

AVEVA

A woman and a man, both wearing white hard hats and high-visibility yellow safety vests over light-colored shirts, are standing in an industrial facility. The woman is holding a tablet and looking at it, while the man is holding a blue clipboard and a red walkie-talkie, looking at the clipboard. They appear to be reviewing documents or data together. The background shows large industrial pipes and machinery.

Operating on a
different level with
AVEVA™ Operations Control



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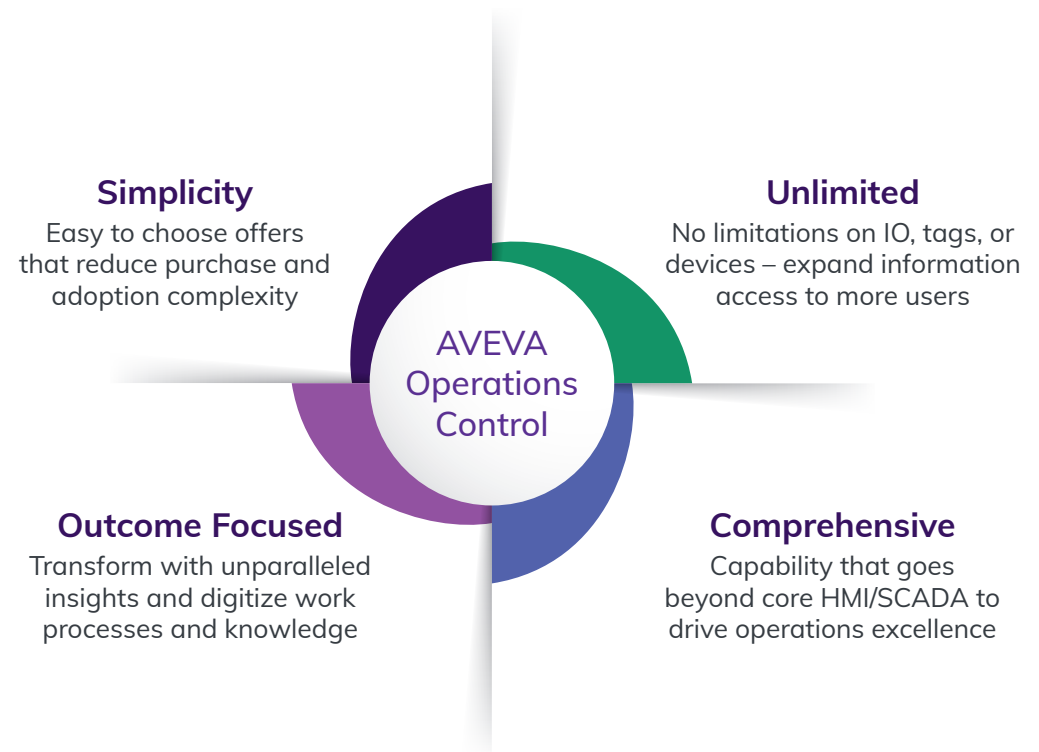
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Executive summary

Operations teams are comprised of personnel that require distinct perspectives, from an operator on the plant floor managing a production line, to an operations technician monitoring the performance of in-the-field assets, a control room supervisor overseeing the daily operations of the facility, or a global director ensuring optimal supply chain performance. The information and tools available shape your awareness of operations and empower you with the insights necessary to make faster and more informed decisions.

Read on as we explore how AVEVA Operations Control delivers what it takes to achieve operational awareness for industrial and infrastructure organizations in a digitally-driven world.



Defining operations teams

Plant/Field Teams

Operators, technicians and work crews are narrowly focused, often with a perspective limited towards ensuring optimal performance during a single shift and associated with a line or specific process equipment.

Control Room Teams

Production leaders, performance specialists and plant managers overseeing a facility or operations region are most concerned with a medium term focus up to a week or month, ensuring maximum uptime and critical KPIs are met.

Enterprise Teams






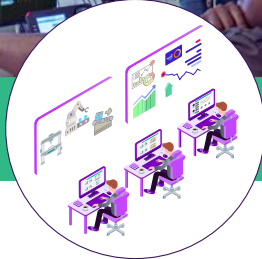
Analysts, directors and executives at the enterprise-level typically have a long-term and broad perspective up to a year in the future, with a focus on resolving immediate concerns across global operations in order to achieve fiscal targets.

Operations teams exist at various levels of the organization, where physical location, perspectives, and timescales differ, but there is a need to align towards a common goal using shared information to create actionable insights.

All teams can benefit from a common software and data environment that enables real-time visibility into operations relevant to their role. This single version of the truth drives collaboration by leveraging internal knowledge to crowd-source insights and resolutions to problems before they affect the organization.

Building resiliency into everyday operations from edge to enterprise improves overall efficiency, reliability and agility.

Essential information by operations team

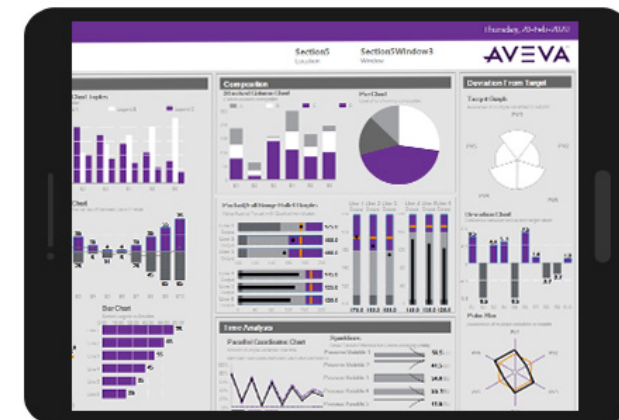
																																						
Plant/Field (Equipment-centric) 	Control Room (Site-centric) 	Enterprise (Global/Regional) 																																				
<table border="1"> <tr><td>Extended Reality</td><td>Trends</td></tr> <tr><td>KPIs</td><td>Collaboration Tools</td></tr> <tr><td>Process Screens</td><td>Historian</td></tr> </table>	Extended Reality	Trends	KPIs	Collaboration Tools	Process Screens	Historian	<table border="1"> <tr><td>Energy</td><td>MES</td></tr> <tr><td>Dashboards</td><td>Predictive Analytics</td></tr> <tr><td>3D Models</td><td>Mobile Rounds</td></tr> <tr><td>Operator Training</td><td>Workflow</td></tr> <tr><td>Extended Reality</td><td>Collaboration Tools</td></tr> <tr><td>KPIs</td><td>Trends</td></tr> <tr><td>Process Screens</td><td>Historian</td></tr> </table>	Energy	MES	Dashboards	Predictive Analytics	3D Models	Mobile Rounds	Operator Training	Workflow	Extended Reality	Collaboration Tools	KPIs	Trends	Process Screens	Historian	<table border="1"> <tr><td>Financial</td><td>Supply Chain</td></tr> <tr><td>Energy</td><td>ERP</td></tr> <tr><td>Dashboards</td><td>Predictive Analytics</td></tr> <tr><td>3D Models</td><td></td></tr> <tr><td></td><td>Workflow</td></tr> <tr><td></td><td>Collaboration Tools</td></tr> <tr><td>KPIs</td><td>Trends</td></tr> <tr><td>Process Screens</td><td>Data Modeling</td></tr> </table>	Financial	Supply Chain	Energy	ERP	Dashboards	Predictive Analytics	3D Models			Workflow		Collaboration Tools	KPIs	Trends	Process Screens	Data Modeling
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Empowering teams operating at the plant and in the field

Industry is rapidly increasing the amount of connected equipment to extract data that can be used to ensure optimal performance of that asset. In addition, the tenure of a plant or field team operator is declining, leading to less retained knowledge of how to maintain and operate systems.

To sustain efficiency gains, these teams need the ability to react quickly, diagnose an issue, and implement a resolution. Operators equipped with real-time situational awareness are more likely to respond to an abnormal event correctly. And by collaborating digitally, operators can guide each other with process insights and operating parameters that ensure optimal performance.

AVEVA Operations Control puts world-class HMI / SCADA, collaboration and reporting tools in the hands of front-line operators, empowering them with the knowledge and insights to perform at their best.



Up to 1 shift
(Work cell view)

Up to 1 week
(Process view)

Up to 1 year
(Enterprise view)

Collaborate and share data
with other team members

The greatest value from a Connected Workforce is created by changing how individuals interact with their work environment, and with the people and systems comprising the overall operational management system.

Source: <https://blog.insresearch.com/connected-worker-2020-ebook>

Real-time operations
performance intelligence

Connected experience
offers seamless
situational awareness

Executive
summary

Defining
operations teams

**Empowering
operations teams**

New tactics for
integrating operations

Operating on a
different level

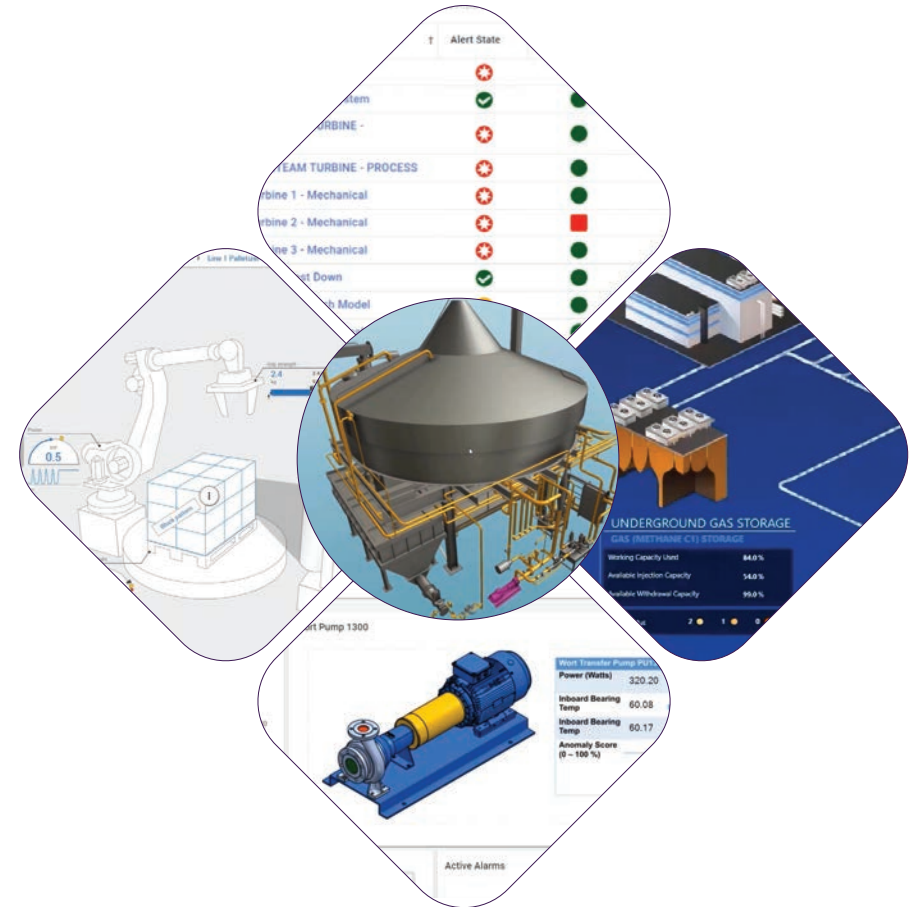


Building confidence in the control room

It is easy to underestimate the level of detail required to manage site-wide and distributed operations. Coordinating engineering, operations and maintenance activities with the least amount of disruption is a complex task. One that is even more challenging if decision makers aren't supplied with accurate information.

The introduction of visual standards, asset models and AI has revolutionized the way control room teams respond to events and operations that require constant supervision. Abnormalities and critical issues are brought to their attention automatically, with a focus on pinpointing exactly where, using 3D and other modern visualization.

Maintaining awareness over critical operations has never been so easy. AVEVA Operations Control provides a user-centric software framework that connects people, processes and assets for the perfect balance to get the job done.



Performance Intelligence
for greater operational
awareness

Up to 1 shift
(Work cell view)

Up to 1 week
(Process view)

Up to 1 year
(Enterprise view)

Plants in the process industries have reported up to 5-10 percent increased inventories and labor costs, delayed deliveries, and reduced profitability without having sufficient Operational Resilience processes in place.

Source: aveva.com/campaigns/operationally-resilient-companies-arc-whitepaper

Standardize operational
processes and remain
safety-focused

Holistic view of multiple
production lines or
distributed assets

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Enhancing visibility at the enterprise

Overseeing global supply chains and distant operations without the assistance of comprehensive digital platforms can put companies at a competitive disadvantage. Additionally, combining the numerous data sources that exist within organizations into actionable information can be challenging.

For enterprise-level staff, a complete end-to-end view can bring immense organizational benefits and expedite decision-making. Visualizing operations information, applying AI and converging data sources unleashes global operations teams to optimize every aspect of the organization. KPIs, graphs, and real-time optics into performance and facility status from a unified information system can drive greater improvements in efficiency, reliability and agility than stand-alone systems.

With enterprise visualization through AVEVA Operations Control, seeing the big picture is never out of reach.



Up to 1 shift
(Work cell view)

Up to 1 week
(Process view)

Up to 1 year
(Enterprise view)

Consolidated global view
of multi-site operations

Align operations and
engineering, adding
value to your bottom line

Digital transformations need appropriate technology infrastructure, both the IT systems used by the wider business and the operational technology (OT) systems used to control and monitor manufacturing processes.

Source: www.mckinsey.com/business-functions/operations/our-insights/heavy-industry-digital-transformation-vision-diagnostic-and-roadmap

Drill-down for detailed
site-based KPI analysis

Executive
summary

Defining
operations teams

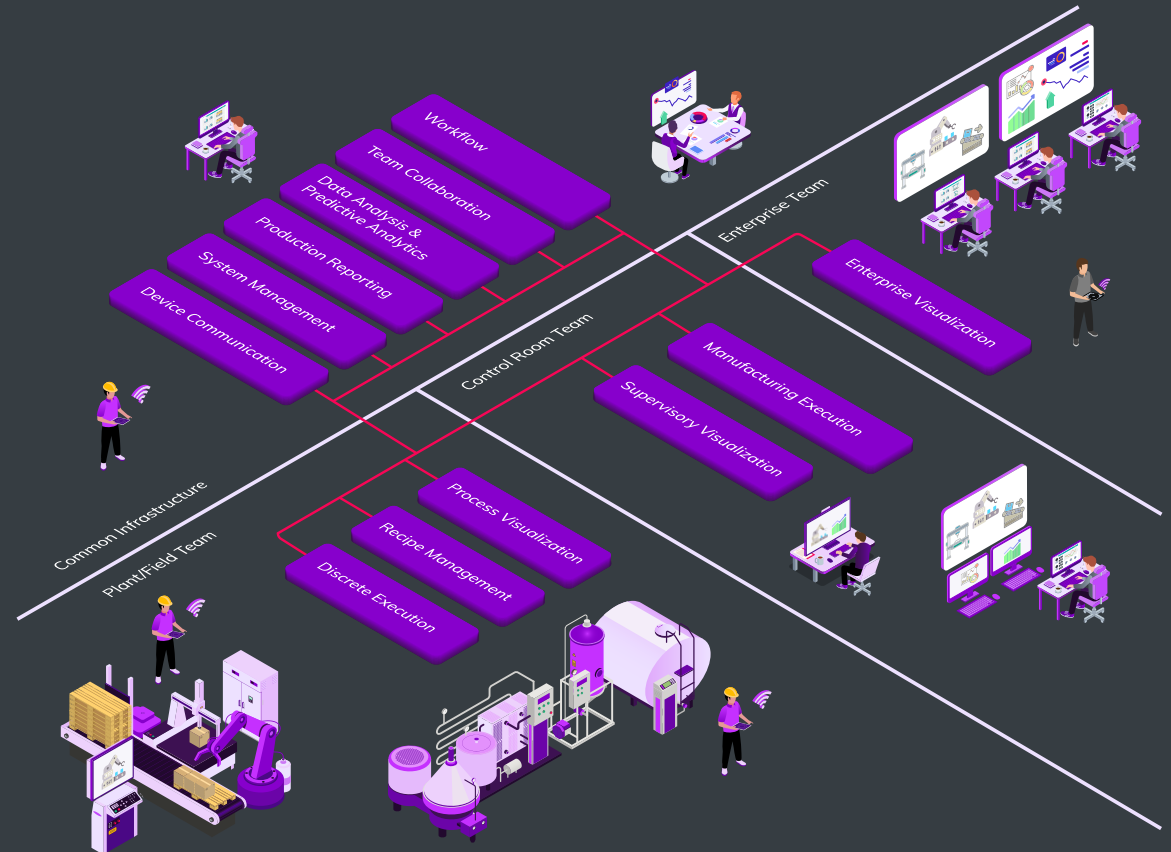
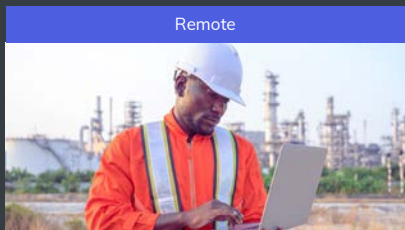
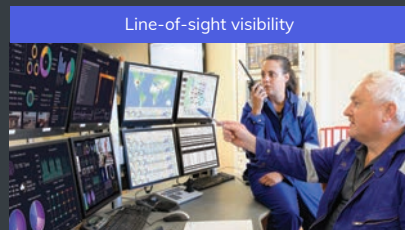
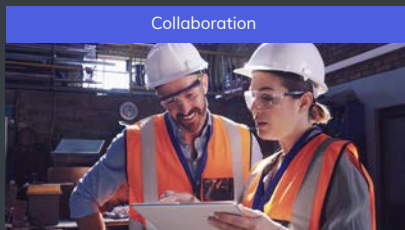
**Empowering
operations teams**

New tactics for
integrating operations

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different level



Bring a smarter future into focus with the confidence to operate from edge to enterprise



New tactics for integrating operations teams

Subscription vs. perpetual

Traditional perpetual software means you buy your operations software once, and then run it to failure, or until you're required to update it to access new features, security updates, or add operators or data points.

This traditional model is giving way to flexible operations software solutions like AVEVA Operations Control, where you use subscription to gain access to multiple software solutions and unlimited thin clients and tag counts. Using this model, software updates can be synchronized across the business, you always have access to the latest features and security updates, and you're always working on the most recent version of your software. You can be certain that you always have room to grow, with unlimited ability to add new operators or data sources to your system.

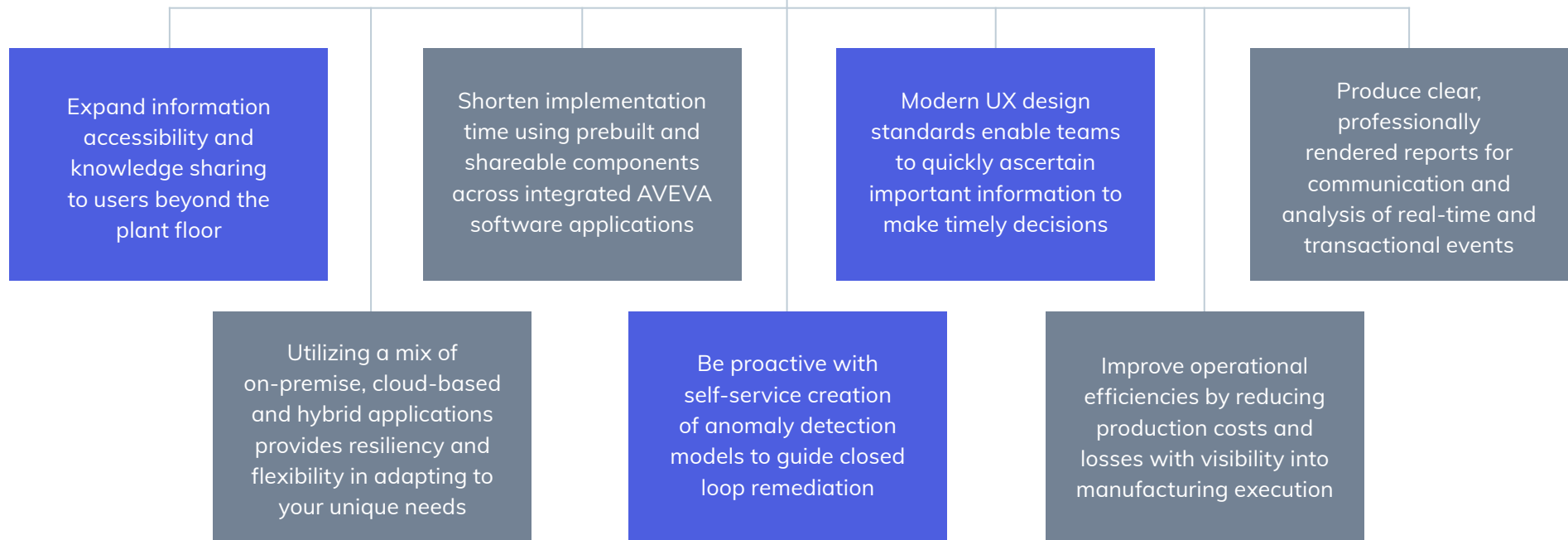
One thing holding your team back from true integration may be the constant struggle to keep up with the varying timelines of operations software updates, and managing thin client and operator licenses.



Operating on a different level

AVEVA Operations Control provides the operational excellence software necessary for the modern industrial operations environment and gives teams a consistent method of collaborating and operating from a cohesive and sustainable framework.

The new AVEVA Flex subscription, AVEVA Operations Control represents the next step in making our robust portfolio available through subscription in a simplified way to speed time to value and provide our customers with the software they need to drive improved decision-making.

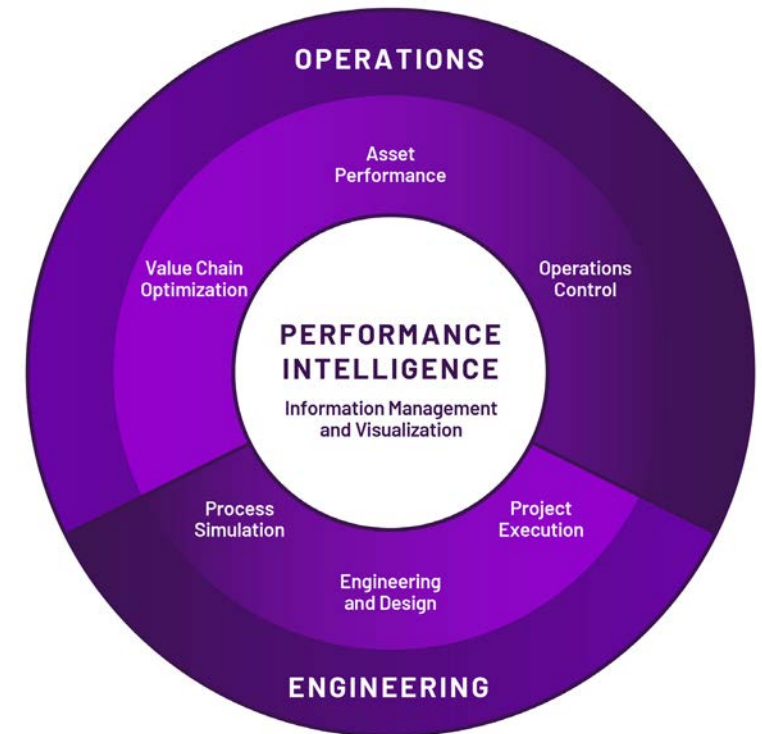


Unlocking Performance Intelligence across your industrial ecosystem

AVEVA infuses industrial software with intelligence to empower people to shape a sustainable future. We work with our customers and harness the power of our ecosystem to deliver operational agility and empower human expertise. Our solutions advance engineering and operations with Performance Intelligence.

From water and energy to food and infrastructure, we inspire insights that transform opportunity into sustainable business value. We combine unparalleled intelligence with collaborative innovation to enable people and industries to thrive.

Engineer smarter, operate better, and achieve more with Performance Intelligence. Our comprehensive software portfolio connects the power of information and artificial intelligence with human insight, empowering the people behind every day essential processes to make precise decisions and realize sustainable growth. Simplify design processes, optimize production, reduce energy and maximize performance with intelligent software. Now you can use AI to predict outcomes and provide guidance, enabling your teams to act faster.





AVEVA


We'll take you there™

For more information, please visit:

aveva.com/en/solutions/flex-subscription/aveva-operations-control

 aveva.com

 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.

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