

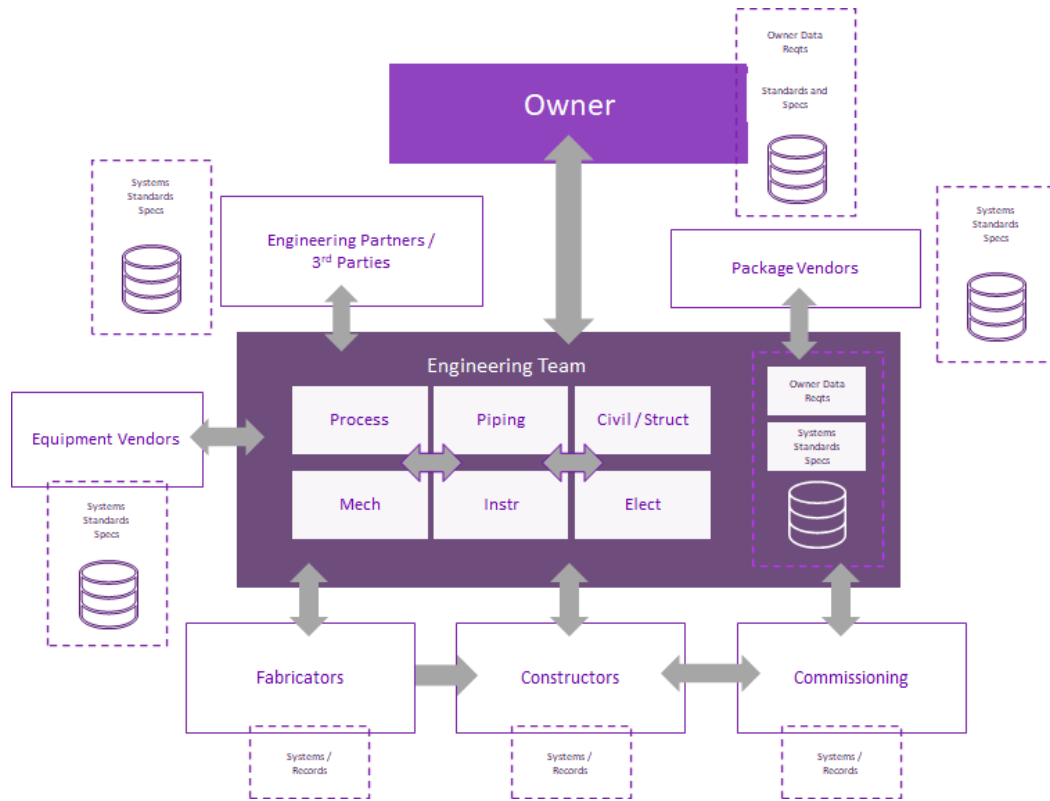
OCTOBER 24, 2023

AVEVA™ Unified Engineering for seamless integration and digital transformation

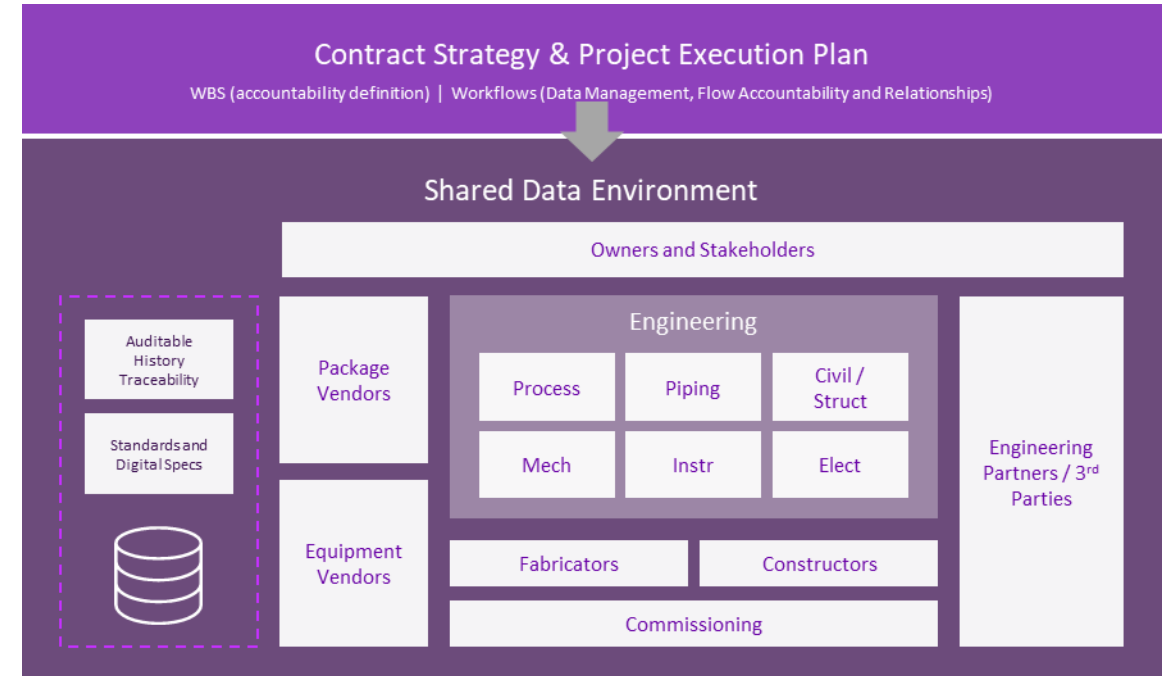
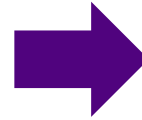
Brian Hughes, Vice President of Portfolio for Engineering

AVEVA

Evolving to a truly digital project environment

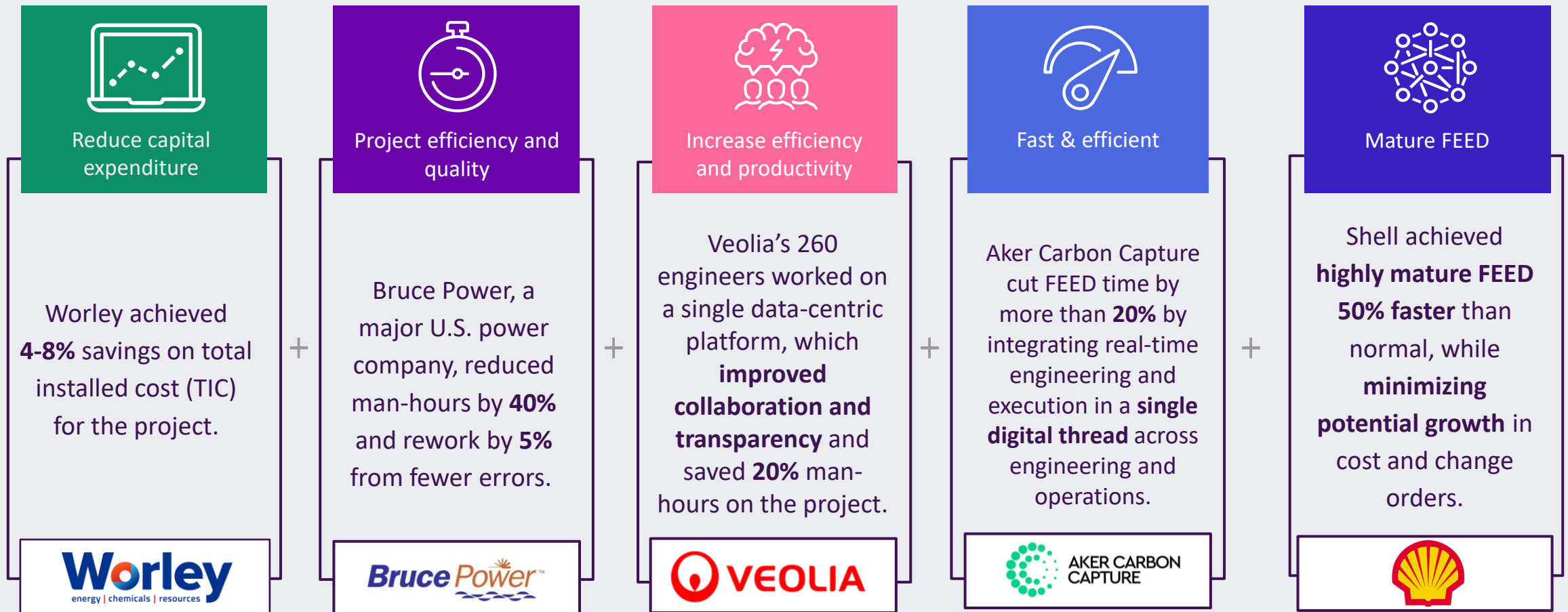


Disconnected systems, teams, and project data



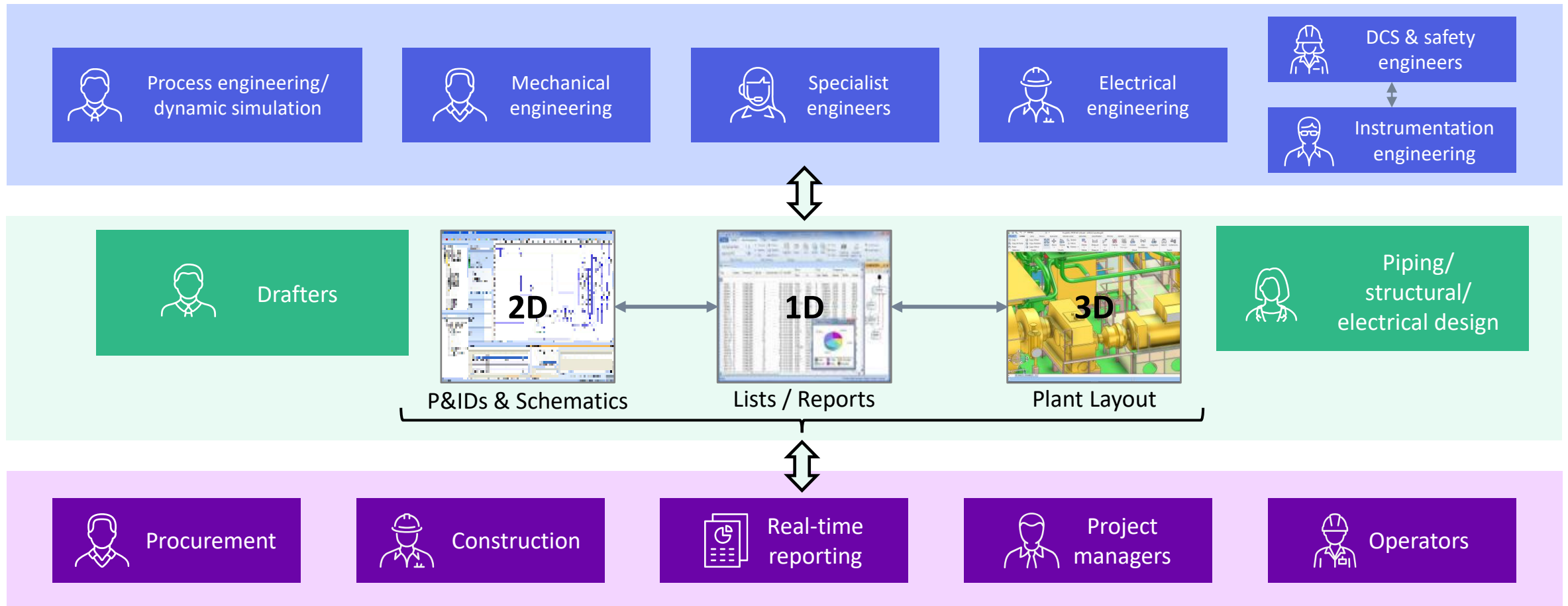
Connected systems, teams, and project data

Proven business outcomes



AVEVA Unified Engineering

1D, 2D, 3D multi-discipline engineering and design leveraging common data



AVEVA Unified Engineering enables collaboration in a complex world



Simplify—Remove the need for multiple technologies that drive unnecessary costs and limit performance.



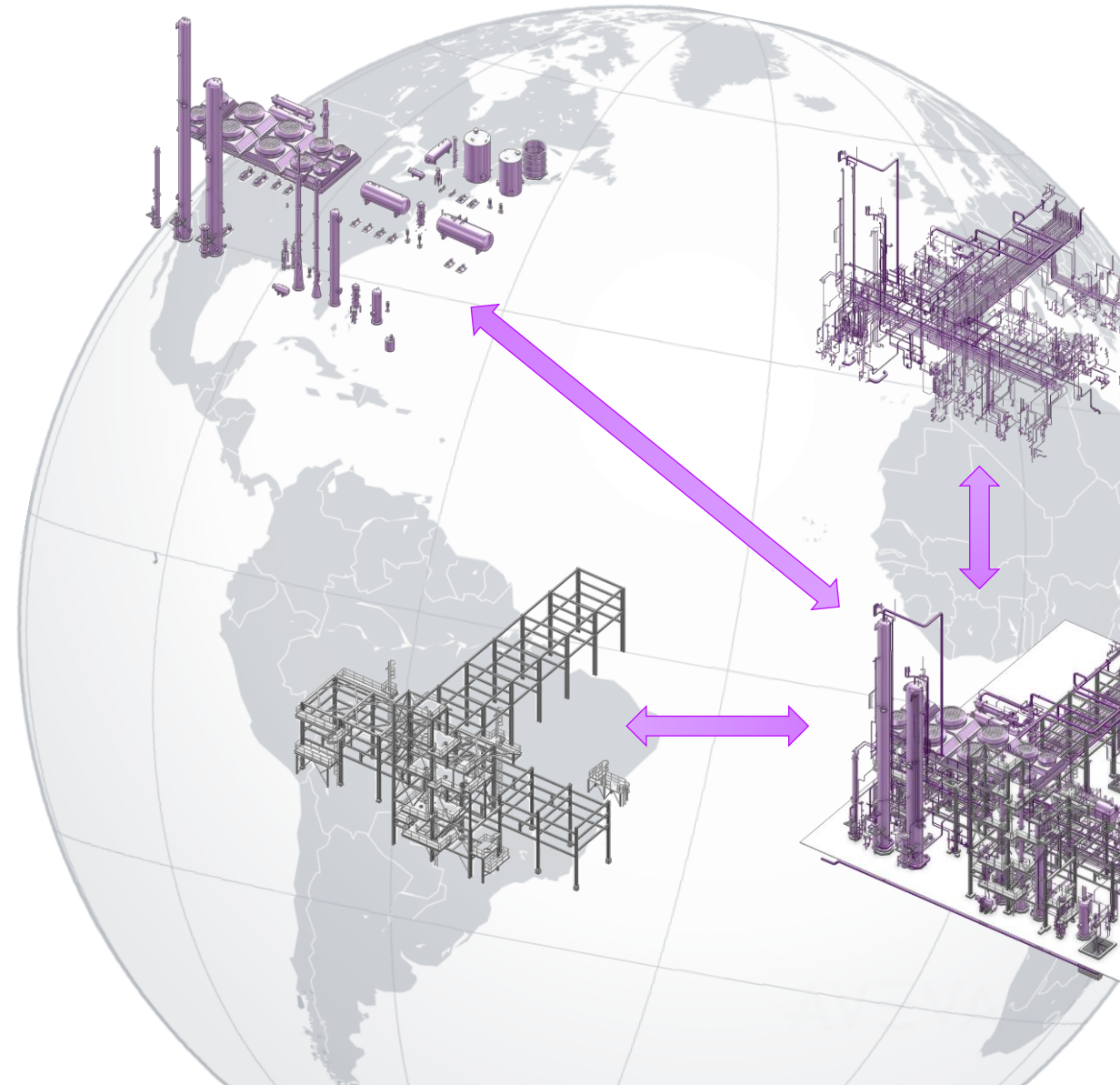
Drive time to value—Reduce complexity, time, and cost for setup and maintenance.



Collaborative—Make data-sharing easy, while meeting IT security and data access control demands.



Dynamic—Leverage flexible configurations that can be adjusted as projects, facilities, and businesses mature.



Unified Engineering Roadmap

Key initiatives



All authoring solutions on Dabacon

AVEVA Electrical and Instrumentation
Next-generation P&ID



Unified Engineering

Multi-Site, multi-region,
multi-organization

Phased Release with 3D
first UE released July

1D/2D added UE Q4 2024.



Cloud UE / AVEVA™ Connect evolution

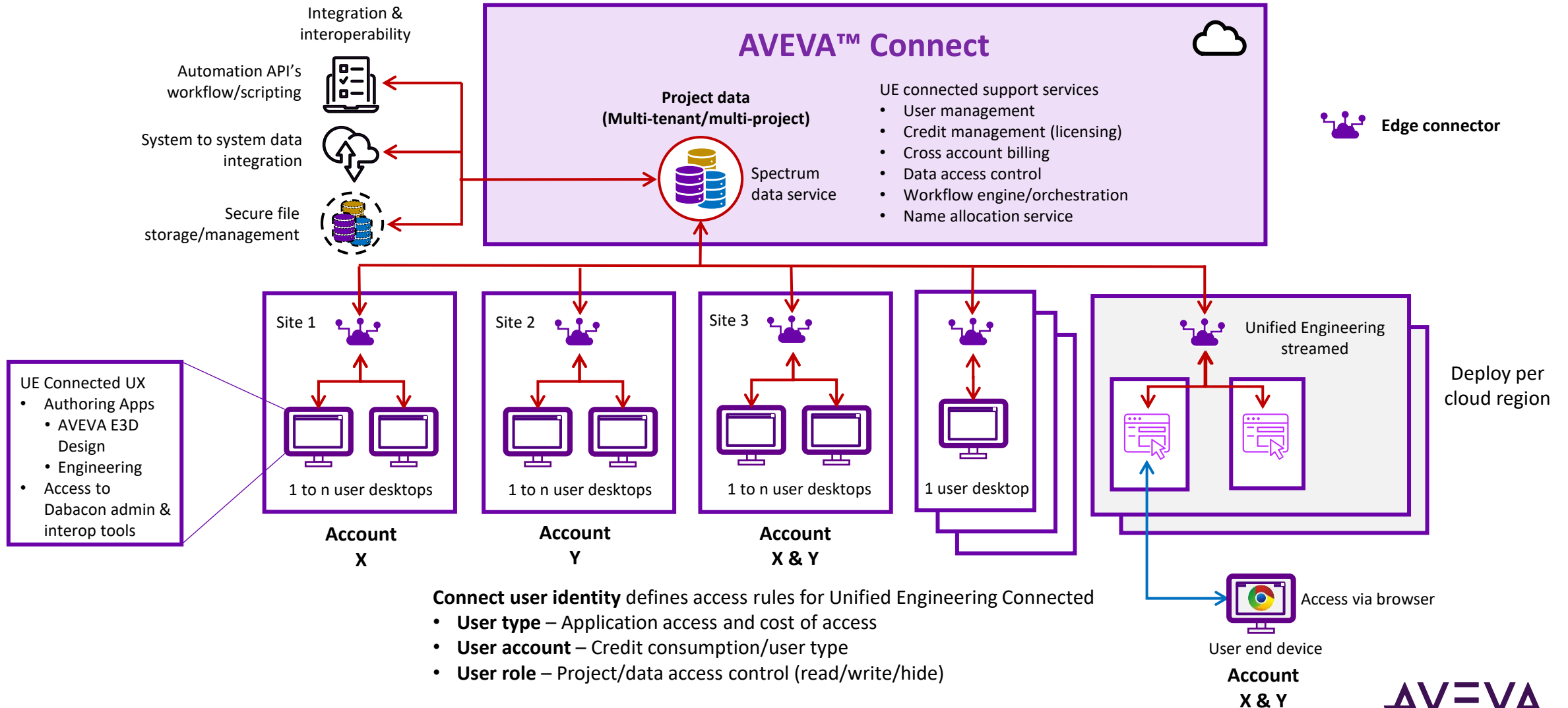
Appstream vs AWS
Workspaces – Enable cloud UE option in more regions and support for data residency in countries



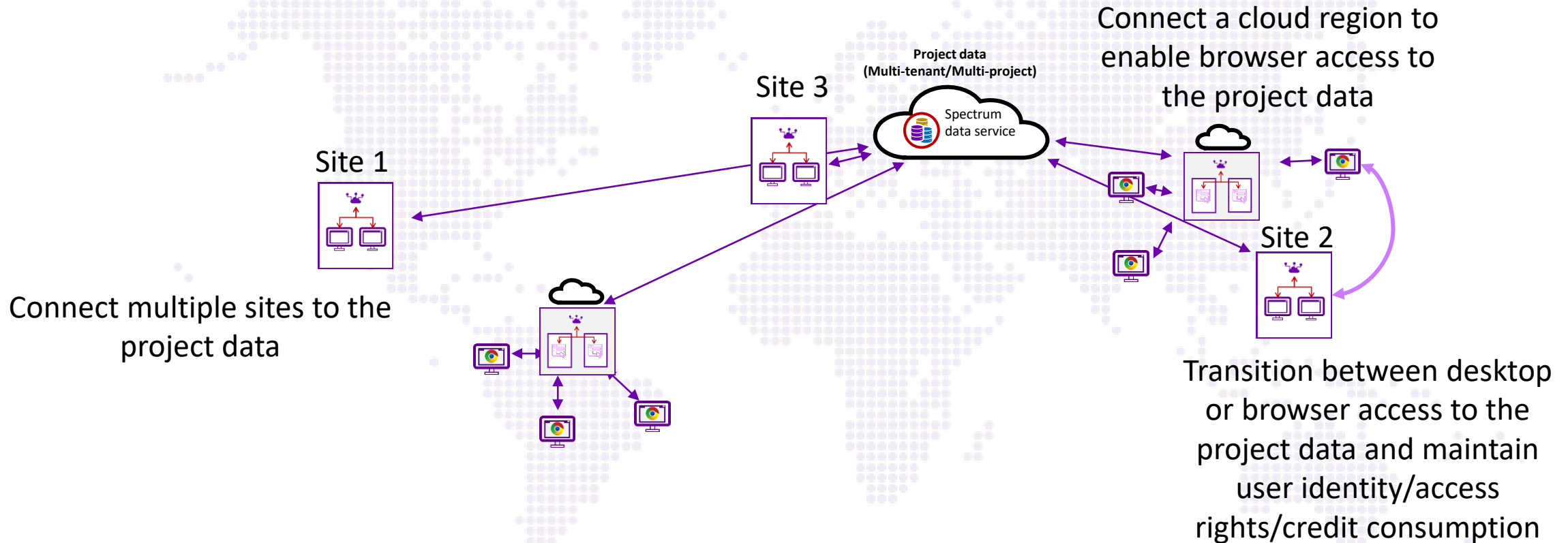
Integration enhancements

Secure Cloud File Share
AVEVA Integration Service
Evolution Rest API of Data Source to Data Source mapping – Q4 2023
Cloud Configuration and Cloud Connector for AIS REST API – Q4 2023

AVEVA Unified Engineering—Next-gen solution (@ September 24)



AVEVA Unified Engineering



Unified Engineering API – Development direction

3rd-party REST client



AVEVA Unified Engineering public REST APIs



Data transfer APIs

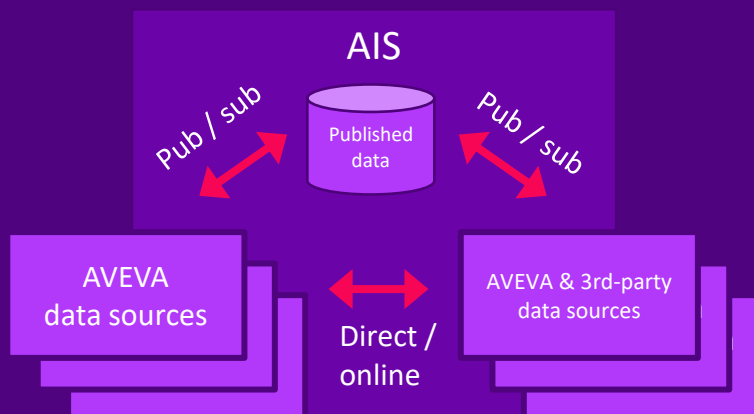
- Publish & read data
- Pub/sub
- Notifications



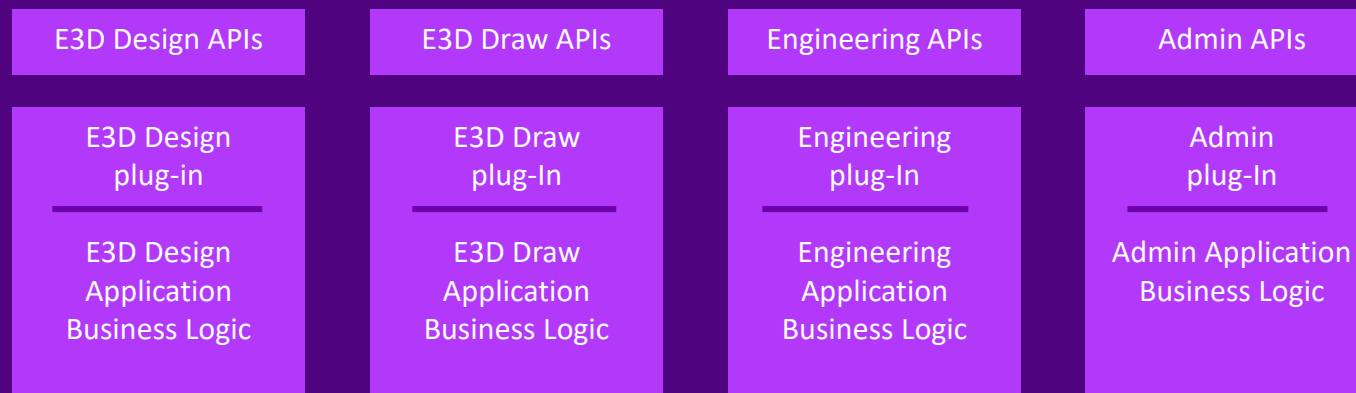
Action APIs

- Create & modify objects
- Design automation
- Batch processing, e.g. deliverable creation etc.

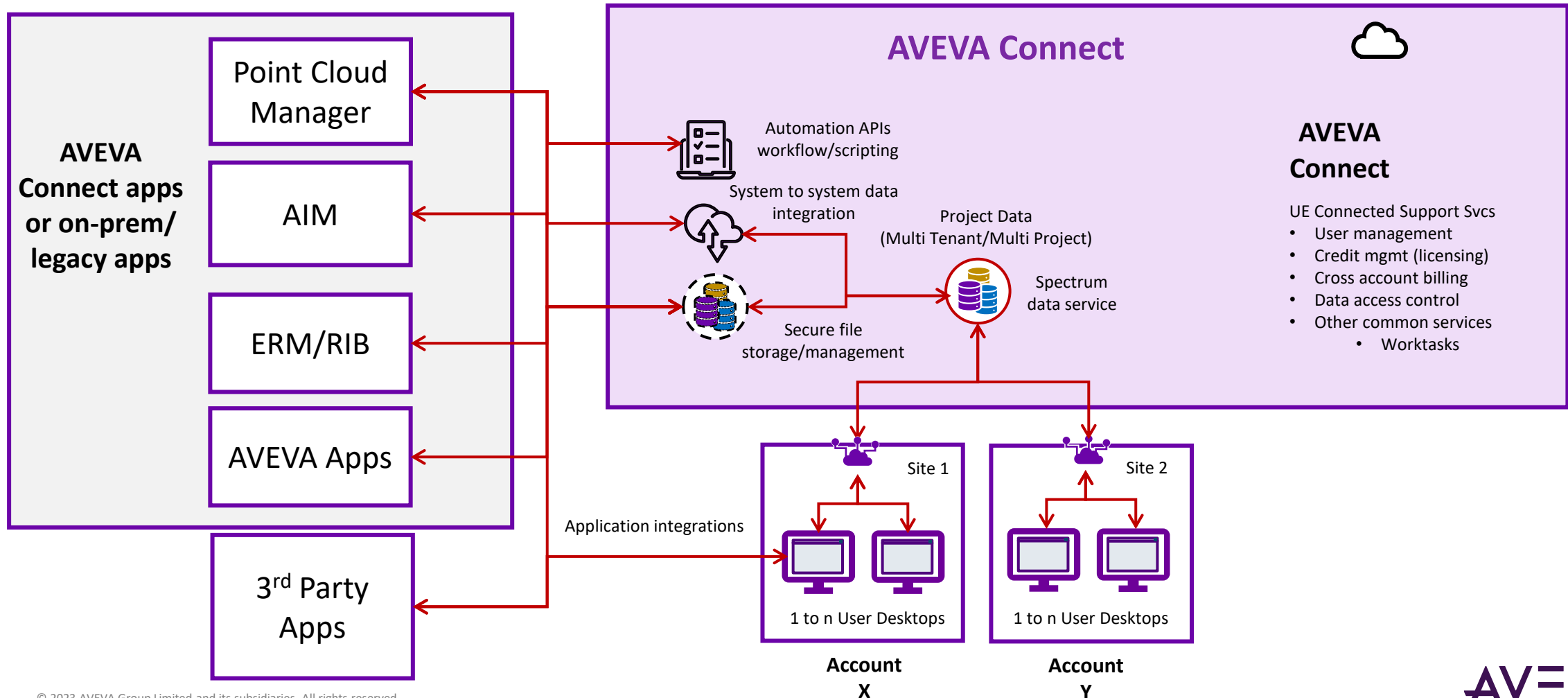
AVEVA integration service (on-prem & cloud)



AVEVA application service (API host service – Cloud/spectrum projects only)



AVEVA Unified Engineering connectivity to other AVEVA apps



Unified Engineering evolution – Connecting on-prem to cloud

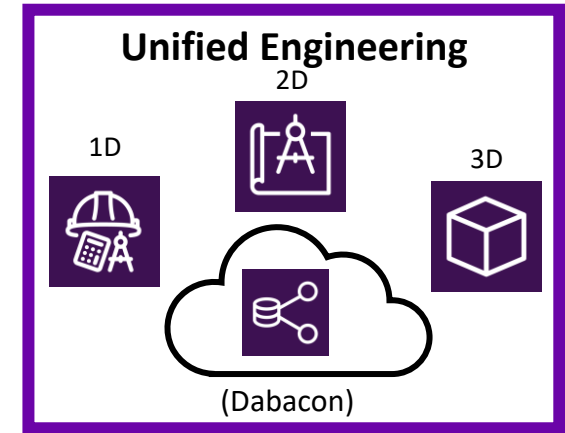
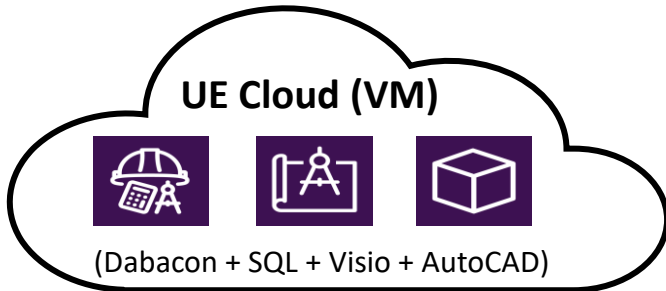
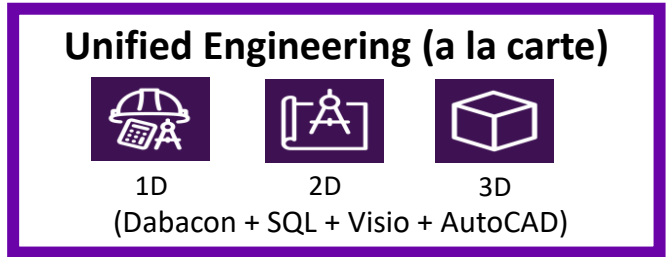
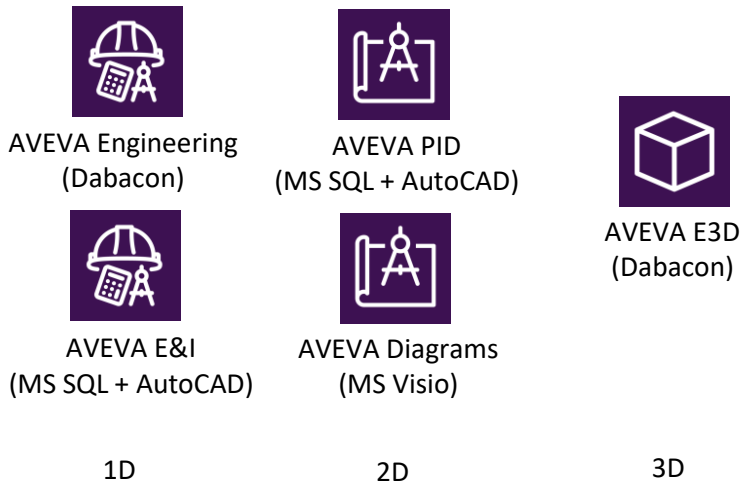
Products



Suite



Hybrid



Previously -> Today -> Future

Previously

A la carte products (**on-premise**)

- 3D: AVEVA E3D Design
- 2D: AVEVA P&ID or Diagrams,
- 1D: AVEVA Engineering (including E&I disciplines)
- Simulation: AVEVA PRO/II, AVEVA Process Simulation

OR

AVEVA Unified Engineering on Connect (**Cloud UE SaaS**)

- Standardized solutions as an AVEVA-managed cloud service
- Sold only with AVEVA™ FLEX cloud credits
- All the same products available as on-prem
- Utilizing AWS Workspaces today and transitioning to AWS streaming technology later this year

Today (Summer 2023)

In addition to what we have today...

AVEVA Unified Engineering (M1)

- Contains 3D product ONLY
- Project data stored in the hybrid cloud (Spectrum data service)
- Available July 2023
- Access via AVEVA Flex cloud credits

Future (Fall 2024)

AVEVA Unified Engineering (M2)

- Only available through consumption of AVEVA Flex cloud credits
- This solution will eventually replace AVEVA Unified Engineering on AVEVA Connect Cloud UE solution we are selling today.
- Data residency issues resolved (multiple countries supported)
- Hosting options:
 - All on-premise – Software and data fully hosted by customer
 - Hybrid cloud – Software installed on-prem, project data in the cloud using the Spectrum data service
 - Online – All applications are accessible via online access. Fully Hosted SaaS.

Unified Engineering Roadmap

Delivery types



On-premises

All on-premise – software and data are fully hosted by customer.



Hybrid

Hybrid cloud – software installed on-prem and project data stored in the cloud, using the Spectrum data service.



Online

Online – all applications are accessible via online access. Fully Hosted SaaS.

AVEVA Unified Engineering

2023/24 Projected Feature Delivery

AVEVA Unified Engineering 1.0 (incl. E3D Design 4.0.0)

- AVEVA™ E3D Design: Spectrum enabled
- 64-bit
- Structures: Bent Plate
- Draw: Intelligent Tables
- Draw: AVEVA Whitespace Optimizer support
- Draw: Single Line Representation
- Piping: PCF interface
- Piping: AVEVA Process Simulation Export Interface
- Inclusion of Pointcloud Manager 23.1
- MultiCAD Import: Support for new CAD format versions
- BuildingSmart IFC certified 2x3 Export

AVEVA Unified Engineering 2.0

- Structures: Analysis Interface
- Mining: Conveyor Improvements
- HVAC Redesign (for production)
- MultiCAD Import: Support for new CAD format versions

AVEVA Unified Engineering 3.0

- Browser Access Option
- Communities/Data Sharing X-Account Permissions
- Isometrics: Draw based deliverable
- Piping: Sub-components
- Piping: Improved P&ID design integration
- Piping & Structures: Auto-Generative Design
- Inclusion of Pointcloud Manager x.x
- Engineering: Spectrum enabled
- Engineering: E&I On Dabacon Updates
- Engineering: Next Gen P&ID



Roadmap based upon current requirement understanding and feature scope.

Please note delivery targets are subject to PO/Stakeholder verification of feature and passing of quality gateways.

Why use AVEVA Unified Engineering?

Where we add value



Drive new digital business

Pursue new digital business deliverables in the market with a unified engineering platform developed to help you gain a competitive edge.



Streamline collaboration

Enable engineers to complete deliverables faster and with greater transparency and maturity to deliver projects on time and on budget.



Reduce cost, risk, and delays

Minimize engineering errors and accelerate project execution to deliver:

- 50% faster FEED stage.
- 30% increase in engineering efficiency.
- 5% reduction in TIC.



Maximize margins

Reduce cost throughout capital projects, while improving the quality and reliability of engineering deliverables.



Brian Hughes

Vice President of Portfolio for Engineering

AVEVA

- AVEVA
- Brian.hughes@aveva.com



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