OCTOBER 24, 2023

AVEVA[™] Unified Engineering – Integrating design/build with operations/optimization for Power & Utilities

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Agenda

- Design → operate → Optimize
- Digital twin
- AVEVA[™] Point Cloud Manager
- AVEVA™ E3D Design
- AVEVA[™] Asset Information Management
- Q&A

Delivering a complete digital thread, purpose-built for industry

Accelerate time to value with flexible, scalable, and trusted industrial hybrid SaaS solutions

en and agnostic	Visualization Multi-experience engineering and operations visualization across the enterprise						3 rd party visualization	
	Simulation and learning Process simulation, operator training, enterprise learning	Engineering and execution Engineering, 3D design, project execution	Operations control Edge, supervisory, enterprise control	Asset performance Asset strategy, asset analytics, maintenance execution	Production optimization Operations execution, process optimization, production management	Planning and scheduling Feedstock management, supply chain planning and scheduling	3 rd party apps and analytics	DATA SHARING
OPEN	Industrial information management Engineering: Engineering data collection, aggregation, storage and contextualization Operations: Real-time data collection, aggregation, contextualization, events and self-service calculations					3 rd party data sources, systems, and databases		



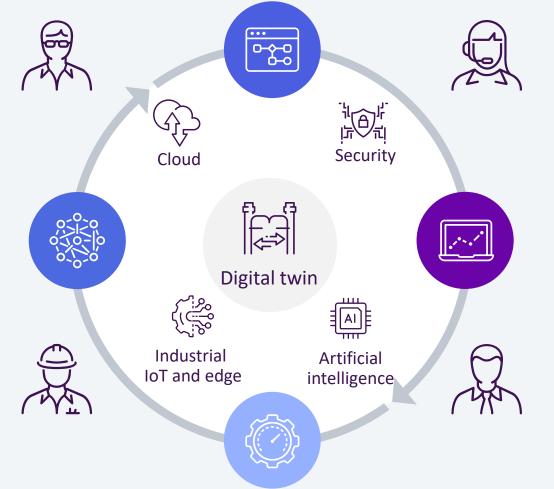
Transform the way your teams work

Breaking down silos



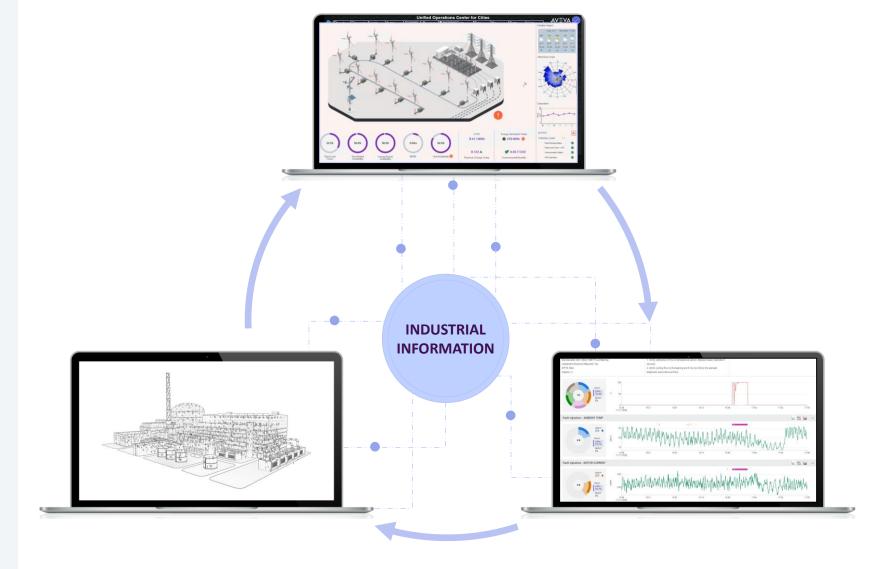
Transform the way your teams work

Enabled by a virtual representation of your assets, processes and sites: The digital twin



Industrial information is at the heart of the living digital twin

Frictionless exchange of information fuels innovation and confidence



AVEVA Point Cloud Manager

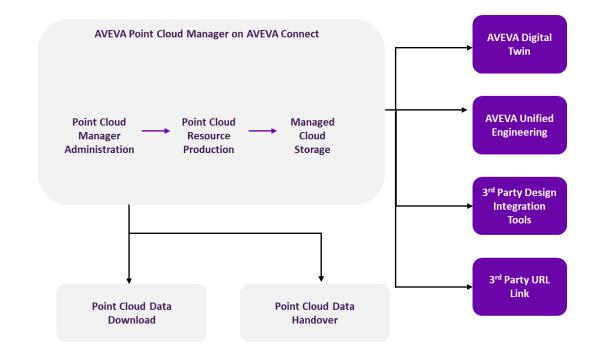
Overview

- Trusted living point cloud, single source of truth for the as-built geometry
- Hardware-agnostic approach supports project needs by ensuring the right hardware is used for the right job
- Scalable, robust and reliable enterprise-wide or project-specific resource management

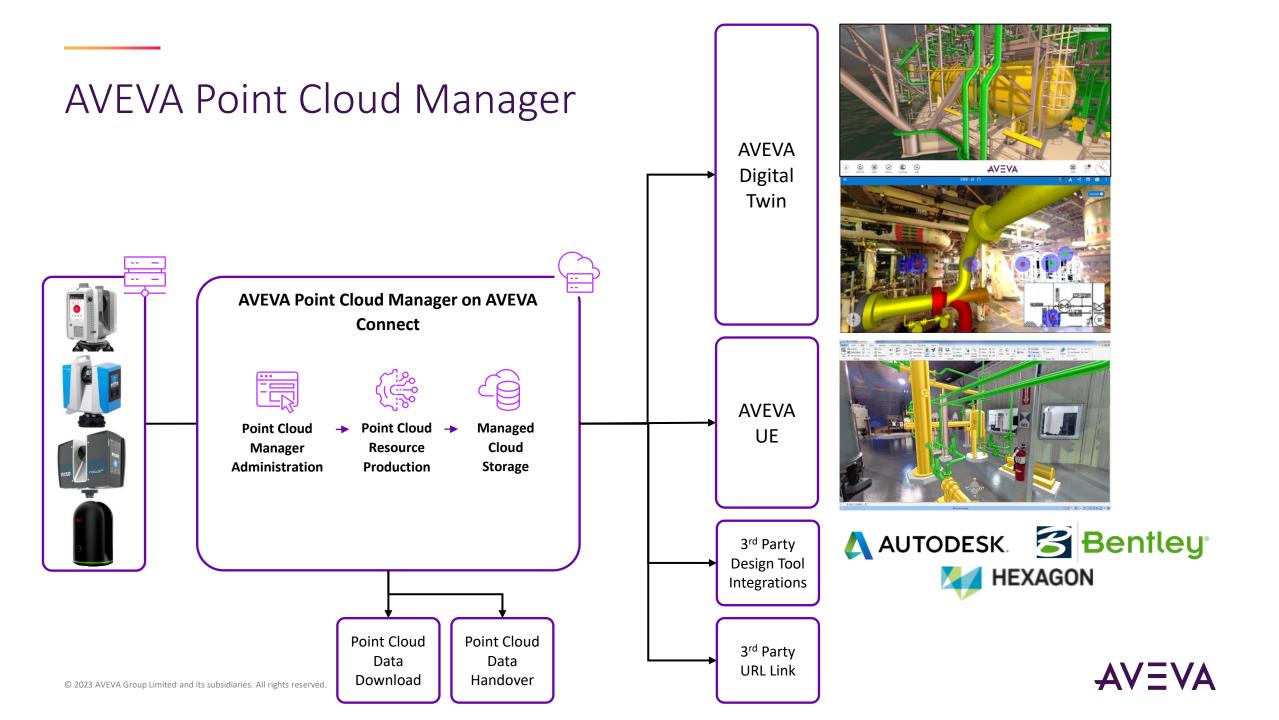
• Easy and flexible interface lets users display, enter and visualize complex information

Benefit areas

- Improve project quality
- Optimize materials availability, and minimize waste and surpluses







ΛΤΚΙΝ

Needed to reduce time creating deliverables and boost engineering collaboration to enable lean methods in brownfield project execution.

Challenges

- Compliance with industry, company, and project standards
- High cost of doing business in Australia
- Traditional surveying techniques can be slow and costly

40% reduction in the delivery time of structural drawings and global deployments are now set up in days, not months "When we ran a trial of AVEVA E3D Design, we found that getting drawings out in this way would reduce the delivery time of structural drawings by 40%. That's a lot. 40% saves a lot of money, especially if you're looking at massive projects such as the Apache Energy project."

Jim Wright

Design Team Lead, Atkins

final End



AVEVA E3D Design

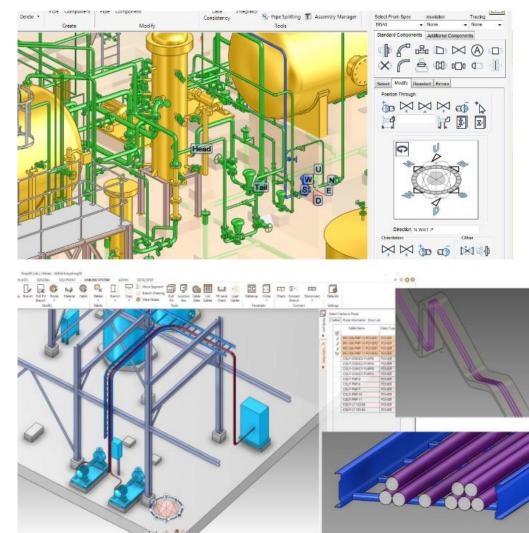
The most advanced and powerful 3D engineering design software, enabling clash free, multi-discipline collaboration on the cloud to maximize engineering and design efficiency.

- Rapid deployment and project start-up
- Increased design efficiency
- Easier regulatory compliance with automatic drawing production
- Breakdown disciplinary silos through clash-free design to avoid costly, unsustainable rework and on-site retrofits
- Integration of as-built laser scan data allows users to update and correct any non-compliant construction without the need to be on site

Features & capabilities

High level overview

- Efficient, intuitive usability
- Multi-discipline
- Inbuilt clash detection
- Laser data merged directly with model
 - Ability to demolish parts of the point cloud and represent laser in drawings
 - Maintain a living, up-to-date point cloud
- Drafting integrated with model
 - Quickly produce scale drawings



AVEVA



Needed fast, efficient, effective engineering & design tools capable of handling the complexities of large-scale nuclear projects

Extensive use of AVEVA engineering & design software for fast, efficient design

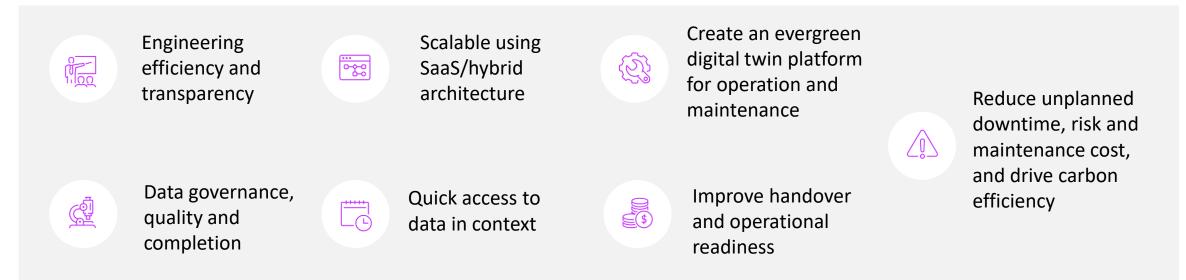
Improved productivity, quality & design consistency. Improved collaboration with partners. Easier monitoring of design status*

* Full presentation available on AVEVA YouTube site

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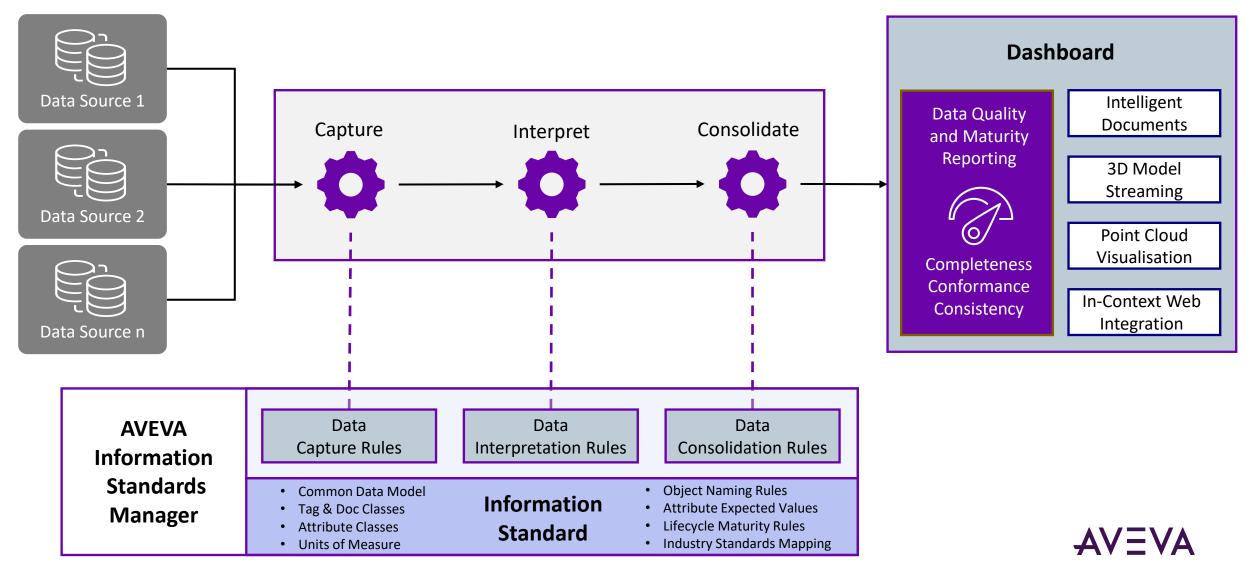


AVEVA Asset Information Management





How AVEVA Asset Information Management works





Ørsted uses AVEVA™ Unified Engineering and AVEVA Asset Information Management in the cloud to drive efficiencies across its wind farm, hydrogen and carbon capture design projects. Connecting engineering teams in the cloud streamlines collaboration, driving best practices across the organization while the AVEVA Asset Information Management software enables optimization of the asset performance using predictive analytics.

Improved design processes and data transparency with seamless integration throughout the engineering lifecycle

Increased cross-functional collaboration based on shared data and resources

Optimized engineering efficiency



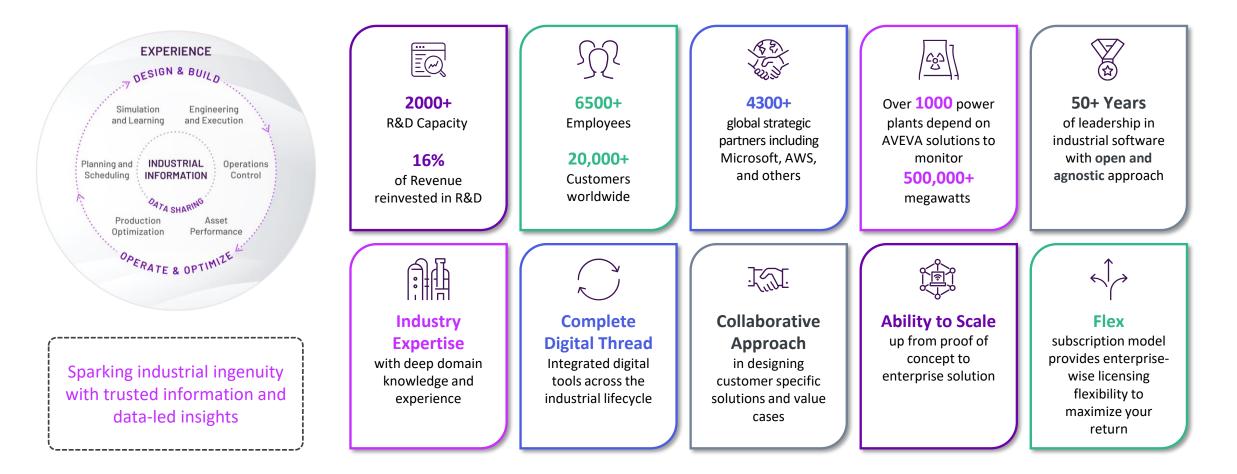
Our proven success



Trusted by the power industry



Why AVEVA?







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Questions?

Please wait for the microphone. State your name and company.



Please remember to...

Navigate to this session in the mobile app to complete the survey.

Thank you!

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ABOUT AVEVA

AVEVA is a world leader in industrial software, providing engineering and operational solutions across multiple industries, including oil and gas, chemical, pharmaceutical, power and utilities, marine, renewables, and food and beverage. Our agnostic and open architecture helps organizations design, build, operate, maintain and optimize the complete lifecycle of complex industrial assets, from production plants and offshore platforms to manufactured consumer goods.

Over 20,000 enterprises in over 100 countries rely on AVEVA to help them deliver life's essentials: safe and reliable energy, food, medicines, infrastructure and more. By connecting people with trusted information and AI-enriched insights, AVEVA enables teams to engineer efficiently and optimize operations, driving growth and sustainability.

Named as one of the world's most innovative companies, AVEVA supports customers with open solutions and the expertise of more than 6,400 employees, 5,000 partners and 5,700 certified developers. The company is headquartered in Cambridge, UK.

Learn more at www.aveva.com