

JUNE 2020

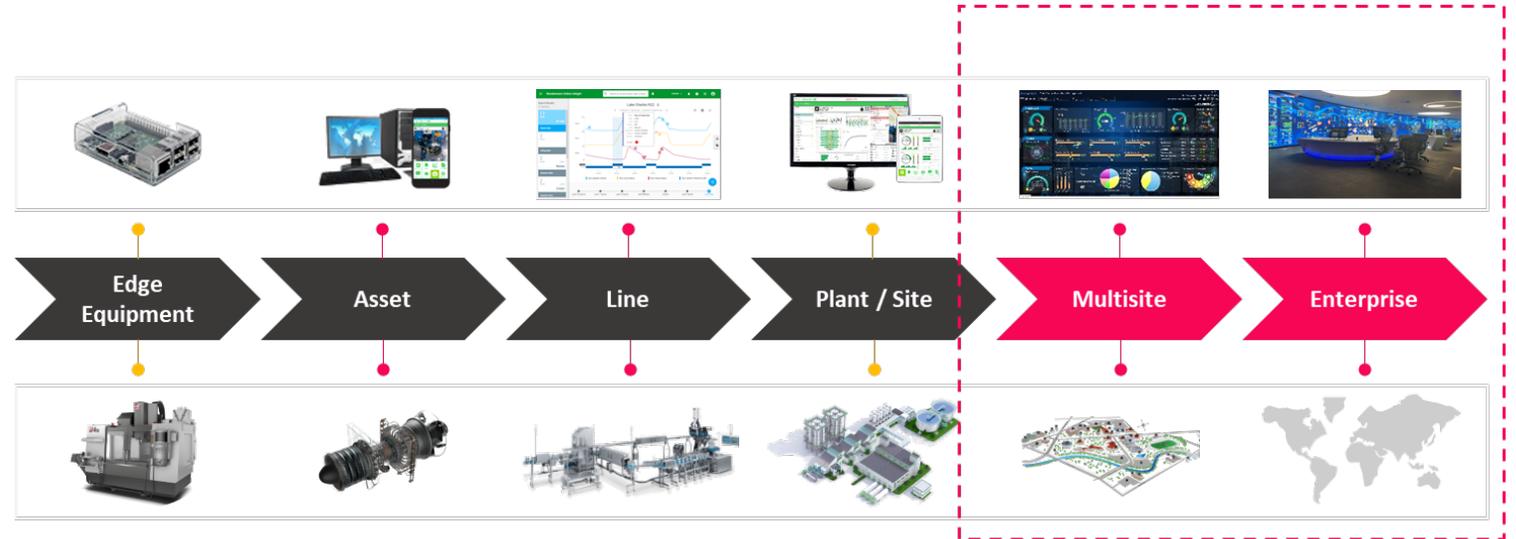
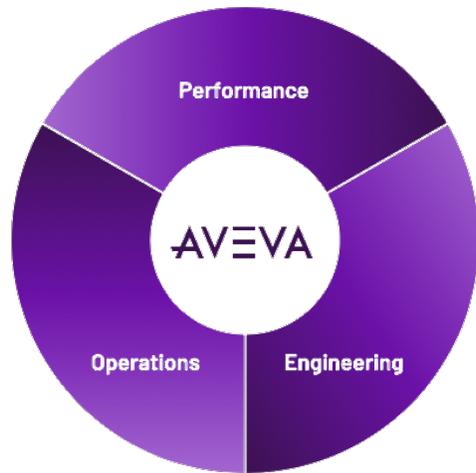
Unified Operations Center

Digital Transformation | Convergence | Optimization | Monitoring & Control

Michelle Klein

Global Offer Manager, Unified Operations Center

Area of Focus | Centralization & Convergence

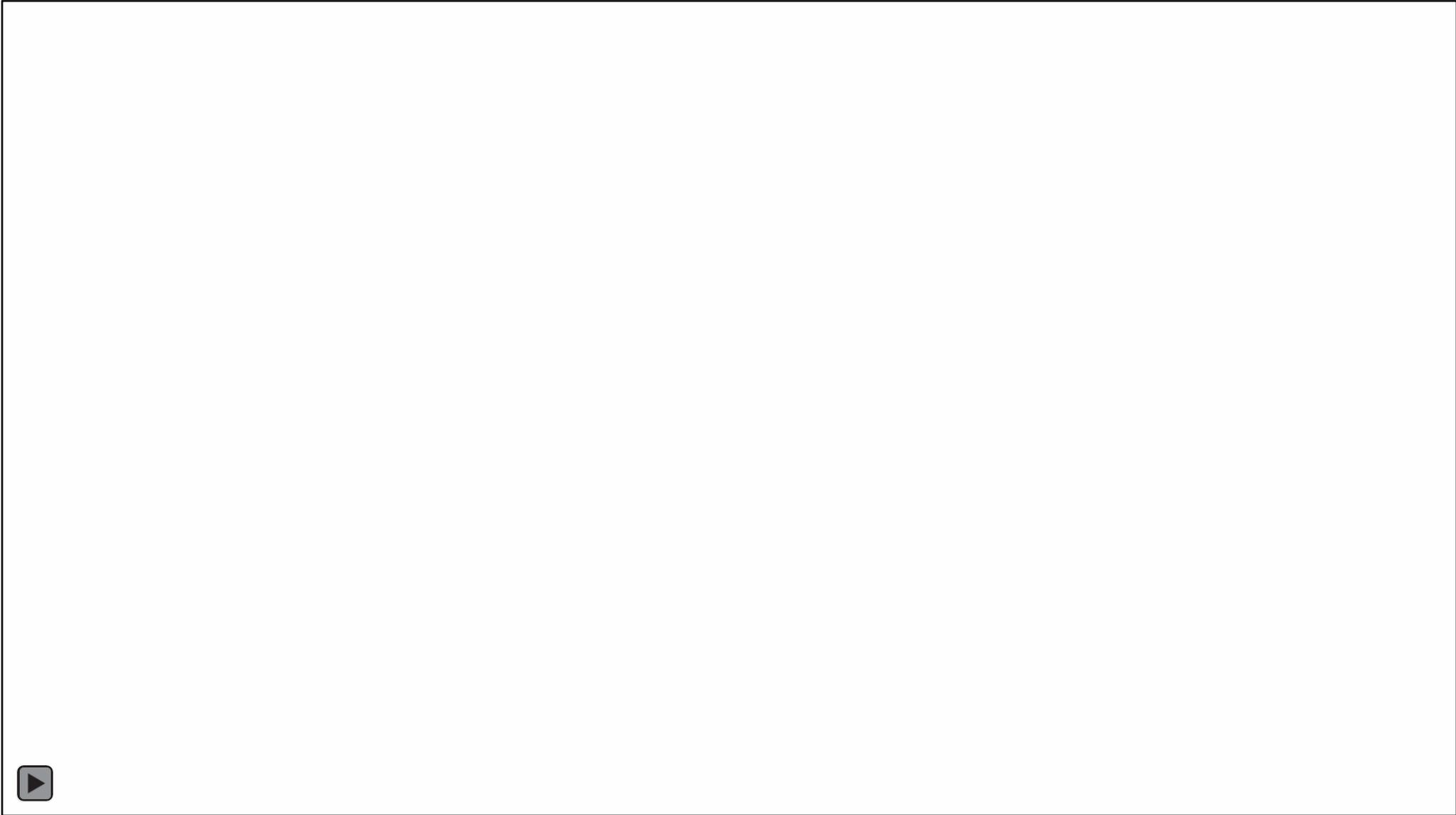


Collaboration

Operations Management

Expanded Visibility

Agility and Flexibility



UOC | Industries of Focus

*“empowers organizations with a **centralized view** to help make **informed** decisions, **fast**. Bringing end-to-end **operational visibility** across facilities helps you **improve** safety, operational **efficiency**... ultimately **lower** costs and **improve** margins “*

**Industry:
Infrastructure**



**Industry:
Oil & Gas**



UOC | Drivers | Industrial Software Market

Market



CapEx and OpEx Pressures



Demand Shifts, Consolidation and New Competition



Sustainability Goals



Geopolitical Uncertainties



'Digital' Workforce



Ease of Information Access



Tech Trends



Cloud



Industrial IOT



Big Data and Analytics



Digital Twin



Artificial Intelligence



Augmented and Virtual Reality



Imperatives

Capital project risk and efficiency

Value chain optimisation

Asset reliability and availability

Operations visibility and decision support

Workforce evolution and capability

Information security

UOC | Drivers | Industrial Software Market Today

Top Drivers

Enterprise wide visibility and real-time decision support

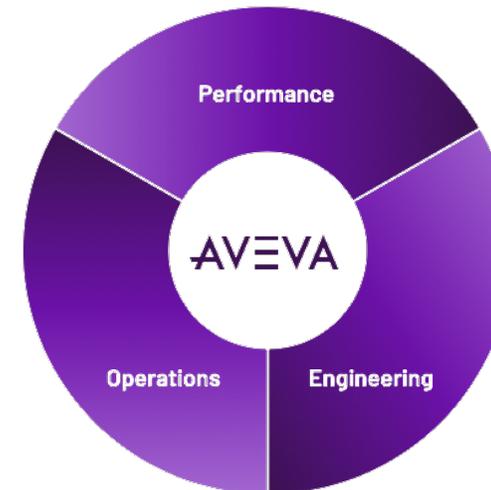
Enable remote operations and provide actionable guidance

Improve operational efficiency and effectiveness

Safeguard supply chains with Digitalization

Improve workforce efficiency, collaboration and capability

Businesses refocus resources and investment on digital transformation to ensure safety, support remote activities, and ensure continued operations



Continuity of Operations & Maintenance

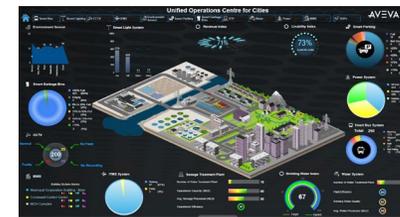
Converged Data to Make Critical Business Decisions

Optimized Collaboration

Efficient and Expanded Remote Access

Executive stakeholders rapidly study conditions and operations to make key business decisions

UOC | What is UOC?

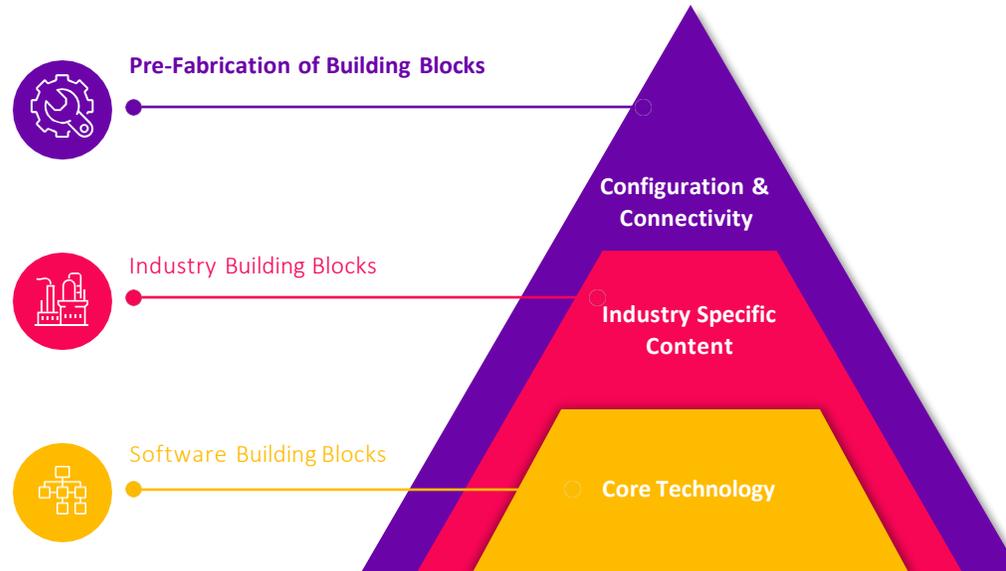
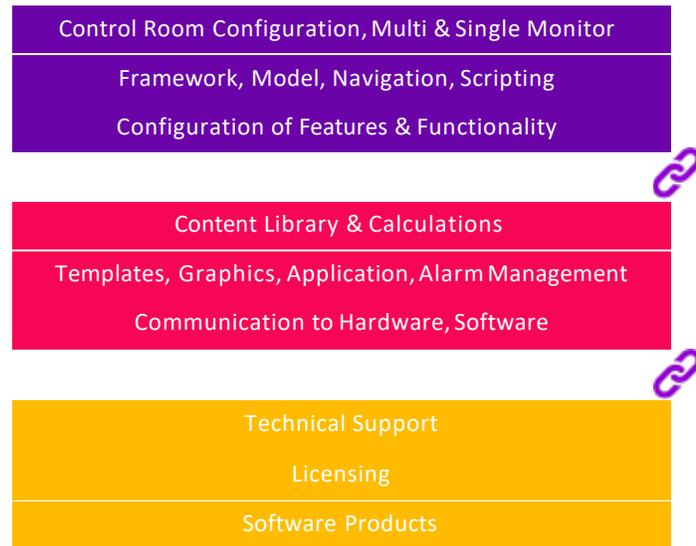


Based on a "Systems of Systems" approach, Unified Operations Center allows plug-in and integrated apps. Extend traditional HMI and SCADA applications to deliver a convergence platform for both Operational Technology (OT) as well as Information Technology (IT).

Based on a "Systems of Systems" approach, Unified Operations Center allows plug-in and integrated apps, analytics, CCTV videos, GIS maps, ERP systems, Engineering P&ID diagrams and more. With out-of-the-box industry solution templates, reports, dashboards, and operational KPIs unifying your functional teams, departments and sites, seamlessly, under one platform, Unified Operations Center enables faster time to value.

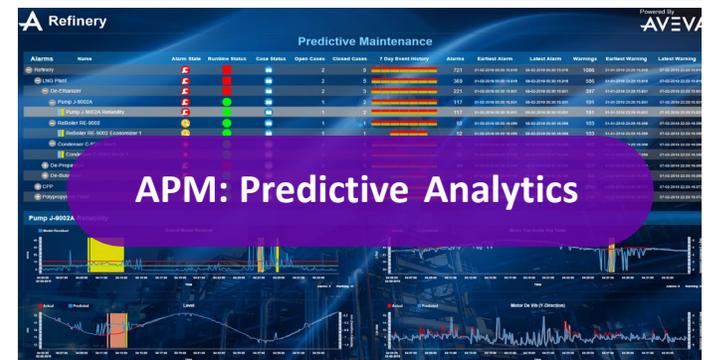
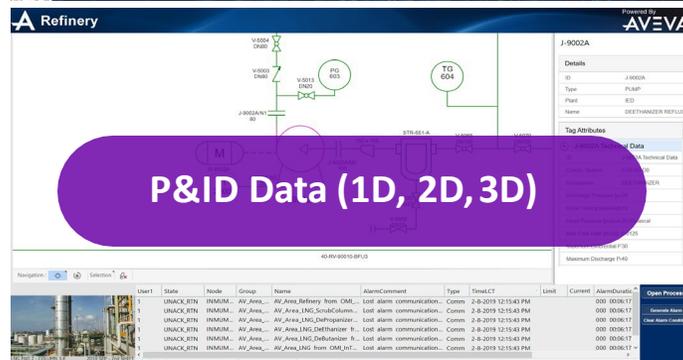
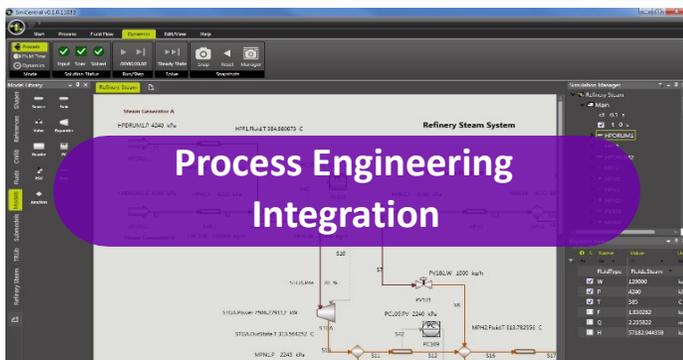
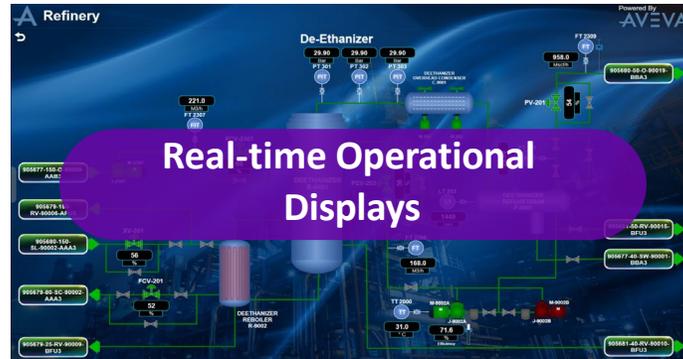


UOC | What is UOC?



Industry Solution Offer

AVEVA's productized solution is built upon industry best practices, trending technologies, and AVEVA's own project delivery lessons-learned from executing complex projects with Oil & Gas industry leaders. Provides customers with high value out-of-box content; accelerating design and development stages of execution.



UOC | What is UOC?



Fully industry specific solution and template-based approach to accelerate faster time to value

Key Value

- **Real-time decision support system**
Brings end-to-end enterprise visibility for safe and optimized real-time operations
- **Enterprise visibility drives operational performance** - effective operational monitoring at corporate HQ and subsidiary levels of the organization to access target vs actual operational KPI execution
- **Increase efficiency and improved profitability** - efficient *automated* collaboration and elimination on manual work processes through automated SOP(s), workflows and enterprise visibility

UOC | What is UOC?

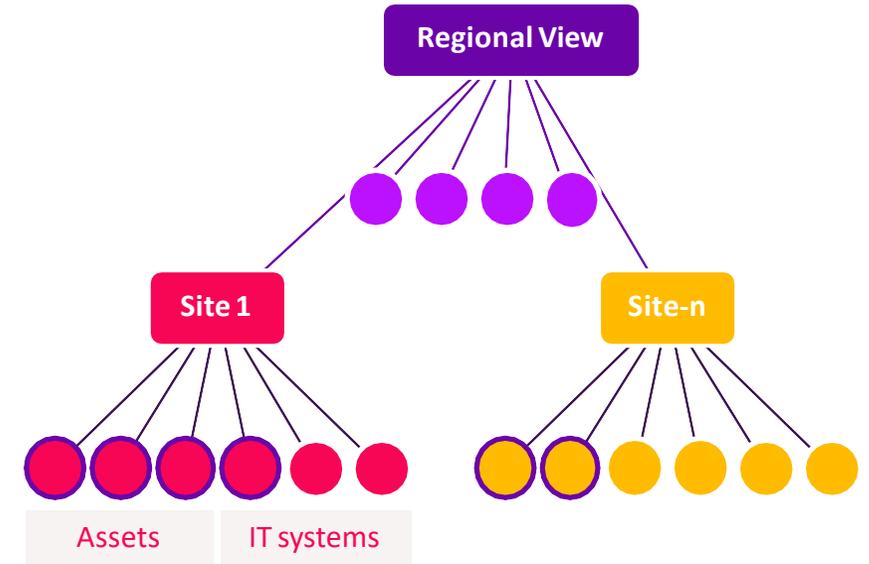
Delivering a single version of the truth by integrating all available data sources



IT Systems (ERP, Custom apps)

All Users and Processes

Assets and physical systems



Connect, Collect, Integrate, Analyze, and Act From Disparate Data Sources Across Multiple Sites

UOC | What is UOC?

Delivering a single version of the truth by integrating all available data sources

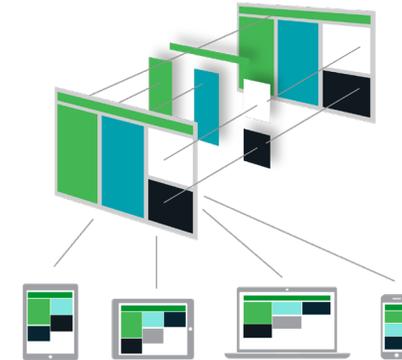


IT Systems (ERP,
Custom apps)

All Users and
Processes

Assets and
physical systems

Visibility with notification,
actions, workflow



Connect, Collect, Integrate, Analyze, and Act From Disparate Data Sources Across Multiple Sites

UOC | What is UOC?

Delivering a single version of the truth by integrating all available data sources



IT Systems (ERP,
Custom apps)

All Users and
Processes

Assets and
physical systems

Middleware for engineering,
operations, maintenance and IT applications

- Connectors
- Template driven for scalability and easier deployment
- Supports hierarchical model for aggregation

Connect, Collect, Integrate, Analyze, and Act From Disparate Data Sources Across Multiple Sites

UOC | Why AVEVA? Unique Approach



ACTIONABLE

Only AVEVA is a combination of back office, front office, and operations. We don't only show data, but what to do with it, too



UNIVERSAL

Only AVEVA is so comprehensive we can pick you up at any point on your digitalization journey and take you anywhere you want to go



AGNOSTIC

Only AVEVA is vendor agnostic. Our systems integrate with all major tools, tech providers, and incumbent players alike

Operationally Useful

Seamlessly integrates with all operational systems to deliver faster, better, more efficient decision making

Flexible

Flexible in architecture, technology, and commercial model

Fully Compatible

No need to rip and replace thanks to vendor-agnostic technology

Transparent & collaborative

Full visibility of data, no more silos, everyone working together on a single version of the truth

UOC | Value Proposition

Efficiency improvement

- Maintenance workload assessment
- Asset management, spare parts, staff
- Real-time operations visibility and integration
- Avg. £.5-1M annual benefit

Energy Saving

- Integrated with real-time calendars, events and scheduler for un-utilized areas/equipment
- Avg. 10%M annual benefit

Asset Utilization

- Real-time monitoring and control
- Network failure detection to minimize operations
- Avg. £250K reduction in operational costs

Predictive Diagnostics for rotating equipment

- Predictive failure warning and fault diagnostics
- Centralized asset performance monitoring
- Helping in asset investment planning
- Avg. £100K savings for each predicted failure

Customer Satisfaction improvement

- Enhance reporting and feedback
- Improved response time to critical issues

Operator Training improvement

- Enhance operational efficiency of new workforce
- Avg. ROI within 12-18 months

Unified Operations Center Solutions:

A transformative integration approach (sites, people, process, assets and technology) to drive operational excellence across multiple sites through innovative solutions

- **Operational Efficiency**
- **Energy**
- **Asset Utilization**
- **People Utilization**

Efficiency Improvement and ROI Opportunities



UOC Offer

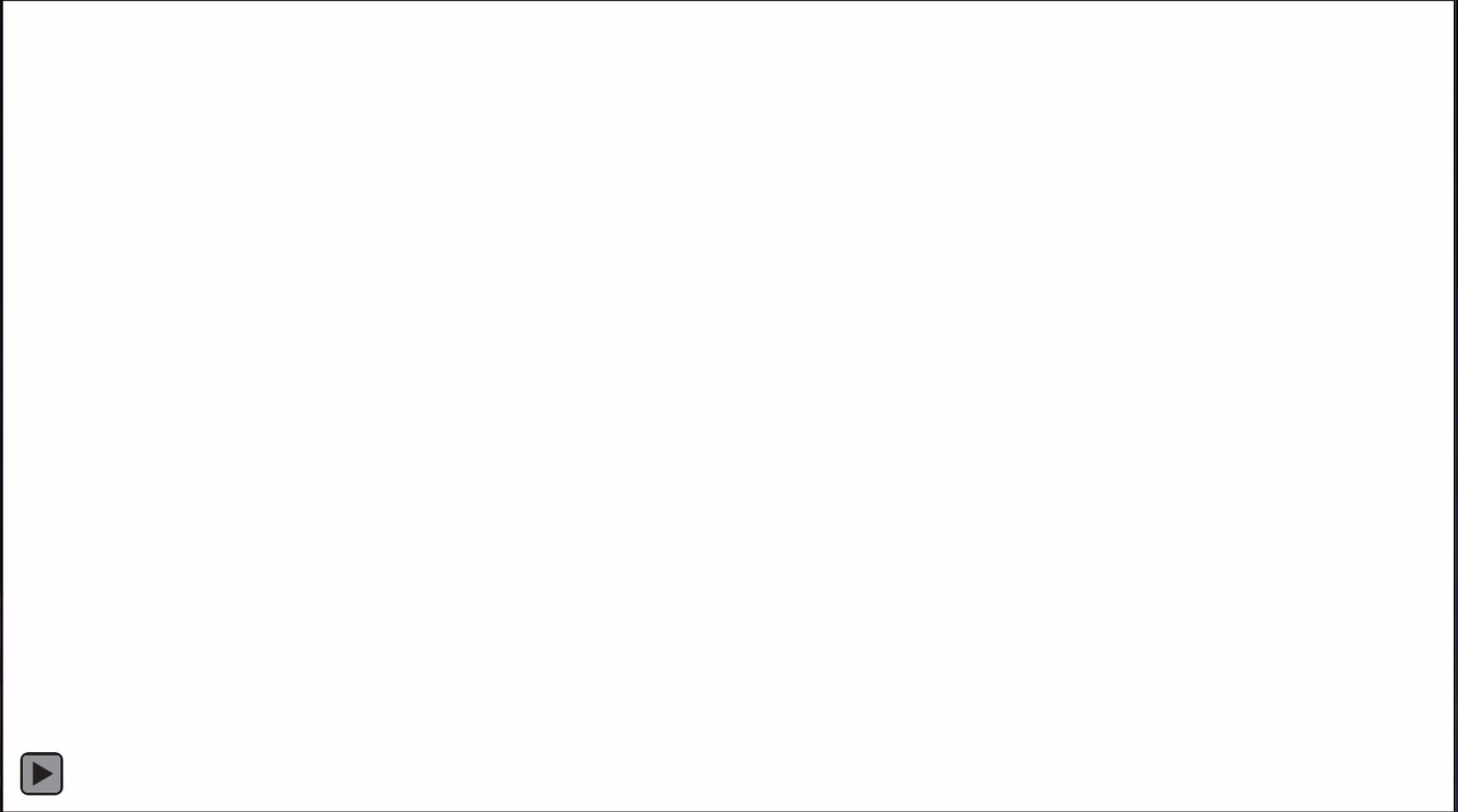
Smart City

Transportation

Buildings

Data Centers

Water





UOC Offer

Smart City

Transportation

Buildings

Data Centers

Water



 [linkedin.com/company/aveva](https://www.linkedin.com/company/aveva)

 [@avevagroup](https://twitter.com/avevagroup)

ABOUT AVEVA

AVEVA is a global leader in engineering and industrial software driving digital transformation across the entire asset and operational life cycle of capital-intensive industries.

The company's engineering, planning and operations, asset performance, and monitoring and control solutions deliver proven results to over 16,000 customers across the globe. Its customers are supported by the largest industrial software ecosystem, including 4,200 partners and 5,700 certified developers. AVEVA is headquartered in Cambridge, UK, with over 4,400 employees at 80 locations in over 40 countries.

[aveva.com](https://www.aveva.com)