



INDUSTRY SOLUTION

Operate reliably and flexibly by delivering relevant contextual information

To achieve sustainable and profitable industrial operations, reliable systems must support the evolving needs of personnel. Piecing together disparate software in isolation is unsustainable, and unlocking value from industrial data silos is critical to achieving engineering and operating efficiency. As evolving workforce requirements spur improved efficiency, the systems used to make critical decisions must include technologies that enable the creation of a digital thread, connect workers, and secure collective knowledge to maintain reliable operations.

Challenge: Lack of confidence in system and data reliability

The control and operations systems used by industrial organizations have been built piecemeal, with areas of the system languishing as others thrive. This creates a complex assembly of acquired and homegrown software implemented in silos. As organizational leaders incorporate technologies like Artificial Intelligence and cloud computing, legacy systems can suffer under the weight of expectations they were not designed to manage.

We rely on these systems to provide visibility and access to critical data – whether as a water utility seeking to improve efficiency and reduce loss to remain ecologically sustainable, or a global manufacturing supply chain adjusting to volatile markets. Decision-making happens rapidly, due to our globally connected supply chains. Can you rely on the data you receive from operations software to help drive business insights? Have your tools evolved as operations or business needs change?

Driving digital transformation initiatives based on insufficient systems can harm an organization's ability to be competitive, efficient, and agile. Challenges include:

- Legacy model control systems can't keep up with information demands
- Data can't always be trusted or leveraged for better decision-making
- It is frequently unsafe to rely on aging technologies – both stability and security may be at risk
- Teams that implemented systems are at risk of retiring or leaving
- These challenges apply pressure on teams to continuously improve the technology and tools at the heart of operations.

The decision to go digital will be based on the maturity of the existing processes (and the people running them), the support in place for the digital world – particularly the data models and architecture – and support tools such as analytics.

LNS Research

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.

Gartner Research

Industrial Transformation (IX) leaders are 72% more likely to have grown revenues by more than 10% and 57% more likely to have reduced Cost of Goods Sold (COGS) by more than 10%, as a result of their IX Program.

LNS Research

Solution: Purpose-built industrial software for reliable operations

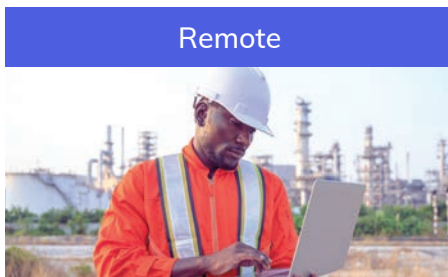
For connected workforce and digital transformation strategies to succeed, organizations must adopt a continuous improvement plan that reinforces the concept of a digital thread that bridges Information Technology (IT), Operations Technology (OT), and Engineering Technology (ET).

Implementing and maintaining operations technology platforms is a critical component of continuous improvement plans, which promote agility and confidence in the data used to make decisions. Incremental capabilities can be routinely added through regular updates and natural system evolution. Leveraging purpose-built software for industrial operations improves sustainable operations.

The goal to drive frictionless data sharing and bring complete operational awareness across engineering and operations requires trusted and reliable information. Adopting capabilities such as AI, predictive analytics, and powerful visualization are highly effective as part of a digital thread strategy. Traits of reliable operations and controls systems:

- Surfaces insights and guides users to make impactful decisions
- Builds trust through data integrity and secured database archives
- Supports architectural redundancy and failover
- Provides standardization, templating, and zero system downtime deployment features
- Built-in encryption and cyber security capabilities
- Integrates advanced applications such as predictive analytics and AI tools
- Features cloud connectivity, collaboration, and connected workforce tools
- Includes system management tools for optimizing software operation
- Offers extended lifecycle policies for future-proofing

A Digital Thread is universal access to operations data as it flows throughout the company, contextualized to department needs, facilitating a single source of truth that enables better and faster decision-making by offering complete visibility of operations and asset performance.





Customer Case Study – Procter & Gamble

Embracing Industry 4.0 across manufacturing plants to drive KPI improvements

Procter & Gamble standardized AVEVA software in 90 plants across the globe to accelerate time to market for a wide range of personal health, consumer health, and personal care and hygiene products. The AVEVA software platform acts as a flexible foundation for cross-functional teams to monitor, control and mitigate bottle necks with real-time and historical data across manufacturing processes and global sites.

Challenges avoided

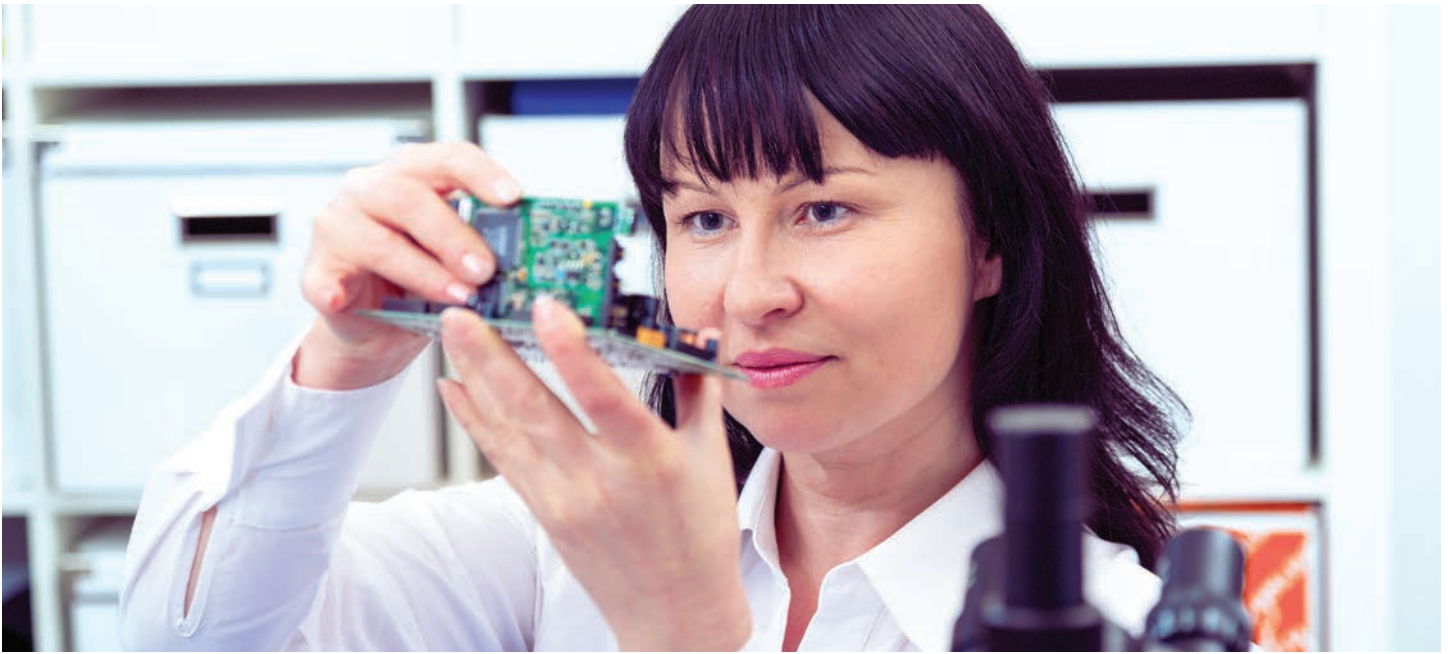
- Lack of operational visibility due to incongruent system and operational standards
- Expensive duplicative work re-developing a system foundation for each new plant
- Lack of collaboration between cross-functional teams due to siloed data

Goals of our collaboration

- Enable P&G to drive global system standards across its plants to reduce costs and provide a “single pane of glass” for managing operations
- Improve decision making and collaboration by providing employees visibility to both historical and real time data
- Leverage AVEVA global reach to standardize the platform and integrate with other systems, including regional SI services and tooling partners

Benefits of the implementation

- P&G drives system standards across all plants to unify data, achieve 360° reporting and KPIs and reduce implementation costs
- Templated system components allow P&G to standardize implementation and training for a global network of System Integrators
- Cross-functional teams have improved agility facilitated by access to historical and real-time data for identifying anomalies and operational trends



Customer Case Study – Global Semiconductor Company

Digital continuity and decreased time to market

A global semiconductor fabrication company implemented AVEVA software to provide a reliable foundation for managing critical utilities consumption, including control for the supply of gas, chemicals, water, and power, during the manufacturing process. This boosts sustainability and supports the company's Industry 4.0 initiatives towards achieving digital transformation.

Challenges avoided

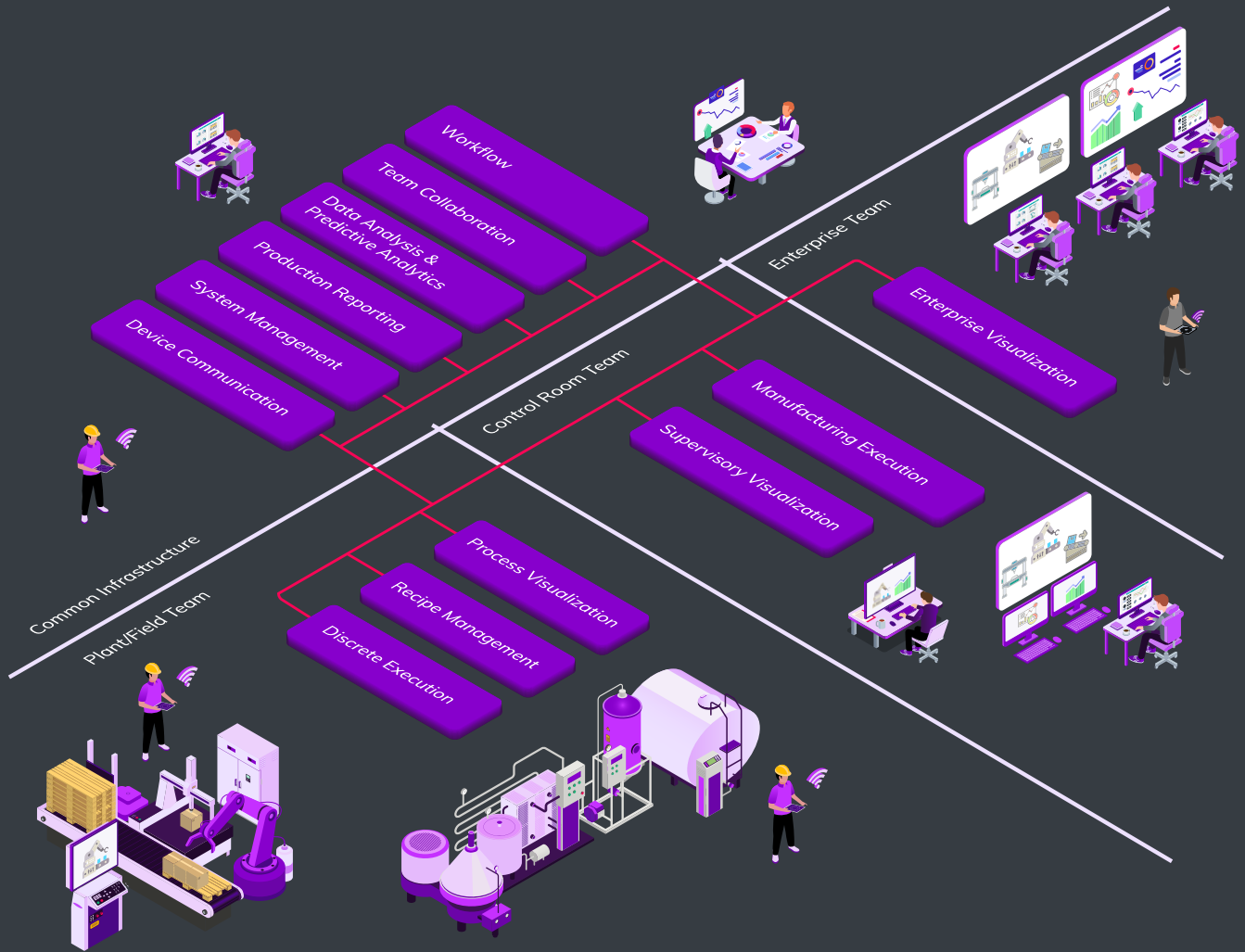
- Need to leverage early engineering efforts and to share information across multiple sites
- Desire to implement better tools to monitor and control facilities & assets
- Requirement for better understanding of digital transformation and benefits

Goals of our collaboration

- Increase efficiency software management used to run facilities
- Leverage AVEVA's global reach to standardize the platform and integrate with other systems, including regional SI services and tooling partners
- Drive global acceptance of a standard platform

Benefits of the implementation

- Standardization across sites promotes efficient practices, including reuse of code and object assets
- Common platform helps teams to share data and run combined analytics to optimize operations
- Company is embracing sustainability and Industry 4.0 practices, leading the way in the semiconductor industry



How AVEVA can help

AVEVA's industrial software empowers the people behind industries to engineer smarter and operate better. We connect teams to actionable information essential to growth.

While perspectives at each level of operations may differ, the common need to bring teams together across the business requires advanced software.

AVEVA Operations Control provides software for modern industrial operations and gives teams consistent methods of collaborating and operating from a cohesive, sustainable framework.

From real-time HMI/SCADA, collaboration, and reporting, to manufacturing execution management and predictive analytics, AVEVA Operations Control combines edge computing, hybrid deployment, cloud analytics, mobile access, and AI into a comprehensive operations software package.

For more information visit:

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

AVEVA

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