AVEVA™

Edge to Enterprise

Enabling Connected Operations

- AVEVA™ Unified Operations Center
- AVEVA™ System Platform, formerly Wonderware
- AVEVA™ InTouch HMI, formerly Wonderware; AVEVA™ Citect
- AVEVA™ Edge
- AVEVA™ Edge IoT

In today's competitive environment, you need to drive more performance from your assets, collaborate better and generate more value from your existing automation systems. All businesses converge on the need to maximize return on assets through operational excellence. Staying competitive means constantly finding ways to operate faster and leaner at the plant level.

AVEVA empowers organizations to operate their business in real-time and make smarter decisions - streamlining processes, optimizing operations and improving safety. Our solutions leverage data-driven visualization to increase operational efficiency, collaboration and eliminate value leaks.

Right Portfolio

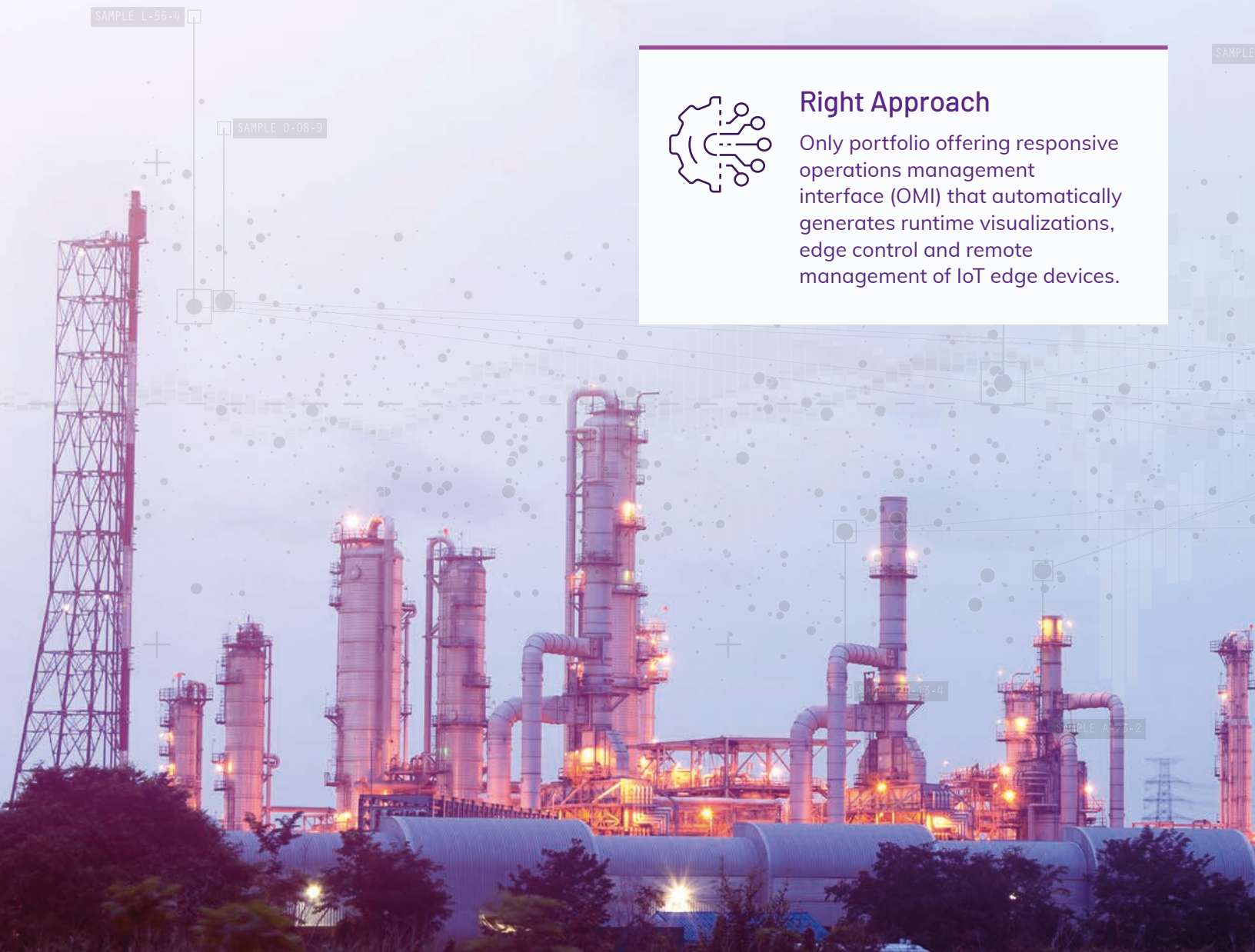
Broadest and deepest portfolio of industrial software.

Right Licensing

Market's first and only edge-to-enterprise subscription offer, enabling portfolio as a service.

Right Approach

Only portfolio offering responsive operations management interface (OMI) that automatically generates runtime visualizations, edge control and remote management of IoT edge devices.



Unlimited Scalability, Unlimited IO, Unlimited Clients

Scale up as your business grows without incurring incremental costs.

Future Proof Your Systems

Team up with a software provider who stays ahead of the technological curve, so you can stay competitive.

AVEVA's Differentiators

- Platform & Vendor agnostic software works with any PLC, RTU, PAC, IIoT device including IT and business systems
- World's first OMI responsive visualization is data driven and contextually aware
- Unparalleled engineering efficiency due to out-of-the box application standards-automation library, graphics library and runtime framework
- Hybrid IIoT platform - cloud and on-premise architecture for flexibility
- Applications automatically generate themselves – runtime displays based multi-form factor layouts
- Unique centralized deployment for seamless change management and continuous improvements
- Web-based access – zero Installation & no Java JRE
- Unlimited scalability; unlimited clients; unlimited IO
- Most secure industrial platform with node to node TLS encryption
- High performance integrated Process Historian including cloud-based SaaS offering
- 30+ years of Operational Technology integration experience

Edge to Enterprise Visualization - One Platform, Many Experiences.

Enterprise

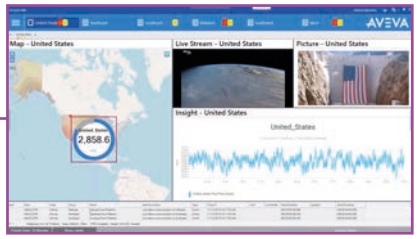
AVEVA Unified Operations Center

Foundation for real-time operational performance management for closed-loop collaboration and execution.

Multi-site

AVEVA System Platform

Responsive, OMI visualization; enables Enterprise-wide standardization.



Plant

AVEVA InTouch HMI; AVEVA Citect

Used in one third of industrial facilities world-wide; remote web-based browser support.

Line

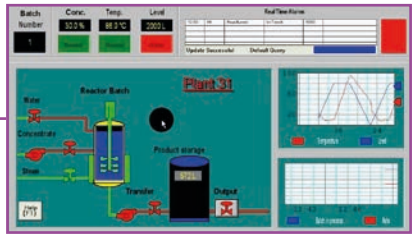
AVEVA Edge

Small footprint, full-featured HMI for embedded and OEM applications.

Edge

AVEVA Edge IoT

Linux-based Edge Management IIoT and Cloud-ready.



AVEVA offers integrated software solutions that work in coordination with one another at every level of the business, from edge management to web-based HMI SCADA to the cloud. AVEVA's Edge to Enterprise strategy offers native integration between every software in the portfolio.

Take advantage of visibility across the entire supply chain from a single asset to multiple sites through common visualization graphics that span the HMI SCADA portfolio. Industrial graphics provide context to data, enabling faster analysis and improved operator effectiveness. Industrial graphics are also portable and cross platform compatible to support a variety of desktop clients, mobile clients, web servers, as well as cloud clients across a variety of operating systems.

Moreover, Industrial Graphics support storage and management in the AVEVA cloud to drive enterprise standardization and re-use across teams and sites.

Reimagining AVEVA InTouch HMI Technically and Commercially

HMI that works everywhere

AVEVA offers expanded visibility through its unlimited client licensing and HTML5 industrial graphics technology. AVEVA InTouch HMI and AVEVA System Platform empower customers with unlimited native web browser, mobile and remote desktop client sessions, making visibility ubiquitous on any device! No longer can enterprise visibility be restricted due to incremental licensing cost, location or device preference.

Modernizing AVEVA InTouch HMI beyond Web Access

AVEVA's 2020 release offers thousands of stand-alone InTouch users the opportunity to benefit from modernization through InTouch Unlimited.

InTouch Unlimited unleashes the power of max tags, unlimited read-write web access, integrated historian, reporting, development tools including cloud storage for graphics and suite of communication drivers. The best part of the InTouch modernization story is that it offers this without re-engineering of existing applications! This offers InTouch customers a truly seamless upgrade process, harnessing the power of both cloud and web.

Legacy InTouch users will now benefit from rich, modern user experiences such as:

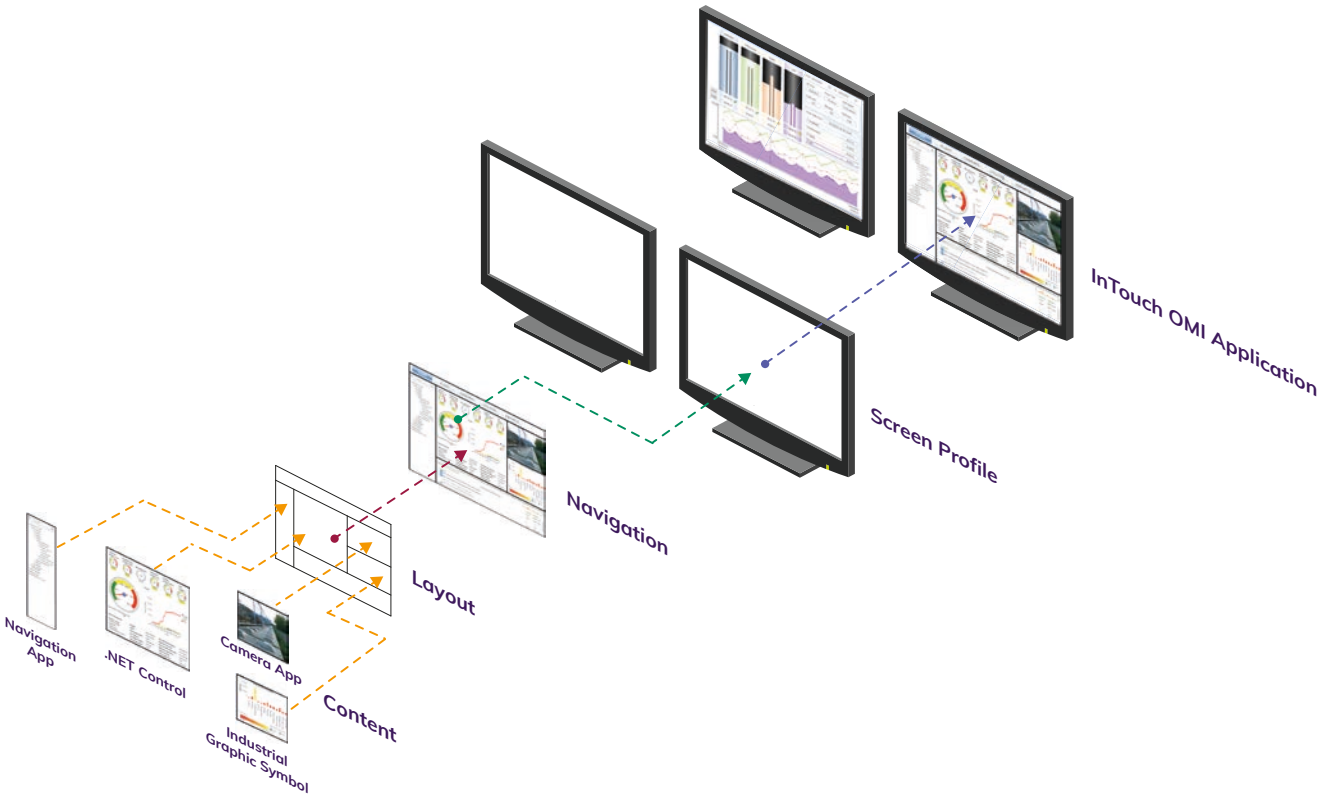
- Unlimited web, mobile and remote desktop client access
- Situational awareness library
- Rich animations
- Touch enabled
- Pan and zoom
- Lighting fast performance
- Vibrant vector graphics
- Quality and status indication
- Much more

InTouch Unlimited is a prime example of AVEVA's unwavering commitment to preserving customer engineering investments through software version upgrades. New enhancements and features may be available in the latest version, but AVEVA maintains customers' engineering investments across versions. Support for legacy applications, built decades ago, in a native web browser is possible with minimal re-configuration. More importantly, that same familiar user experience is preserved across Window Viewer as the InTouch Web Client.

A Revolutionary Way of Building Industrial Applications that is Context-Aware and Data-Driven

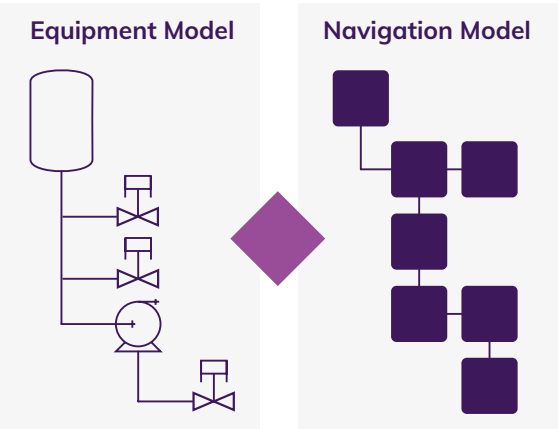
Building responsive OMI applications is very similar approach to modern content management system (CMS) driven websites. Similar to a CMS, no time has to be spent on designing the interface, because OMI automatically generates context-aware and data-driven visualizations.

The contextualized application framework separates the content from the presentation. This allows a user, even with limited expertise, to add, modify and remove content without the intervention of a technical application builder. Technicians can commission new and replacement devices using graphical drag and drop visual workflow.



Moreover, the framework provides automatic model-driven navigation which eliminates the need to manually create navigation hierarchy. The Automatic Navigation Model supports custom navigations to ensure you can provide dynamic contextual views to your assets as required.

A complete framework with ready to use standardized automation objects, graphics library and runtime responsive layouts for multi-form factor devices is a game-changing proposition in the industrial world.



Responsive Experiences: Build Once, Deploy Anywhere!

The latest generation of HMIs don't merely live on a single PC screen.

AVEVA System Platform offers Operations Management Interface (OMI), the world's first responsive Operations Management Interface for modern user experiences across all platforms supporting multi-touch gestures, such as swiping, pinch and zoom. Multi-monitor applications can now be configured in less than five minutes without scripting or programming.

A responsive OMI application is optimized to perform on every display screen - the first time, every time! Never rebuild or re-engineer application content for multiple HMI screens. Configure applications once, and deploy content anywhere on any device.

Resolution-independent deployment means your applications look just as nice on a smartphone as they do on a 4K resolution high definition screen. Resolution independent vector graphics adapt automatically to the device where graphics are rendered. This is now possible with zero engineering effort.

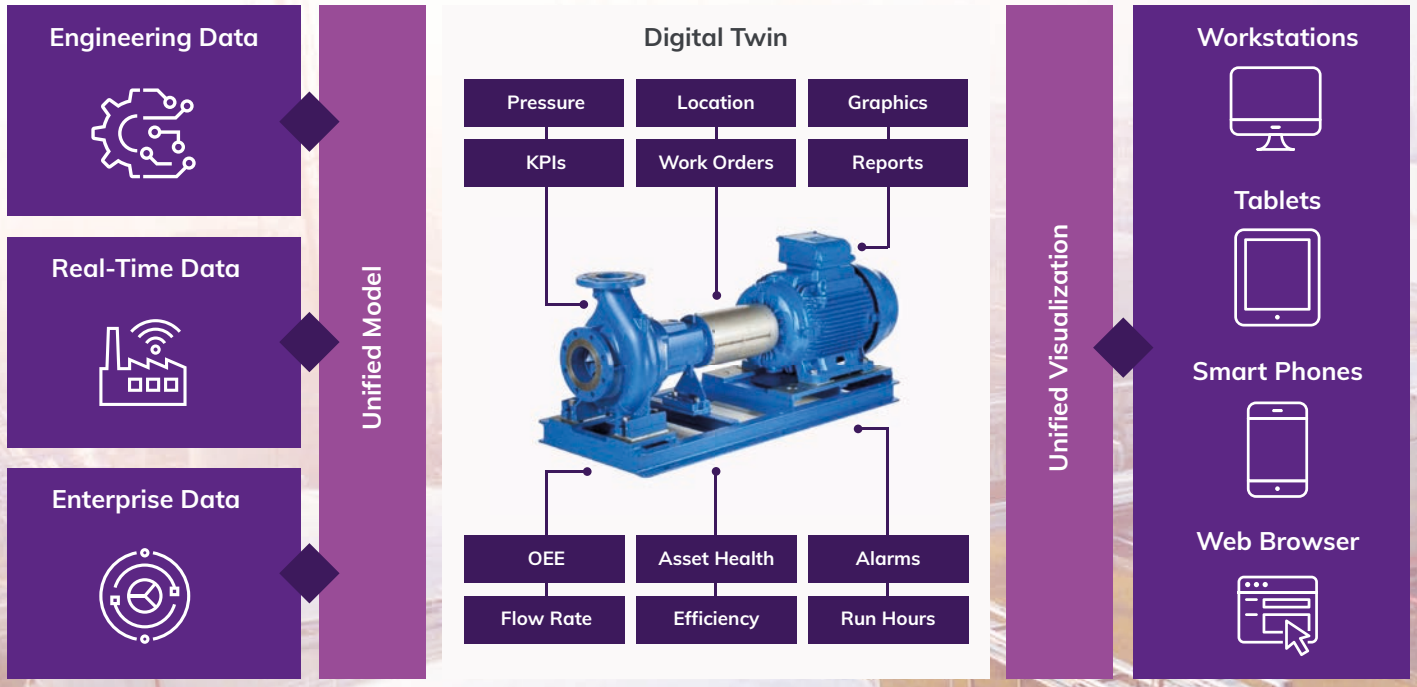
Experience a New Level of Unified Operations

AVEVA has productized industry's best standards into templated, vertical solutions. AVEVA Unified Operations Center unifies all available data from Operations, Process, Engineering, Maintenance and Finance into context.

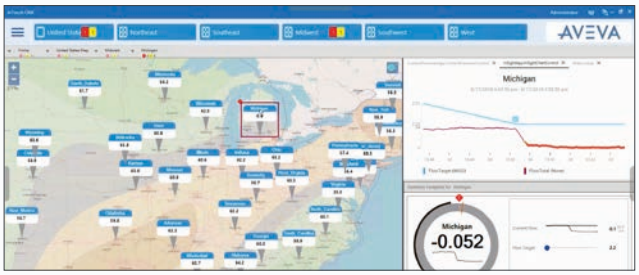
Based on a 'Systems of Systems' approach, Unified Operations Center provides out-of-the-box industry solution templates with plug-in apps, KPIs, analytics, CCTV videos, GIS maps, ERP systems, 3D Engineering models, and P&ID diagrams.

This templated industry-specific approach results in faster time to value by up to 60% compared to bespoke engineering implementations.

Built on top of the scalable System Platform offers ready to use powerful context driven OMI Apps. In addition, AVEVA offers 3rd party software partners an OMI software development kit (SDK) to build rich OMI Apps that leverage the platform's connectivity to real-time operational data and integration to business systems enabling IT/OT convergence.



Map OMI App



Offers geographical contextual presentation which enhances the model-based navigation. The Map App support secure GIS overlays and includes support for major map servers such as Google Maps, Bing, Open Street and ESRI.

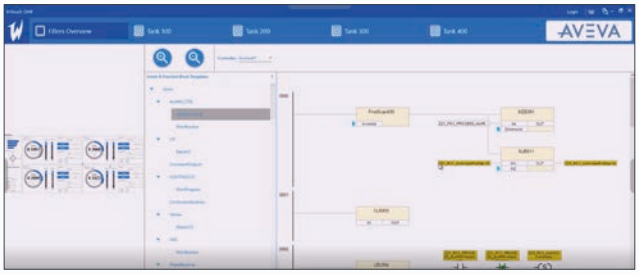
3D Viewer OMI App

Renders 3D models of assets contextually in InTouch OMI. 3D models allow operators quickly and intuitively understand the context of alarms, alerts and status changes. Plant Operators can now visualize the impact of operational information in the context of the physical surrounding of the asset.

Newsfeed OMI App

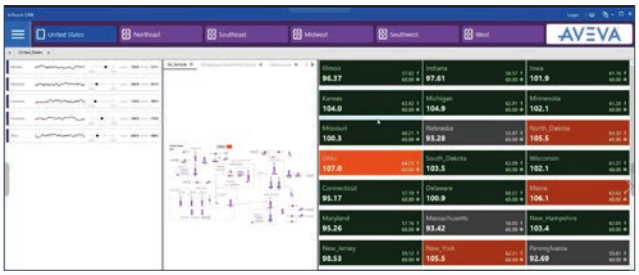
Builds artificial intelligence into the context of real-time decision making.

PLC Logic Viewer OMI App



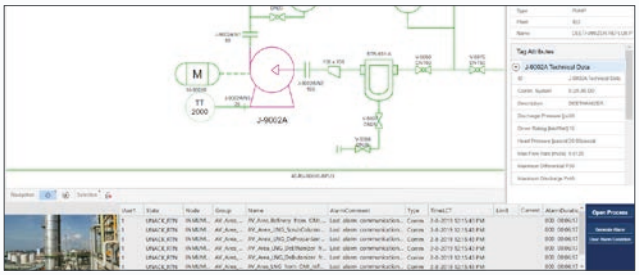
Empowers Techs to trouble shoot PLC lock-ups in real-time.

Content Presenter OMI App



Provides ability to dynamically create runtime dashboards with KPIs, symbols, or alarms status of areas.

AVEVA™ NET 1D, 2D and 3D Viewers



The AVEVA NET 2D App displays related 2D documents (such as P&IDs) within InTouch OMI when an asset is selected.

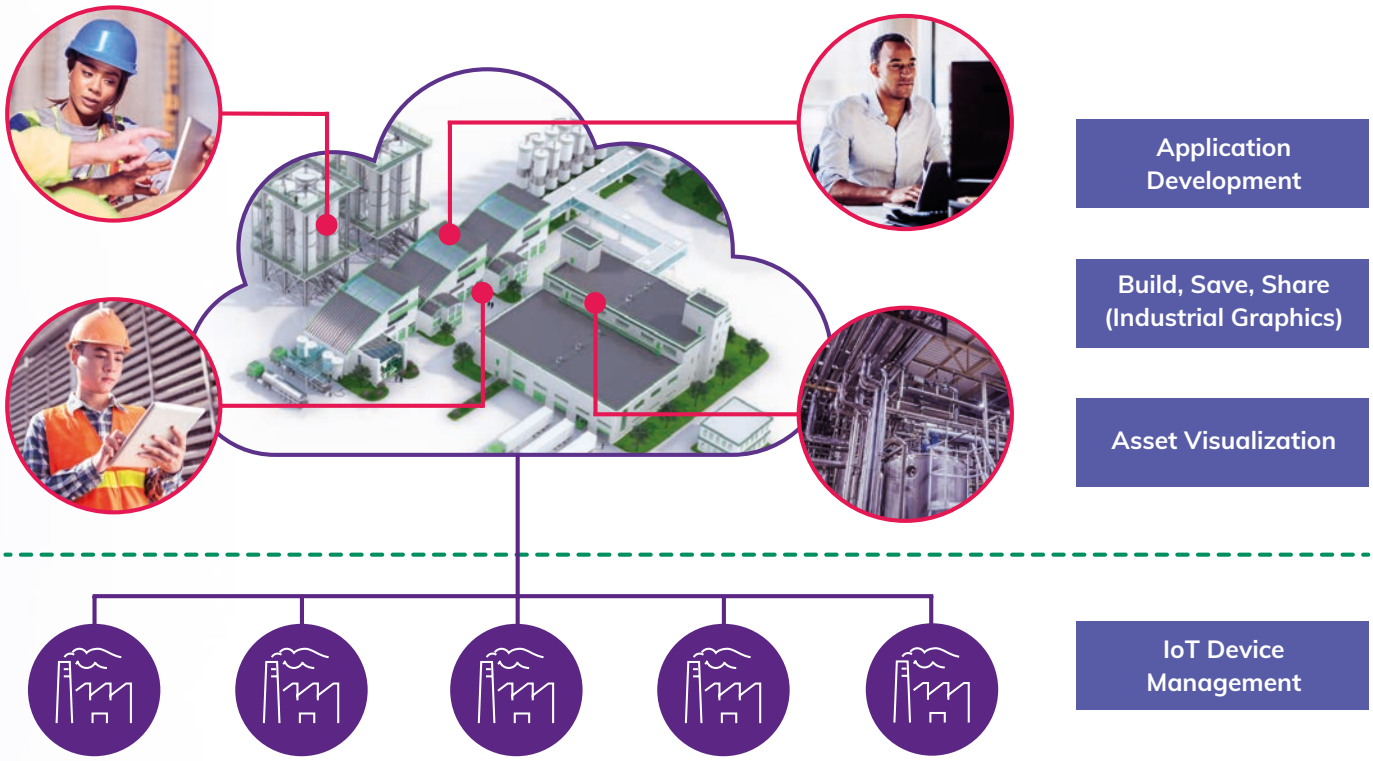
AVEVA Connect

- Provision software via secure cloud
- Develop your industrial applications
- Simultaneously monitor multiple sites from any geographic location
- Foster collaborative concurrent development across teams
- Save library Industrial Graphics across teams enabling enterprise standardization

IIoT Edge Device Management

- Remotely update applications
- Remotely update edge control software
- Access edge devices from the cloud
- Supports MQTT Spark plug devices

Harness the power of Cloud as an IIoT Platform



AVEVA Connect mitigates the challenges of geographical distributed assets, operations and personnel. This makes it possible to send information from one part of the business to another, even when locations are geographically distributed and on different networks.

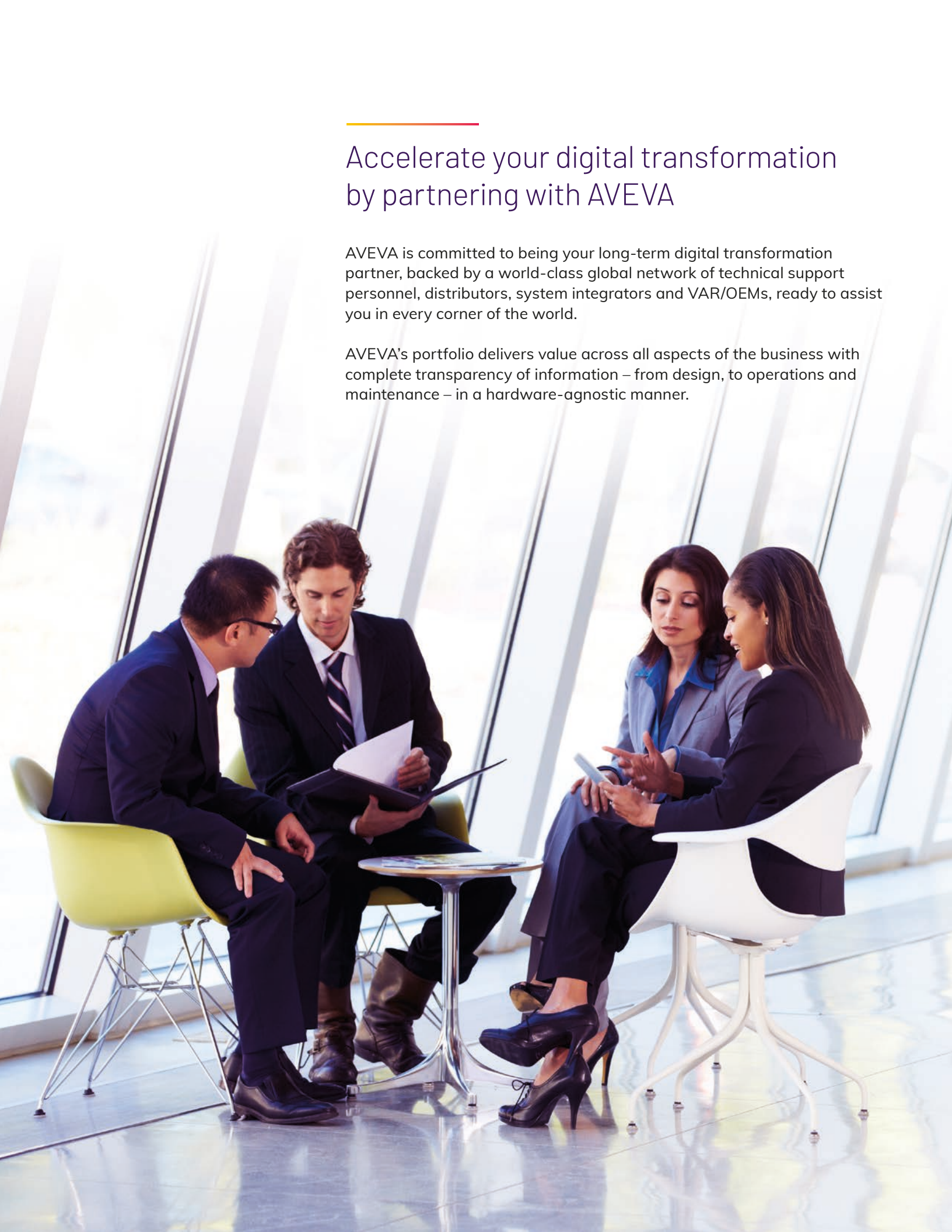
Collect and aggregate data across your Operations including edge devices and visualize them in the cloud, where AI and Machine Learning can add context and enable rapid decision making. This provides customers holistic insights into their whole business.

AVEVA enables new cloud and mobile experience enabling frictionless end-to-end workflow from development, visualization, storage and even running an AVEVA InTouch HMI or AVEVA System Platform from a cloud of your choice. Experience the new level of operational and engineering efficiency like never before.

Accelerate your digital transformation by partnering with AVEVA

AVEVA is committed to being your long-term digital transformation partner, backed by a world-class global network of technical support personnel, distributors, system integrators and VAR/OEMs, ready to assist you in every corner of the world.

AVEVA's portfolio delivers value across all aspects of the business with complete transparency of information – from design, to operations and maintenance – in a hardware-agnostic manner.



Our platform approach enables flexible architectures with limitless scalability from a simple HMI node to a comprehensive plant-wide information system. Incrementally add-on additional capability when required by business needs. AVEVA System Platform offers plug-in modules such as MES, workflow, quality, batch and enterprise Integration for sustainable production and continuous operations improvement.

AVEVA™ Historian, formerly Wonderware

"Historize" your data at industrial speeds! High-performance process historian capable of storing huge volumes of data generated in industrial facilities. Combine the power and flexibility of a relational database with the speed and compression of a true automation process historian. Historization of data becomes a single click operation and built-in web-based reporting reduces your web development costs and accelerates your time to value.

AVEVA™ Manufacturing Execution System, formerly Wonderware

In any manufacturing process there are a large number of steps needed to complete an operation. A complete set of inventory, production and quality operations management and plant performance monitoring functionality offering a model-driven, process-centric approach to the digital transformation of work and best practices for sustainable standardization, reuse and continuous improvement in plant and multi-site manufacturing operations.

AVEVA™ Workflow Management

An industrial business process management software that supports the digital transformation and automation of operational work processes and standardization of best practices in a manufacturing enterprise. Workflow enables companies to model, execute, analyze and improve work processes to drive higher levels of collaboration, productivity and innovation.

AVEVA™ Mobile Operator

Industrial strength, task, and workflow management across rugged handheld device. Both integrated decision-support system for operators in the field. Enables you to push standardized operating procedures and data collection tasks to your mobile workers more easily than ever before.

Partnering with AVEVA ensures you can start small and grow your business at your own pace, leveraging an open, digital platform.

AVEVA's unique technological innovations, flexible commercial model and commitment to protecting customer's investments empower companies of any size, large and small, to standardize on one software platform.

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