

AVEVA™ Unified Engineering

Enable your global project teams to work more efficiently with our integrated 1D, 2D, and 3D multidiscipline engineering and design tools.

AVEVA Unified Engineering is a data-centric solution designed to empower your large engineering and design teams working across the globe and across disciplines to be able to deliver as efficiently as possible.

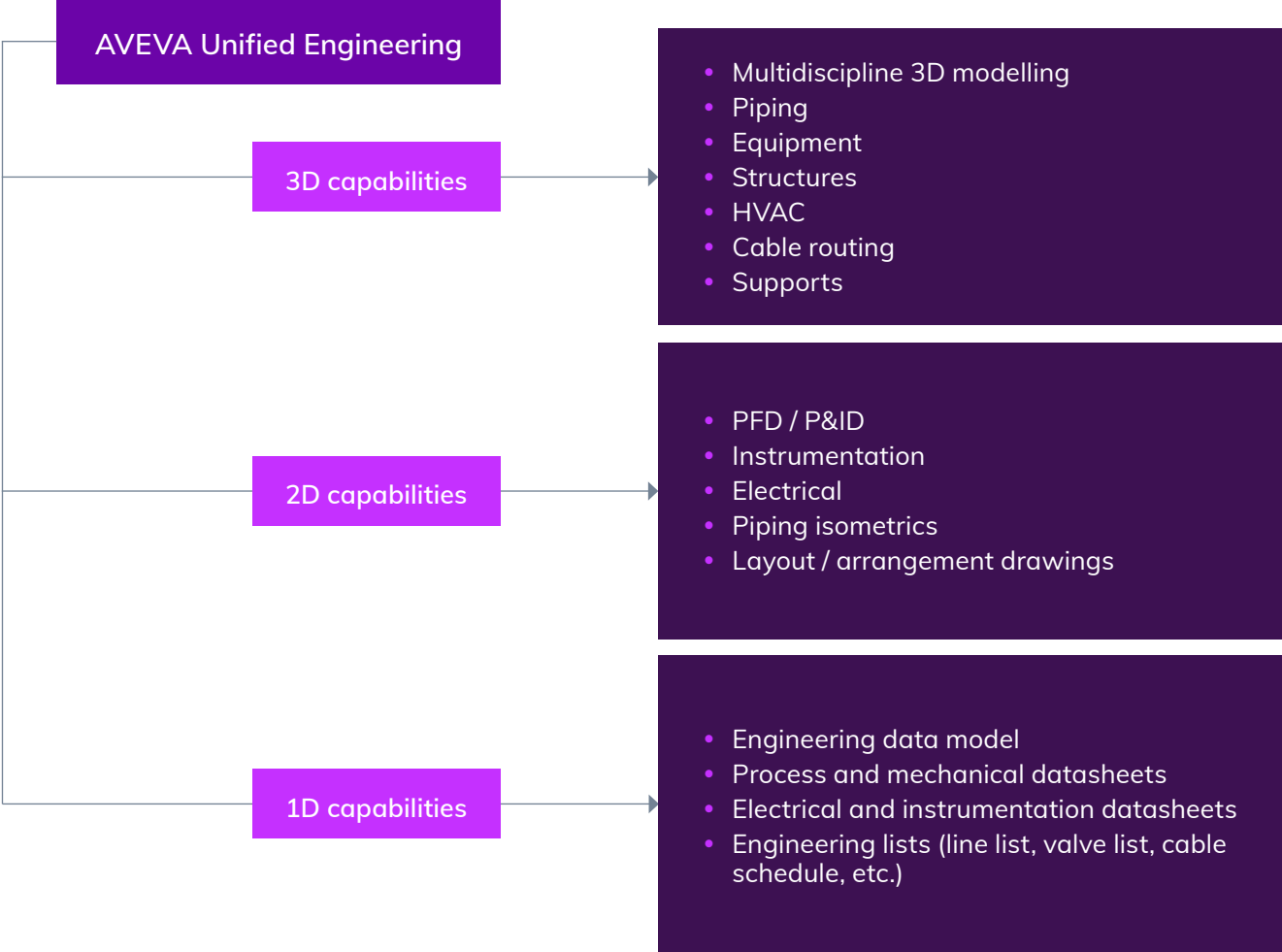
Allowing your teams to work from a single source of project truth, AVEVA Unified Engineering:

- Facilitates project transparency
- Builds a bridge of digital communication between asset owners and their contractors
- Lays the foundation for an asset's digital twin
- Enables continuous digital handover

As per Gartner®, “Business leaders want to better understand the value that software engineering teams are delivering. Software engineering leaders have an opportunity to translate engineering data into business insights.”¹

AVEVA Unified Engineering overview

Utilizing cloud technology, AVEVA Unified Engineering allows you to easily unify your global project teams across sites, regions, and organizations. AVEVA Unified Engineering centralizes the following solutions into a single technology stack:



¹Gartner, Top 5 Strategic Technology Trends in Software Engineering for 2024; by Joachim Herschmann, Manjunath Bhat, Frank O'Connor, Arun Batchu, Bill Blosen, 15 May 2024, GARTNER is a registered trademark and service mark of Gartner, Inc. and/or its affiliates in the U.S. and internationally and is used herein with permission. All rights reserved.

The AVEVA Unified Engineering portfolio of solutions



3D design:

- AVEVA E3D Design, part of AVEVA Unified Engineering, is a 3D plant design solution that allows your teams to work together to deliver efficiently and effectively.

[Know more](#)



Process and mechanical:

- AVEVA™ P&ID and AVEVA™ Diagrams, part of AVEVA Unified Engineering, are 1D/2D authoring tools for engineers and designers to easily create, edit, and manage intelligent piping and instrument drawings.

[Know more](#)



Datasheets, tags, and lists:

- Highly versatile and configurable, AVEVA™ Engineering, part of AVEVA Unified Engineering, enables your teams to edit, control, and view data across traditional silos, maintaining a detailed definition of all key engineering items involved in your projects.

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Asset life cycle management (ALM):

- ALM takes traditional product life cycle management (PLM) solution capabilities, typically used in discrete industries and delivers them fit-for-purpose to teams working on large capital projects. ALM expands on PLM with capabilities for the entire asset life cycle; from concept to decommissioning.

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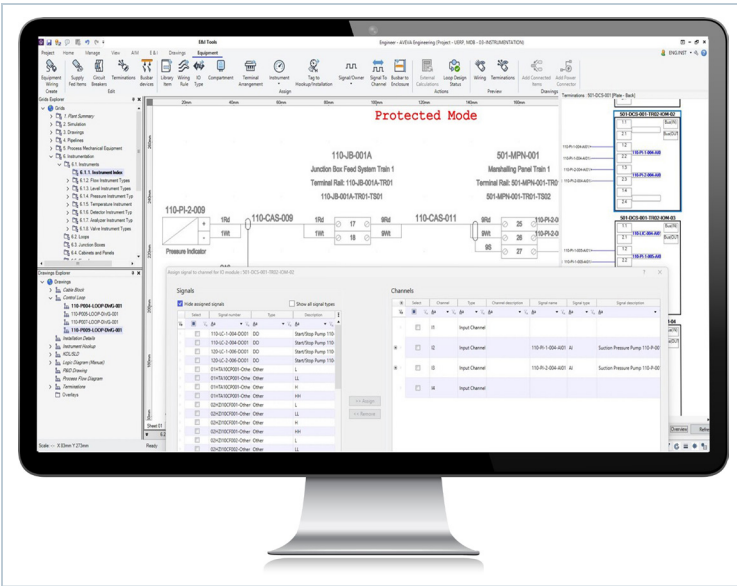


Electrical and instrumentation:

- AVEVA™ Electrical and Instrumentation, part of AVEVA Unified Engineering, is a 1D/2D authoring tool that allows your engineers and designers to quickly and effectively produce intelligent, high-quality electrical and instrumentation designs and deliverables.

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AVEVA Unified Engineering is open and agnostic, allowing you to import data from third-party tools, augmenting your existing tech stack and digital workflows.



“End users will have the ability to navigate seamlessly between all the information sets in a single, connected environment. They won’t have to waste time figuring out which system they need to go to in order to access the information they need.”

—
Kieth Tallent
 Global Services Manager, KBR

Create the foundation for a connected, living digital twin

By having all your project engineering and design data as a single, live database you lay the foundation for a complete digital asset. A true digital representation of the future physical installation allows you and your team to conduct continuous digital handover, rather than traditional discrete, document-based handover. Digital handover speeds up project completion and delivers a persistent, meaningful asset for use over the complete asset life cycle, rather than having design-stage documentation that is filed and forgotten.

Creating the basis for a digital twin with AVEVA Unified Engineering allows you to connect with the full AVEVA platform of industrial solutions, including operations software with predictive analytics, AI tools, and GHG tracking.

Flexible, efficient, scalable, and sustainable

Improve your project sustainability outcomes from the very beginning of the first concept of your project asset’s lifetime. Drive project efficiency, reduce waste and risk, optimize schedules, automate deliverables, and reduce time on-site.

AVEVA Unified Engineering not only deploys quickly and efficiently across regions and disciplines, it also scales comfortably with project size. Templatize and re-use design work on similar projects, and intake and work with data directly from multiple third-party sources. Significantly reduce traditional software infrastructure requirements and administration costs for your teams.

Hear from our customers



Tecnicas Reunidas

creates its 3D plant designs in the cloud, which has enabled the company to create clash-free 3D models accessible by teams across the world, helping the company avoid rework and extra costs.

[Read more](#)



Aker Carbon Capture

uses AVEVA Unified Engineering in the cloud to create efficient and replicable designs for carbon capture units. The cloud-based software allows teams to collaborate across time zones, resulting in an increase in operational efficiency and a reduction in engineering hours.

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Wood

CTO Darren Martin said, "Our vision, through working with AVEVA, is to design and build projects safer, more sustainably and faster, and ultimately reduce costs."

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