AVEVA

AI and Cloud

Leverage the power of Artificial Intelligence and cloud to optimize operations at scale

Reliable operations call for timely insights to help make impactful decisions. Make decisions with complete visibility of operations at your fingertips. AVEVA Insight delivers actionable information and Artificial Intelligence (AI) capabilities to help teams improve asset reliability and operational performance. Improve access to critical data with powerful visualization tools for better situational awareness. Lower IT costs, get started quickly and uncover opportunities in a matter of minutes. It is the fastest and simplest way to increase operational reliability and resilience as you drive sustainable growth.

Challenge: Unlock critical data to increase collaboration, eliminate silos, and reduce downtime to maximize operational reliability

Unlock critical data

Access contextualized data from multiple sources in a single cloud environment to gain operational insights anywhere, any time.

Improve asset reliability

Gain asset performance insights and respond to anomalies earlier with artificial intelligence and powerful analytics.
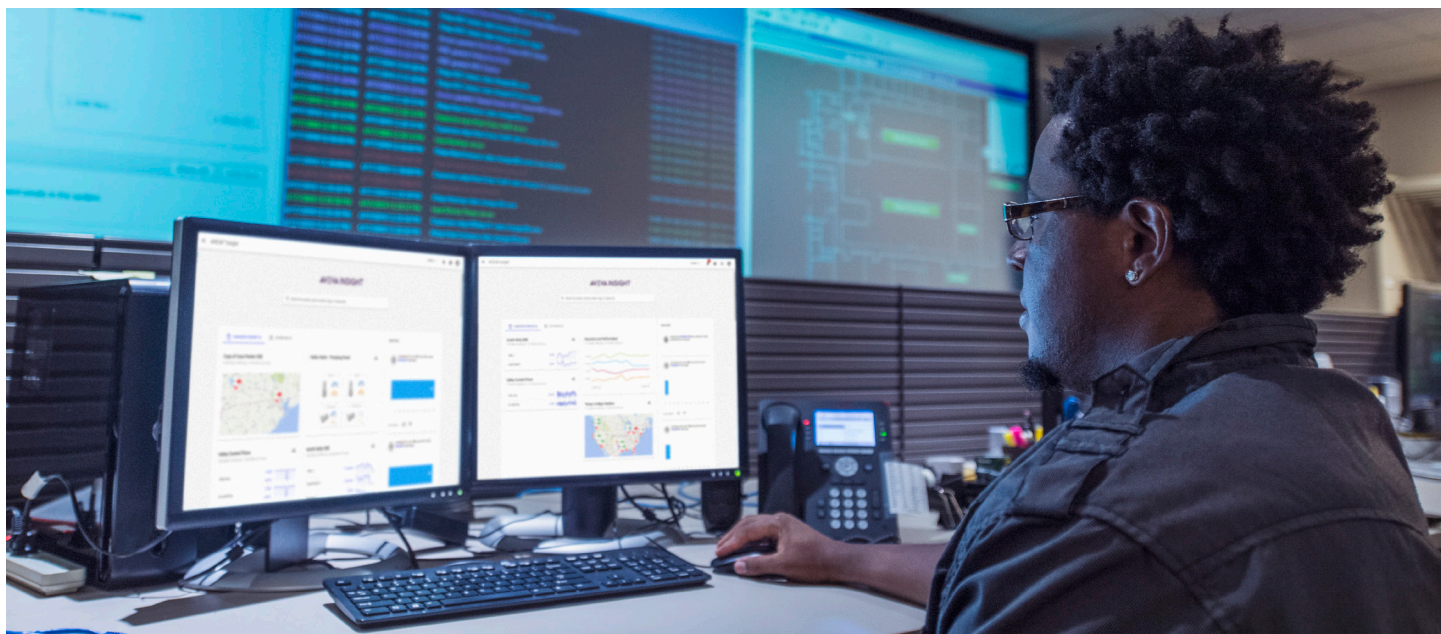
Increase collaboration

Empower the connected worker and break down silos with a single source of truth and customized alerts for better, faster decisions.

Drive operational performance

Fully understand your operations with a digital twin that combines corporate and operational KPIs to discover efficiency gains.

Solution: Transform data into insight and optimize production and operations with AI-infused prescriptive guidance.

AVEVA Insight combines real-time and historical information with AI and machine learning-driven predictions to minimize downtime, improve quality, energy efficiency or throughput, and calculate asset life. Utilize proven use cases and experience to address common operational challenges quickly and easily. Ranging from self-service analytics with no programming required, to comprehensive analytics for in-depth analysis of critical assets and processes, AVEVA Insight empowers you to take advantage of prescriptive actions, AI, and machine learning at scale. Address common operational challenges with AVEVA Insight's growing range of AI and machine learning capabilities:

Reduce downtime

Predict uptime and detect failures days, weeks or even months before they occur. Minimize production losses and realize higher production throughput to meet dynamic market demands.

Reliable quality

Eliminate costly production rejects and predict quality issues. Enable operators to adjust the production settings at the right time to realize consistent quality and avoid waste.

Improve availability

Minimize downtime due to unnecessary cleaning cycles by predicting the optimal time frame for cleaning or doing periodic maintenance of an asset.

Optimize throughput

Identify optimal process conditions for a plant, unit or area and track current conditions versus target. Receive early notificiation if production throughput is slipping.

Predictable asset life

Forecast remaining asset life and influence operations and maintenance costs and life cycle management. Make confident CAPEX decisions with data driven analytics.

Energy efficiency

Reduce your carbon footprint and facilitate the insights for better energy use. Tightly monitor energy use to expose hidden costs.

Address the knowledge gap

Provide distributed teams with qualitative and rapid risk mitigation actions all the way down to the generation of work requests.

AVEVA Insight also enables IP developed by trusted third parties and subject matter experts to be seamlessly integrated to create a holistic AI solution for our customers.

Our software in the cloud helps companies remove organizational silos and enable transparent, real-time collaboration in a shared environment for unmatched workforce efficiency.

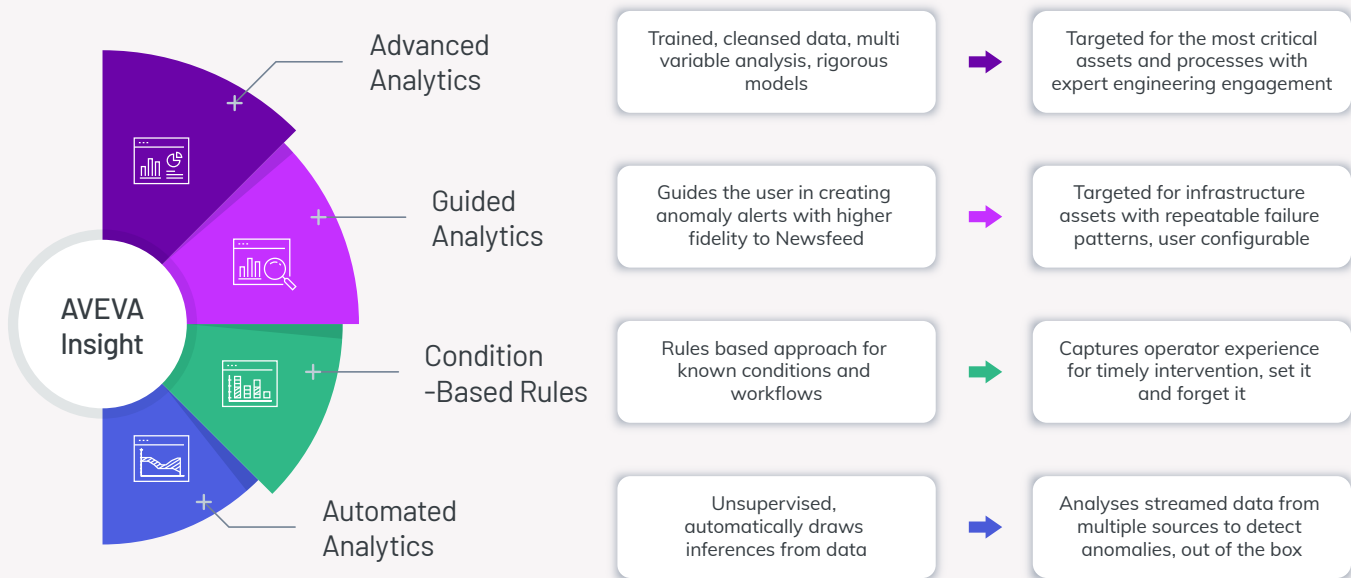Collaborating in the cloud is also more secure, with a centralized user management system designed for better data management and safety.

AVEVA Insight infuses AI driven prescriptive maintenance into operations.

Take advantage of the free trial.
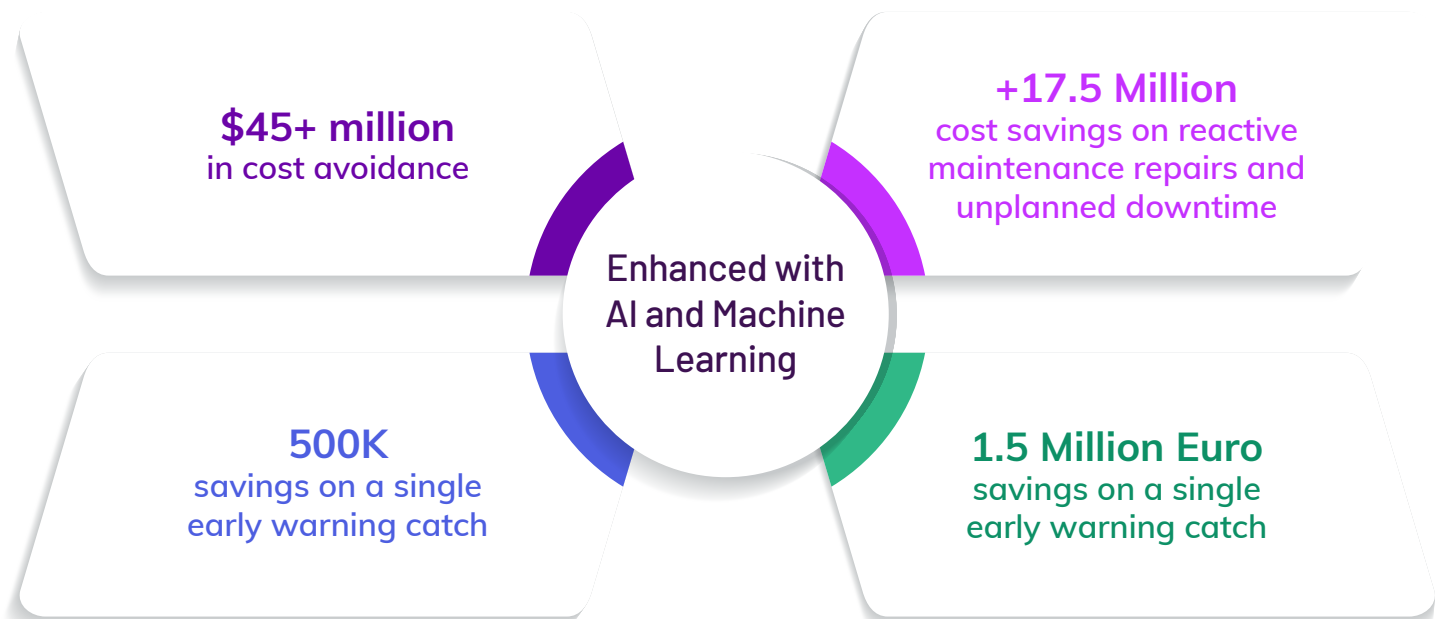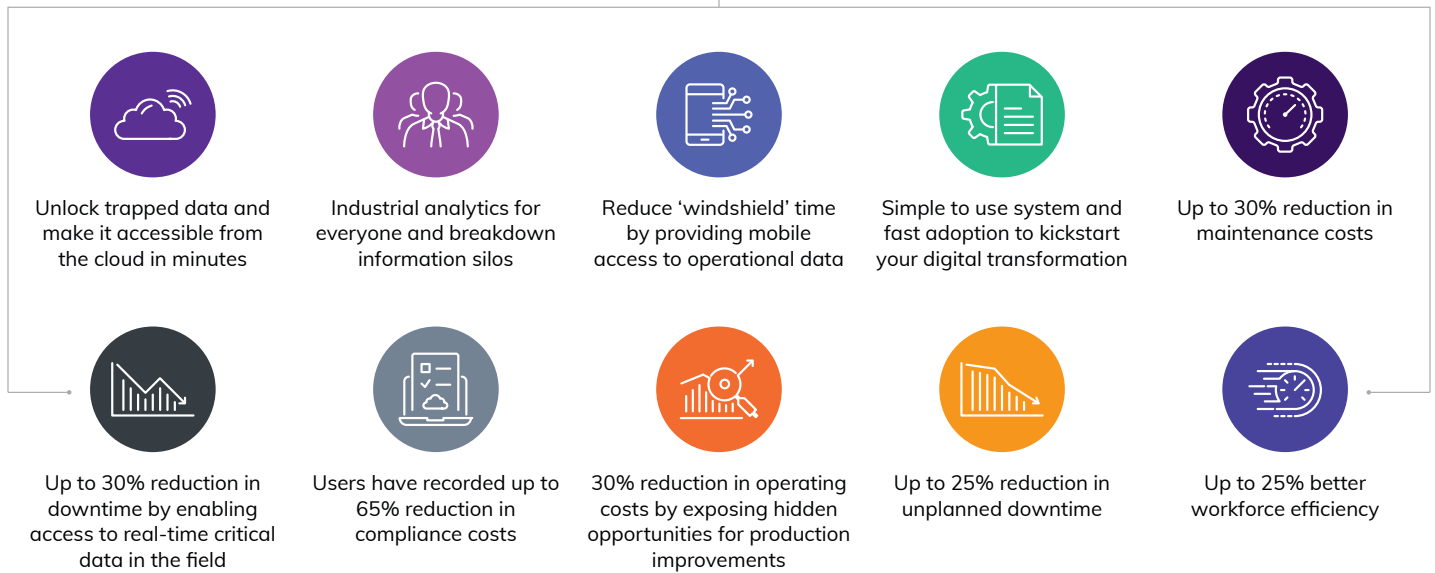
AI and Machine Learning

Optimize operations at scale by leveraging the power of Artificial Intelligence (AI) and machine learning in the cloud. This range of fit-for-purpose algorithms combined with prescriptive actions enables users to institutionalize analytics as closed loops within their business processes.

AVEVA Insight

Advanced Analytics
| Trained, cleansed data, multi variable analysis, rigorous models | → | Targeted for the most critical assets and processes with expert engineering engagement |

Guided Analytics
| Guides the user in creating anomaly alerts with higher fidelity to Newsfeed | → | Targeted for infrastructure assets with repeatable failure patterns, user configurable |

Condition-Based Rules
| Rules based approach for known conditions and workflows | → | Captures operator experience for timely intervention, set it and forget it |

Automated Analytics
| Unsupervised, automatically draws inferences from data | → | Analyses streamed data from multiple sources to detect anomalies, out of the box |

Advanced analytics for process optimization within AVEVA Insight

Advanced Analytics

Predictive Quality
- Run CpK
- First pass quality %

Predictive Uptime
- Uptime %
- Remaining time to downtime
- Probability of downtime

Predictive Throughput
- Production rate
- Run length
- Cycle time
- Material cost/unit production

Predictive Asset Reliability
- Mean time between failure
- Remaining time to failure
- Probability of failure

Predictive Energy Efficiency
- Energy cost
- Unit production

Predictive Asset Life
- Remaining useful life
- Total life

The benefits of AVEVA Insight

Unlock trapped data and make it accessible from the cloud in minutes

Industrial analytics for everyone and breakdown information silos

Reduce 'windshield' time by providing mobile access to operational data

Simple to use system and fast adoption to kickstart your digital transformation

Up to 30% reduction in maintenance costs

Up to 30% reduction in downtime by enabling access to real-time critical data in the field

Users have recorded up to 65% reduction in compliance costs

30% reduction in operating costs by exposing hidden opportunities for production improvements

Up to 25% reduction in unplanned downtime

Up to 25% better workforce efficiency

$45+ million
in cost avoidance

+17.5 Million
cost savings on reactive maintenance repairs and unplanned downtime

Enhanced with AI and Machine Learning

500K
savings on a single early warning catch

1.5 Million Euro
savings on a single early warning catch

Customer results

Duke Energy

Duke Energy's Monitoring & Diagnostics (M&D) team won Schneider Electric's "Business Value Award" for detecting an issue that helped avoid a $34 million cost.

Read more

SCG Chemicals

When the leadership of SCG Chemicals, one of Thailand's largest integrated petrochemical complexes, wished to improve efficiency across its value chain the team selected AVEVA™ Asset Performance Management software to help deliver the resilience, agility and maintenance savings they needed to accelerate the transformation of their operations.

Read more

Enel

ENEL drives agility and resilience with AI-infused AVEVA Asset Performance Management.

Read more

How AVEVA can help you

AVEVA Insight helps increase operational reliability and productivity by connecting workers to the information they need to identify and respond to anomalies quickly. It securely delivers operational data anytime, anywhere with a cost-effective solution that is easy to set-up, manage and use. AVEVA Insight helps increase operational reliability and productivity by connecting workers to the information they need to identify and respond to anomalies quickly. AVEVA Insight is a cloud platform for Industry 4.0 and strategic growth initiatives. This simple to use system accelerates adoption of AI and machine learning and helps to kick-start your digital transformation with out-of-the-box anomaly detection, more complex algoritms and with analytics for process optimization. Our asset libraries with prescriptive guidance close the loop for sustaible growth.

Unlock actionable information

AVEVA Insight is both vendor and system agnostic. Containing built-in publishers to more than 30 AVEVA products, and native connectivity to over 300 industry standard drivers, AVEVA Insight allows you to consolidate all your asset, operational and production data in one convenient location. With context applied in an easy-to-use, secure cloud environment, AVEVA Insight is not just for data collection and storage. It also provides a powerful system for immediate access to asset information, KPIs and sophisticated analysis capabilities for users of all levels and experience.

Anywhere, any time access

Enable the connected worker to get out from the behind the desk with the right information at their fingertips, when and where they need it – desktop, tablet or mobile.

Without the IT burden

With AVEVA Insight you enjoy seamless, automatic updates and scalability for your business needs. Its cost-effective subscription model eliminates the need for additional investment in hardware servers and software. Leaving the IT burden of managing your system to us, so that you save time, money and manpower.

Simple to start, simple to use, out-of-the-box

> " AVEVA Insight is being rapidly adopted across our organization. The speed at which we can implement a real-time manufacturing solution has drastically been minimized, going from weeks to only hours. "
>
> –
> Automation Manager
> Leggett & Platt

AVEVA Insight is fast to get started and simple to manage so the time to value is dramatically reduced.

Fully integrated add-ons for AVEVA Insight

Operational Performance

Increase plant asset and production line utilization and efficiency, and easily identify areas for continuous improvement with root cause analysis. Standardize and compare OEE KPIs, share best practices and elevate performance of your sites.

Asset Library

Accelerate time to value and share best practices across the organization with pre-packaged libraries that help free up resources, optimize asset performance, and address inconsistent or missing data.

EAM Interface

Streamline workflows and increase asset availability by linking your critical plant data on the cloud with your on-premises Enterprise Asset Management solution. Trigger condition-based work and provide users with a seamless user experience.
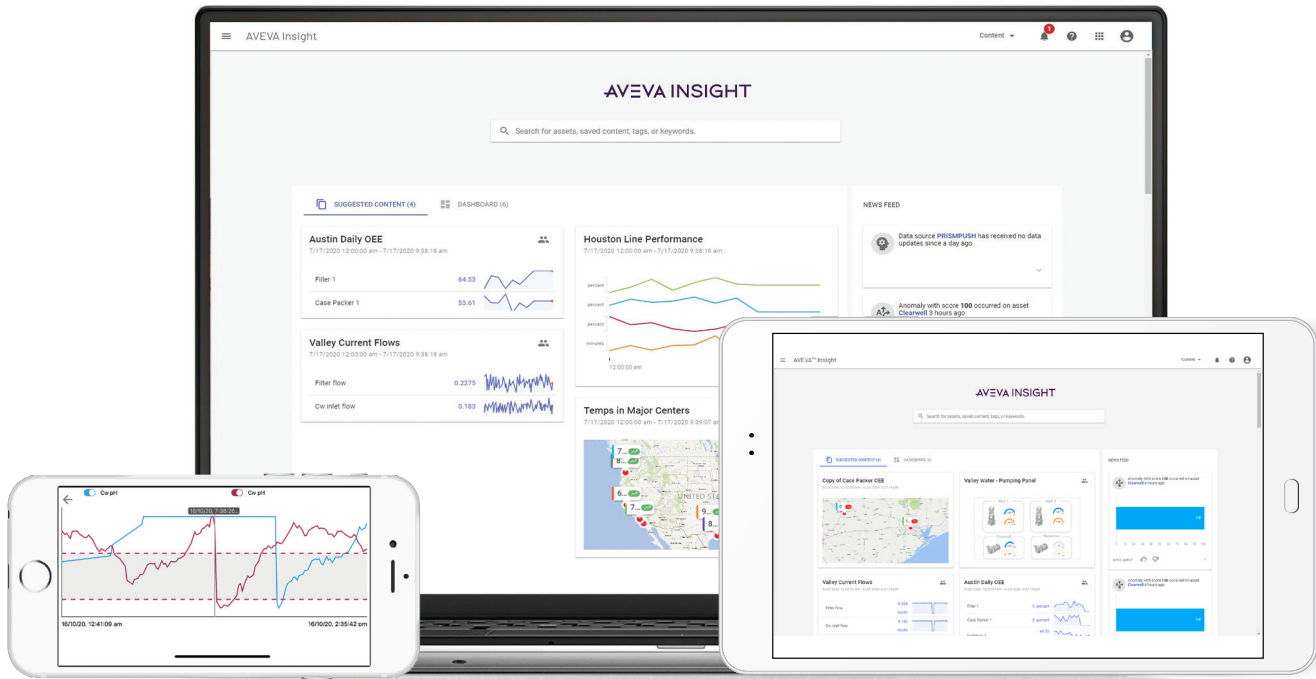
BI Gateway

Automate the extraction, transformation and storage of operational KPIs and related contextual information with this enterprise manufacturing intelligence (EMI) solution.

Take the next step in your operational reliability

To learn more on how you can leverage the power of Artificial Intelligence and cloud to optimize your operations, please have a visit our website: AVEVA Insight

Try AVEVA Insight today

Explore the demo and sign up for your free 45-day trial today.

Try it yourself, visit us at:
aveva.com/aveva-insight-demo

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