AVEVA
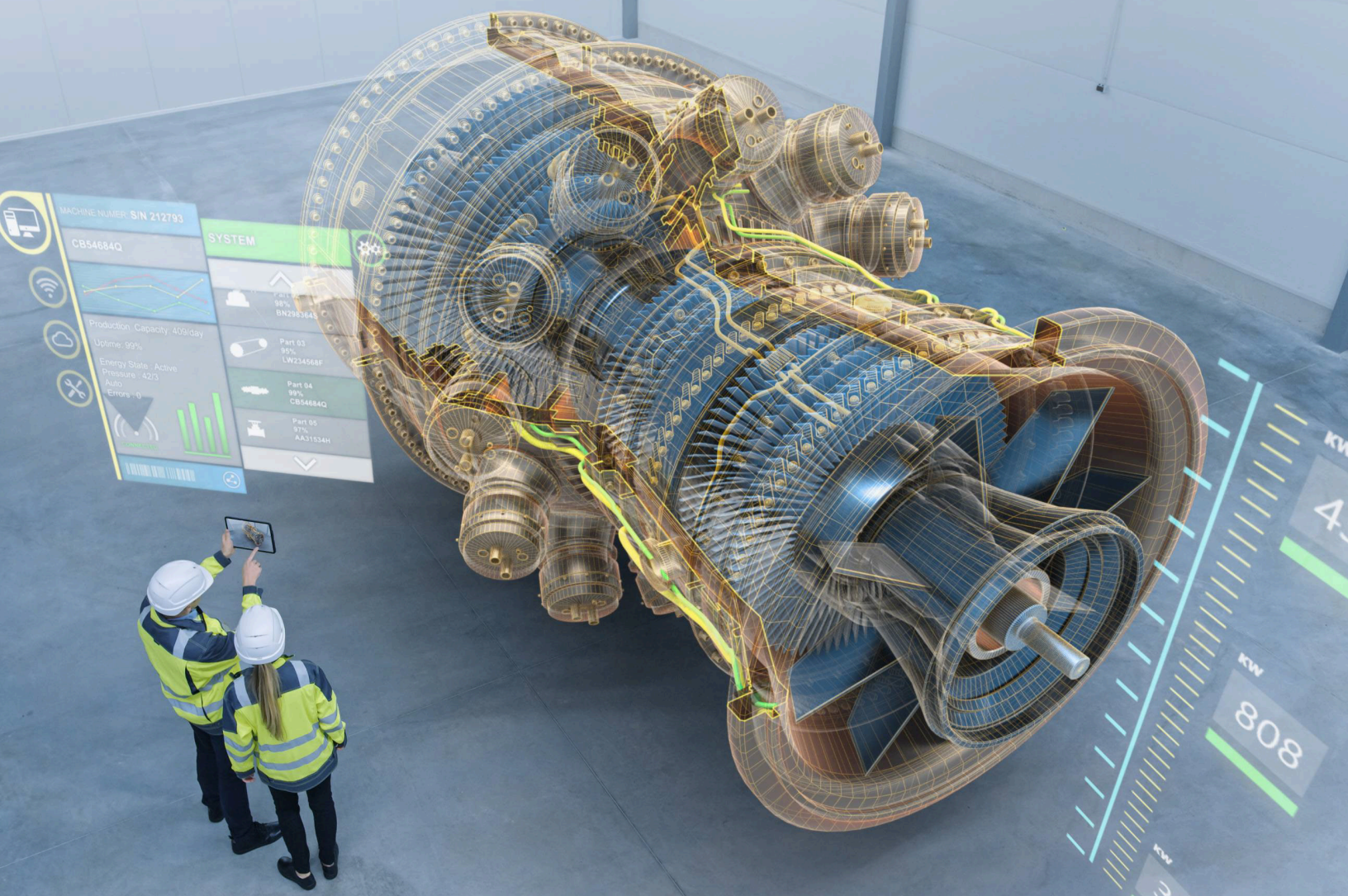
Expand digital transformation with the breadth and integration of AVEVA's digital twin solution

Deepen your industrial insight

As data analytics and AI evolve, industrial organizations have the ability to discover new, previously unidentified ways to improve outcomes. A digital twin gives engineers and other decision makers an interactive digital model to evaluate the likely response of complex assets, processes and systems to rapidly changing markets and business conditions. Without the data-driven insight provided by a digital twin, decisions carry more risk and potential improvements remain undiscovered.

Digital twins combine state-of-the-art analytic tools and AI with an organization's unique industrial information and live data streams, to quickly process and evaluate the results in many more scenarios than the human brain can contemplate. This powerful technology can optimize outcomes in capital projects, maximize asset reliability, identify new ways to achieve sustainability, and prepare organizations for further industrial automation. These benefits are available across vertical segments and in many use cases.

Ensure today's investments can support new use cases and additional users

Digital twins are often treated as ad-hoc investments to optimize results in individual functions. While these projects may yield impressive ROI, single-purpose models are not easily expanded to address use cases that cross functional boundaries, resulting in redundant development, contracts with overlapping vendors, delays in results and a limited ability to share datasets and models.

Increasingly, transformation leaders are thinking about how to connect individual twins into a more cohesive and integrated twin with the ability to model the organization holistically across the industrial lifecycle. In the most recent Digital Twin Industry Report (2024), users reported **benefits three times greater** from integrated twins than from standalone solutions.

Key use cases

- Reduce risk associated with capital projects

- Optimize asset utilization and extend lifespan

- Find new ways to increase sustainability

- Automate decisions once dependent on experienced, senior staff

- Optimize complex processes and multi-vendor supply chains

- Use AI to reveal undiscovered efficiencies

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AVEVA digital twin delivers faster time-to-value, with less effort

AVEVA lets you extend digital twin insight to more parts of your business. The combination of our broad industrial software portfolio and vendor-neutrality of the CONNECT industrial intelligence platform gives you flexibility, scalability and long-term value. Our solution lets you **seamlessly integrate** analytic results into other applications—on-prem or in the cloud—without custom integration, **cost-effectively scale** using hybrid infrastructure, and **easily leverage** existing datasets, models and visualizations developed by AVEVA and colleagues across your organization.

AVEVA has been a leader in industrial software for decades and offers a broad portfolio of solutions across the industrial lifecycle: for capital project design and build, for operations control and monitoring, and for maximizing efficiency, production, asset reliability, and supply chains. AVEVA uses AI and data standardization to enrich our products and is continually optimizing the integration between them. We have a rich library of success stories for a wide range of use cases, across every vertical segment.
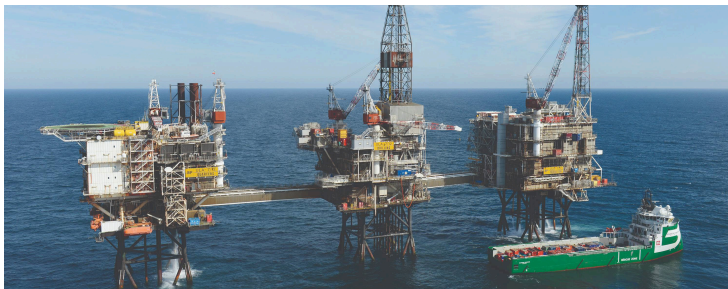
AVEVA solution architects have worked with customers to build digital twins with products such as AVEVA Information Management, AVEVA Information Standards Management, AVEVA PI System with Asset Framework, AVEVA Predictive Analytics, and AVEVA Process Optimization. Combining these products with the CONNECT platform provides the most flexible, extensible and scalable digital twin in the market.

Eastman Chemical, a long-time AVEVA customer, uses digital twin to improve collaboration among engineering, construction, operations, and maintenance teams. They have reduced errors and rework, increased efficiency, quality, and circularity, and execute new projects more sustainably.

AVEVA

Invest in a digital twin designed for long-term value

Digital twins are key for continuing digital transformation. Make sure your solution not only addresses immediate needs but easily supports new use cases.

Case studies

bp Digital twin of drilling platform increases safety and reduces costs and emissions.
Learn more.

Suncor Energy Asset models enable predictive maintenance, improving performance and saving $37M CAD.
Learn more.

Covestro Digital twin of production line helps control and process engineers speed time-to-resolution.
Learn more.

Eni Digital model of oil field improves plant operations and saves $25M in first year.
Learn more.

Contact us and find out more about AVEVA digital twin:

Contact us