



INDUSTRY SOLUTION

Enable supply chain agility and resilience by reducing waste

Maintain your competitive edge by increasing your company's sustainability and agility

In today's competitive environment companies must reduce their economic waste and losses, as well as physical waste and carbon footprint.

The globalization of businesses, along with the current pandemic, has intensified the requirement for companies to be more resilient and productive, in order to sustain their business. The key to maintaining competitiveness is through implementing digital technology which helps to enhance their eco-sustainability, further improve operational efficiency, and increase their agility and resiliency.

AVEVA is the only industrial software solution provider that offers everything from edge computing and analytics, operations control, performance intelligence, planning, scheduling and execution, to multi-site operations management. Unlock greater positive outcomes and better visibility with tools that help you align people and processes with strategic objectives. This will empower your teams to eliminate inefficiencies, achieve sustainability targets and optimize the value chain to maximize your business performance.

Challenge: Improving sustainability and agility while optimizing operational efficiency

There are many reasons why reducing waste and value leaks from industrial operations is important. Waste reduction has the ultimate target of reducing all expenditures which deliver no value to the customer. Today, waste reduction includes additional important targets of minimizing environmental impact and consumption of natural resources.

Focusing on systematic and continuous waste reduction can result in many key benefits:

- Increased productivity and quality
- Less rework and recycling
- More efficient use of materials, energy, water and other consumables
- Reduced waste disposal costs
- Improved regulatory compliance
- Higher customer loyalty

You can only correct and improve what you can measure, see, and understand. Plant operations often lack easy access to the data and tools necessary for making effective decisions about minimizing waste and losses and maximizing plant performance.

Advanced analytics and artificial intelligence allow businesses to explore more complex data relationships, identify new insights for improvement and optimal operating conditions.

Collaboration and information visibility across functional teams and precise alignment between supply chain and plant operations drives holistic optimization of the value chain and leads to maximized business performance within operational constraints.



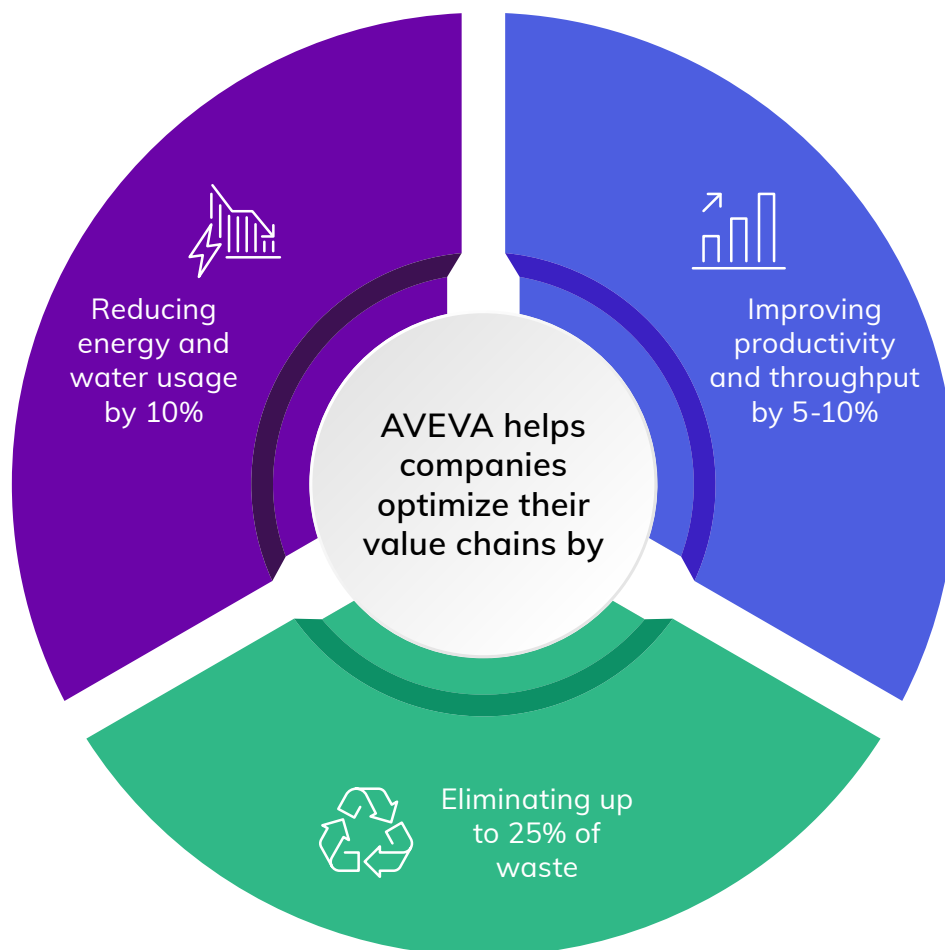
Solution: Value Chain Optimization

AVEVA can help accelerate the reduction of waste and elevate your operational efficiency with a digital platform that connects from edge to enterprise. Integrated planning, scheduling and execution capabilities help you redefine your processes, enable deeper collaboration, reduce value leaks and waste, sustain productivity and innovation, and ultimately make better and more robust decisions.

AVEVA is combining cloud technology and digital twin innovations with the analytics you need to deploy consistent KPI and reporting standards across the business, supported by the collection and centralization of data that feeds predictive analytics and machine learning.

Translated into economic value, regardless of industry we can help you to exceed your operational goals, by reducing refining costs up to \$0.70/barrel for energy companies, or improving productivity up to 20% in a Food & Beverage (F&B) or Consumer Packaged Goods (CPG) processing plant.

We work with over 400 refinery/petrochemical sites around the world, over 100 mining and metals sites and over 900 Food and Beverage and Consumer Packaged Goods manufacturing sites worldwide.



Customer success stories

Manufacturing customer case study – Henkel Laundry & Home Care builds a digital backbone to meet its sustainability and efficiency goals.

With a focus on implementing sustainable innovations while improving resource efficiency and adding value, Henkel's target is to become three times more efficient by 2030 in its environmental footprint.

The AVEVA-based solution has saved Henkel €37 million to date, with the latest annual savings having now reached €8 million per year, compared to the base year. As a result of its successful implementation of AVEVA Manufacturing Execution System, Henkel has reduced filling line waste and eliminated virtually all incorrect labelling (100% label quality ex-line and more than 99.8% first time right for label application globally). This leads to the highest guaranteed product quality and to significant savings in packaging. The solution also drove improvements in OEE of an average of 15% after just two years.



Refining customer case study – Neste's goal is to be carbon-neutral by 2035

Neste is a world leader in renewable diesel and jet fuel production, but to meet its goal of becoming carbon neutral by 2035 they need to find new ways to work sustainably across multiple sites and more than 80 units that complicate cross-business co-ordination.

Using AVEVA™ Unified Supply Chain in the cloud, the team manages model-building, decision support and production planning in one digital space. This breaks down silos and increases collaboration by providing flexible access via the cloud. Teams can make fast, accurate decisions using artificial intelligence. Production is optimized automatically, and waste has decreased, moving Neste closer to its carbon-neutral target. These significant results are helping Neste shape the future of energy.



How AVEVA can help

Through Performance Intelligence, AVEVA connects the power of information and artificial intelligence (AI) with human insight, to enable faster and more precise decision making, helping industries to boost operational delivery and sustainability. Our cloud-enabled operational data management, combined with software that spans design, engineering and operations, asset performance, monitoring and control solutions delivers proven business value and outcomes to over 20,000 customers worldwide, supported by the largest industrial software ecosystem, including 5,500 partners and 5,700 certified developers.

AVEVA software offerings to optimize your value chain and improve your operational agility

For Manufacturing Industries: F&B, CPG, Specialty Chemicals and Discrete Manufacturing	For Continuous Process Industries: O&G, Mining and Power
AVEVA™ Manufacturing Execution System: Maximize profitability, flexibility, quality, and compliance in manufacturing by digitally managing the rules and information for all operational activities in real-time.	AVEVA Unified Supply Chain: Ensures security and visibility of supply chain knowledge, with simple, consistent access to data and easy integration to external business systems.
AVEVA™ Discrete Lean Management: Improve your operational effectiveness by measuring, visualizing and analyzing your manufacturing performance with proven lean management practices	AVEVA™ Process Optimization: Uses first-principle simulation models and process data to sharpen plant performance and profits
AVEVA™ Recipe Management: Providing recipe agility, and repeatable process and product quality by automating product changeover and recipe execution.	AVEVA APC: Extracts maximum value from your processes, by reducing control fluctuations
AVEVA™ Batch Management: Effectively manage flexible, multi-stream and multi-product batch operations found in the process industries to maximize asset utilization, plant throughput and recipe agility	AVEVA™ Offsites Management: Provides accurate, reliable, and accessible inventory and movement information, movement automation, and off-line/on-line multi-blend optimization.
AVEVA™ Insight: Actionable information and Artificial Intelligence capabilities to help your teams improve asset reliability and operational performance.	AVEVA™ Refinery Reactor Models: Used rigorous kinetic models to optimize the operation of the reactor units.
AVEVA™ APC: Extracts maximum value from your processes, by reducing control fluctuations	AVEVA™ Production Accounting: Addresses the pressing issue of unaccounted losses for refineries, petrochemical plants, and other processing facilities.

For more information about how AVEVA can help to optimize your value chain in manufacturing and process industries please visit aveva.com/en/solutions/performance/value-chain-optimization
or
to talk with one of our experts please visit aveva.com/en/contact



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