



BROCHURE

Unified Operation Center





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AVEVA™ Unified Operations Center

AVEVA Unified Operations Center is the foundation providing real-time operational performance management through enterprise visualization to optimize operations for infrastructure and process industry organizations.

Converge OT and IT systems into a single pane-of-glass that contextualizes actionable information to improve decision making, enhance collaboration, and support knowledge management and sharing. Forming this center of excellence delivers an enhanced layer of performance intelligence ensuring that data works in service to organizational goals. The result brings end-to-end operational visibility across facilities helping you improve safety, operational efficiency, and ultimately the profit margins of your business.

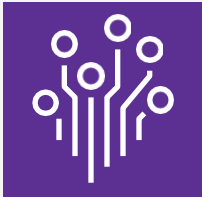


Overcoming siloed information challenges

When it comes to business agility and optimizing your operations, information silos can be one of the biggest obstacles to delivering profitability.

With siloed IT and OT systems, your teams do not have full visibility to the data that drives real-time decisions, and ultimately drives your business. Operational inefficiencies make it difficult to align your processes or collaborate effectively. Eventually leading to frustrated teams and reduced profit margins.

The ability to 'visualize your business' informs critical decisions and adjustments that directly impact your bottom line. The real value lies in the improved integration and collaboration across functional departments, enabling the sharing of information and coordination of daily activities and processes.



2020 revealed that organizations struggle to achieve visibility of business performance and leverage the large amount of data generated to understand what happened, what is happening, and what will happen. This is impacting the ability to be proactive, agile, and optimize asset performance, costing more than 3% of profits annually.



Operations and maintenance

- Respond rapidly to unplanned downtime or crisis situations by leveraging engineering data in its real-time, operational context
- Eliminate human error and manual processes with automated workflows, such as automatic work orders, and easily access standardized operating procedures
- Improve collaboration using improved shift handovers and electronic operator log books



Technical services (engineering)

- Management of Change project analysis by cost and schedule
- Optimize plant throughput and asset utilization using what-if analysis scenarios, and modeling of process and equipment parameters
- Improve profit margins and reduce energy with energy consumption analysis by equipment



Business management

- Provide effective operational monitoring at headquarters and subsidiary levels of the organization with target versus actual performance analysis
- Understand inter-dependencies by unlocking data stored in disparate systems and gain new insights into process parameters
- Monitor critical parameters such as Environmental, Safety & Health to reduce risk





A unified platform for your Digital Transformation

This example from our London Customer Experience Center exemplifies how organizations can achieve greater visibility from end-to-end with enterprise visualization, increased collaboration, and enhanced operational agility through AVEVA Unified Operations Center, leading to multi-million-dollar cost savings.

Connecting people, assets, and data across the organization empowers your teams with enhanced intelligence that improves strategic decision-making across sites, increases reaction times through alignment of operations and engineering, and optimizes operations to add value to your bottom line.

The future industrial enterprise should:



Be operationally agile and resilient to continuously optimize supply chains across the enterprise and geographies to improve and protect profits and margins despite of dynamic and volatile markets.



Reliable and safe while operating assets in adaptive and autonomous way and often remotely.



Ensure sustainability reducing environmental footprint with better control over operations to avoid waste and operate in a sustainable way reducing site visits and personnel onsite.

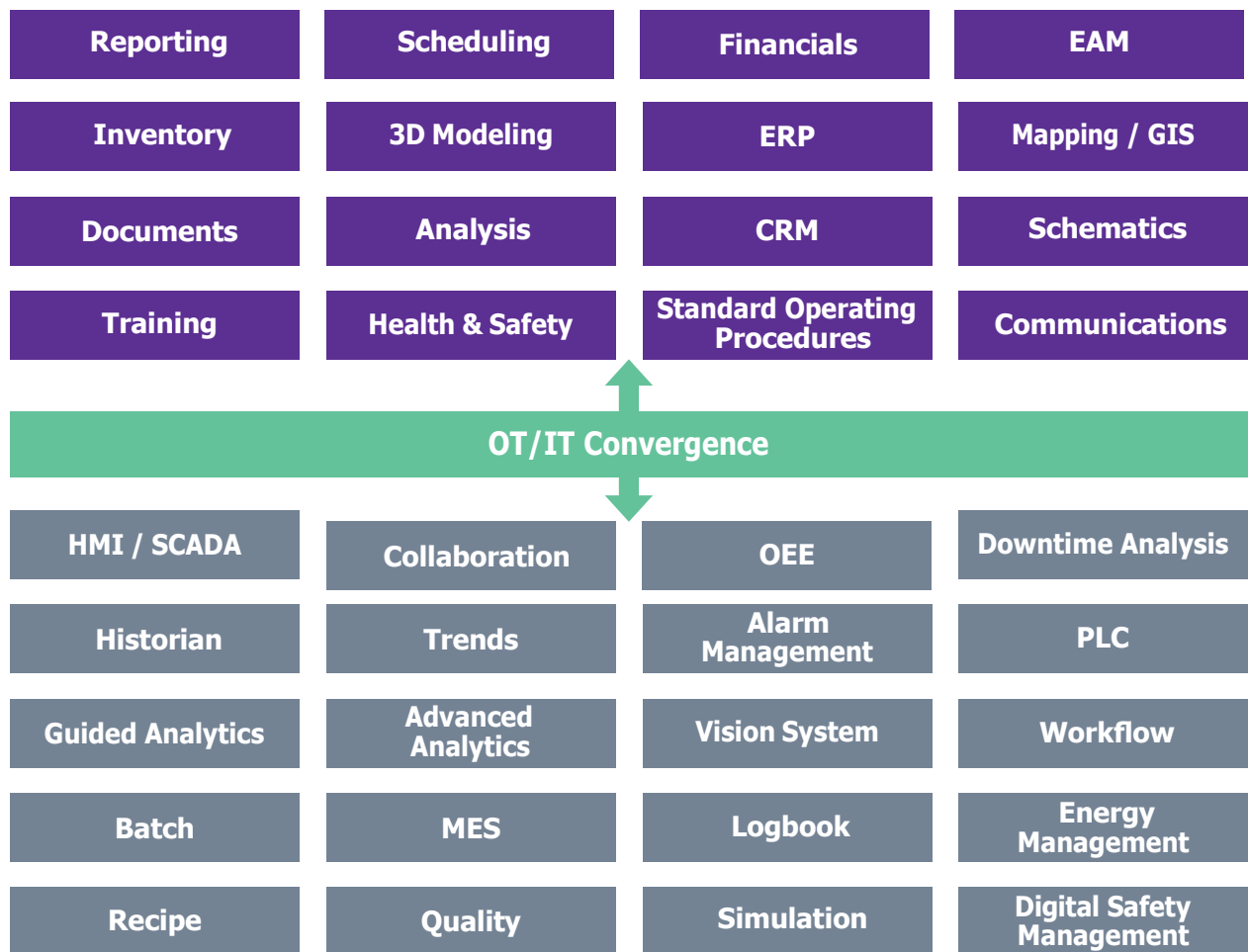


Empower the connected workforce by providing with rich information and decision support to collaborate, work efficiently and safely.

Converging OT and IT

Based on a "Systems of Systems" approach, Unified Operations Center converges both process and non-process information sources from HMI/ SCADA, analytics, cameras, GIS maps, ERP systems, engineering diagrams and more.

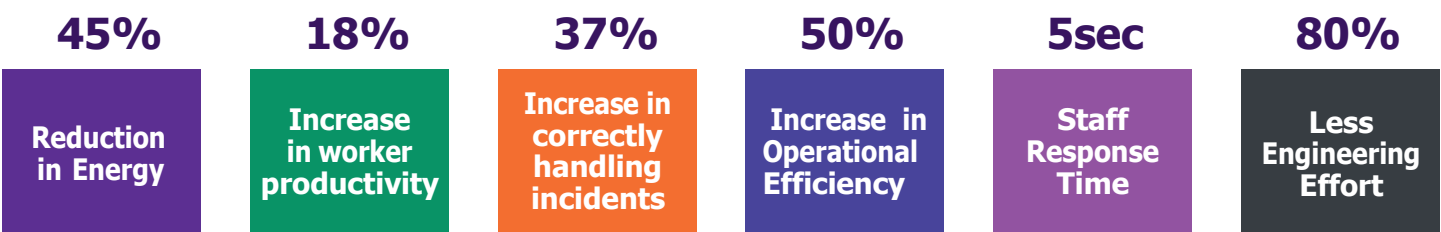
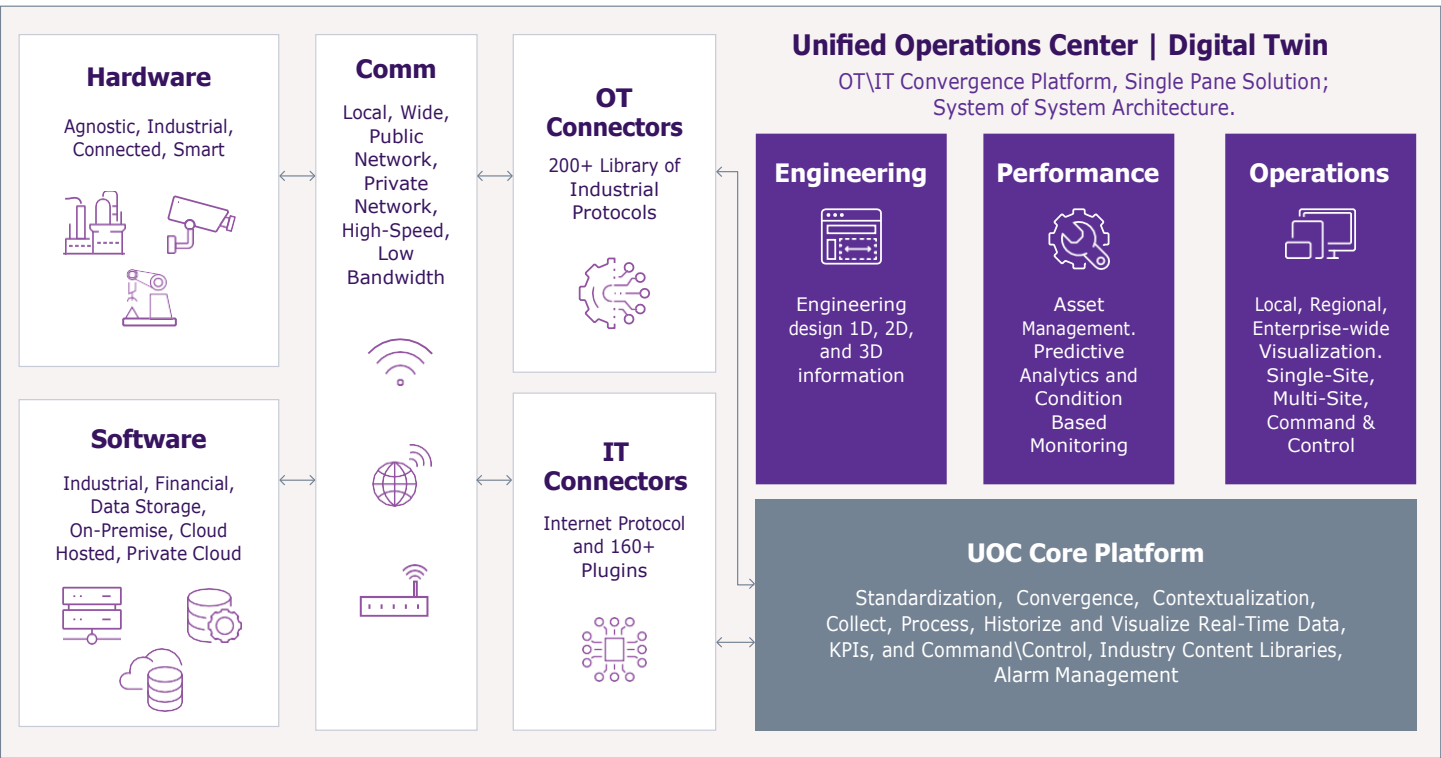
And with out-of-the-box industry solution templates, reports, dashboards, and operational KPIs unifying your functional teams, departments, and sites, seamlessly under one platform, Unified Operations Center enables faster time to value.



Operate seamlessly

Whether your operation is on-premises, in the cloud, or at the edge – we bring it all together into an environment that integrates and manages your data with tools and services designed for hybrid architectures.

We leverage our software portfolio to deliver an operations environment that offers a broad perspective across departments and teams helping transform how you operate.



Abu Dhabi National Oil Company (ADNOC)

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The importance of embedding digital technology in businesses has never been greater and ADNOC's continuous investment in digital transformation over the last three years allows us to be more resilient, agile and responsive in navigating today's market landscape. Our Panorama Digital Command Center acts as our 'eyes on the ground' and enables speed, accessibility, and integration across our operations – key attributes that are required to make smart business decisions.

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Nava Raipur Smart City

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We selected AVEVA as our ICT partner because we felt they had the experience, expertise, technology, and knowledge to fit with our Smart City vision. We had engaged PwC as a consultant and asked them to work with us to develop our plan. They created a tender for a technology partner, and AVEVA was the best bid for our needs. As we look to the future, we are confident that AVEVA has the software technology we need to scale and grow our operations capabilities, enabling us to support the development of Nava Raipur as a Smart City hub for Chhattisgarh.

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Industry solutions

AVEVA Unified Operations Center addresses several use cases across industries, such as Oil & Gas, Infrastructure and Smart Cities, Data Centers, Marine, Power, and Mining.



Unified Operations Center for Oil & Gas

Gain real-time visibility of processes, proactively resolve abnormal events, and prevent disruption of production through a single pane of glass



Unified Operations Center for Smart Cities & Infrastructure

Operating procedures, reduce response times to crises, and troubleshoot problems effectively with integrated command and control of critical infrastructure, buildings, airports bridges, tunnels and railways



Unified Operations Center for Mining

Optimize work processes to reduce energy and production loss, streamline shift handovers and generate automated work orders



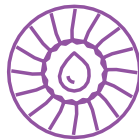
Unified Operations Center for Data Centers

Manage complexity across multiple sites and systems, maintain uptime supporting service level agreements and managing costs tied to energy, water, workforce efficiency and sustainability



Unified Operations Center for Marine

Take complete control of vessel development, shipyard operation, and the digital ship to create a sustainable and optimized marine industry from end-to-end



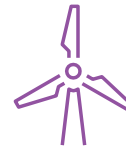
Unified Operations Center for Water & Wastewater

Monitor and control water and wastewater operations from end to end and drill-down from broad regional views down to asset specific KPIs for complete performance visibility



Unified Operations Center for Power

Achieve a complete view of power operations aligned with business goals that enable agile and responsive operations to maintain uptime, improve forecasting, and drive greater enterprise visualization



Unified Operations Center for Renewables

Converge all aspects of renewable power generation and distribution from wind and solar into a single pane-of-glass using a map-based view to drill down into performance KPIs and ensure operations reliability

Learn more about Unified Operations Center, at: aveva.com/UOC



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