

# AVEVA™ Advanced Analytics: Improve asset performance and production processes

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Utilize artificial intelligence and  
machine learning with CONNECT  
to maximize production efficiency



Maximize the value of your industrial data with real-time predictive insights during the production process to improve overall asset performance and operational efficiency. With AVEVA Advanced Analytics on CONNECT, you can build no-code AI models using real-time and historical operations data to generate predictive and prescriptive insights—all from one cloud-based, scalable solution.

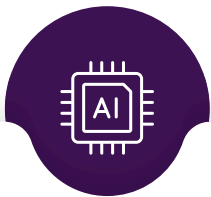
With AVEVA Advanced Analytics, operations teams can leverage models and analytics to enhance key operational areas, including quality optimization, energy efficiency, perfect batch achievement, asset reliability, uptime, and asset life



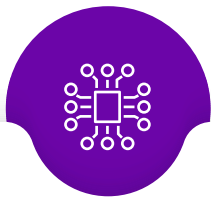
## The journey to optimized production efficiency

AVEVA Advanced Analytics can meet you wherever you are. Start by visualizing variables and metrics, then deepen your process and asset knowledge by modeling use cases for asset performance and production process optimization. Identify and correct inefficiencies and production problems to improve uptime, eliminate waste and improve productivity.

From production to quality, maintenance, or management, users of all skill levels—from novices to data scientists – can easily gain insights using AVEVA Advanced Analytics. Users can:



Build and run AI-driven models using real-time and historical data, no programming skills required



Collect and aggregate data from multiple data sources



Use the power of the cloud to share data with internal and external stakeholders



Easily collaborate with data scientists and SMEs to find new ways to drive innovation



Leverage integrated, fully packaged dashboards, analytic tools, and analytic reports, including nearly 200 packaged analytic reports and dashboards

## AVEVA Advanced Analytics by the numbers

Typical deployments enjoy up to:

**3%**

increase  
in yield

**15%**

improvement  
in reliability

**10%**

reduction in  
energy costs

**50%**

increase  
in quality

**3%**

reduction in  
material loss

### Predict product quality to minimize waste and rework

Predict batch quality during the production process to increase first-pass yield, reduce recalls, and minimize waste. Detect finished product deviations sooner and receive recommendations to bring processes back in line with KPIs.

**1.3 million**

The amount a global pet food manufacturer saved annually by implementing predictive models that recommend real-time process and ingredient changes to optimize product quality, including moisture, fat, protein, and density.

### Maximize energy efficiency to ensure sustainable operations

Quickly identify patterns and conditions to reduce your carbon footprint and CO<sub>2</sub> emissions, meet sustainability KPIs, and ensure assets are running using optimal energy rates.

Get system-generated corrective actions when operating conditions deviate or assets are unnecessarily using energy.

**Going green**

Thanks to AVEVA Advanced Analytics, a large consumer products manufacturer reduced its global manufacturing energy footprint by 5% across all utilities, including water, air, gas, electricity, and steam within one year.

## Predict throughput to optimize process conditions

Understand production outcomes and get recommended corrective actions to shorten production time, increase efficiency, and realize cost savings. Optimize throughput on products and lines to operate at the highest possible production rate.

## CONNECT: The industrial intelligence platform for faster, more informed decision making

AVEVA Advanced Analytics on CONNECT provides organizations with modeling and analytics capabilities. CONNECT data services fuels the application with process information from across the CONNECT platform. As an open and neutral industrial intelligence platform, CONNECT helps teams to unify data and collaborate more closely across the organization by bringing together information that spans an entire value chain, from 2D drawings to the latest operational sensor feeds. By combining on-premises information from diverse sources and applying visualization and analytics in the cloud, CONNECT breaks down traditional organizational silos. With CONNECT, teams and individuals can access one shared source of truth in real-time, to make better-informed decisions that drive efficiency, sustainability and competitiveness.

CONNECT has native bi-directional integration with AVEVA™ PI System™. This enables a common digital thread from on-premises to cloud, allowing CONNECT to make the most of your data. A fully-managed, ready-to-use cloud service, requiring no installation or maintenance, CONNECT empowers you to translate your production and sensor data into improved efficiency and reduced waste.



- Utilize AI insights to optimize asset performance and process efficiency
- Operationalize analytics at scale using the cloud and asset templates by type
- No-code or low-code analytics enable increased adoption and realization of rapid ROI
- Break down traditional organizational silos with one shared source of truth in real time with CONNECT

## The future is optimized

Now is the time to maximize production efficiency and improve product quality, energy efficiency, and production throughput with AVEVA Advanced Analytics on CONNECT.

To learn more, visit: [aveva.com/en/products/advanced-analytics](https://aveva.com/en/products/advanced-analytics)  
To learn more about CONNECT, visit: [aveva.com/en/connect-experience](https://aveva.com/en/connect-experience)

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