

NOVEMBER 2022

AVEVA™ Operations Control - Supervisory

Gain full visibility from your control room

Ernst van Wyk

Nathan Slider

AVEVA



Ernst van Wyk

Product Manager – System Platform & OMI

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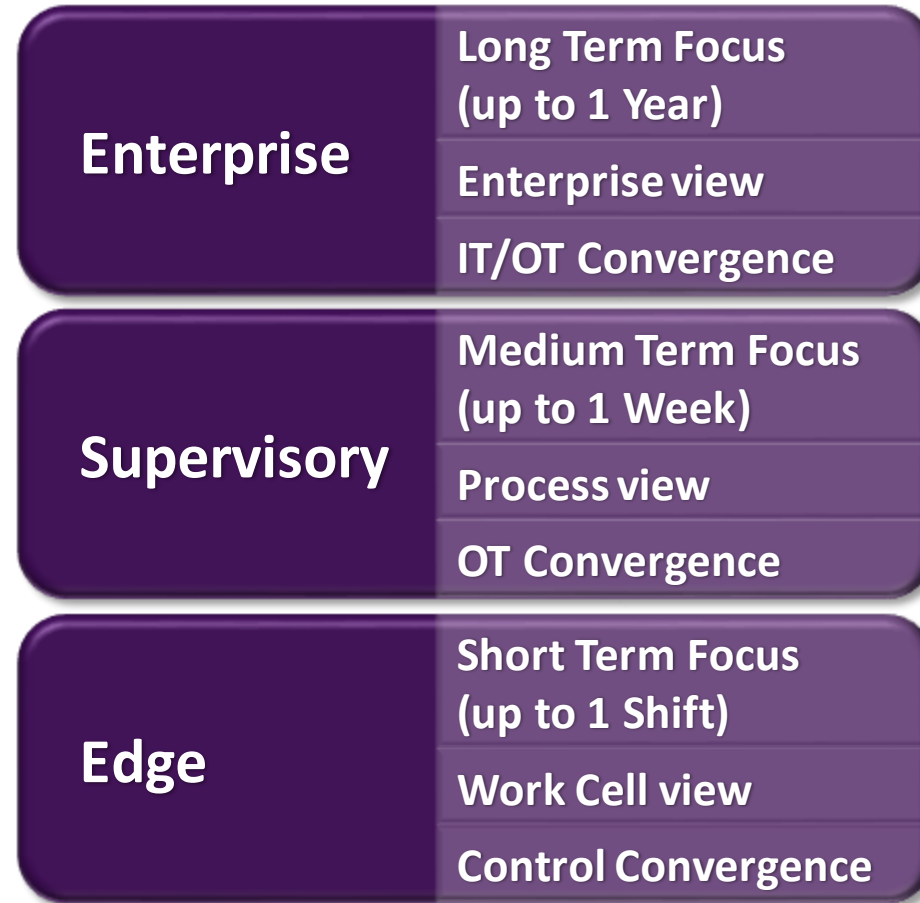


Nathan Slider

Product Manager – Plant SCADA

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- Nathan.Slider@AVEVA.com

AVEVA Operations Control



AVEVA Operations Control

Information (IT)

Enterprise

Long Term Focus
(up to 1 Year)

Enterprise view

IT/OT Convergence



Command Center



Remote Operations Center



Casual User

IT/OT Firewall

Supervisory

Medium Term Focus
(up to 1 Week)

Process view

OT Convergence



Control Room



Area Workstation



Mobile Supervisor

Edge

Short Term Focus
(up to 1 Shift)

Work Cell view

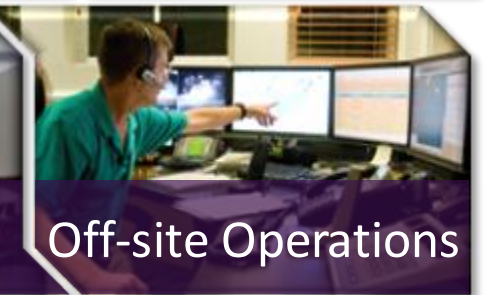
Control Convergence



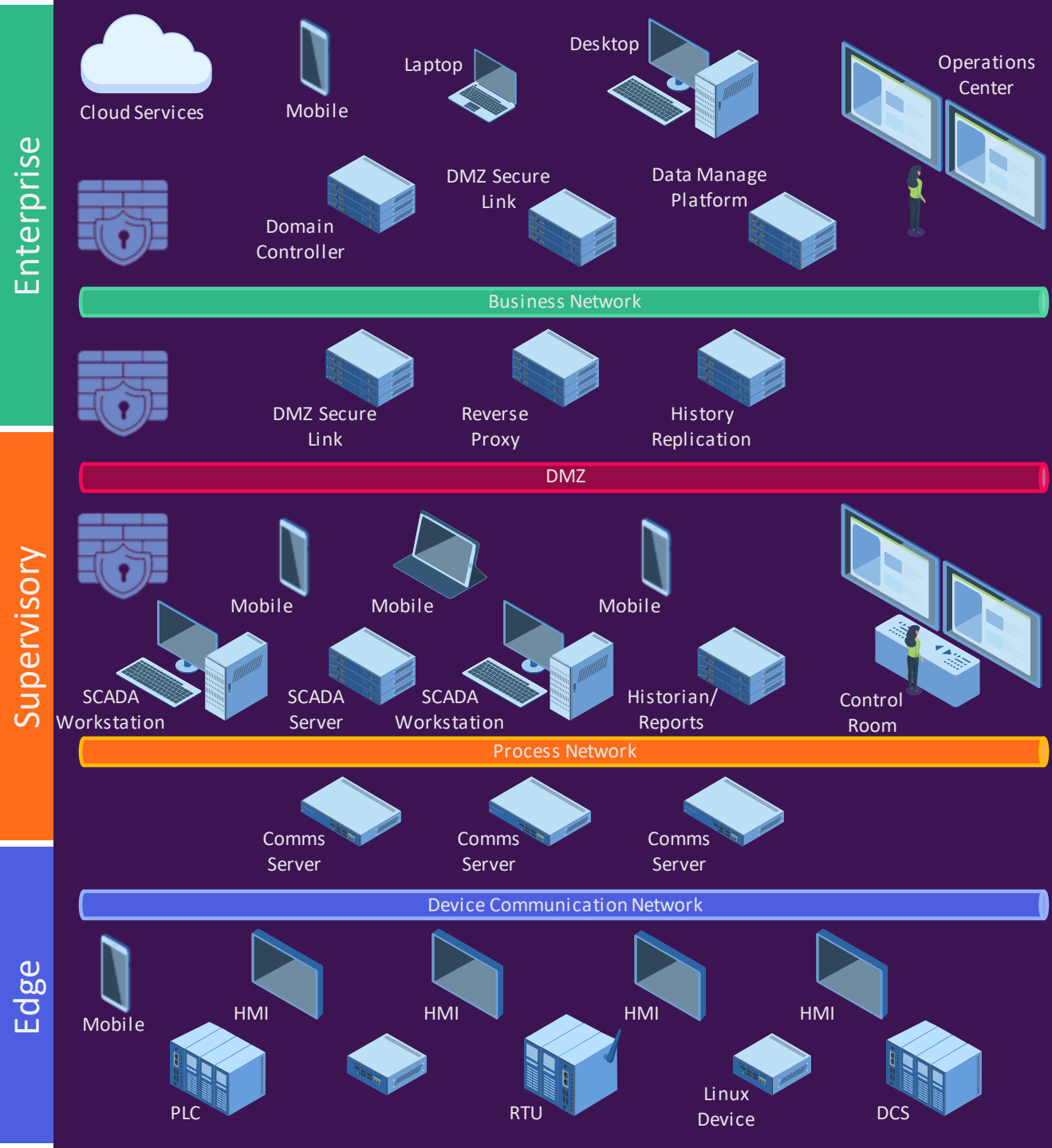
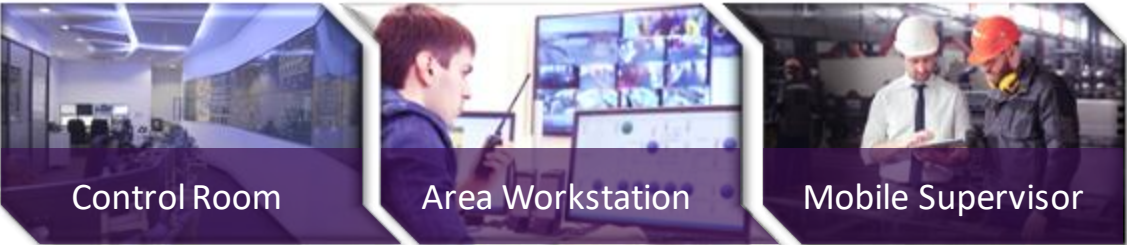
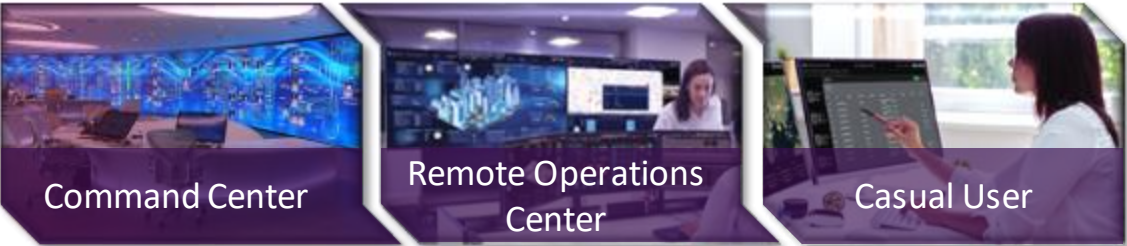
Panel-based Operations

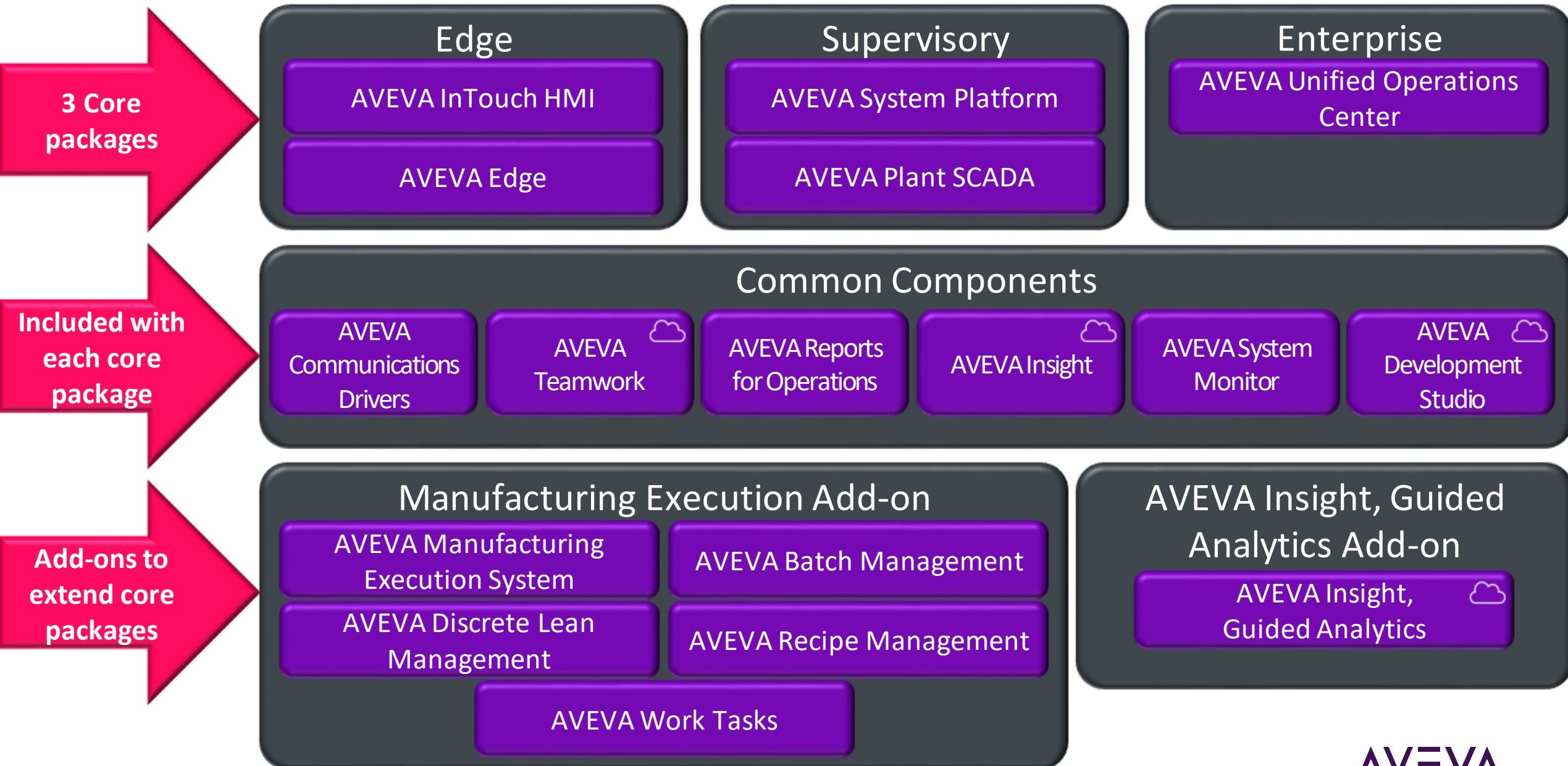


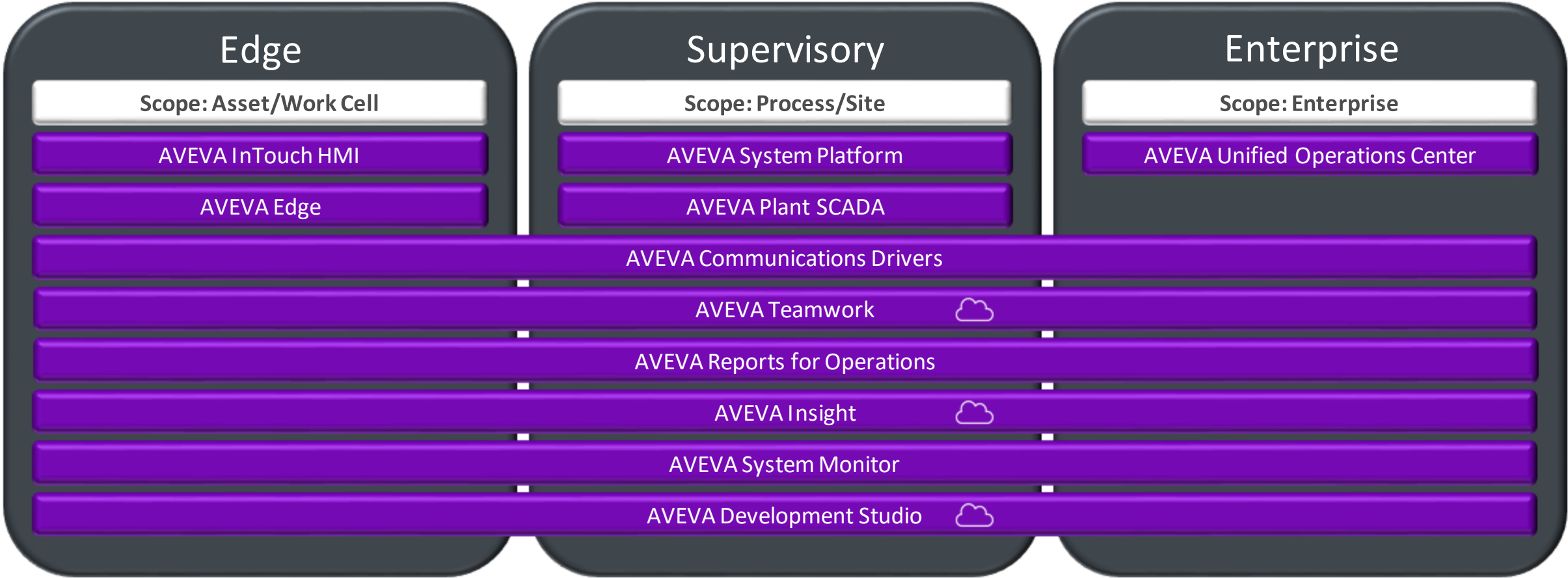
Tablet-based Operations



Off-site Operations







AVEVA Operations Control 2023 – Supervisory

Available now!



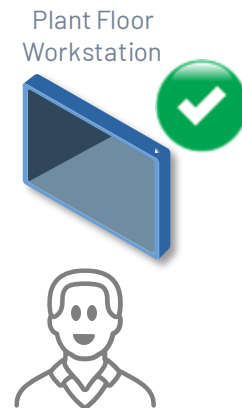
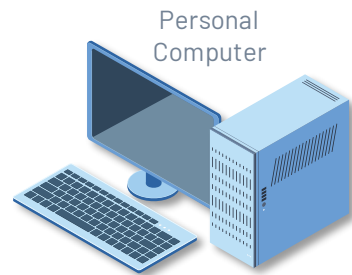
AVEVA Operations Control 2023 – Supervisory

Available now!



AVEVA Operations Control - Connected Worker

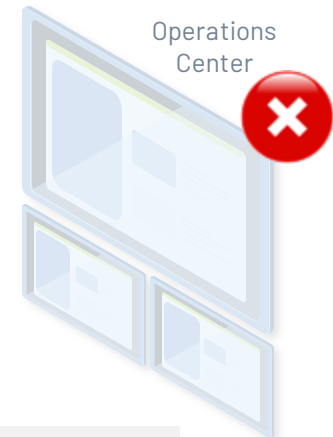
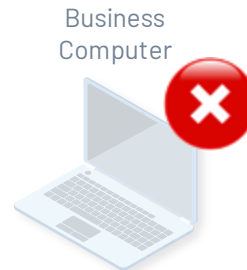
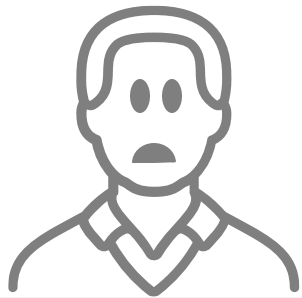
Operations Control – Supervisory



Traditional Models

AVEVA Operations Control - Connected Worker

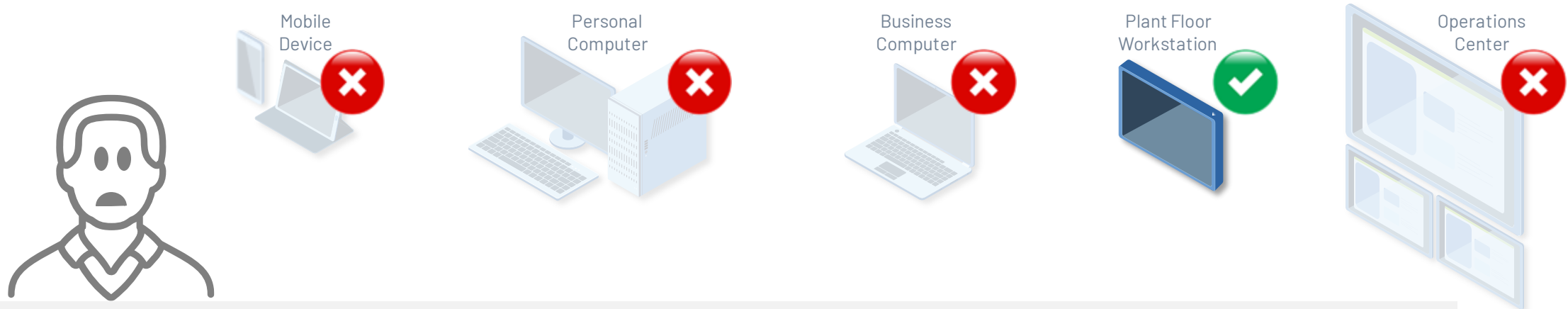
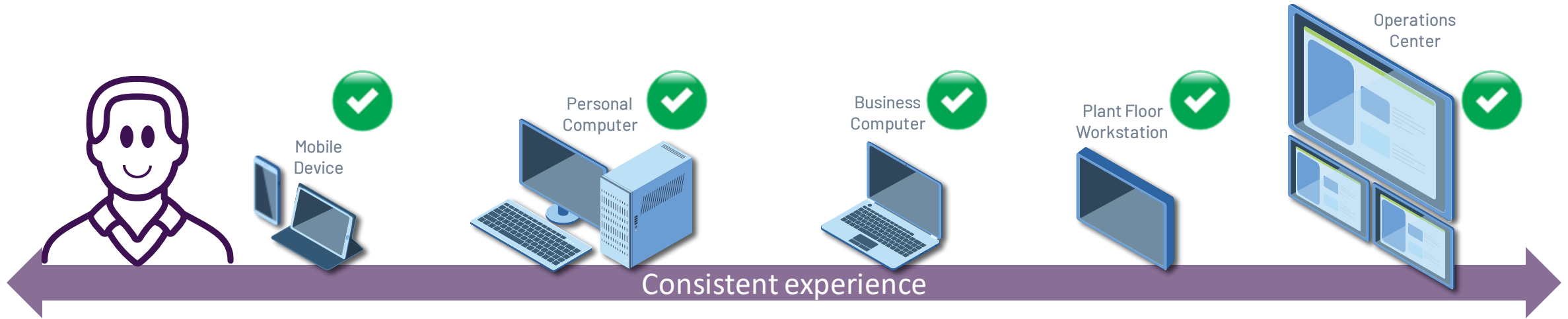
Operations Control – Supervisory



Traditional Models

AVEVA Operations Control - Connected Worker

Operations Control – Supervisory



Traditional Models

Supervisory

System Platform

OMI

Historian Client

Web clients

Plant SCADA

Teamwork

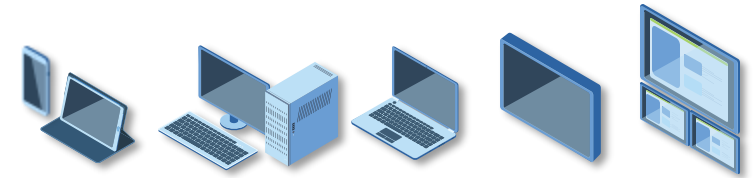
Reports

Insight

System Monitor

Development Studio

Integration Studio



Supervisory



Supervisory





Edge

AVEVA InTouch HMI

AVEVA Edge

Supervisory

System Platform & OMI

Plant SCADA

Web clients

Historian Client

Teamwork



Reports

Insight



System Monitor

Development Studio



Integration Studio



Enterprise

AVEVA Unified Operations Center

Supervisory

System Platform & OMI

Plant SCADA

Supervise the
Control

Supervisory Control And Data Acquisition

Acquire Data &
Provide Control



Supervisory

System Platform & OMI

Plant SCADA

Primary



Redundant



100K I/O
Alarms & Trends

Supervisory

System Platform & OMI

Plant SCADA



Cluster 1

100K I/O

Alarms & Trends



Cluster 2

100K I/O

Alarms & Trends



Cluster 3

100K I/O

Alarms & Trends

Supervisory

System Platform & OMI

Plant SCADA



Cluster X

100K I/O

Alarms & Trends



Cluster X

100K I/O

Alarms & Trends



Cluster X

100K I/O

Alarms & Trends



Cluster X

100K I/O

Alarms & Trends



Cluster X

100K I/O

Alarms & Trends



1M I/O

Alarms & Trends

Global Client



Cluster X

100K I/O

Alarms & Trends



Cluster X

100K I/O

Alarms & Trends



Cluster X

100K I/O

Alarms & Trends



Cluster X

100K I/O

Alarms & Trends



Cluster X

100K I/O

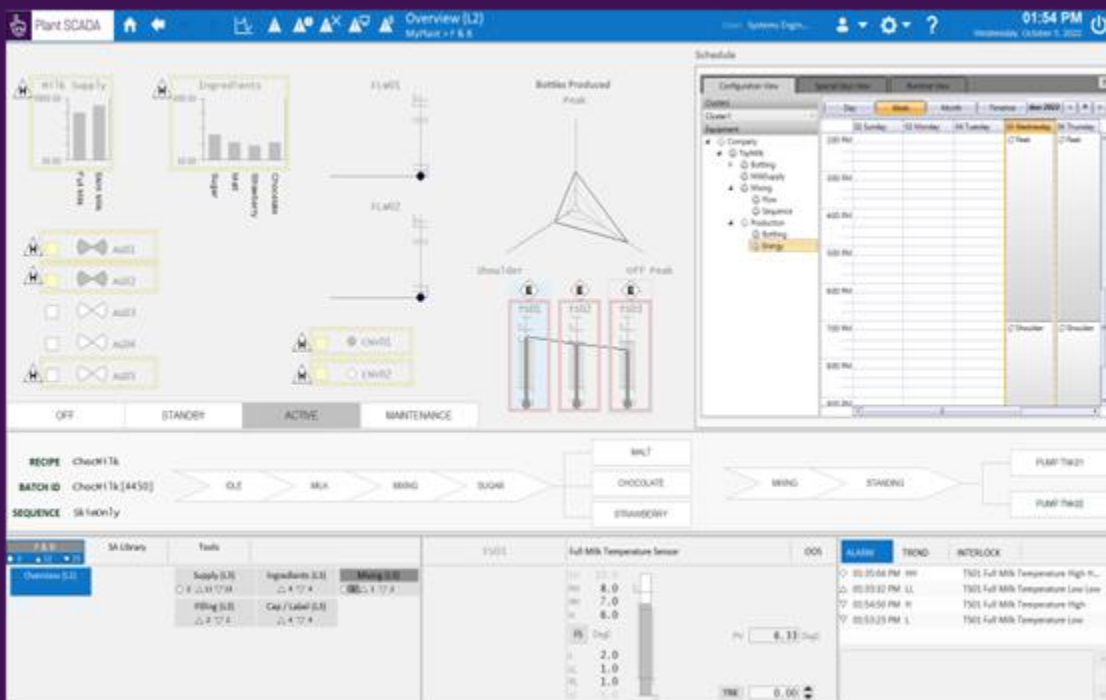
Alarms & Trends

Supervisory

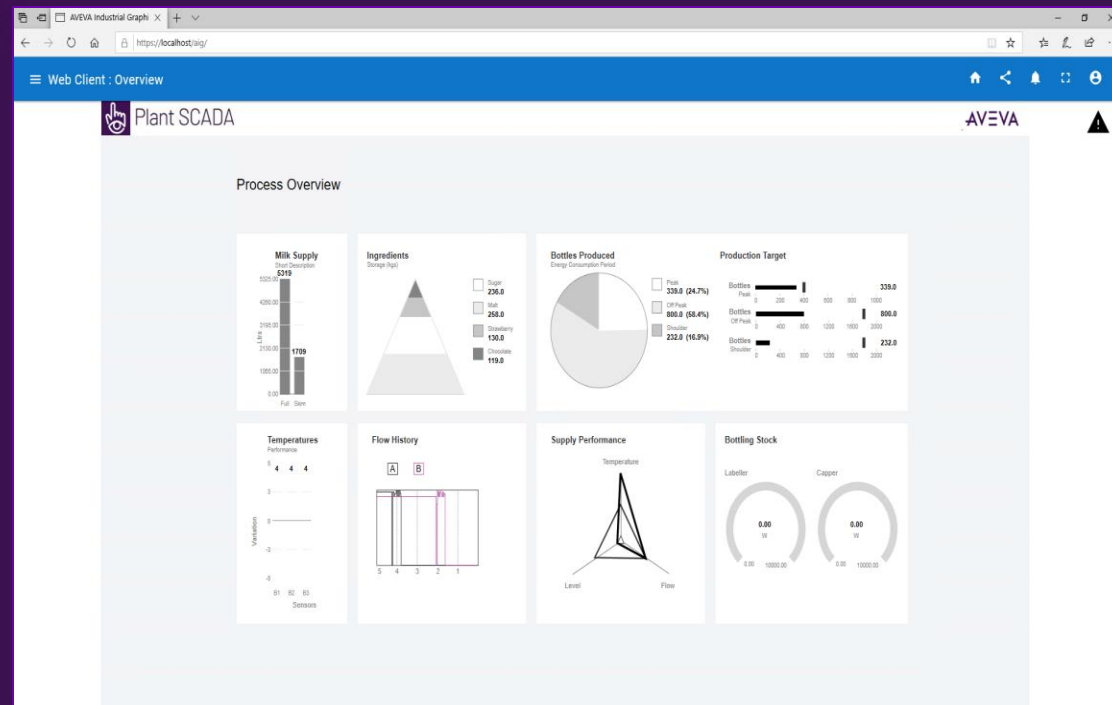
System Platform & OMI

Plant SCADA

Common Graphics Runtime



Plant SCADA Standard Graphics



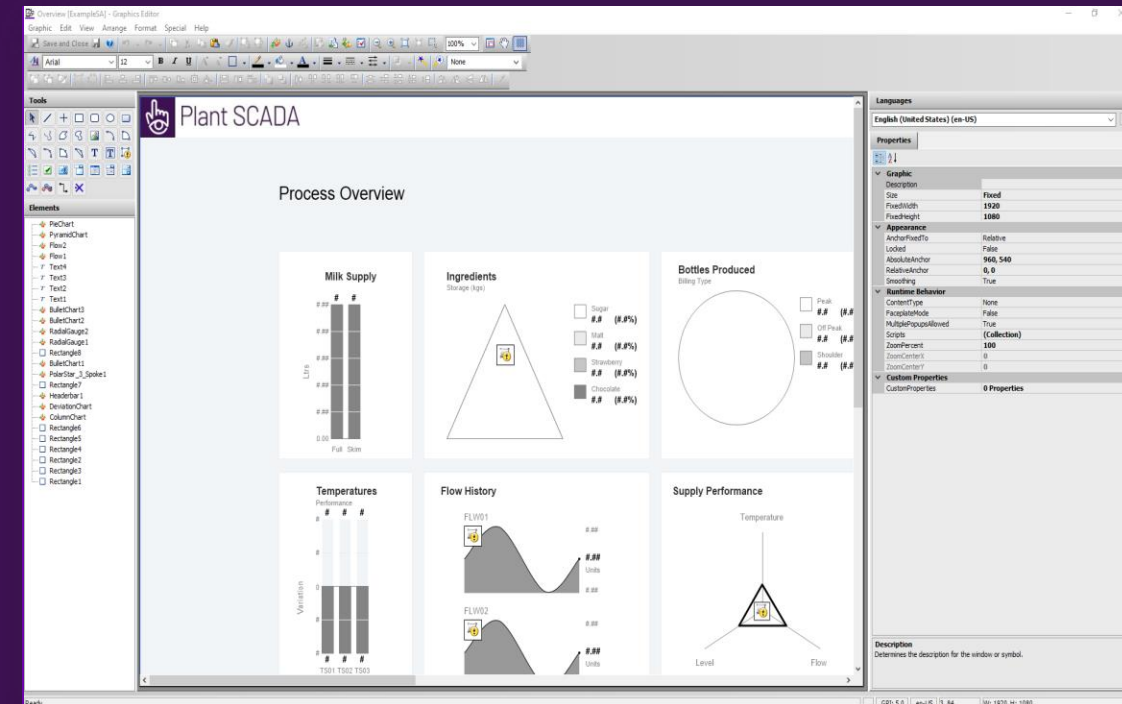
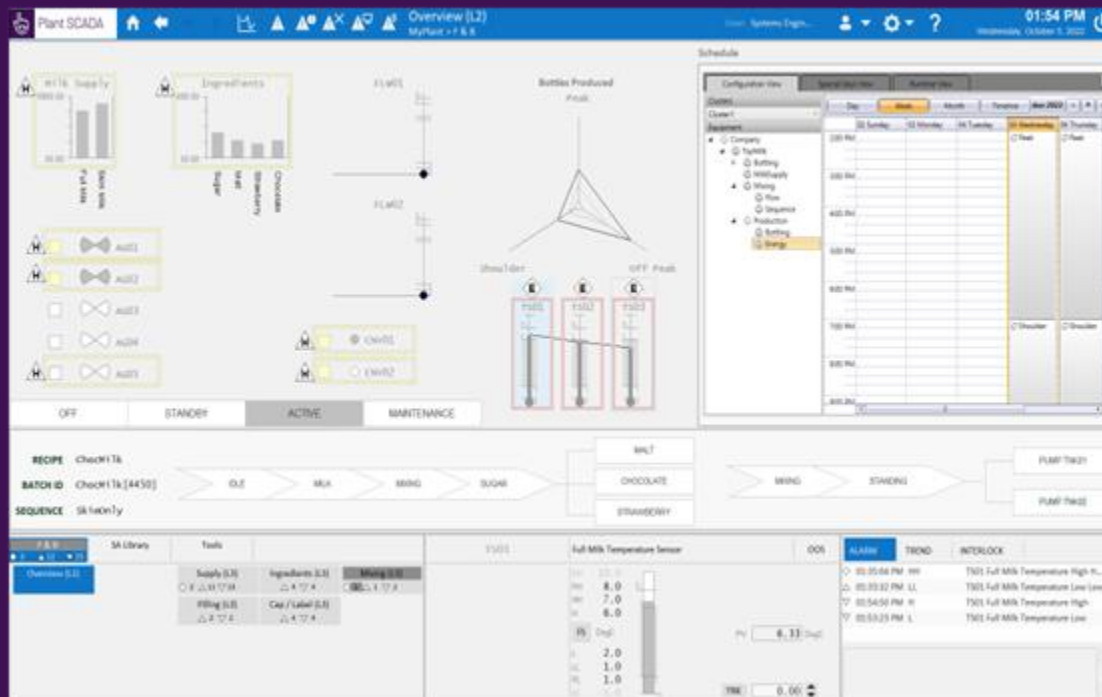
AVEVA Industrial Graphics

Supervisory

System Platform & OMI

Plant SCADA

Common Graphics Editor



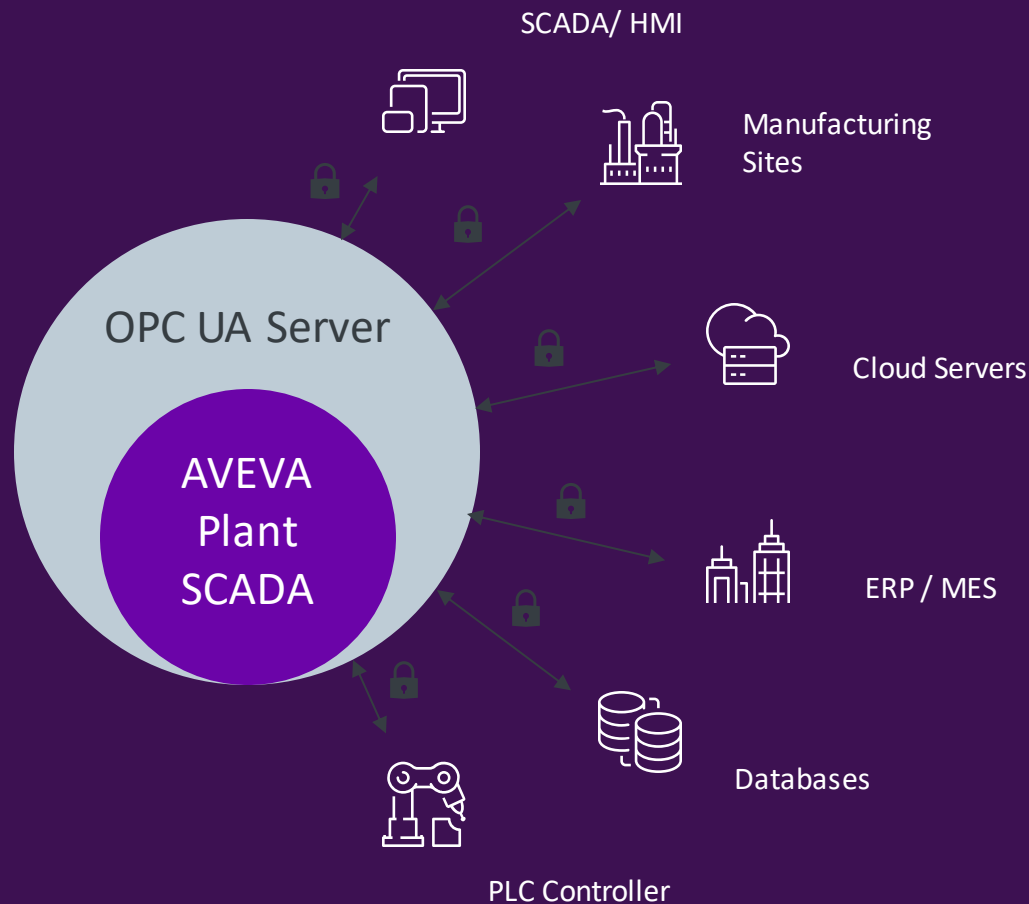
Plant SCADA Standard Graphics

AVEVA Industrial Graphics

Supervisory

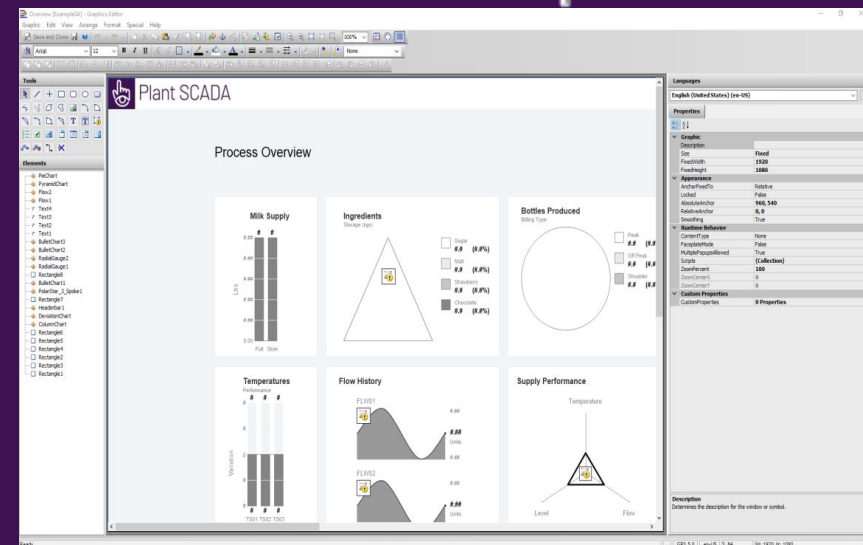
System Platform & OMI

Plant SCADA

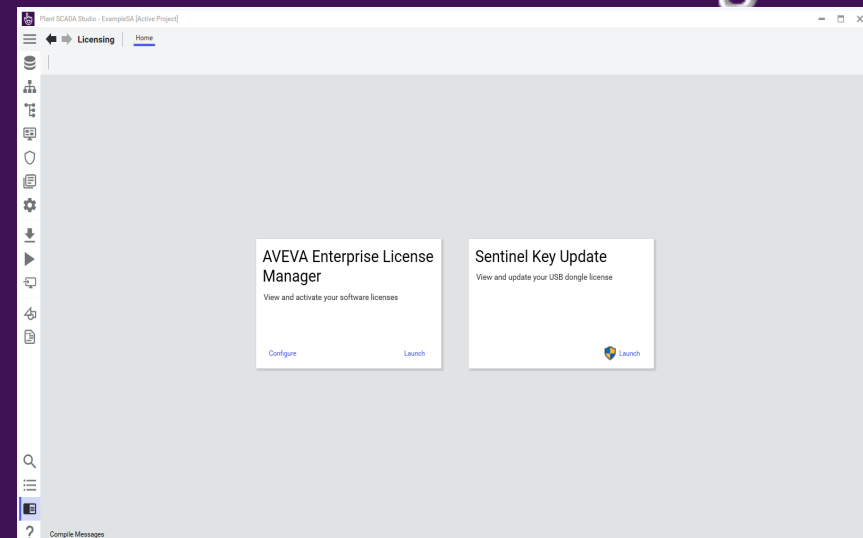


Platform Common Services (OPC-UA Server)

Common Graphics



Common Licensing



AVEVA

AVEVA Operations Control 2023

Supervisory

Scope: Process/Site

AVEVA System Platform 2023

AVEVA OMI 2023

AVEVA Historian 2023

AVEVA Historian Clients 2023

AVEVA Web clients 2023

AVEVA Plant SCADA 2023

AVEVA Communications Drivers 2023

AVEVA Teamwork Update 

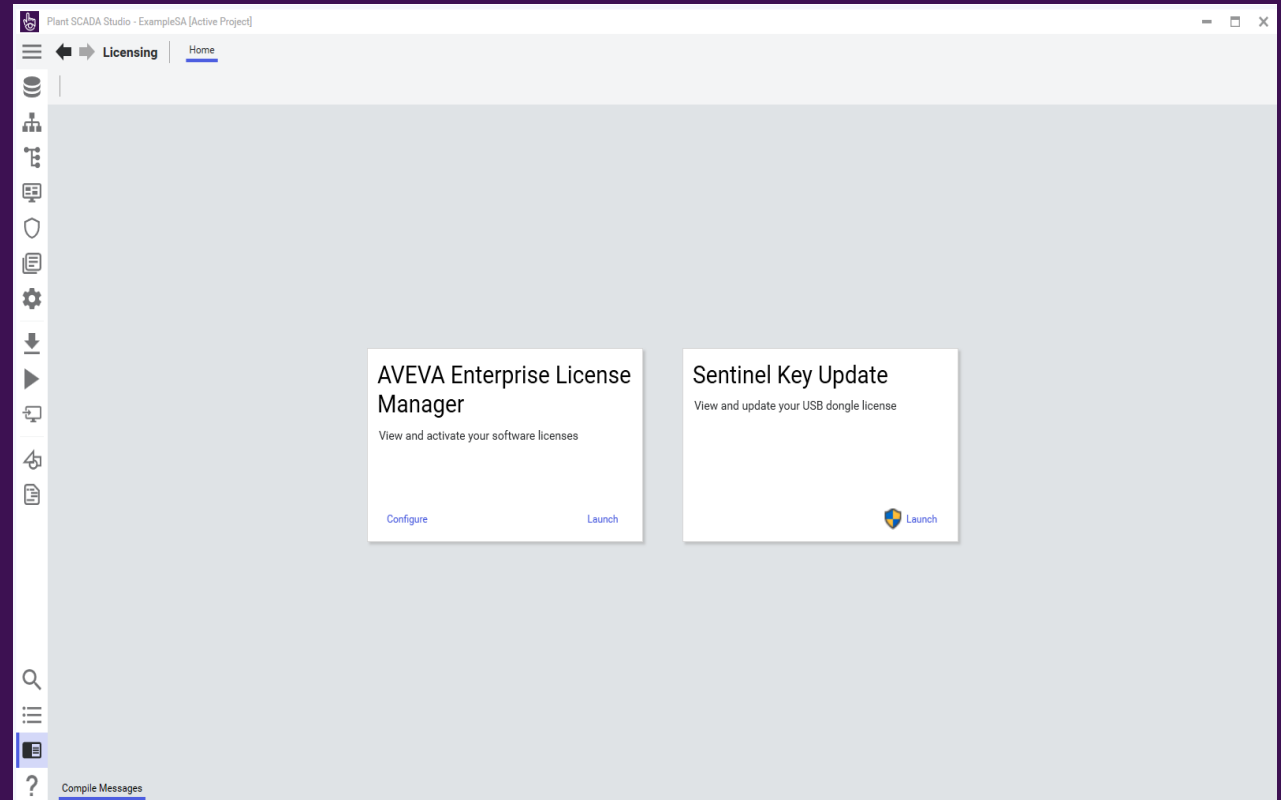
AVEVA Reports for Operations 2023

AVEVA Insight Update 

AVEVA System Monitor 1.4

AVEVA Development Studio 2023 

AVEVA Integration Studio 2023 

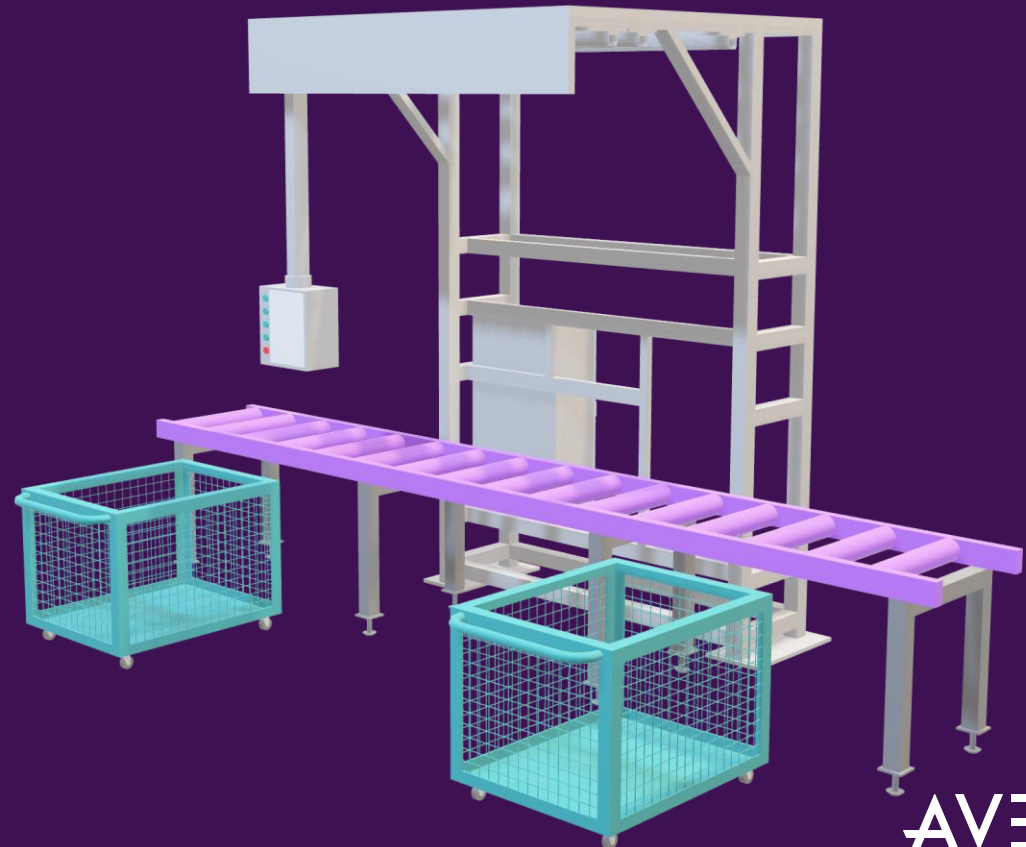


Supervisory

System Platform & OMI

Plant SCADA

SCADA

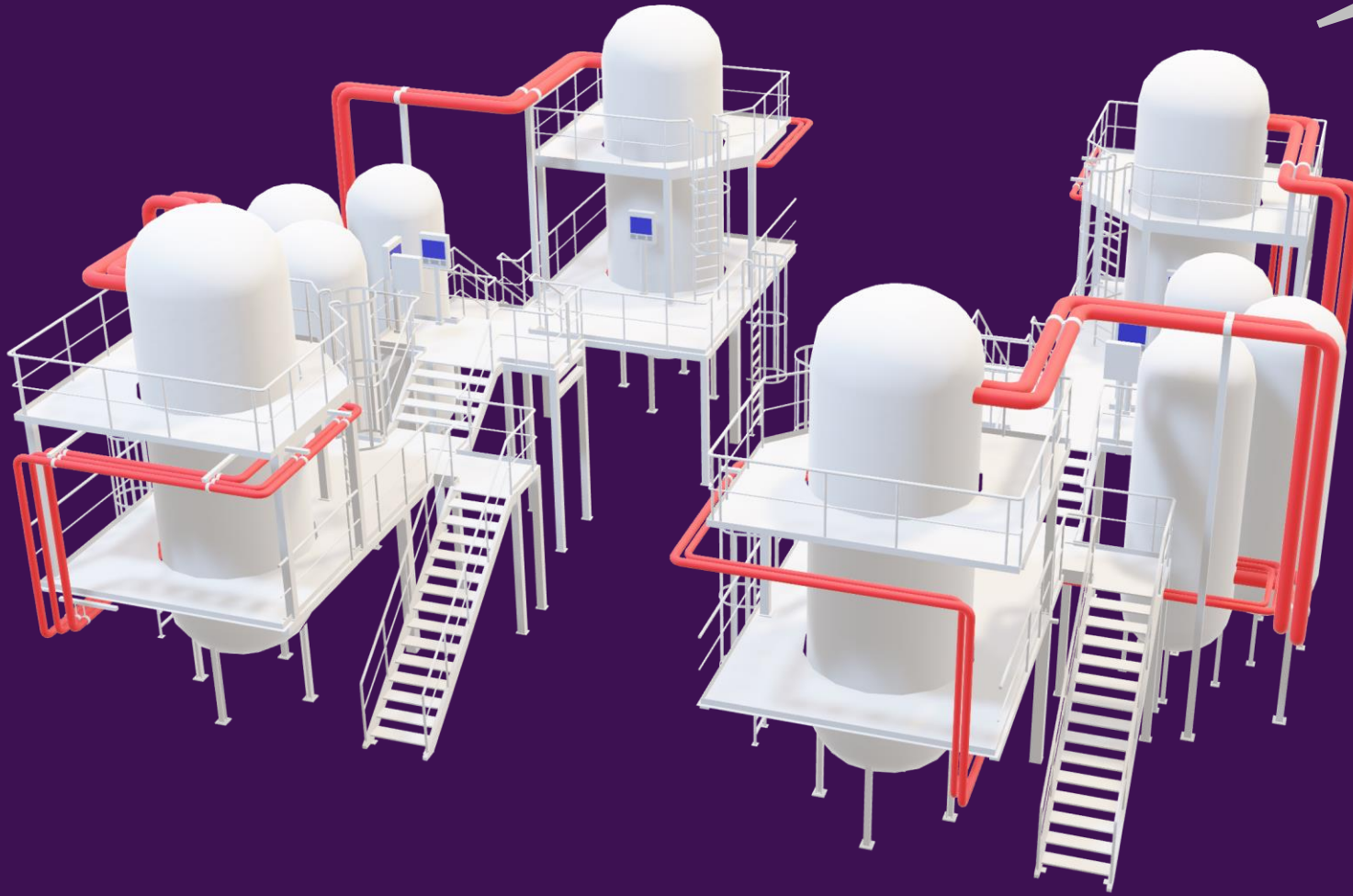


Supervisory

System Platform & OMI

Plant SCADA

Automate
Entire Plants



Supervisory

System Platform & OMI

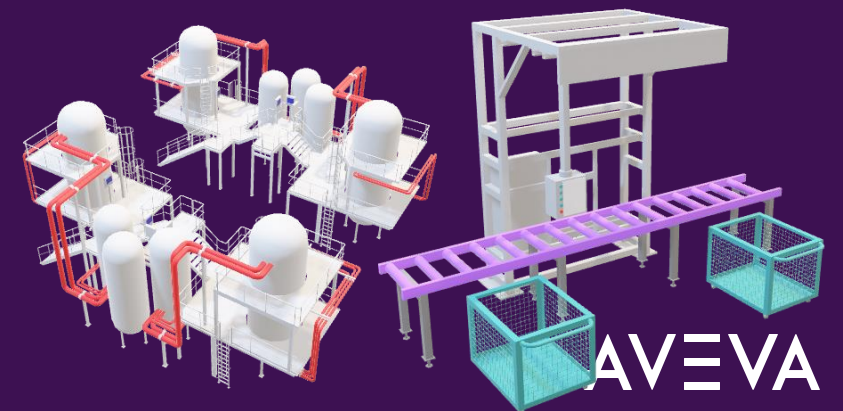
SCADA's
SCADA's
Everywhere!

Supervisory

System Platform & OMI

Plant SCADA

Infrastructure

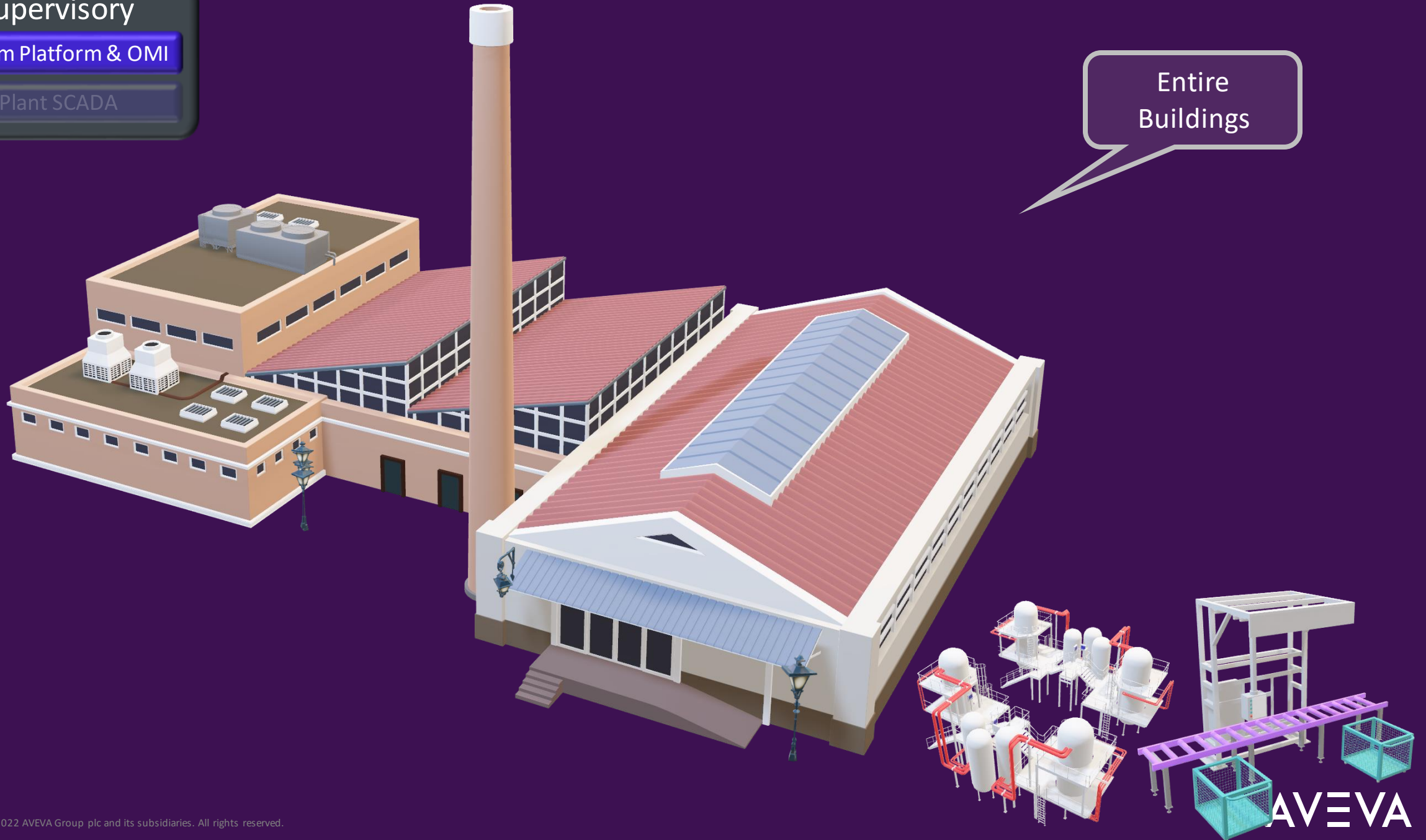


Supervisory

System Platform & OMI

Plant SCADA

Entire
Buildings

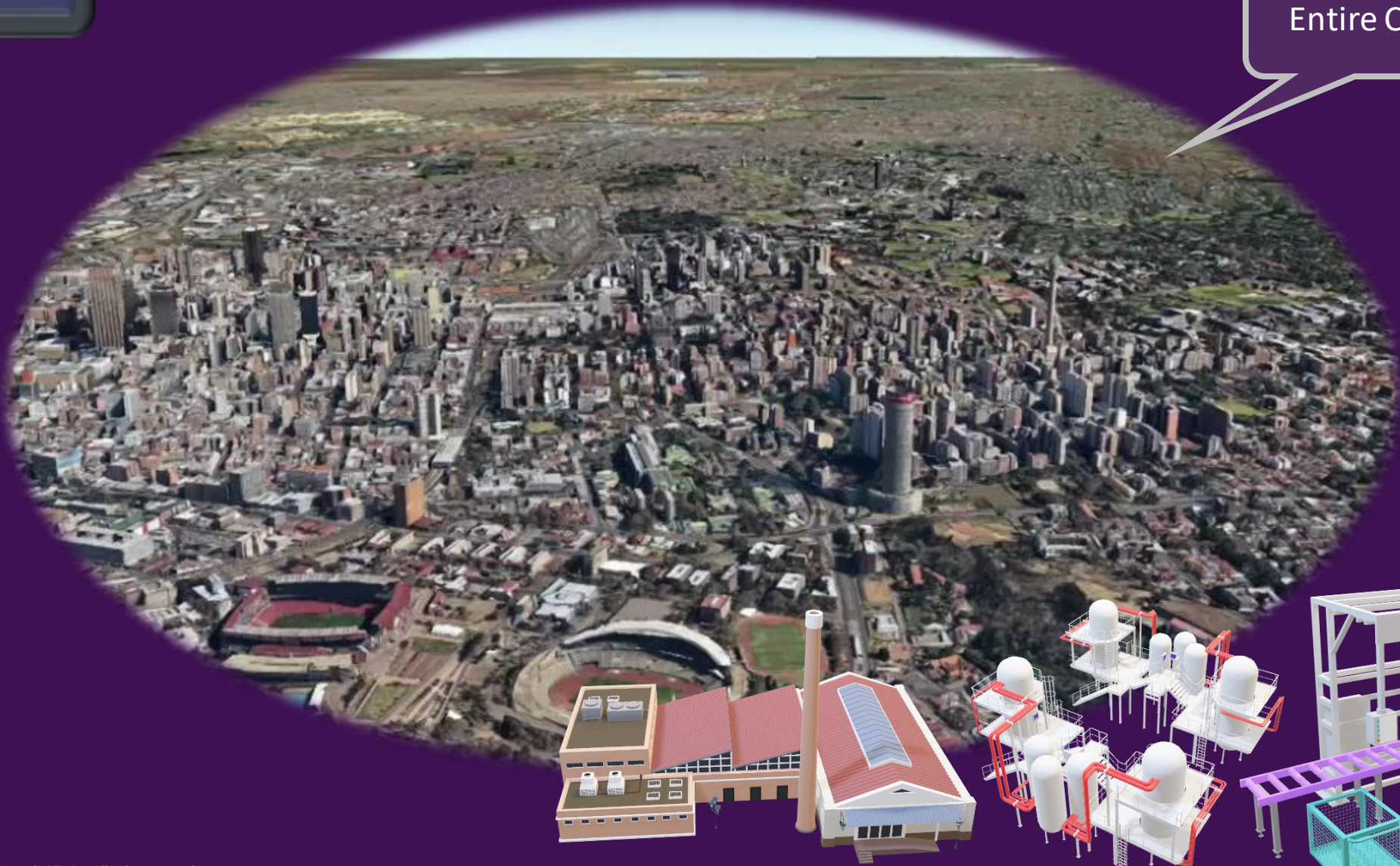


Supervisory

System Platform & OMI

Plant SCADA

Entire Cities

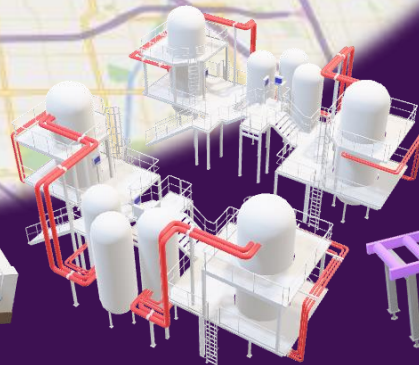
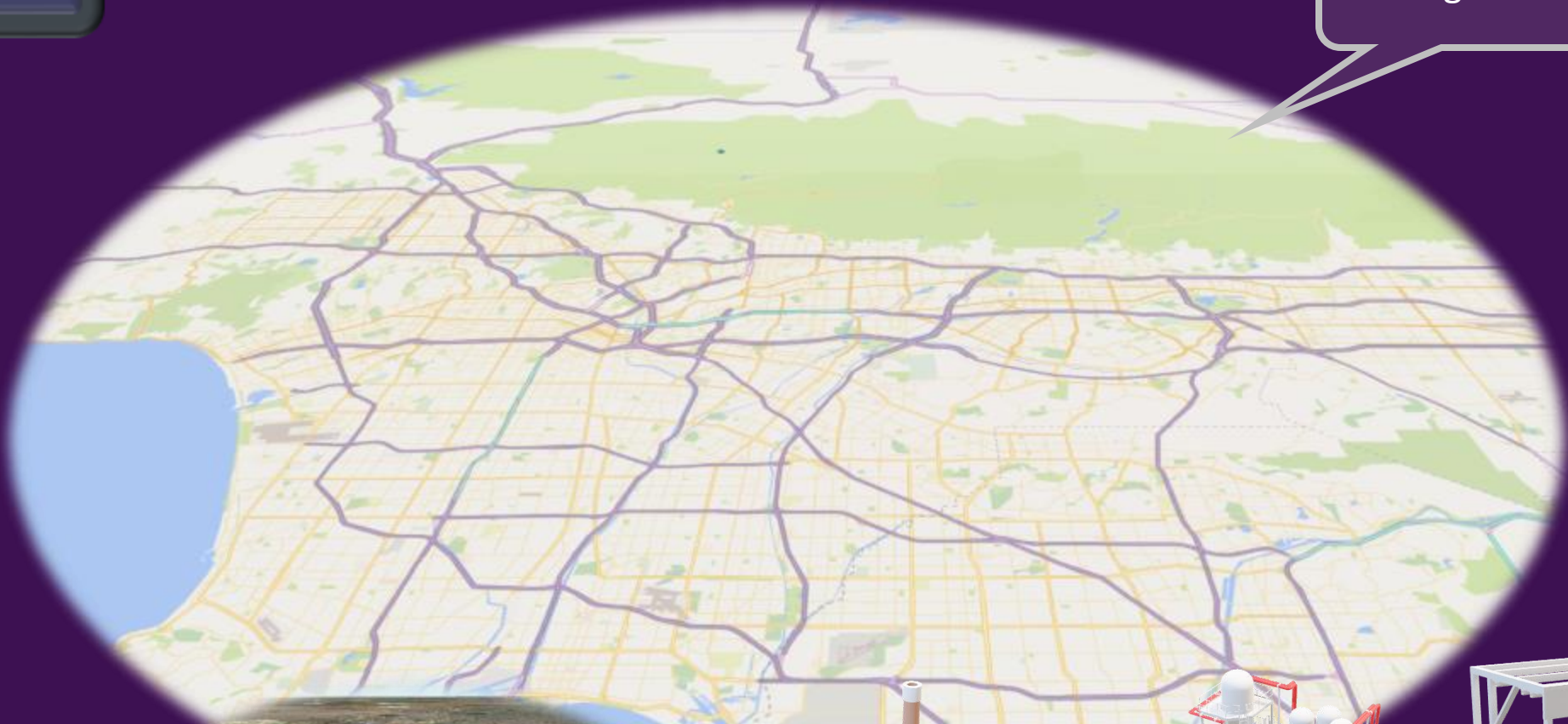


Supervisory

System Platform & OMI

Plant SCADA

Regions



Supervisory

System Platform & OMI

Plant SCADA

Connect



Supervisory

System Platform & OMI

Plant SCADA

SCADA/HMI



Supervisory

System Platform & OMI

Plant SCADA

SCADA/HMI



Physical World

Supervisory

System Platform & OMI

Plant SCADA



Controller

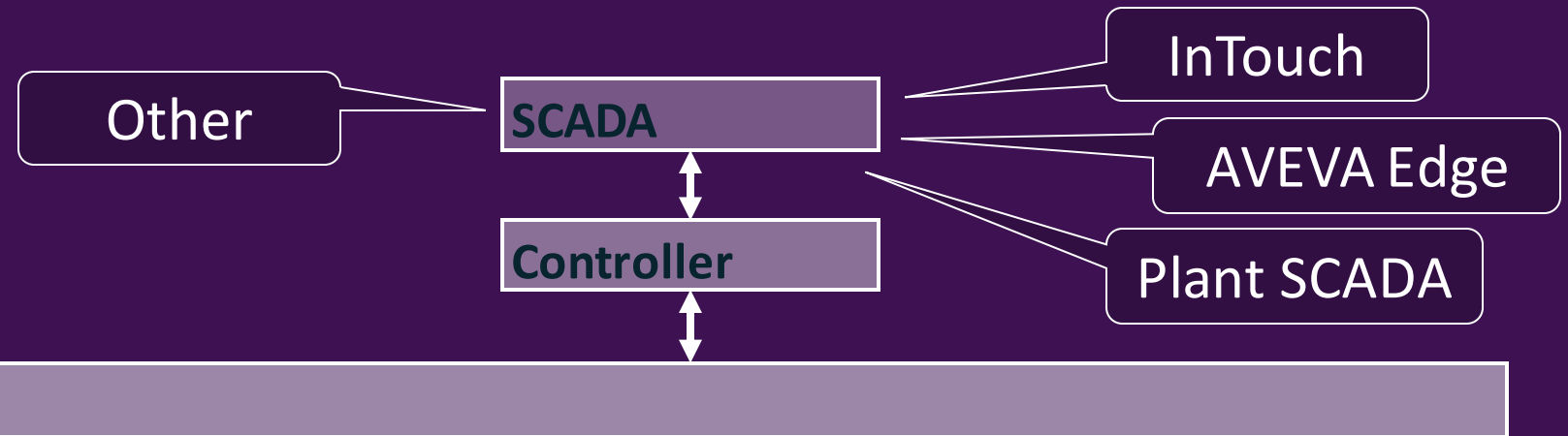


Physical World

Supervisory

System Platform & OMI

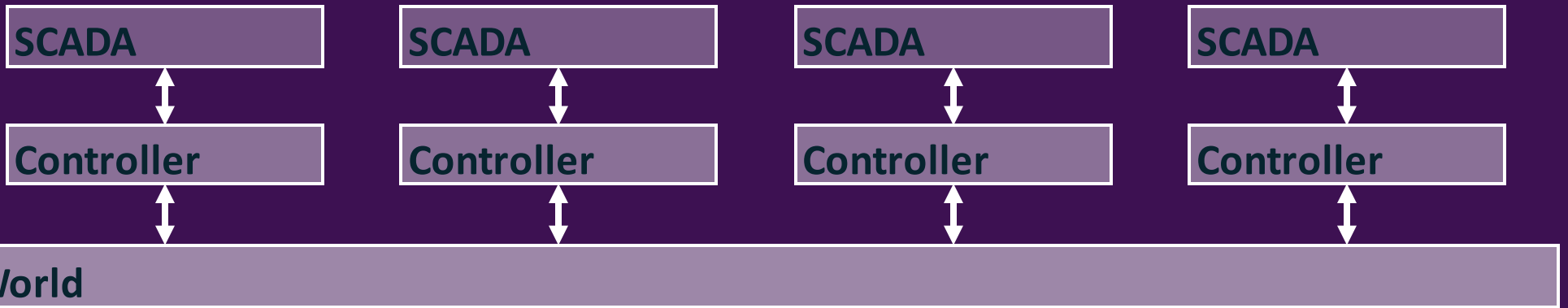
Plant SCADA



Supervisory

System Platform & OMI

Plant SCADA



Supervisory

System Platform & OMI

Plant SCADA

Silos of Automation

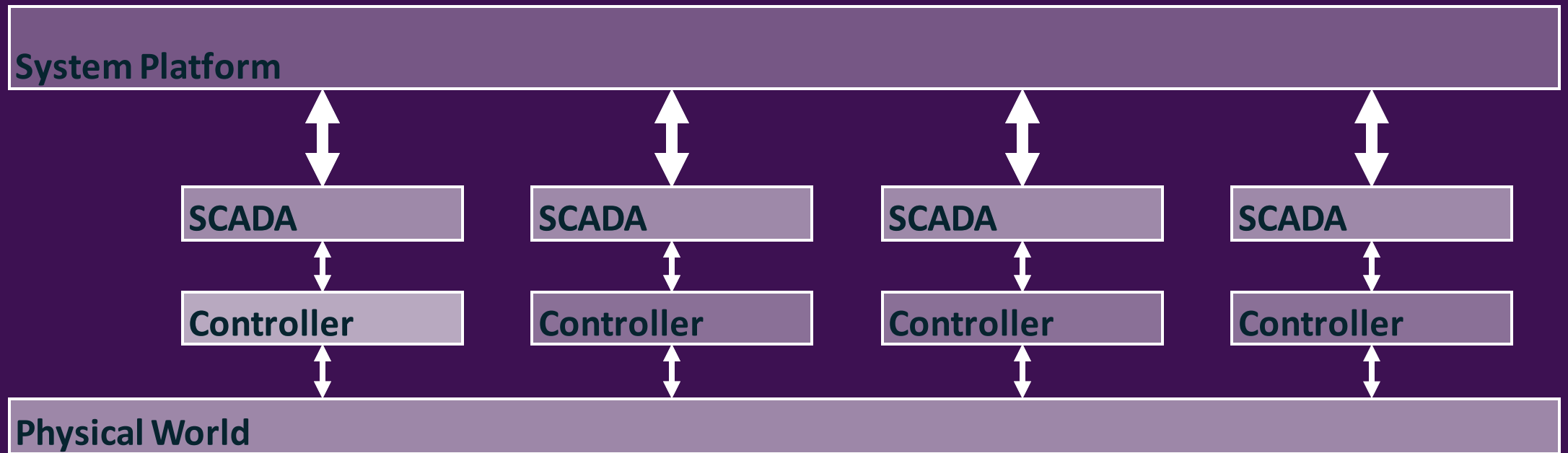
Physical World

AVEVA

Supervisory

System Platform & OMI

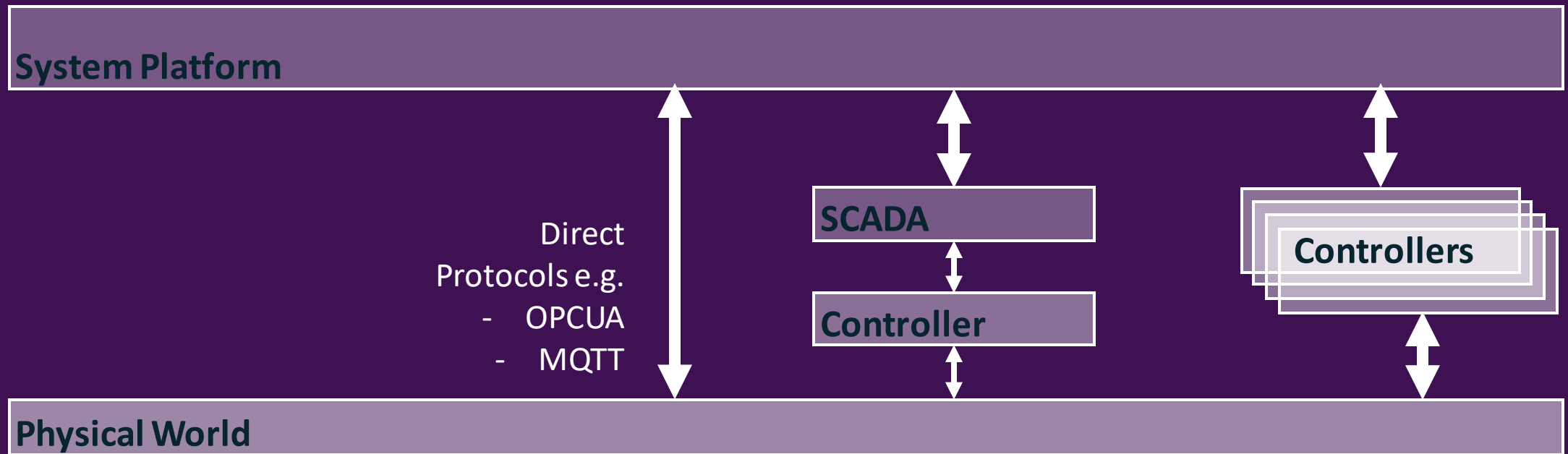
Plant SCADA



Supervisory

System Platform & OMI

Plant SCADA



Supervisory

System Platform & OMI

Plant SCADA

Visualization

System Platform

IIoT

Direct
Protocols e.g.
- OPCUA
- MQTT

SCADA

Controller

Controllers

Physical World

Supervisory

System Platform & OMI

Plant SCADA

Visualization

History

Batch

MOM

CM

APM

Energy

Other

System Platform

Single Source of Truth

IIoT

Direct
Protocols e.g.
- OPCUA
- MQTT

SCADA

Controller

Controllers

Physical World

Supervisory

System Platform & OMI

Plant SCADA

Visualization

History

Batch

MOM

CM

APM

Energy

Other

System Platform

Single Source of
the **SCADA**
Universe Truth

IIoT

Direct
Protocols e.g.
- OPCUA
- MQTT

SCADA

Controller

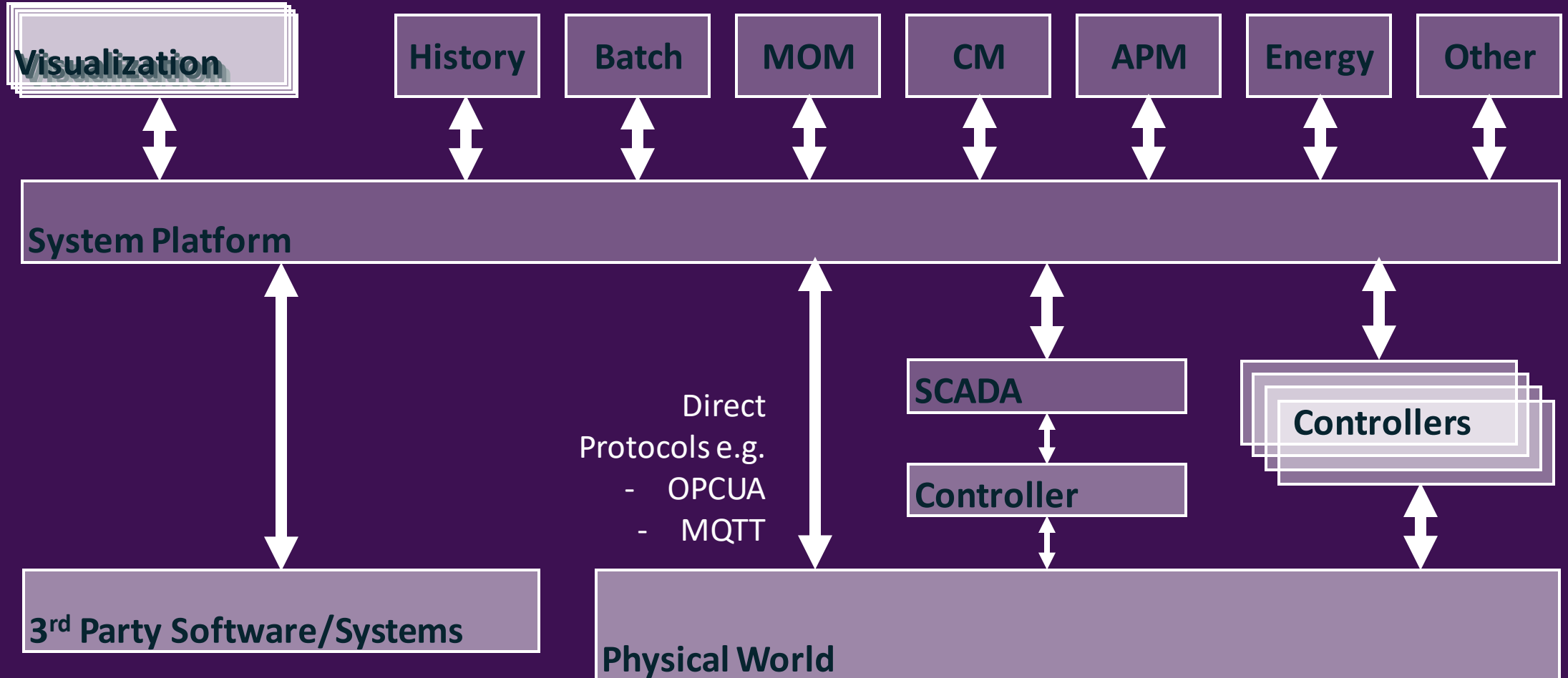
Controllers

Physical World

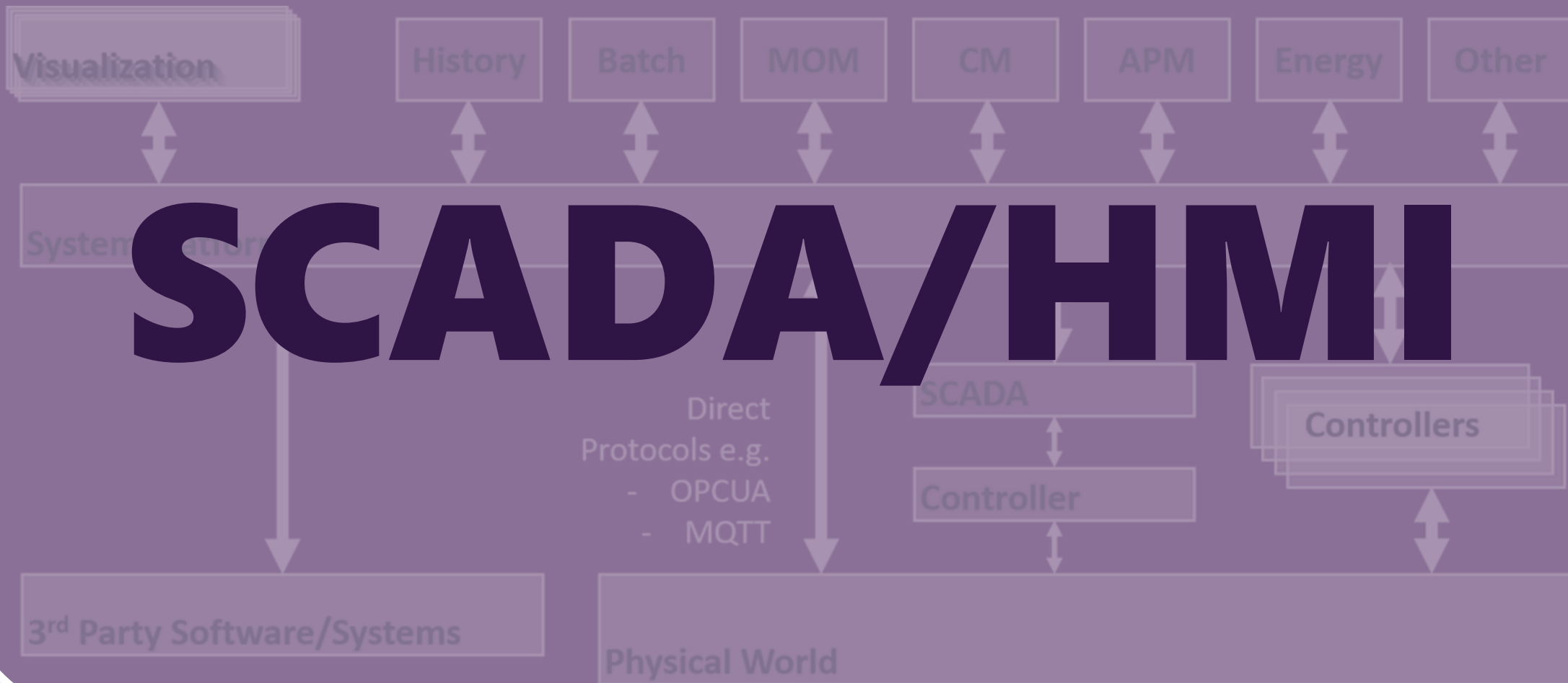
Supervisory

System Platform & OMI

Plant SCADA



SCADA/HMI

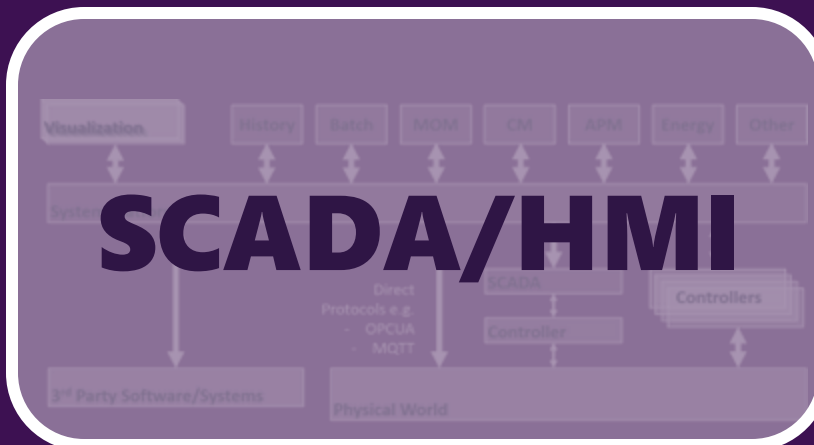


**P&I
diagrams**

Camera

**Weather/
Lightning**

**GeoSpatial
(Maps)**



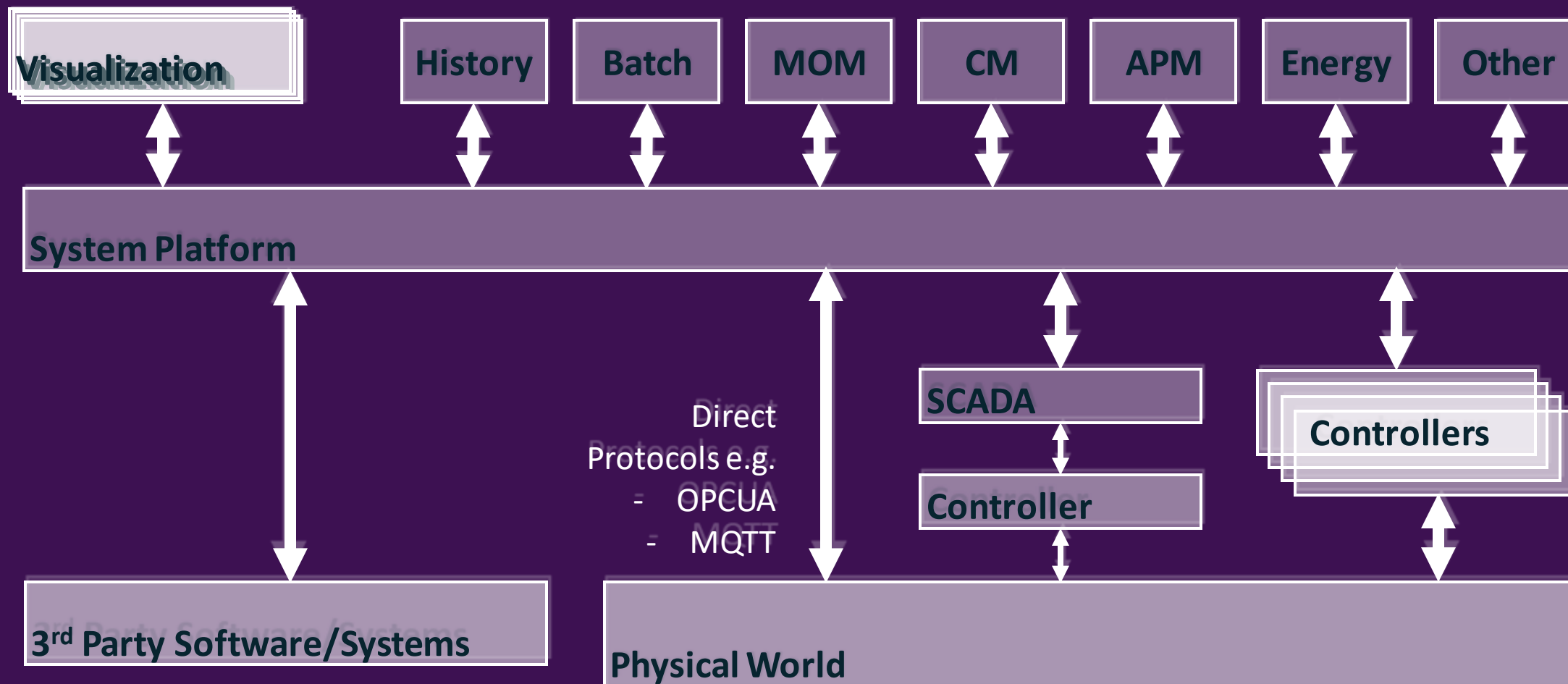
**Analytics/
Reports**

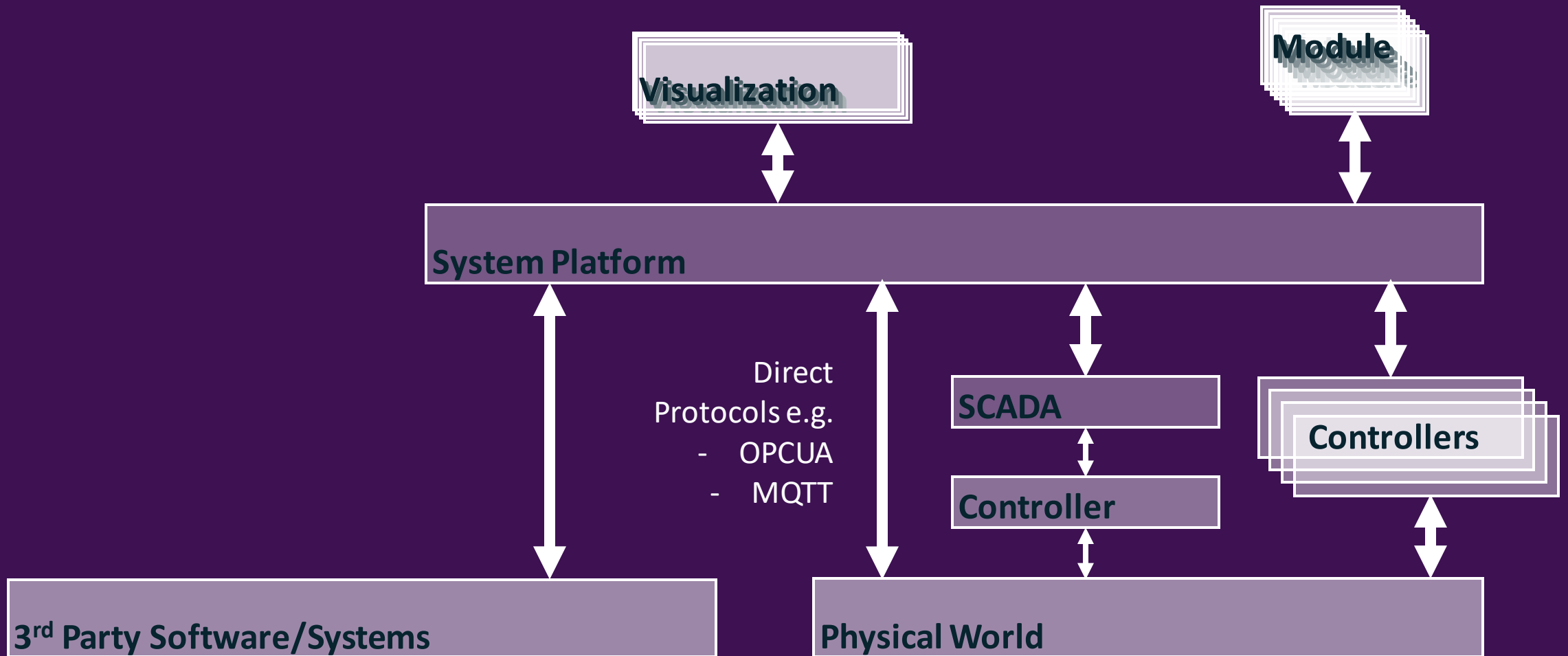
Spreadsheets

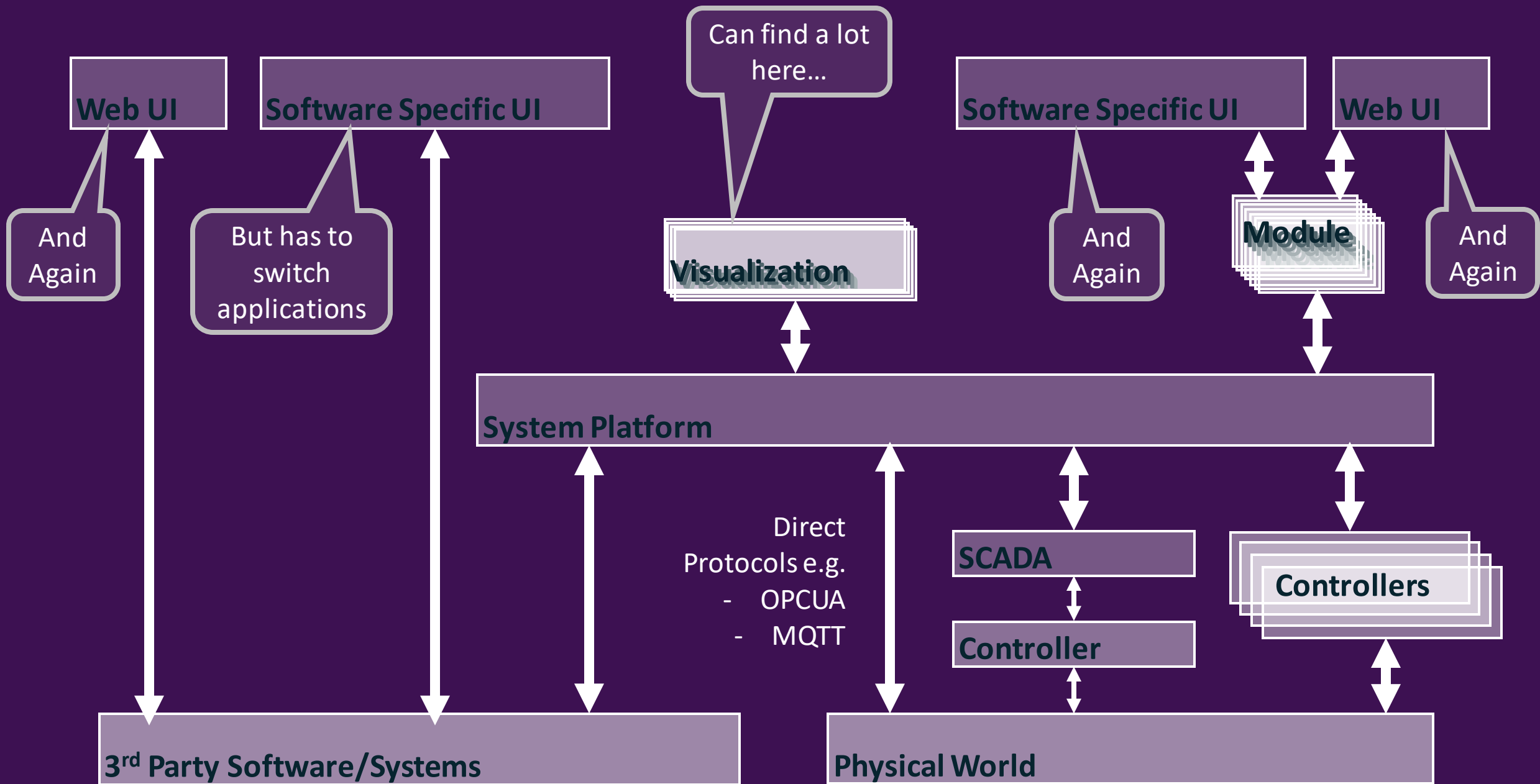
Documents

3D model

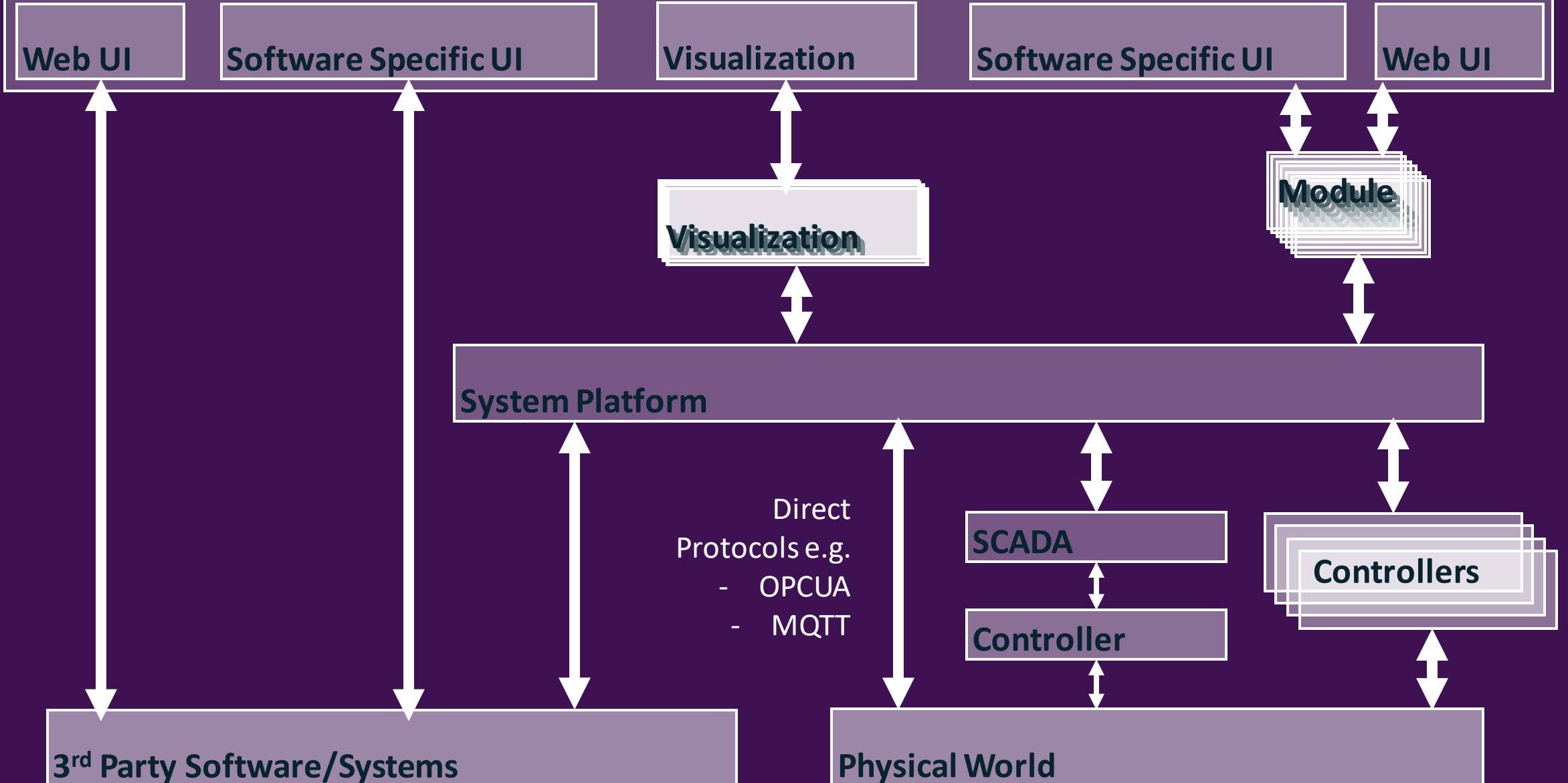
ERP	Alarm Master	Prescriptive Analytics	IT Management	Internet of Things	Navigation	CRM	Scenario Planning	File Server
CAD	Energy Management	Alarm database	Water Network Optimization	Genealogy	Batch & Phase Control	Virtual Reality Training	Quality Testing	Human Resources
Quality Management	Foreign Exchange	Operations Management	Software Defined Automation	Web Visualization	Security Management	Financial Management	Seismic activity	Tracking
Facilities Management	Mobile Alerting	Cyber Security	P&I diagrams	Camera	Weather/ Lightning	Maintenance Round Management	Recipe Management	Shift Logs
Enterprise Asset Management	Social Media	Predictive Analytics	GeoSpatial (Maps)	SCADA/HMI	Analytics/ Reports	Enterprise Crude Management	Live stream	Maintenance
Robot Control	Condition Monitoring	Work Order Scheduling	Spreadsheets	Documents	3D model	Augmented Reality	Formula Management	E-Mail
Design & Engineering	Commodity Markets	Reports and Analysis	Enterprise Historian	Mass Balancing	Scheduling	Remote Control	Order Management	Enterprise Manufacturing Intelligence
MOM/ MES	Supply Chain Management	Transport	Process Optimization	Quality Control	Advanced Process Control	LIMS	Procurement	InfraRed
Training Simulation	Mobile Alarm Notification	Industrial Internet of Things	Process Simulation	Comms (audio/video)	Asset Management	Mobile Visualization	Business Intelligence	Trend







Operations Management Interface



SCADA/HMI

Camera

Navigation

Trend

GeoSpatial
(Maps)

Maintenance

Parking Lot

- White Car
- > Yellow Car <
- Red Car
- Police Car
- Ugly car
- Coupe

Current Asset: Yellow Car



Mileage
1342 km

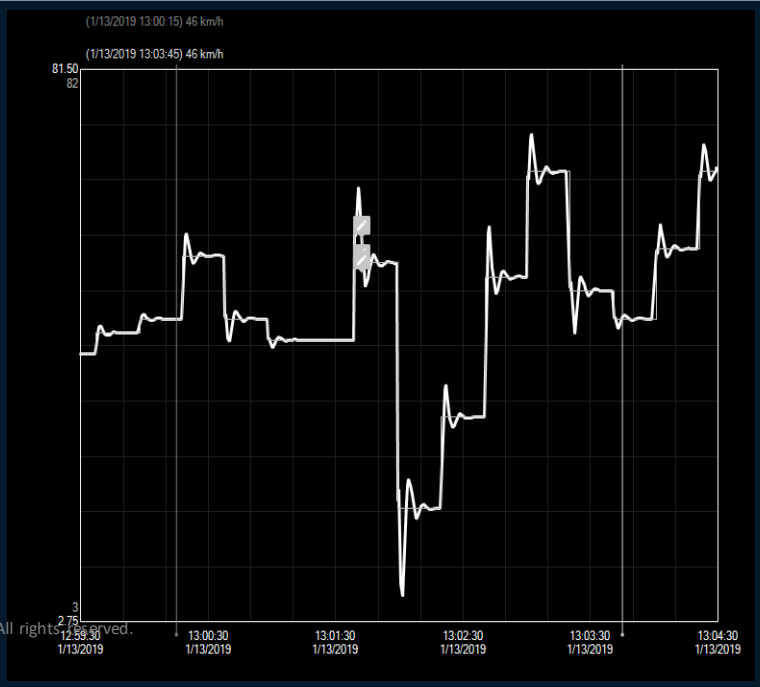
Fuel
13.6 l

Oil Temp
88.5 °C

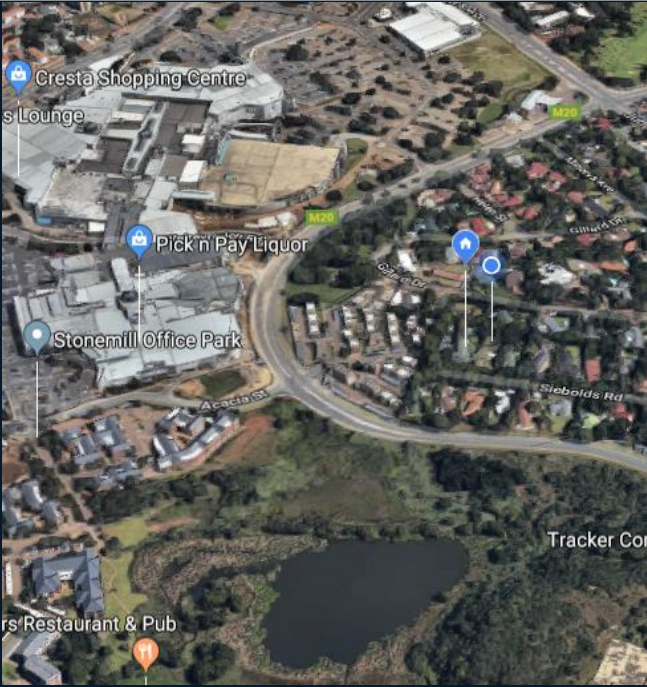
Camera: Yellow Car



Trend: Yellow Car



Map: Yellow Car



Maintenance: Yellow Car

POWER CITY Electric		Power City Electric Safety Management System		Issue Date: January 2011	
Vehicle Inspection / Work Order Form		Revision No.		Revision No.	
Preparation: Safety Mgr.		Authority: President		Issuing Dept: Safety	
VEHICLE MAKE & MODEL		WORK ORDER #		EQUIPMENT #	
ODOMETER		HOUR METER		INSPECTED BY:	
LIGHT TRUCK / VAN		*CONDITION		CHANGED REPLACED	
AIR FILTER					
COOLING SYSTEM					
DIFFERENTIAL(S)					
TRANSFER CASE 4x4					
FUEL FILTER					
ENGINE OIL / FILTERS					
SERPENTINE BELT					
HOSES / OTHER					
TIRE ROTATION					
TIRE CONDITION					
BRAKES / EMER. BRAKE					
BRAKE FLUID					
POWER STEERING FLUID					
TRANSMISSION					
TUNE UP					
MIRRORS					
WINDOWS					
LIGHTS / WIPERS					
TURN SIGNALS					
BODY / TAILGATE / DOOR					
CHASSIS / FRAME					
BATTERY					
BATTERY CABLES					
HEAVY TRUCK		*CONDITION		CHANGED REPLACED	
DOT INSPECTION					
AIR FILTER					
ANTIFREEZE					
TRANSMISSION					
ENGINE OIL / FILTERS					
ENTIRE CHASSIS LUBE					
FUEL FILTERS					
REAR DIFFERENTIAL					
HYDRAULIC OIL					
POWER STEERING					
TRANSMISSION					
WATER SEPARATOR					
BATTERIES / CABLES					
BELTS / PULLEYS					
HOSES					
STEERING TIRES					
DRIVE TIRES					
LIGHTS / WIPERS					
MIRRORS					
BRAKES / EMER. BRAKE					
OUTRIGGER / PINS / PADS					
GEARBOX / HOSES					
PEDESTAL / TURNTABLE					
TURRET BOLTS TORQUED		Qty:		F1 Rb:	
TURRET BOLTS REPLACED		Qty:		F1 Rb:	
*CONDITION: G = Good F = Fair P = Poor C = Changed				✓ = Checked	
DESCRIPTION OF REPAIRS:					
ESTIMATED COST \$		MECHANIC:			
DEPT. GA. CODE		VENDOR:			
P.O. #		COMPLETION DATE: / /			

USCAP/Safety_Markets/Safety_Form_Library/Vehicle_Inspection_Work_Order.docx

Parking Lot

- White Car
- Yellow Car
- > Red Car <
- Police Car
- Ugly car
- Coupe

Current Asset: Red Car



Mileage
1197 km

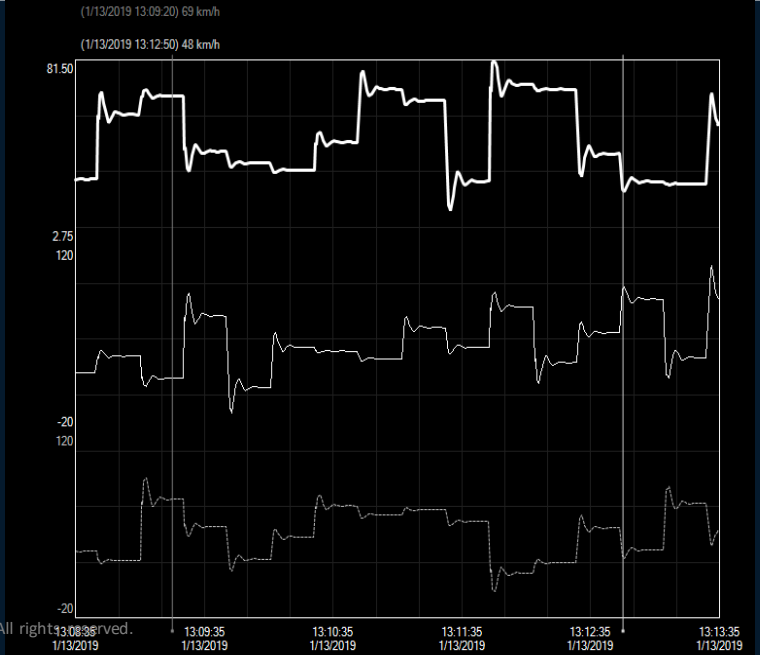
Fuel
68.9 l

Oil Temp
89.2 °C

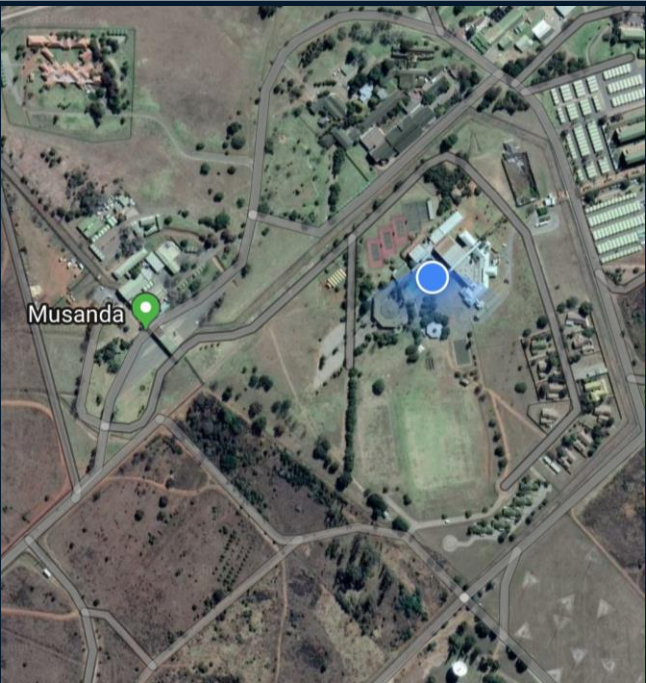
Camera: Red Car



Trend: Red Car



Map: Red Car



Maintenance: Red Car

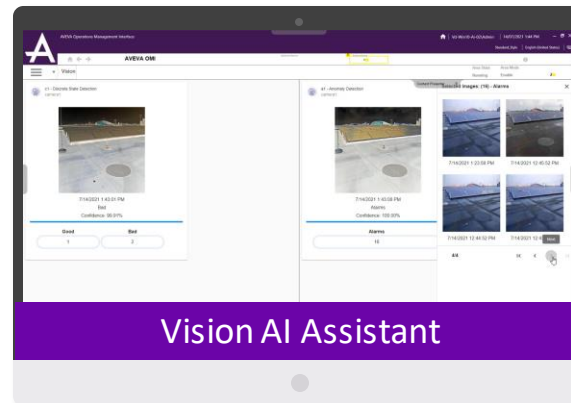
Car Maintenance Log											
Vehicle:											
MONTHLY											
Check: Headlights, Horn, Blinkers, Tailing											
Leak, Coolant, Wiper Fluid, Wipers, Wind											
5,000 MILES											
Change Oil and Filter											
Check Fluids (Transmission, Brake, Steel											
Bulb, Coolant, Battery Water											
Check Hoses (Radiator, Heater, A/C)											
Check Air Filter											
Check Underbody Components											
Check Pressure of Tires & Spare											
Check Tire Wear											
Clean Wipers											
Check Headlamp Alignment											
Check Body & Drain Holes											
Flush Complete Underbody											
Check Seatbelts											
Check Parking Brake											
10,000 MILES											
Check A/C Compressor and System											
Check Battery Electrolyte Levels											
Clean Battery Terminals											
Lubricate Doors, Hinges, Checks, Locks											
Lubricate Hood, Hinges, Checks, Locks											
Lubricate Trunk, Hinges, Checks, Locks											
Lubricate Rubber Weather Stripping											
TIRES											
Rotate Tire											
Inflate Tire											
Balance Tire											
Inspect Tire											
15,000 MILES											
Check Cooling System and Hoses											
Check Brakes and Lines											



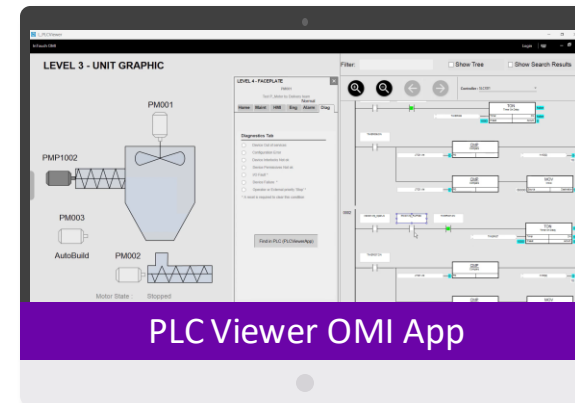
3D Viewer OMI App



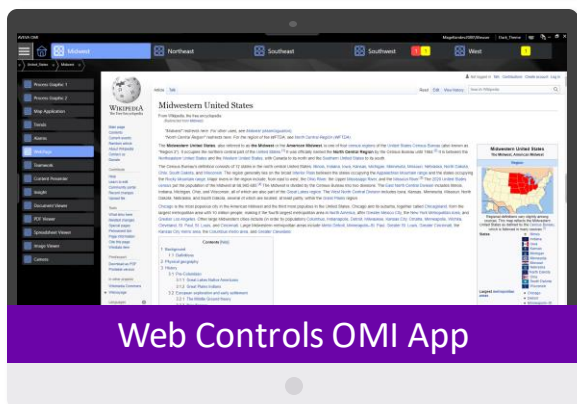
Map OMI App



Vision AI Assistant



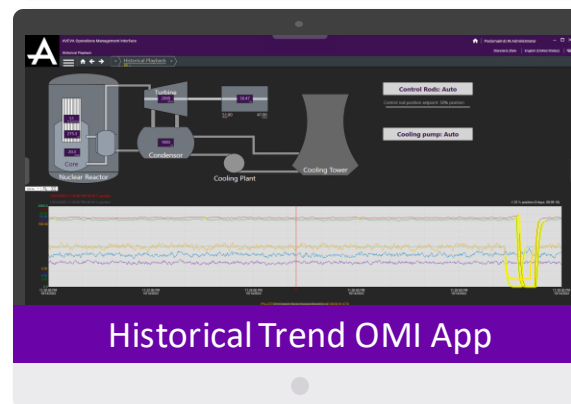
PLC Viewer OMI App



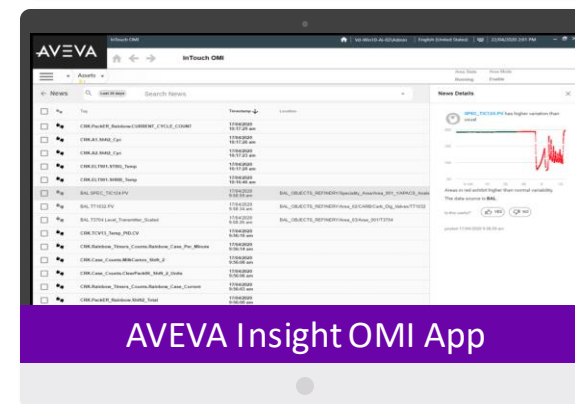
Web Controls OMI App



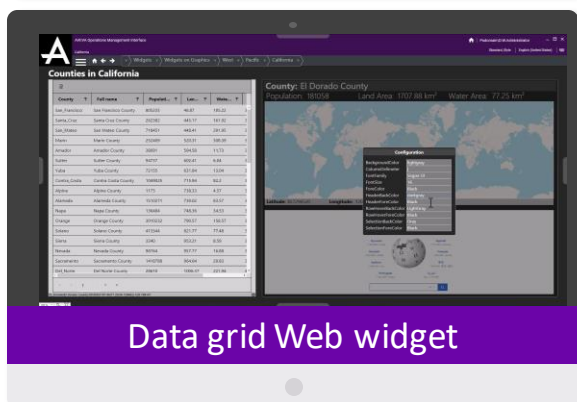
Graphic Repeater OMI App



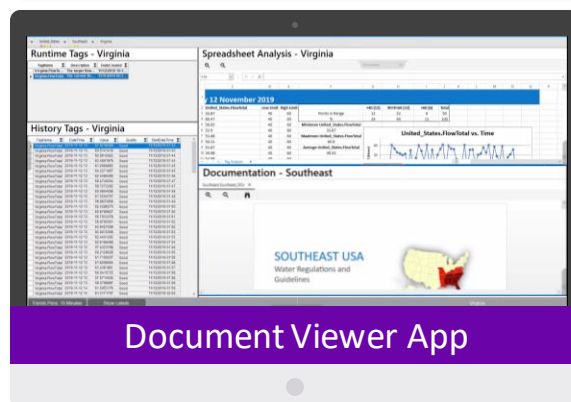
Historical Trend OMI App



AVEVA Insight OMI App



Data grid Web widget



Document Viewer App



Alarm OMI App



Content Presenter OMI App

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 3rd party devices and applications.



Ernst van Wyk

Product Manager – System Platform & OMI

- AVEVA
- ernst.vanwyk@AVEVA.com



Nathan Slider

Product Manager – Plant SCADA

- AVEVA
- Nathan.Slider@AVEVA.com

Questions?

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



Please remember to...


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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.

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