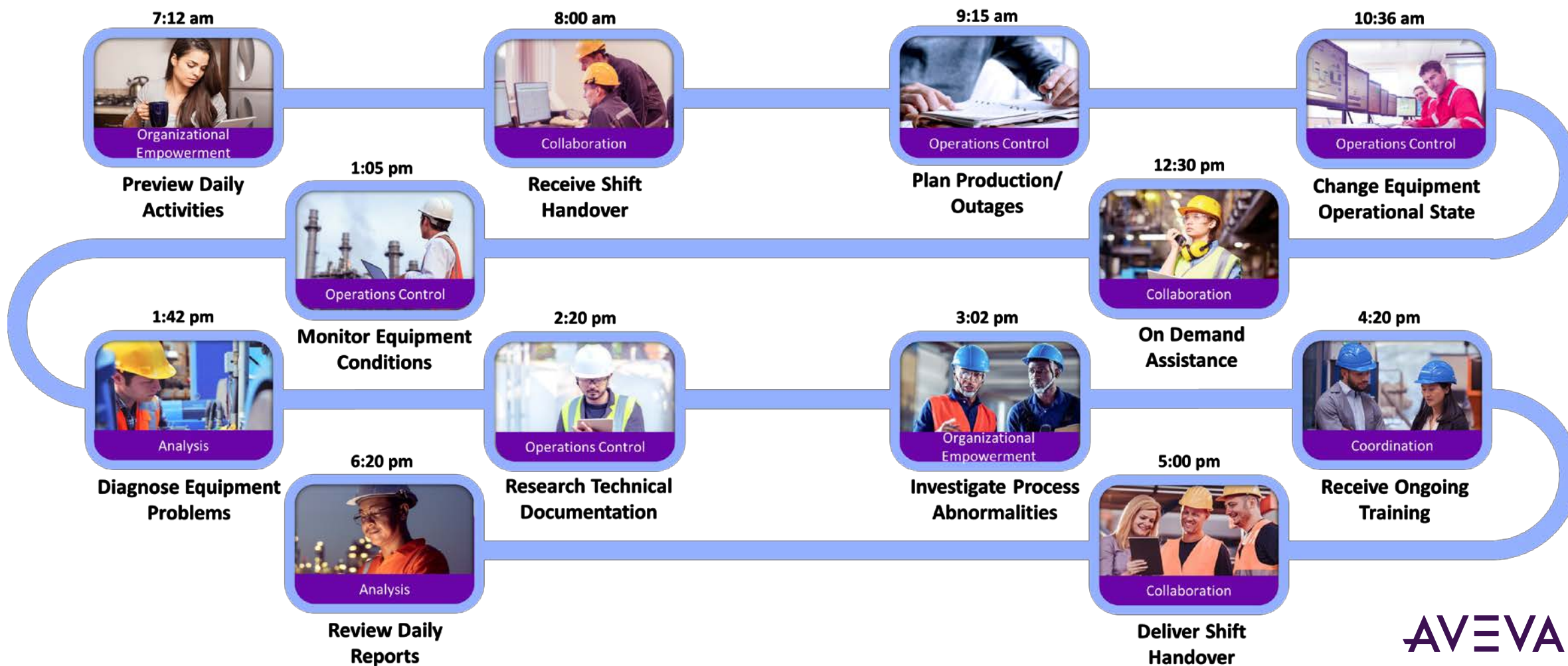


**On Demand Assistance**



# Operations – A Day in the Life

Enabled By AVEVA Operations Control – Hybrid SaaS Solution



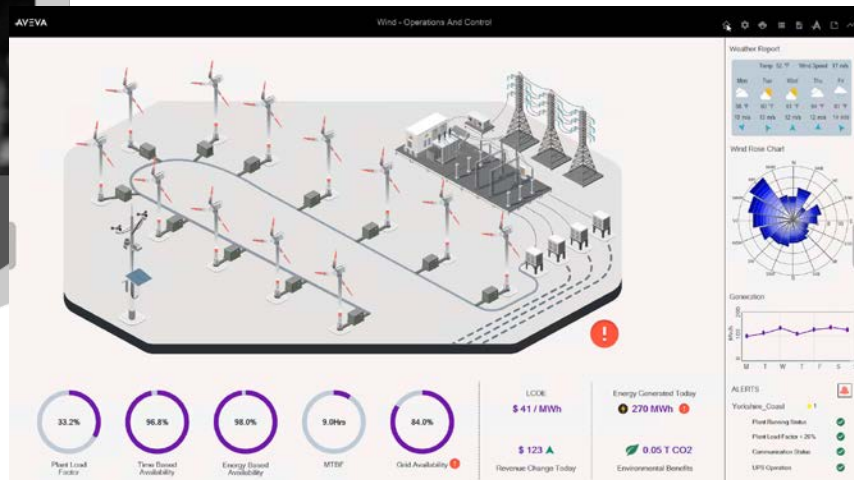
10:36 am



Operations Control

## Change Equipment Operational State

Safely and securely adjust the operational state of your process to achieve the goals of your production plan while maintaining optimal situational awareness.



12:30 pm

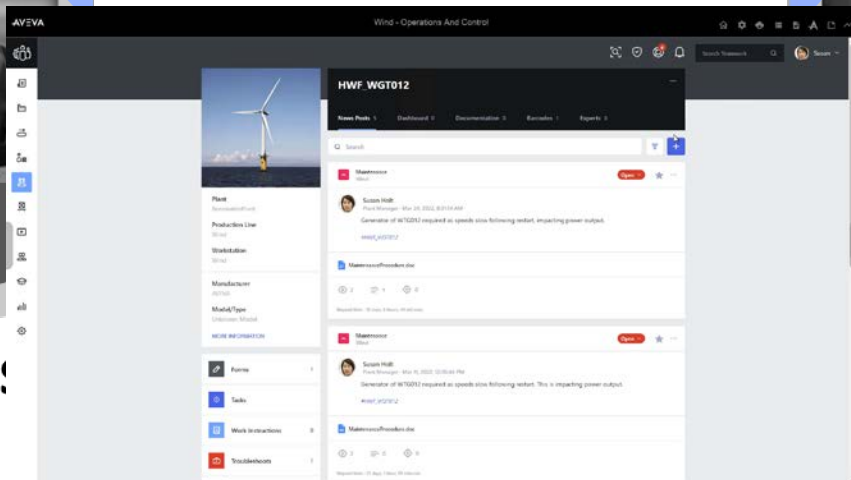


Collaboration

**Change Equipment  
Operational State**

When an unexpected situation arises, easily engage and collaborate with your team to address issues quickly and digitize the knowledge to ensure all staff are prepared for similar situations in the future.

**On Demand  
Assistance**



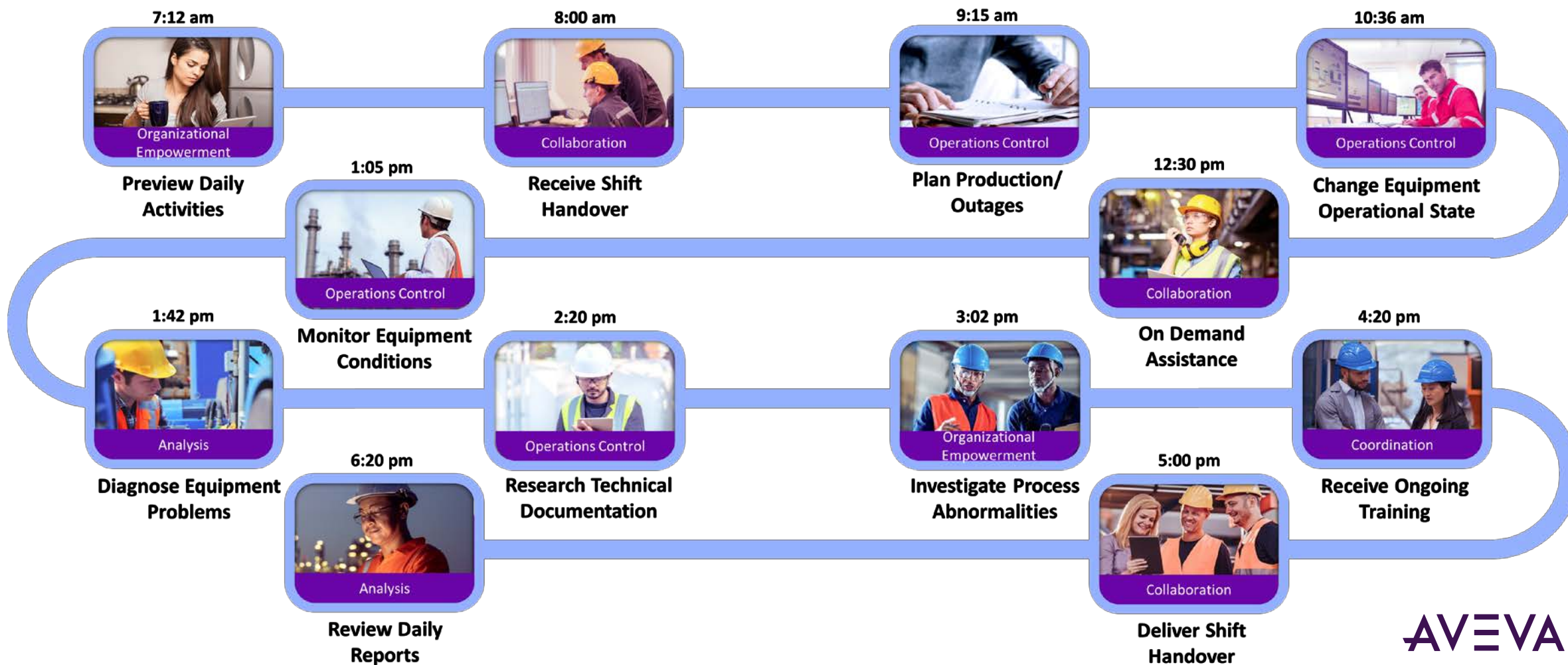
Coordination

**Receive Ongoing  
Training**



# Operations – A Day in the Life

Enabled By AVEVA Operations Control – Hybrid SaaS Solution





Operations Control

Organiz  
Empow

6:20 pm



Analysis

Research Technical  
Documentation

Investiga  
Abnor

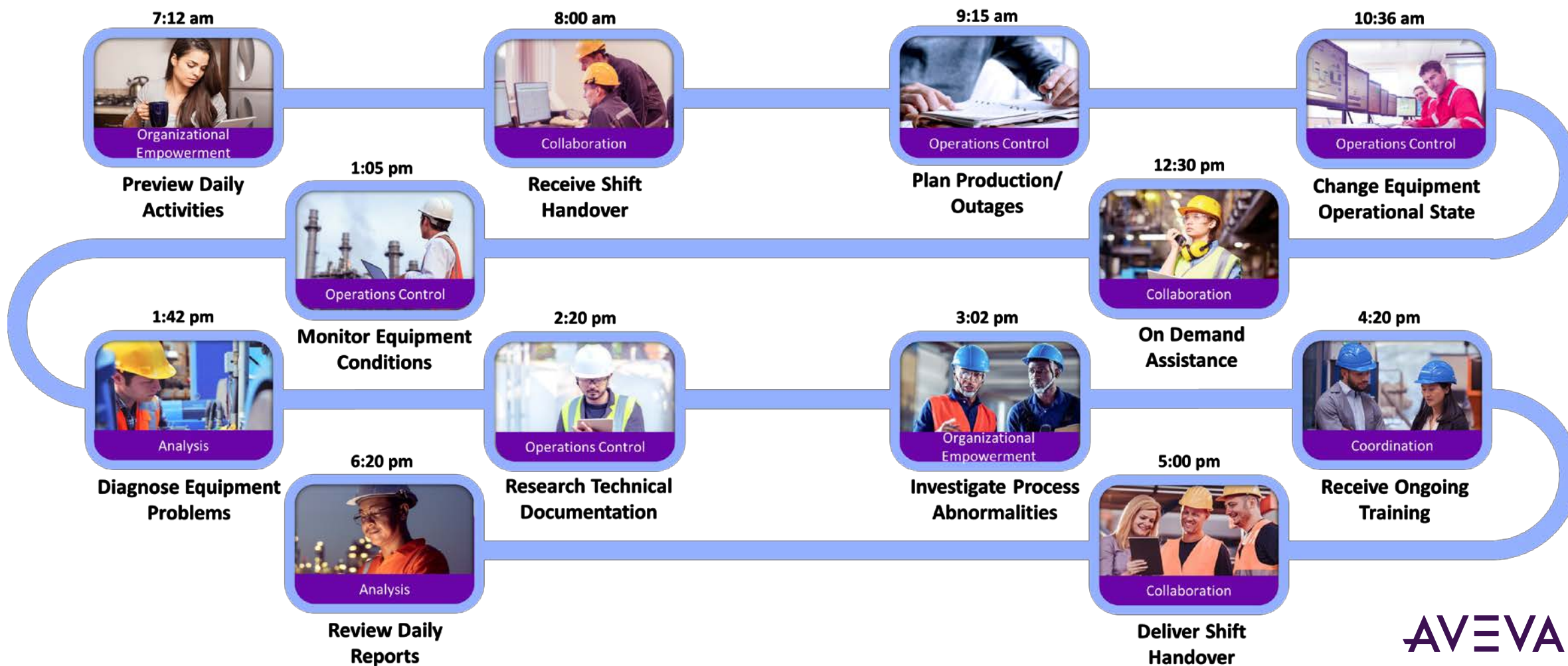
At the conclusion of the shift generate reports automatically to quickly facilitate a review of the outcomes for the shift.

## Review Daily Reports



# Operations – A Day in the Life

Enabled By AVEVA Operations Control – Hybrid SaaS Solution





# AVEVA Operations Control

A comprehensive solution for accessing information and functionality from across AVEVA's broad range of proven applications

- Process, Supervisory and Enterprise Visualization
- Device communication
- Production reporting
- Data analysis
- Team collaboration
- System management
- Workflow
- Manufacturing execution
- Recipe management
- Discrete execution

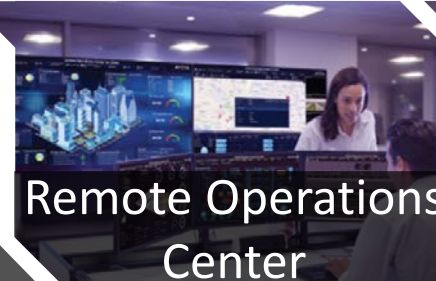


# AVEVA Operations Control

## Evolving HMI/SCADA to Operations Control

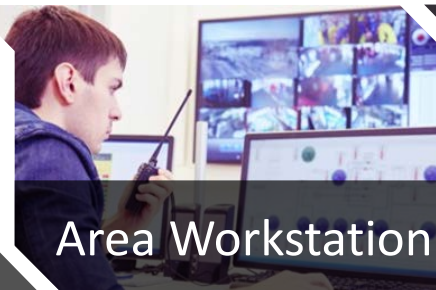
### Enterprise Edition

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



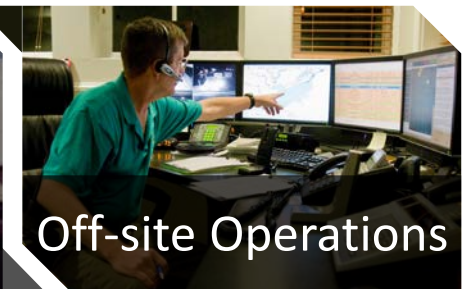
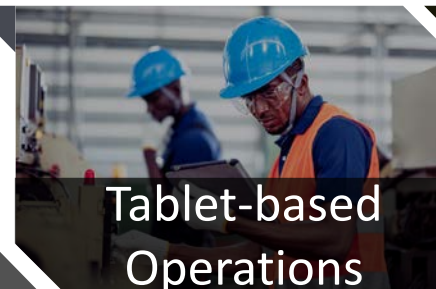
### Supervisory Edition

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

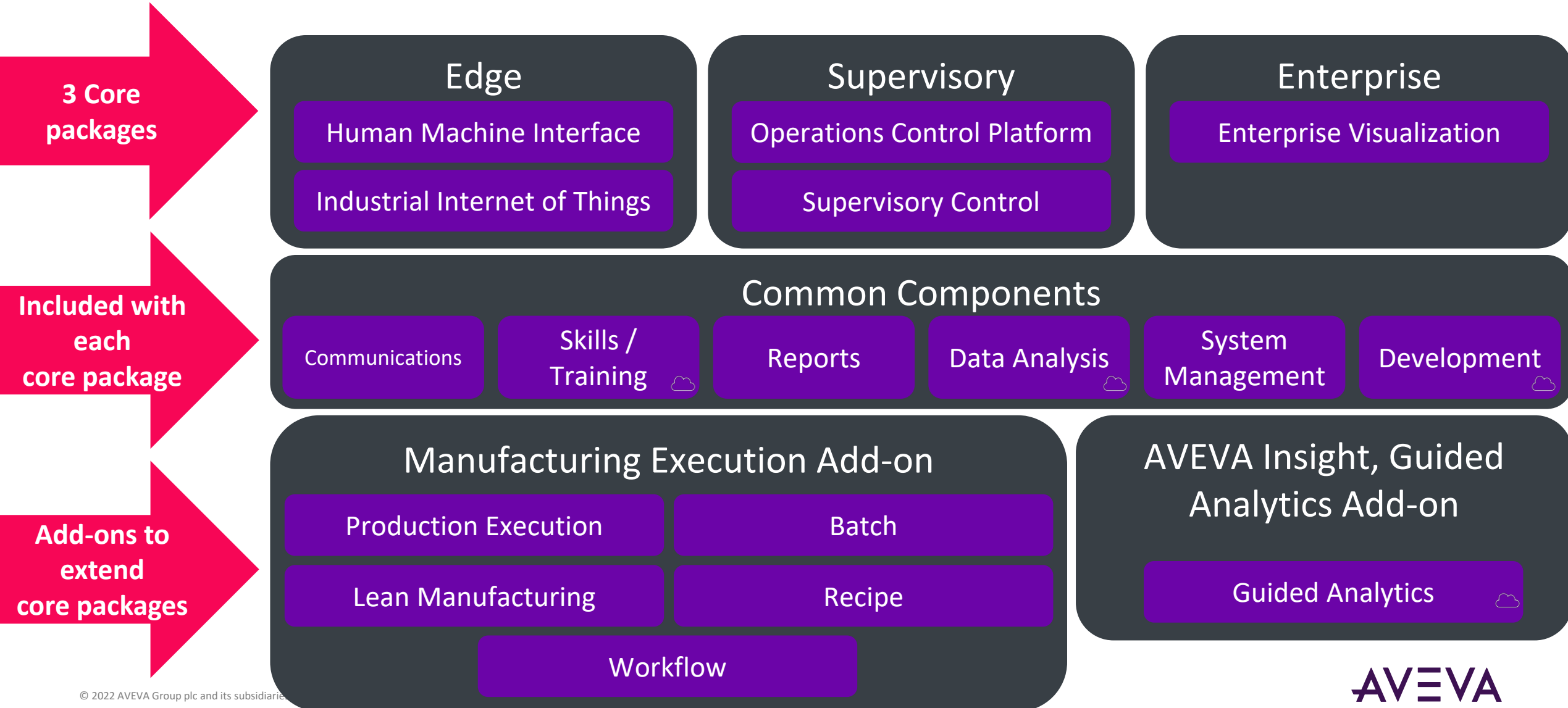


### Edge Edition

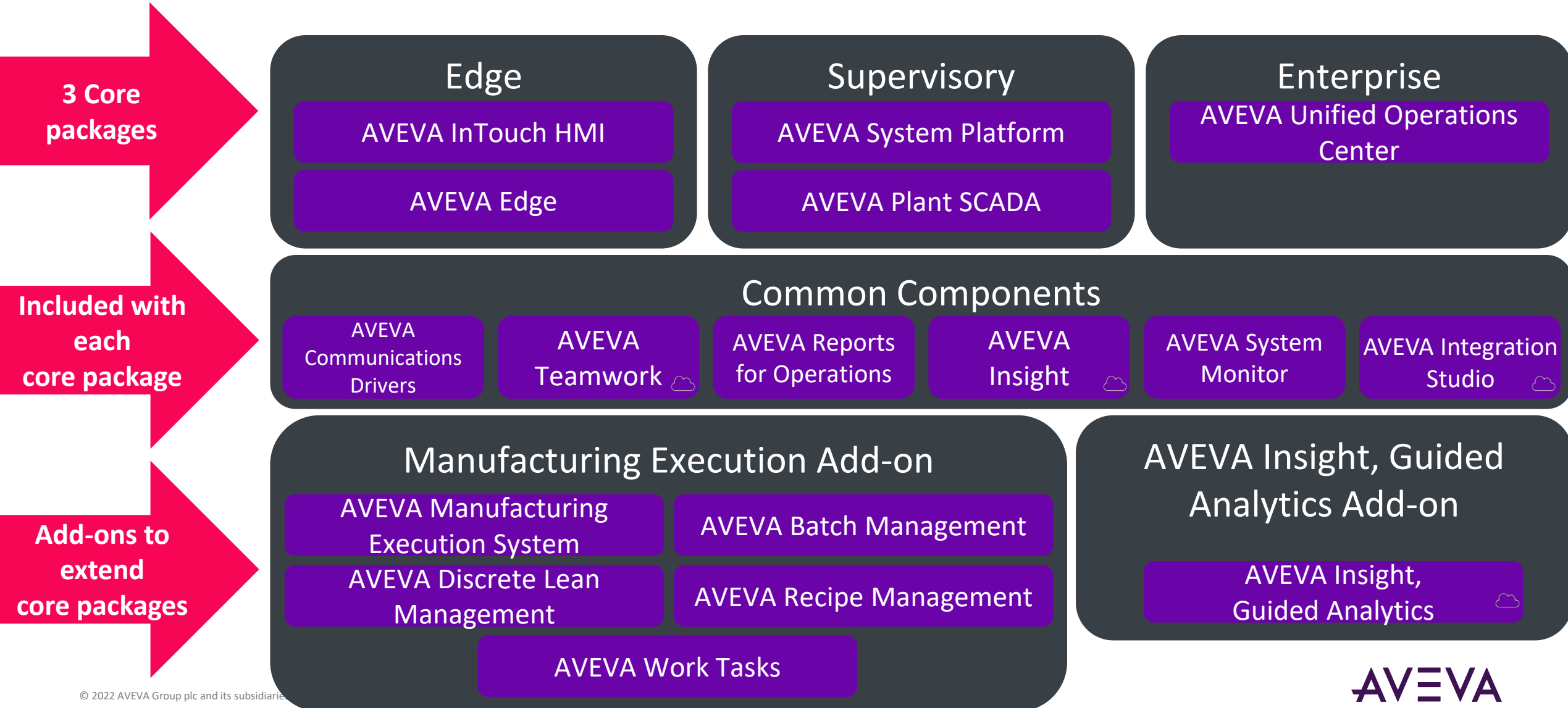
Short Term Focus  
(up to 1 Shift)  
Work Cell View  
Control Convergence



# AVEVA Operations Control – an AVEVA Flex Subscription



# AVEVA Operations Control – an AVEVA Flex Subscription





# Global Spirits and Wine Producer

8.6M cases per year globally exported to over 130 markets around the world

- **Primary goal:** Increase throughput in the main bottling hall by 5%+
- **Enterprise vision:** One version of the truth, easily accessed by operator, management, and planning.
- **Digital transformation:** Move to a hybrid environment, removal of architectural limitations, increased operator efficiency, significant production and process improvements.
- **Design agility:** Maximize re-usable content and applications, protection of IP and investment.
- **Commercial simplicity:** Significant reduction in upfront costs and capital expenditure, known fixed costs over a 5-year period.



# Major Minerals Supplier

International provider of lime, limestone and clay products from over 100 facilities located in 25 countries.

- **Desired outcomes:** Visibility and timeliness of critical business KPIs. Address their changing workforce, shift performance and knowledge retention challenges.
- **Compelling value:** Audit indicated excessive deployment and unsustainable software practices that would result in significant costs if left unresolved.
- **Transformational activity:** Continuous Improvement led transition in being more agile and prepared for current and future uncertainties.
- **Software management:** Plans to modernize software investment approach and implement better tools that deliver business value. Begin treating software as a long-term asset to maintain and evolve.
- **Subscription path:** Provides a flexible collection of software assets they can deploy as required, with the ability to adjust usage over time.



AVEVA  
SELECT | CENTRAL

AVEVA



# What's Next?

**AVEVA**



# AVEVA Operations Control 2023

General Availability: Q3 CY2022



# AVEVA Operations Control - Enterprise Edition

Shift towards a cloud-native framework

Available

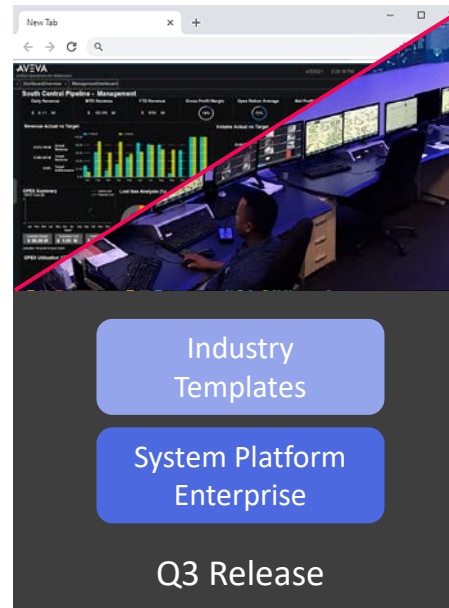
2022 Q3

UOC Industry  
Templates

System Platform

Unified Operations Center

- Single instance
- On-premises desktop application
- Physical location (Room/Center)
- OT or IT network
- Industry templates recommended



- Single instance
- On-premises browser application
- Limited local network mobility
- OT or IT network
- Industry templates recommended
- Initiate Workspaces – Citizen Dev “PI Vision”

System  
Platform  
Enterprise

OMI Web  
Client

PI Vision /  
Power BI  
Integration

Web  
Widget  
Pack



Total Generation(YTD)



Solar	5	(23%)
Wind	8	(36%)
Non-Renewables	7	(32%)
Others	2	(9%)

Solar

Yesterday  
24.7 GWh



Wind

Yesterday  
36.8 GWh



Non Renewable

Yesterday  
29 GWh



OPERATION



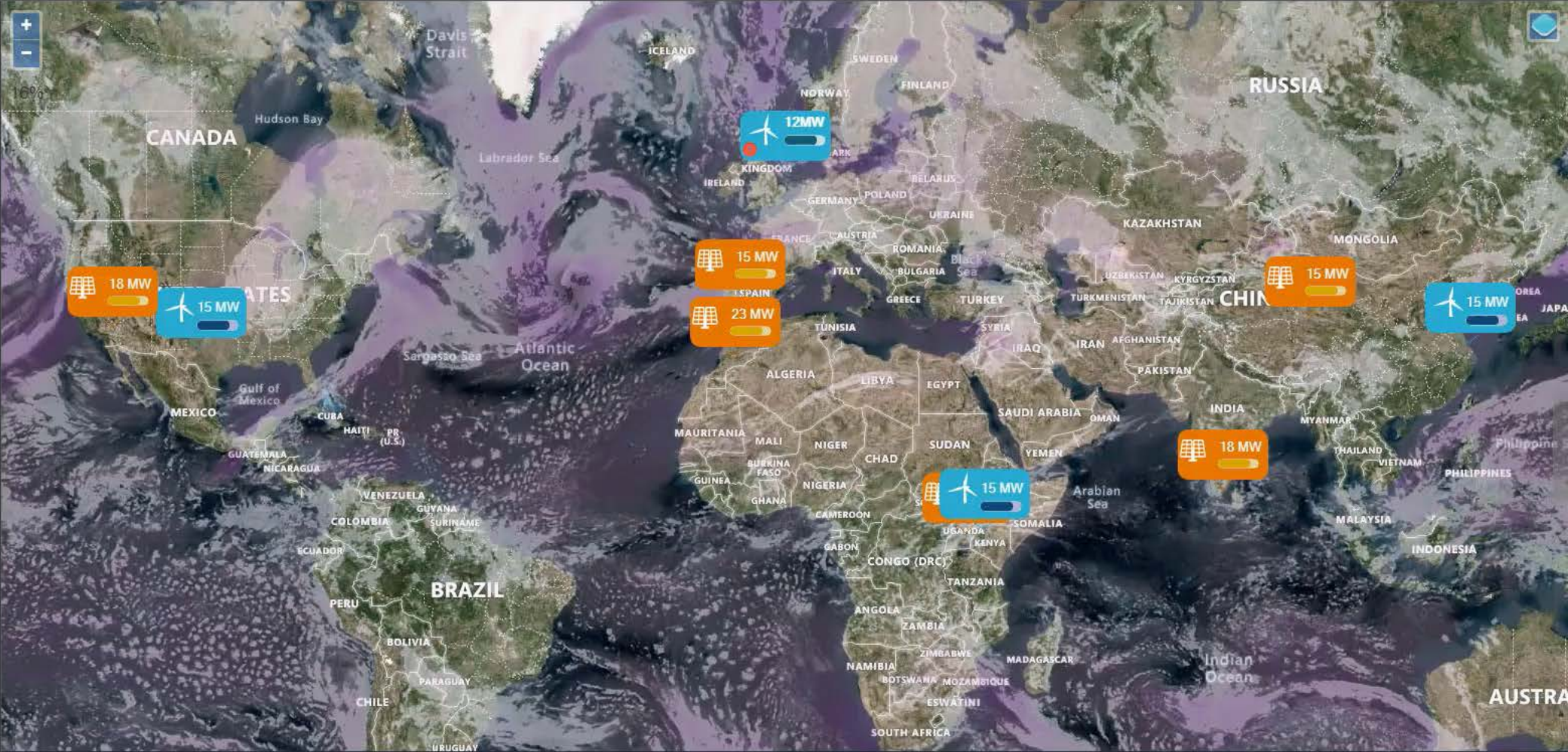
REVENUE



FORECAST



MAINTENANCE



North America

2.94 TWh



Africa

3.99 TWh



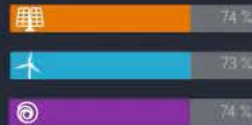
Europe

2.94 TWh



Australia

1.89 TWh



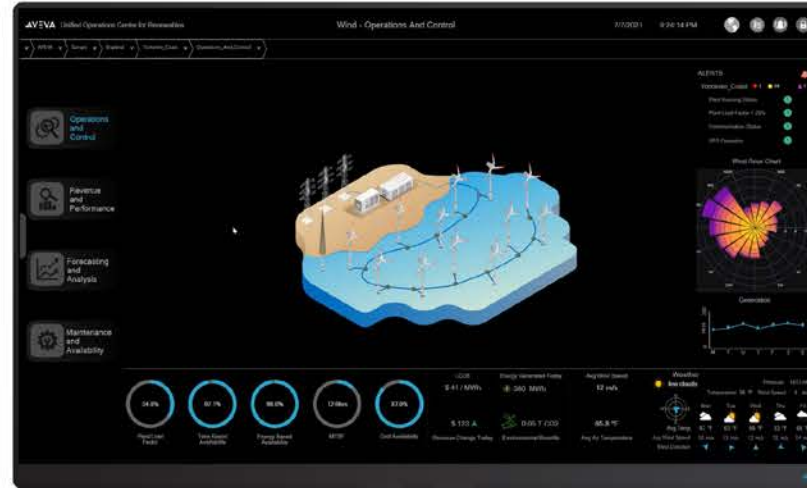
Asia Pacific

3.99 TWh



Actual vs Target





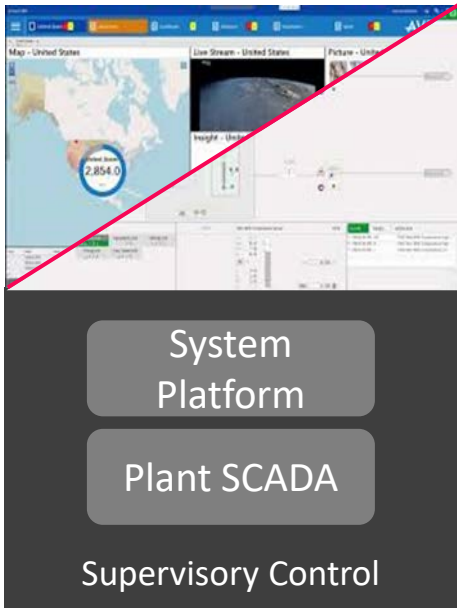
Join the *Enterprise Visualization* session later today to learn more about AVEVA Unified Operations Center and its roadmap

# AVEVA Operations Control - Supervisory Edition

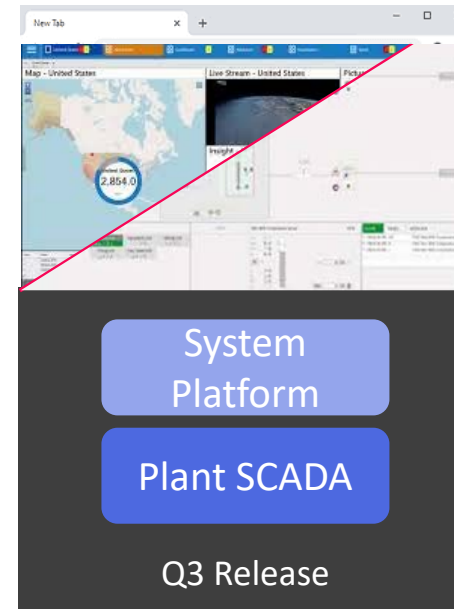
## Innovation and Modernization

Available

2022 Q3



- Multiple Offers – AVEVA System Platform and AVEVA Plant SCADA
- AVEVA Operations Management Interface Introduction
- New - Industrial Graphics available in Plant SCADA
- OMI Apps – PLC Logic Viewer, AI Vision, Graphic Repeater



- System Platform – Scalability (DEV/RT)
- System Platform IDE – Modernize UI/UX
- PI System – Historian Replication to PI Server
- MQTT Publishing – Sparkplug Spec
- OMI Apps – Grid, Vision
- AI Vision Assistant

PI System  
& Data Hub  
Integration

Modernized  
Development  
Environment

Cloud  
Integration

Extensibility:  
UA, MQTT,  
61850. &  
Apps



Recycle Bin



AVEVA OMI  
Applicati...



11:19 AM  
4/19/2022

Search Results  
3 matches

3 TAGS

All Tags

Mixed data

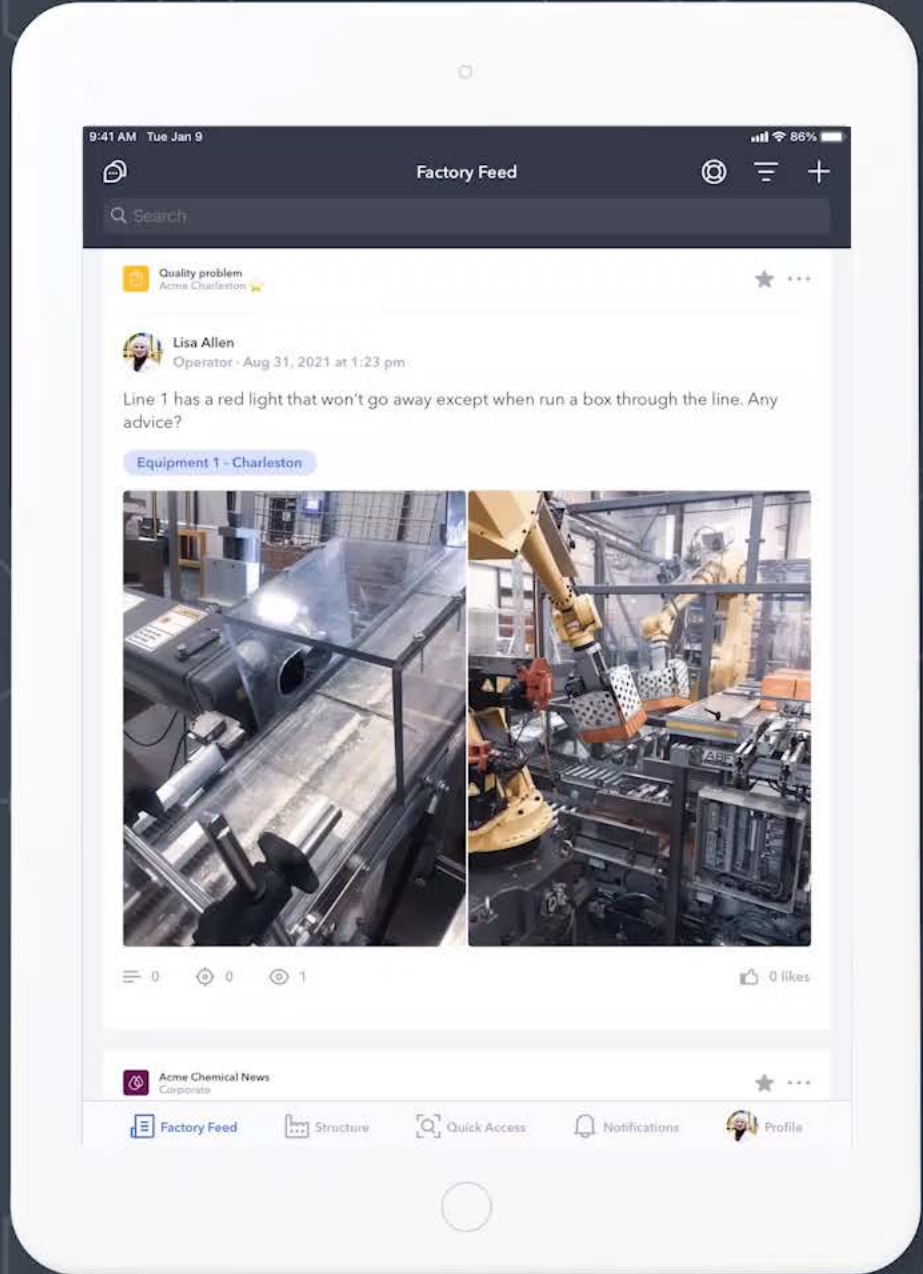
3 TAGS

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Numeric data







# AVEVA Operations Control - Edge Edition

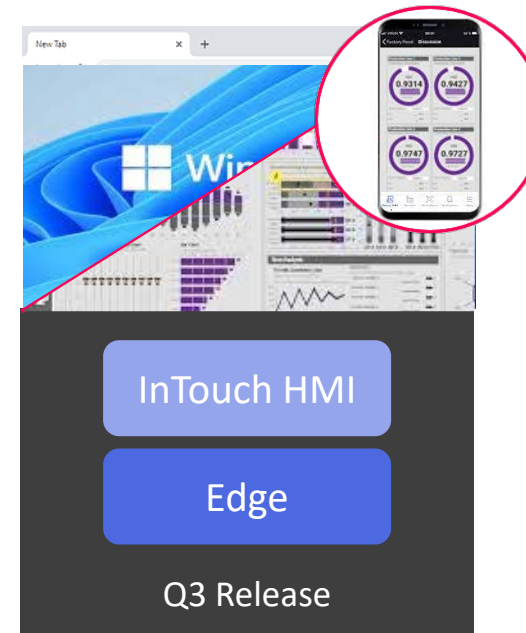
## Innovation and Convergence

Available

2022 Q3



- Multiple Offers – AVEVA Edge and AVEVA InTouch HMI
- Initiated Web
- Initiated Linux
- Initiated Mobile
- Initiated Industrial Graphic Adoption



- Web Client Adoption Enablers
- Unlimited Tags – New Tag Dictionary
- Common Mobile Application
- Advance Linux Runtime & Drivers
- Advance Web Runtime/Responsive
- Industrial Graphics - Windows

InTouch:  
Enhanced  
Web /  
Mobile

InTouch:  
Modernized  
Development  
Environment

InTouch:  
Unlimited  
Tag  
Support

Edge:  
Python  
Script  
Support

File View Tools Help

+ New

Delete Rename Properties... Change thumbnail

Duplicate Open folder

Application

WindowMaker WindowViewer

Main

DBLoad DBDump

Data

Import Export

Import

Refresh

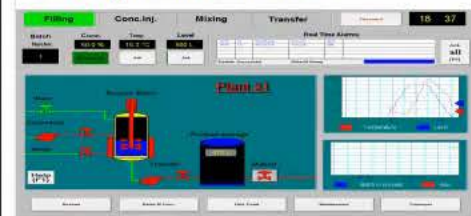
View

InTouch

OMI

Web Client

Demo Application 1280 x 1024



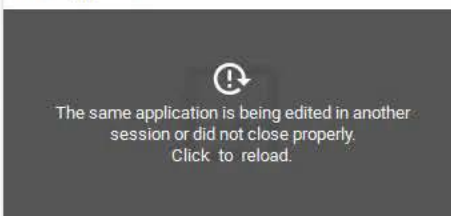
Standalone 1280 x 1024

InTouch Introductory Demo 1080p



Standalone 1920 x 1080

NewApp\_001



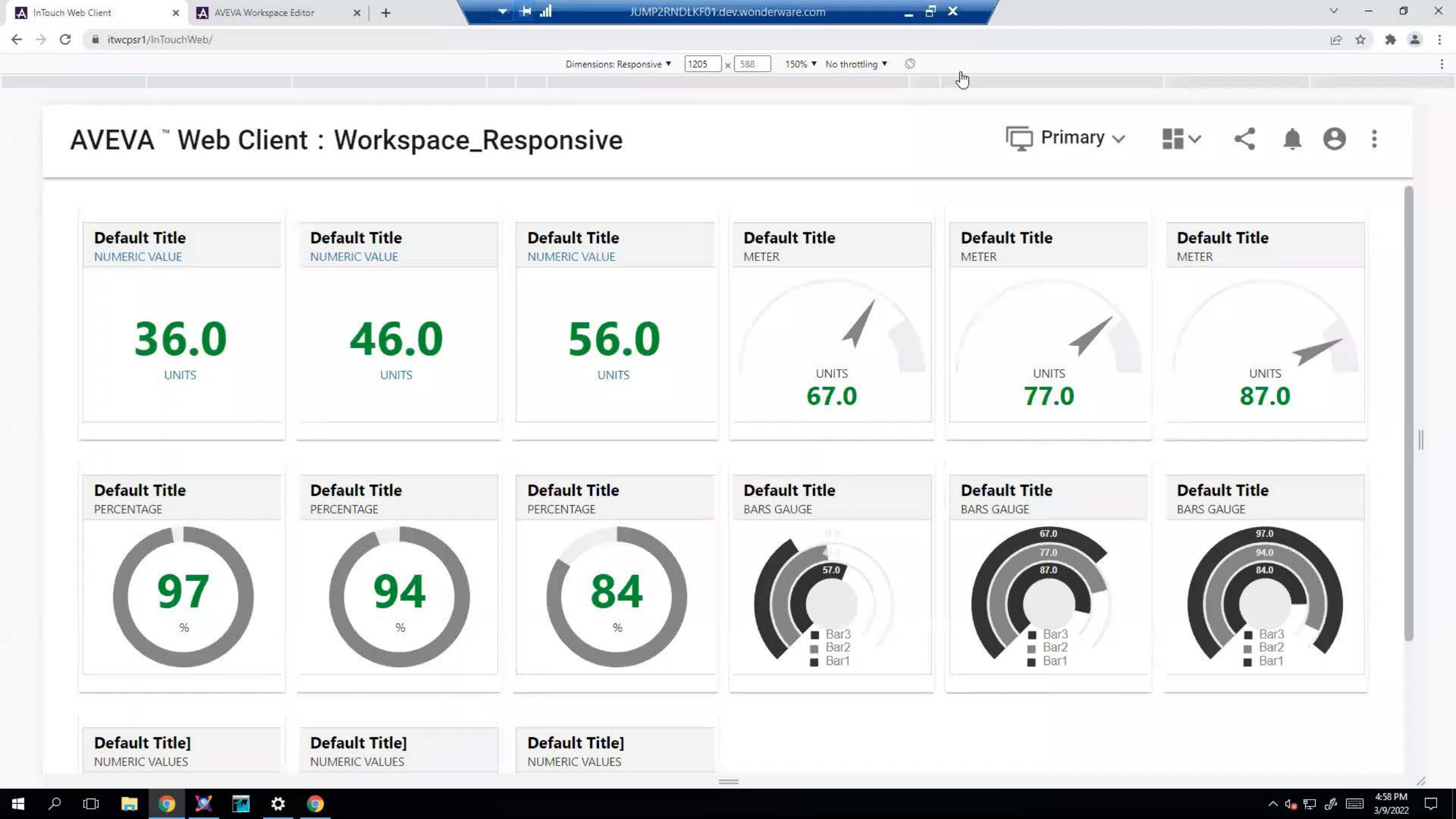
Standalone 1920 x 1080

NewApp\_002



Standalone 0 x 0

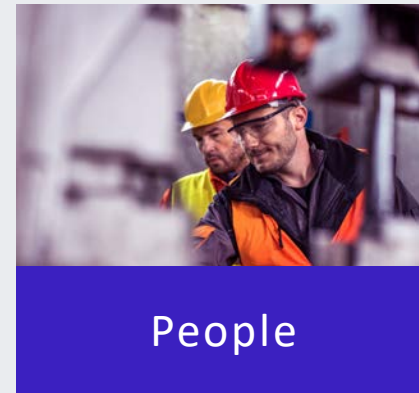






# HMI/SCADA to Operations Control

Comprehensive and best-of-breed solutions delivering proven results



**Evolve HMI/SCADA to Operations Control with collaboration, connected worker, and awareness**


**Converge engineering, operations, and business data in context for end-to-end enterprise visibility**


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#### ABOUT AVEVA

AVEVA is a global leader in industrial software, driving digital transformation and sustainability. By connecting the power of information and artificial intelligence with human insight, AVEVA enables teams to use their data to unlock new value. We call this Performance Intelligence. AVEVA's comprehensive portfolio enables more than 20,000 industrial enterprises to engineer smarter, operate better and drive sustainable efficiency. AVEVA supports customers through a trusted ecosystem that includes 5,500 partners and 5,700 certified developers around the world. The company is headquartered in Cambridge, UK, with over 6,500 employees and 90 offices in over 40 countries.

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