

NOVEMBER 2022

AVEVA™ Unified Engineering Today and Tomorrow

AVEVA's Engineering and Design authoring solution... and where it's going

Greg Pada

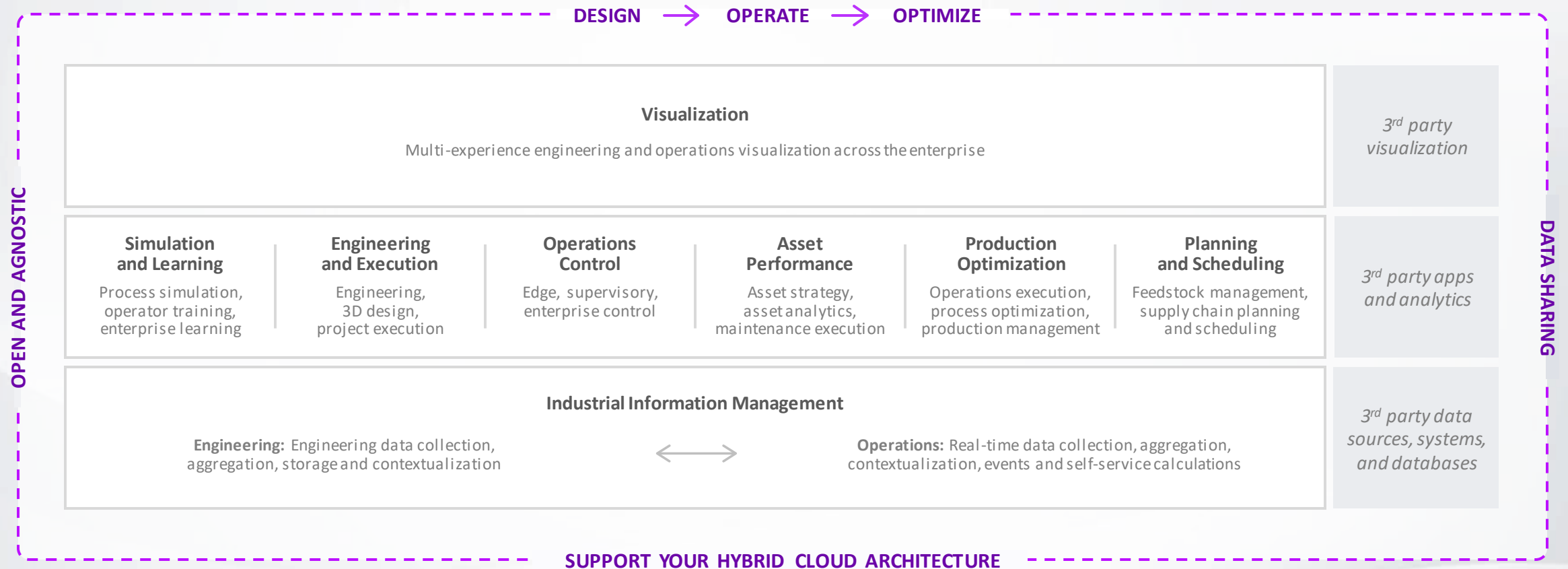
AVEVA

Agenda

- Unified Engineering in AVEVA's Portfolio
- Solving Engineering Challenges & Unified Engineering Value
- Unified Engineering Today and Tomorrow

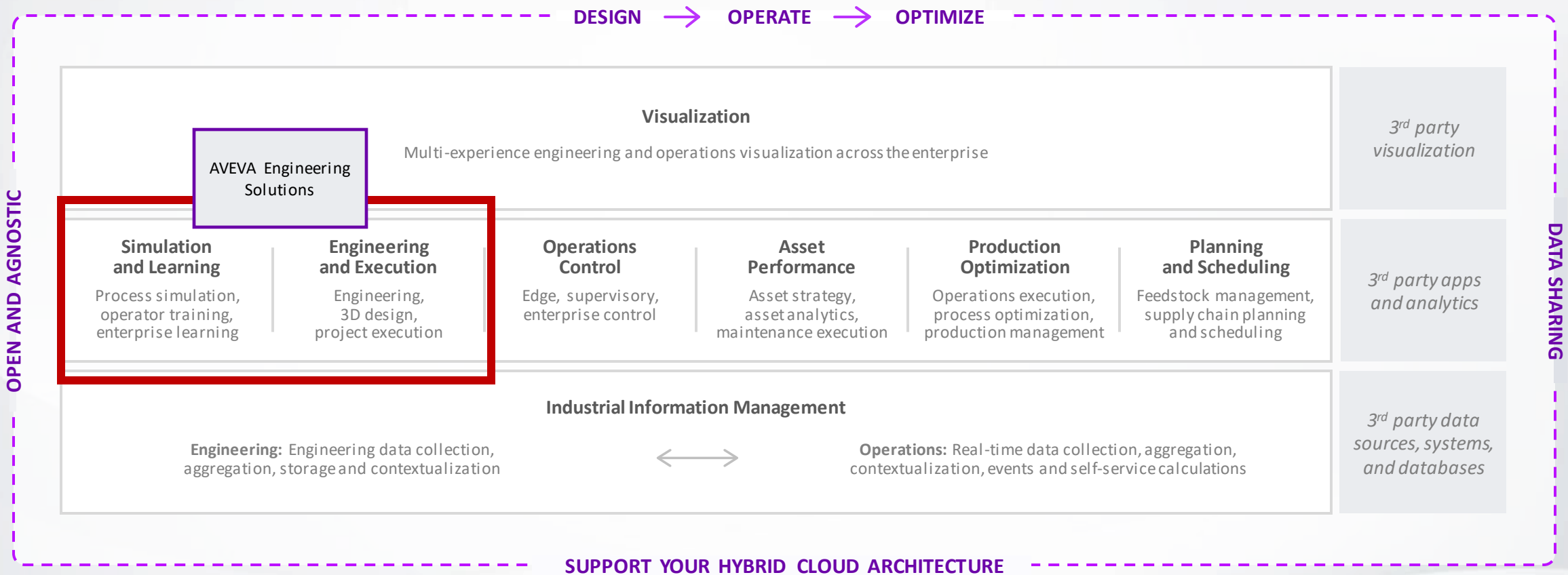
Delivering a complete digital thread, purpose-built for industry

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



AVEVA Engineering Solutions

Engineering Authoring solutions from Process Simulation, to Engineering & Design, to Project Execution and Construction Management

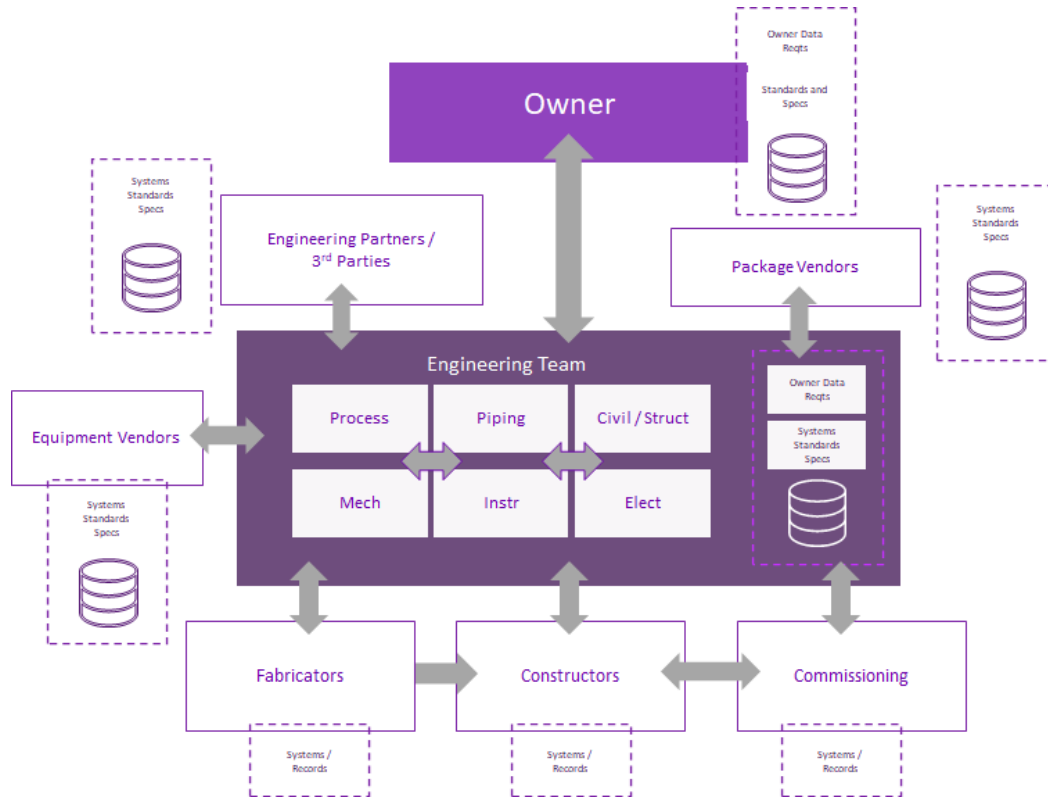




AVEVA Engineering Solutions

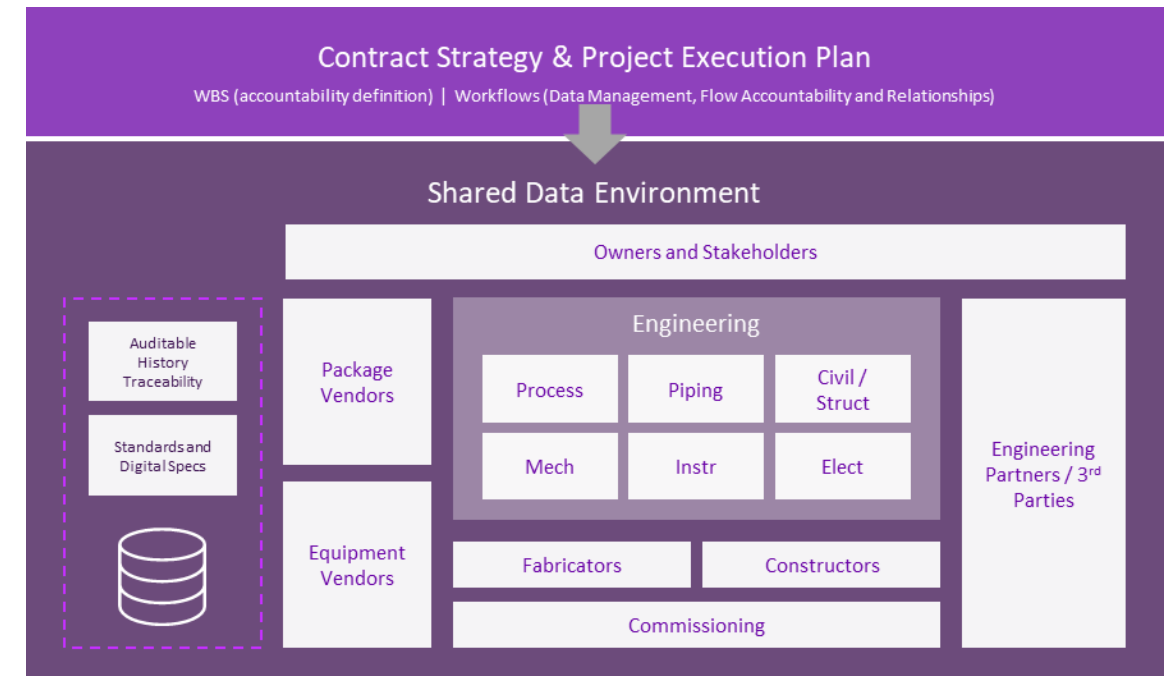
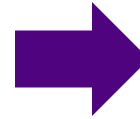


Defining EPC 4.0



EPC 3.0

Disconnected Systems, Teams and Project Data



EPC 4.0

‘Connected’ Systems, Teams and Project Data

EPC 4.0 is all about enabling collaboration in a Complex World



Simplify – Remove the need to have multiple technologies which drive unnecessary cost and limit performance



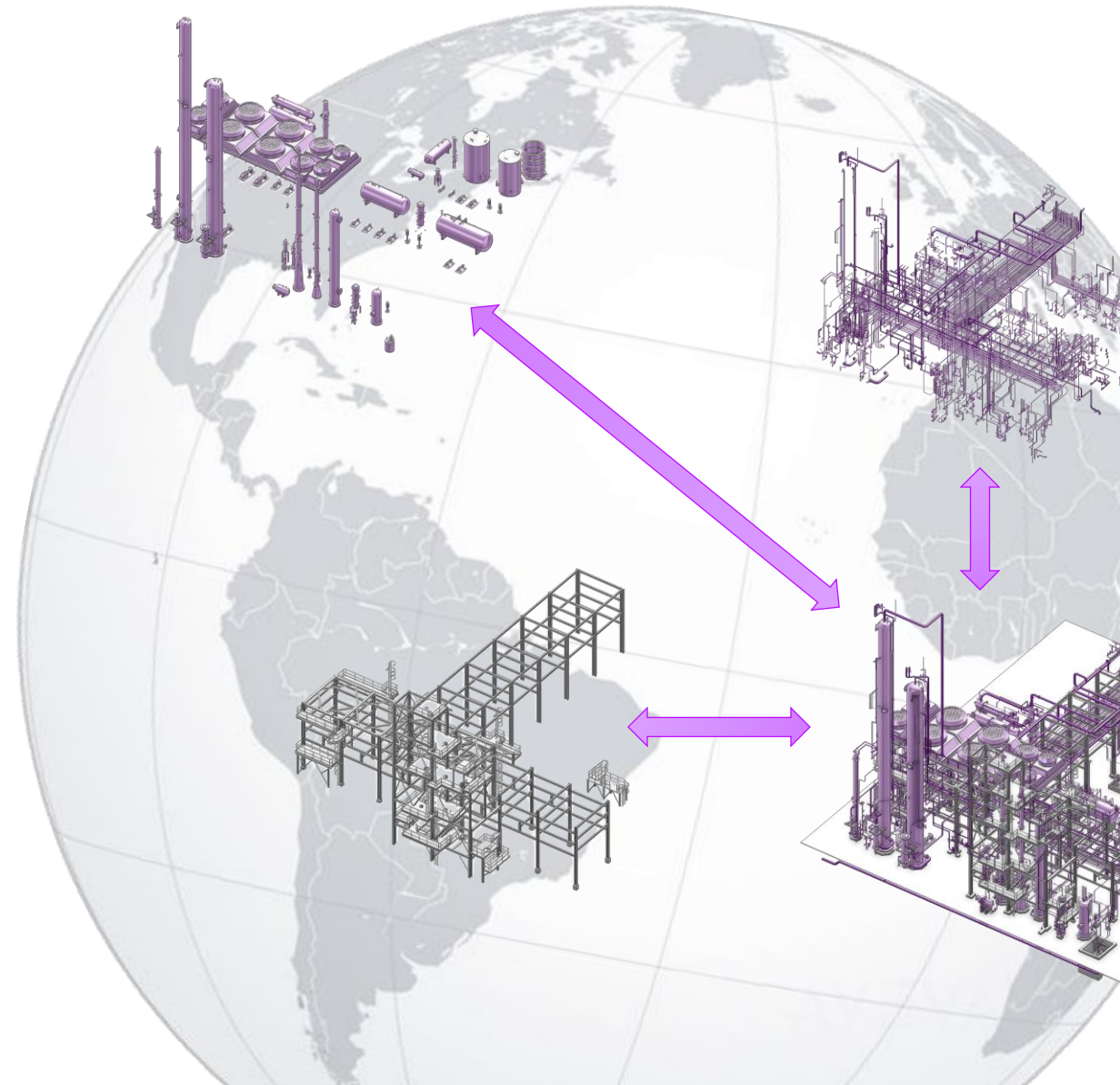
Drive Time to Value – Reduce complexity, time and cost for setup and maintenance



Collaborative – Easy data sharing while meeting IT security and Data Access control demands



Dynamic – Offering flexible configurations that can not be adjusted as projects, facilities, and businesses mature



Transparency....

Critical to Align Project Objectives

Enabled Through Shared Data

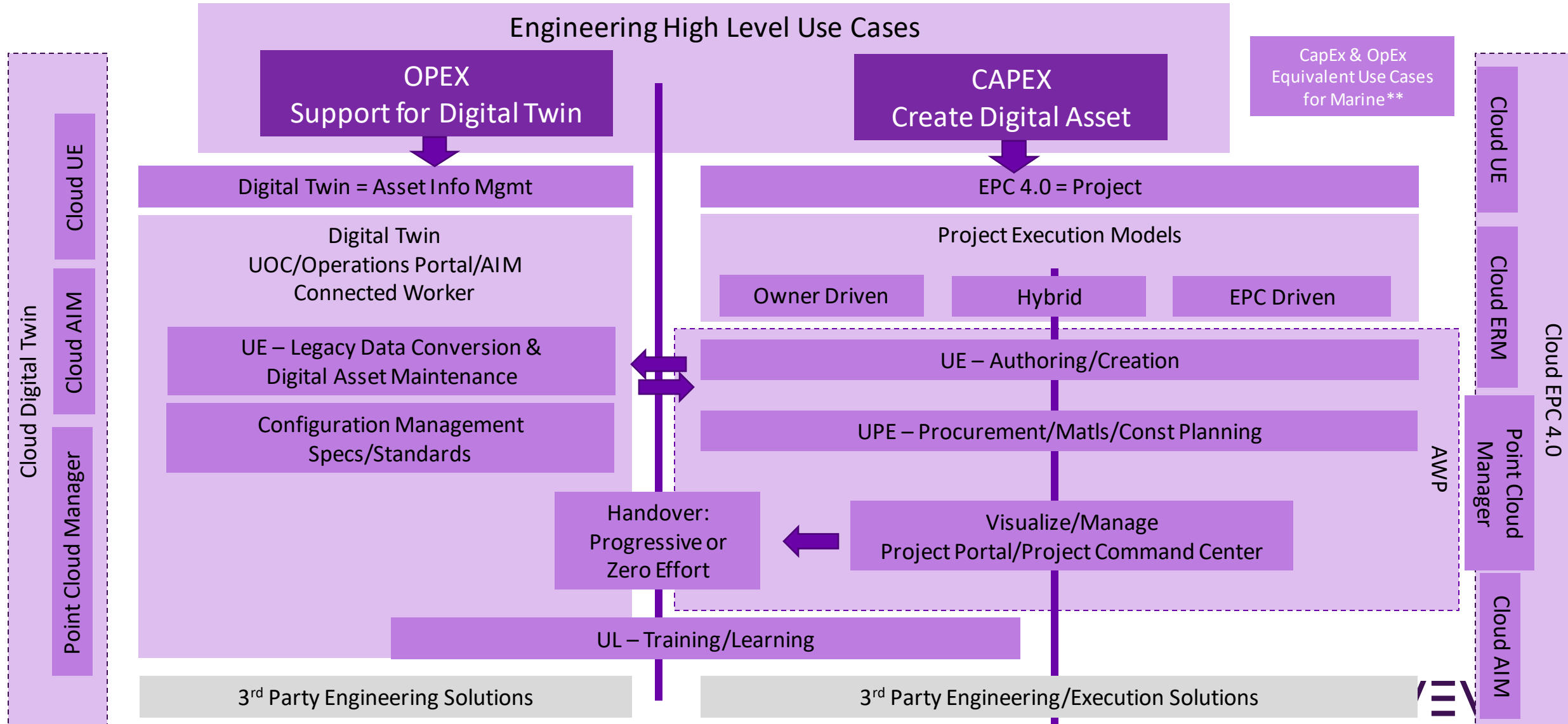
OO's Project Objectives

- Complete project on schedule
- Meet or beat budget
- Get to nameplate production as fast as possible
- Achieve production targets efficiently

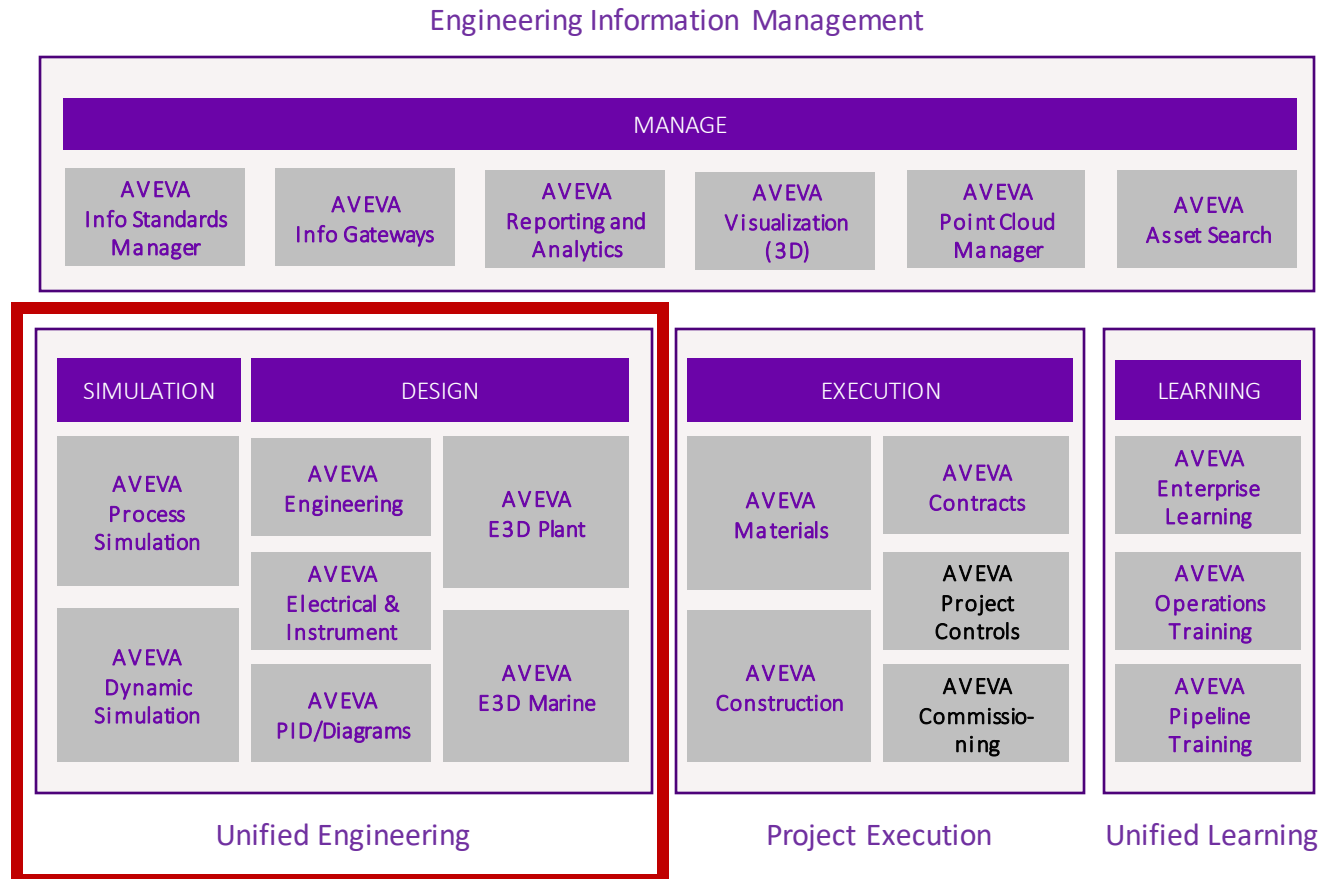
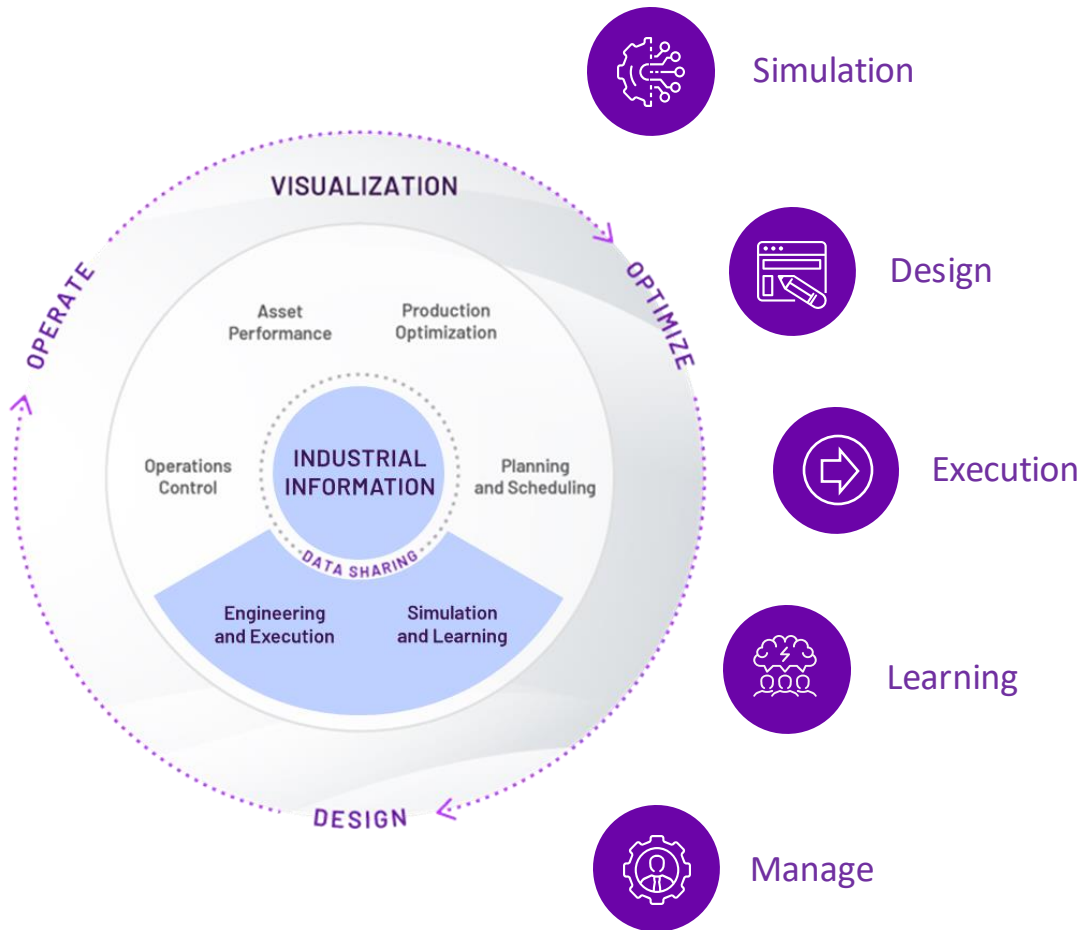
EPC's Project Objectives

- Want to win project – need to bid competitively
- Keep client happy – want to get next project
- Maintain margins on project

AVEVA's Engineering Solution Use Cases

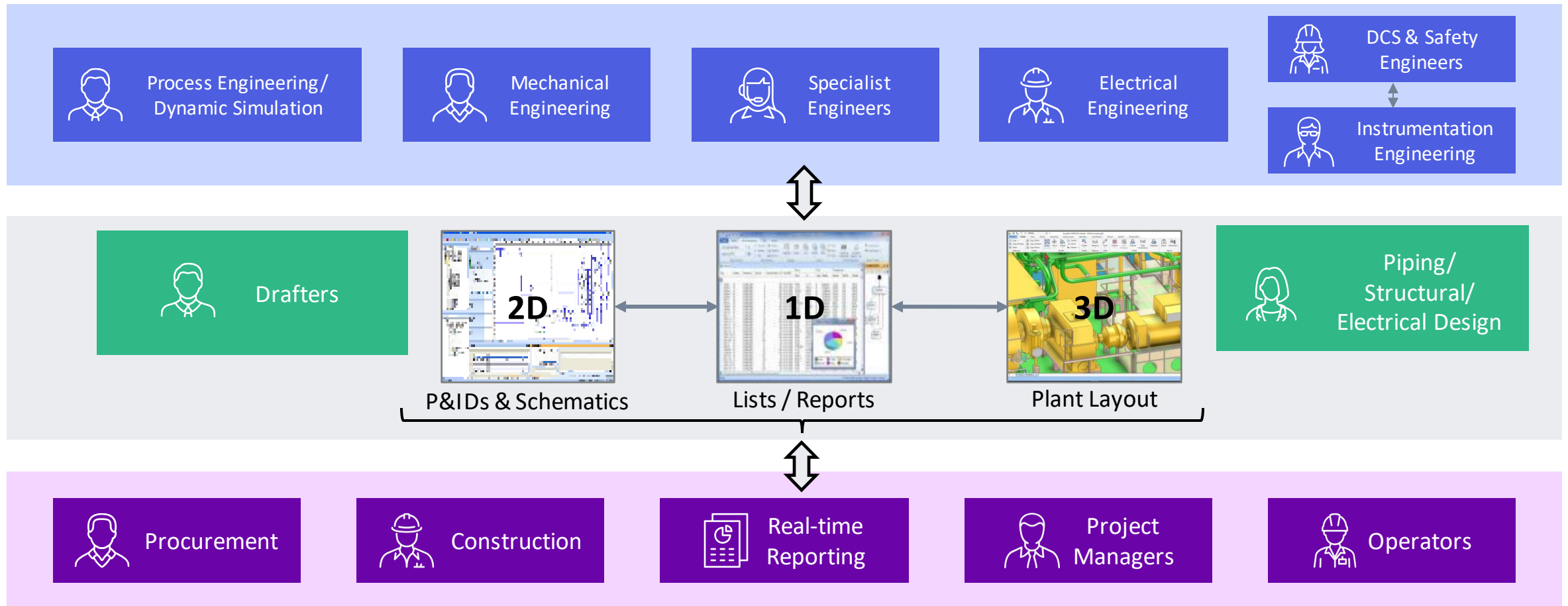


AVEVA's EPC 4.0 Suite – Unifying Engineering, Execution and Learning



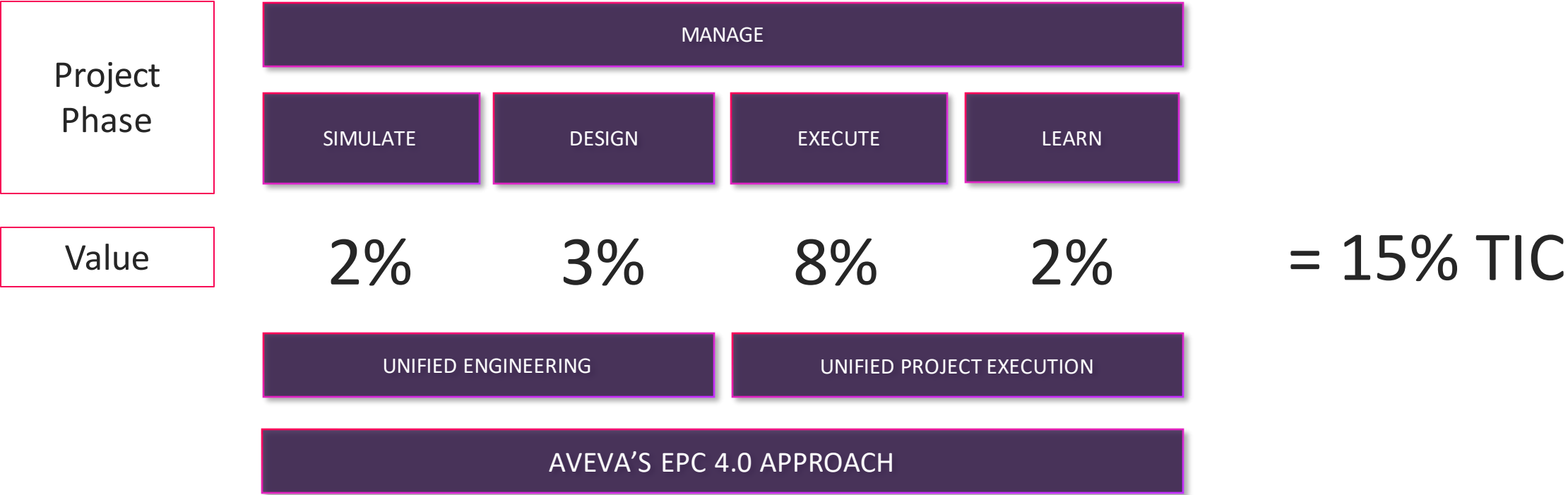
AVEVA Unified Engineering

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





EPC 4.0 Business Value



Unified Engineering Applications

Today

Simulation:

- AVEVA Process Simulation
- AVEVA PRO/II Simulation

Engineering & Schematics:

- AVEVA P&ID & AVEVA Diagrams
- AVEVA Electrical (SQL)
- AVEVA Instrumentation (SQL)
- AVEVA Engineering
 - Electrical & Instrumentation

Design:

- AVEVA E3D
 - MultiCAD Import, Model Simplification
 - Whitespace Optimizer
- AVEVA Marine
- AVEVA PDMS (End of Life)

Tomorrow

Simulation:

- AVEVA Process Simulation
- AVEVA PRO/II Simulation

Engineering & Schematics:

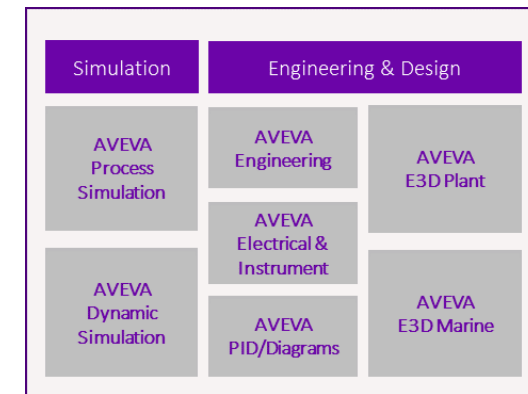
AVEVA Engineering

Electrical & Instrumentation – 15.7 (Now) parity with SQL

Next Gen P&ID – H2 2023

Design:

- AVEVA E3D
 - MultiCAD Import, Model Simplification
 - Whitespace Optimizer
- Marine Hull & Outfitting – 2026 full release, intermediate capabilities available between**
- AVEVA Marine



Unified Engineering Applications

What's the benefit.....

Simplify:

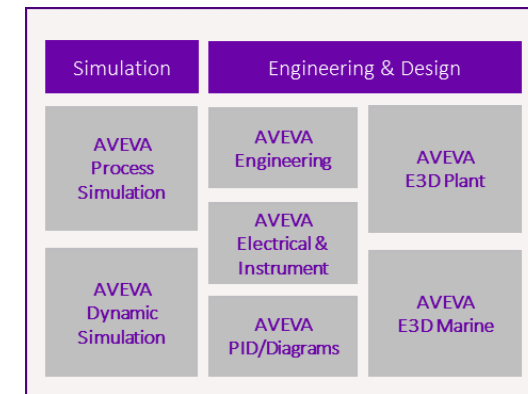
- Single Tech Stack
- Ease of configuration less integrations required
- Out of the Box Content enabled

Enhanced Functionality:

- Enhanced data management
- Intelligent schematics/drawings (E&I)
- Enables Next Gen API based Integration for Internal & 3rd Party Tools
- Enables focus on Next Generation Dabacon

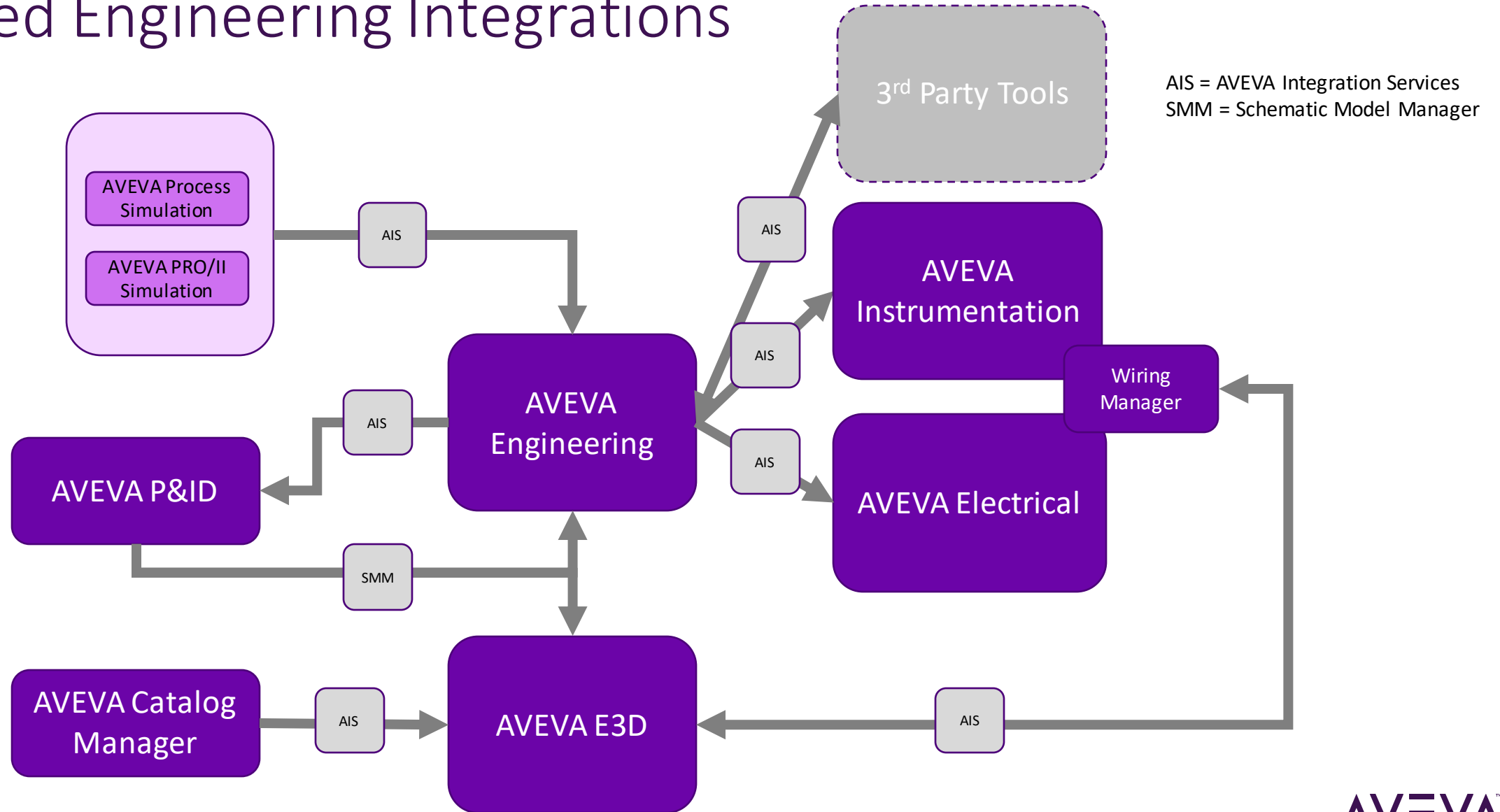
Remove 3rd Party Dependencies:

- Remove AutoCAD (P&ID & E&I) dependency & license requirement
- Remove Visio (Diagrams) dependency & license requirement
- Remove SQL (P&ID & E&I) dependency & license requirement



Unified Engineering Integrations

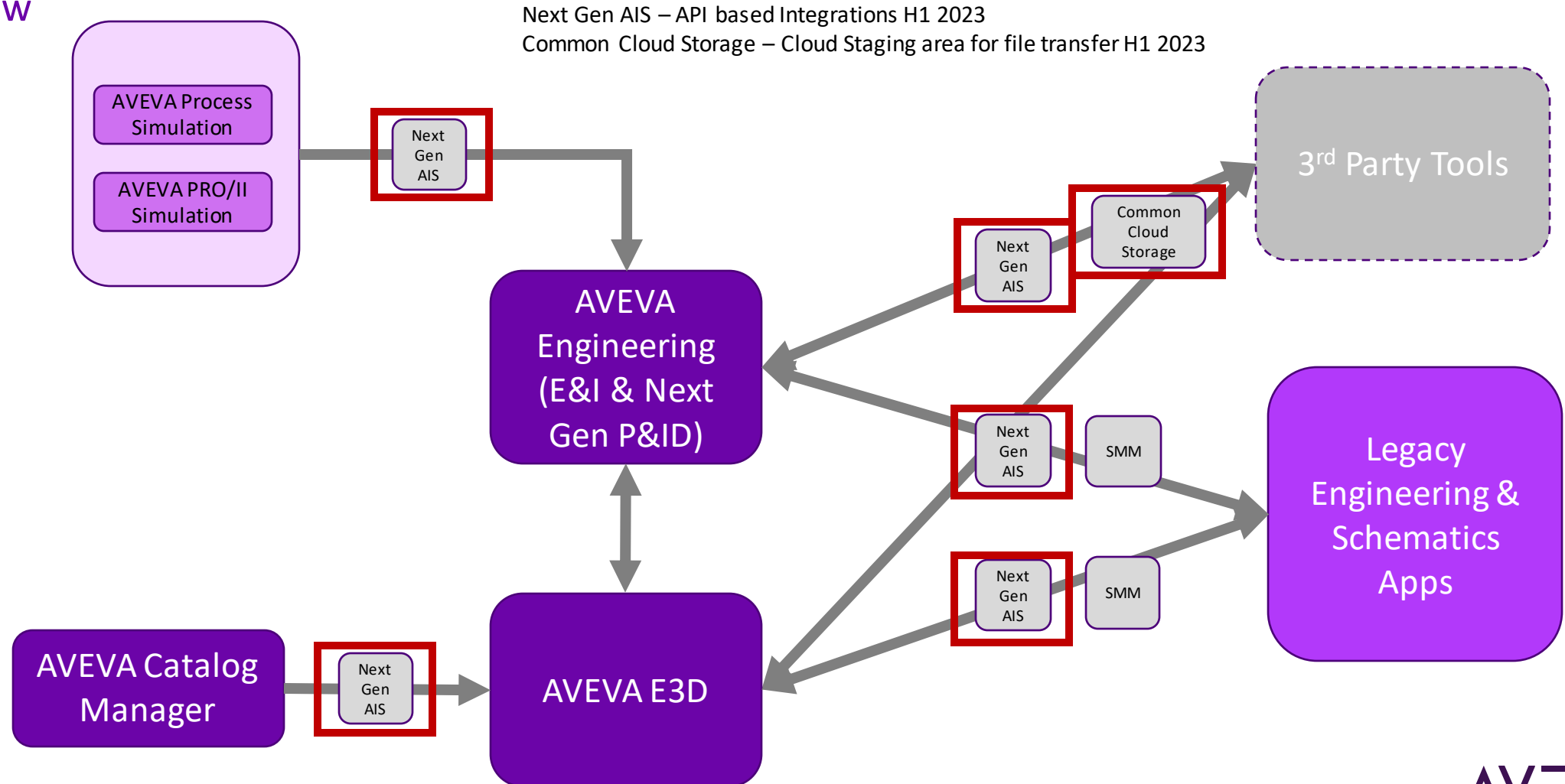
Today



Unified Engineering Integrations

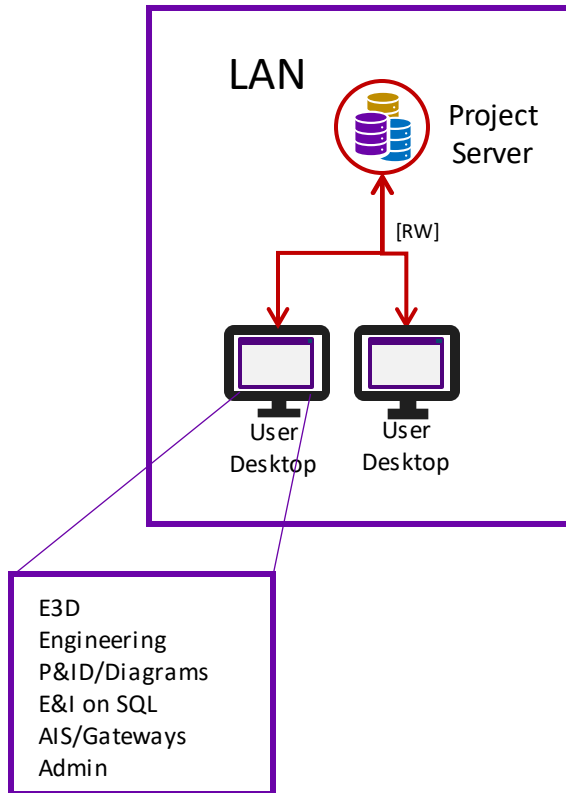
SMM = Schematic Model Manager

Tomorrow

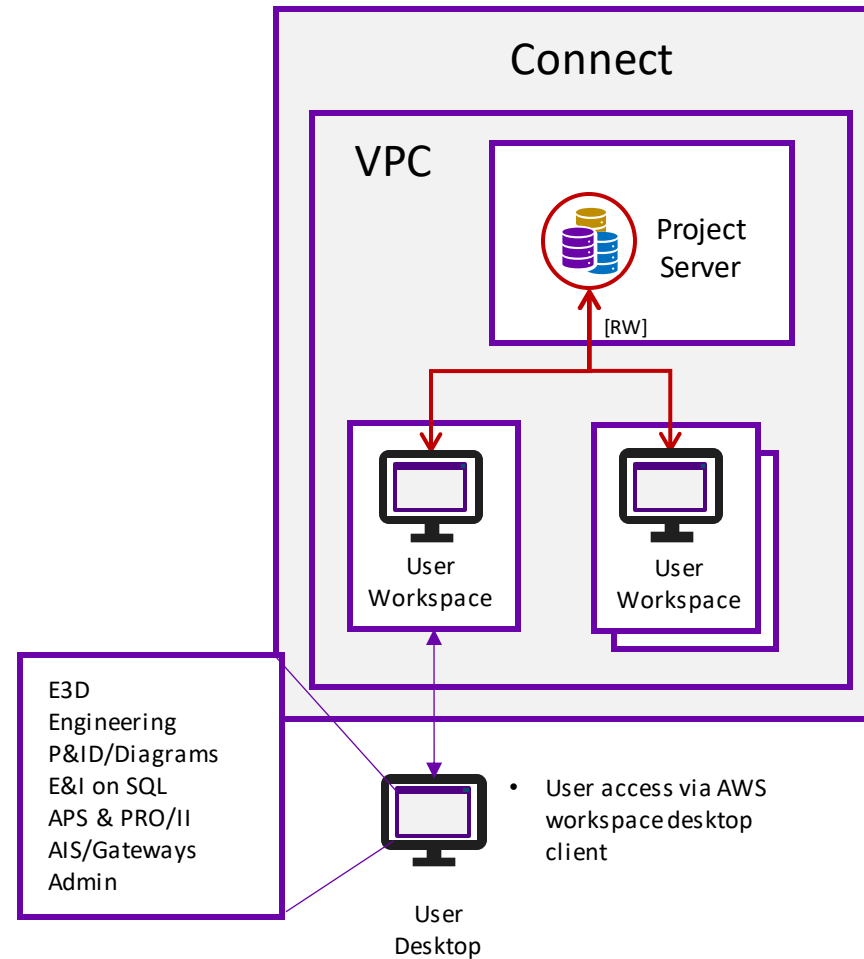


UE delivery options today

UE on Prem

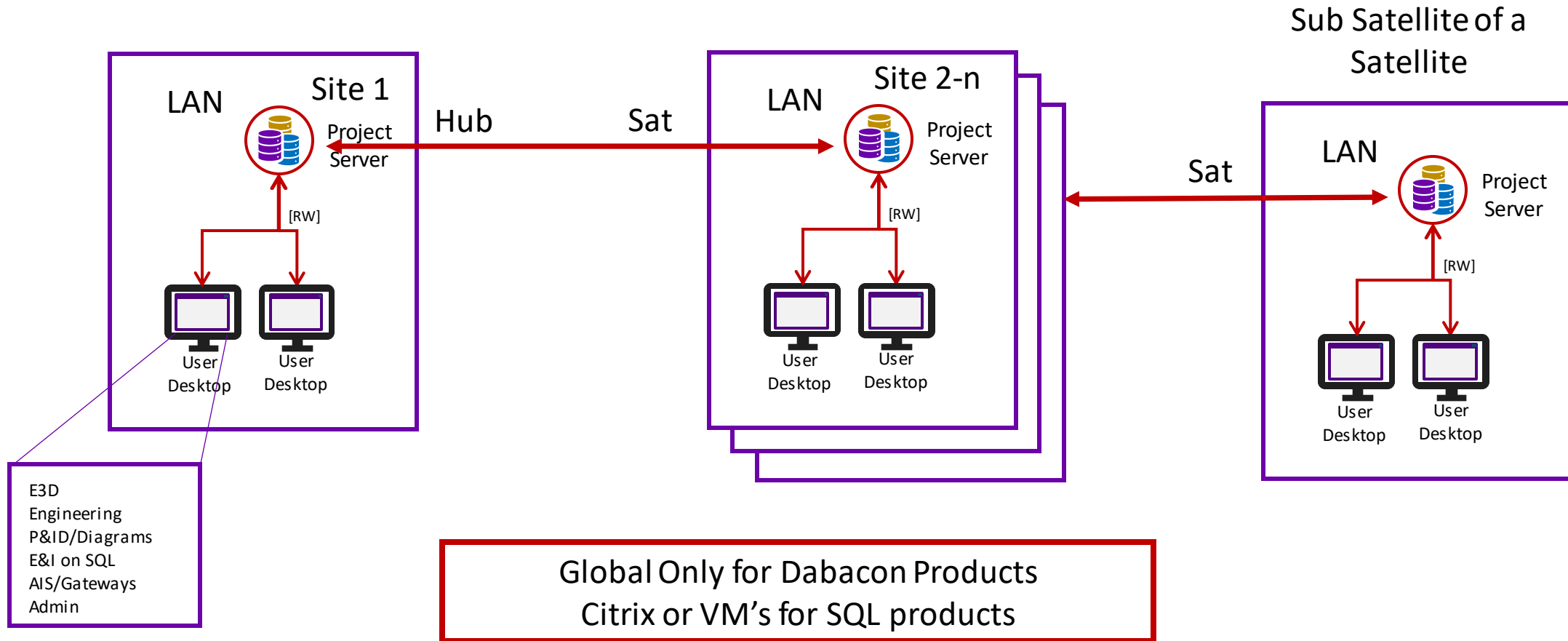


UE on Connect

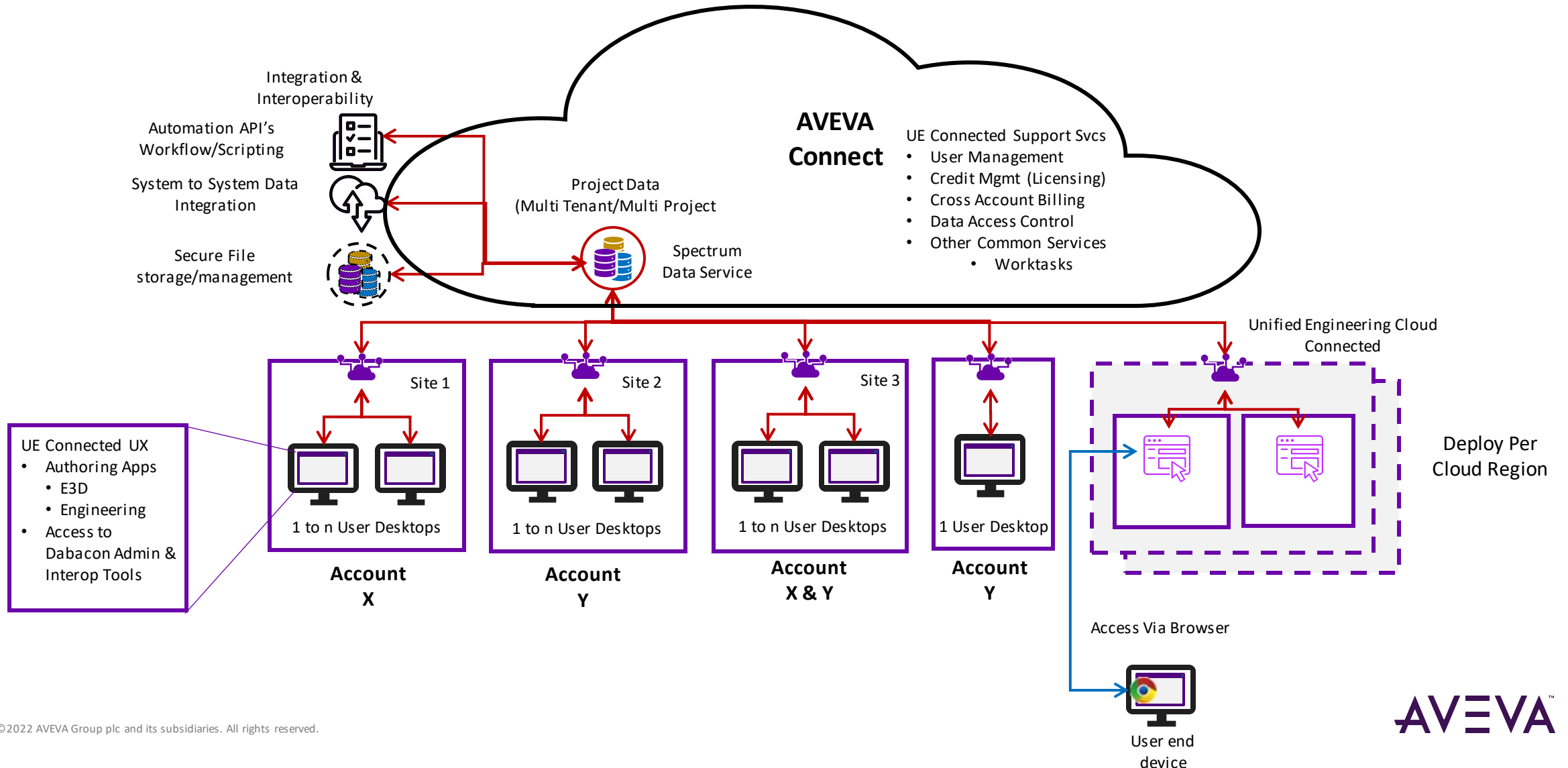
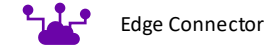


Unified Engineering Multi-Site Capabilities

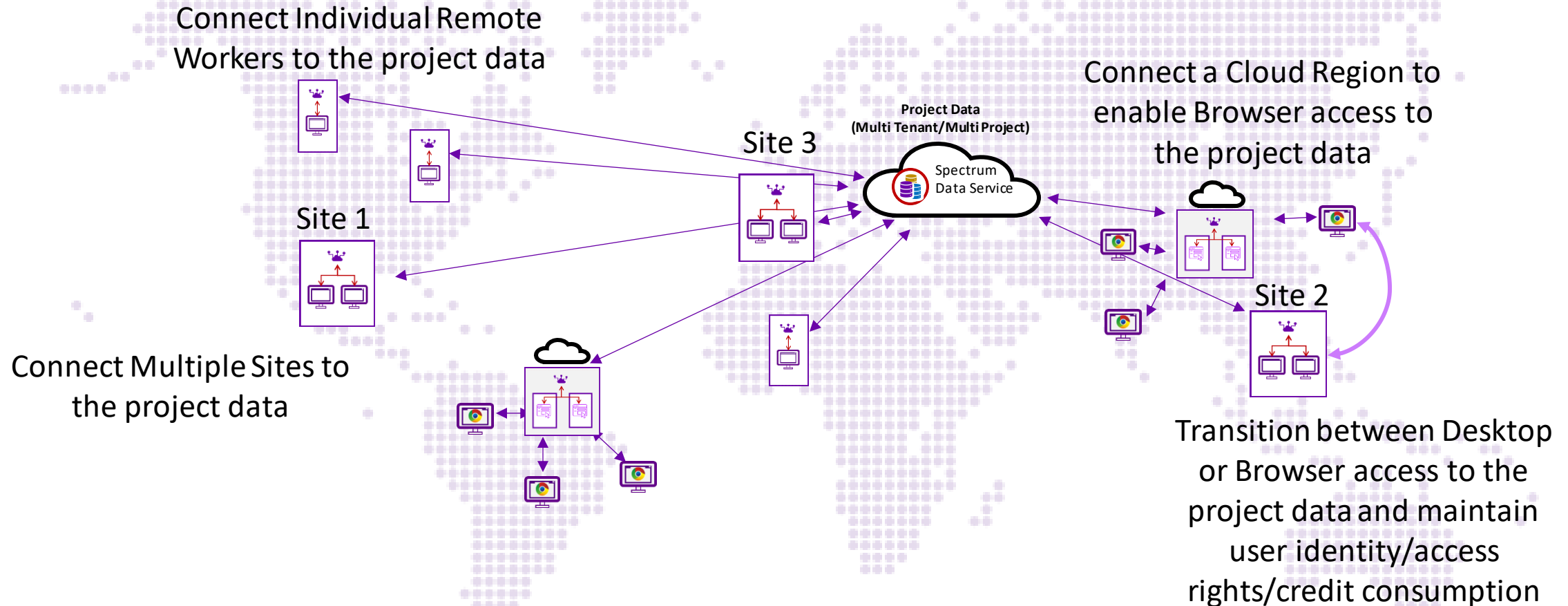
Today (On Prem)



Unified Engineering Tomorrow



AVEVA Unified Engineering “Connected”



Unified Engineering Evolution – ‘Connecting’ On-prem to Cloud

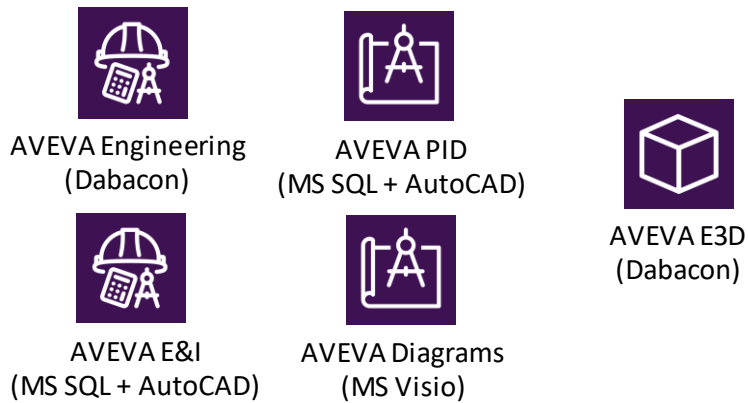
Products



Suite



Hybrid



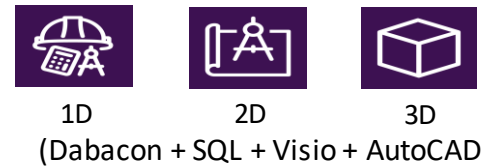
1D

2D

3D

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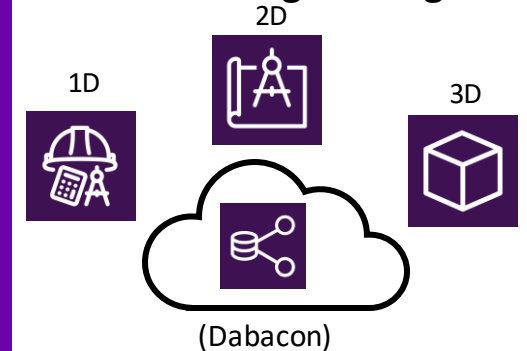
Unified Engineering (a la carte)



UE Cloud (VM)



Unified Engineering

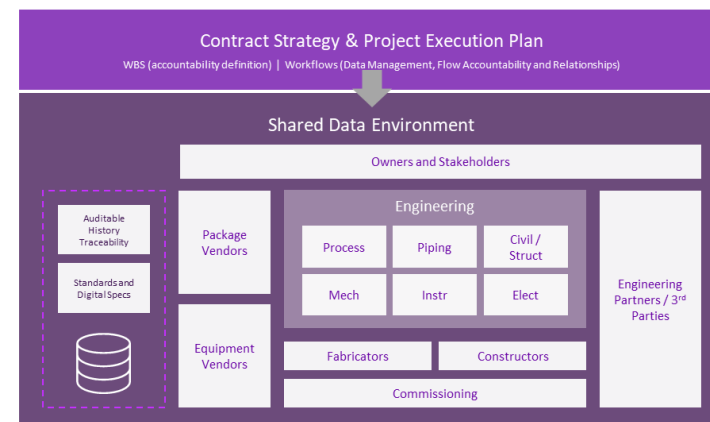
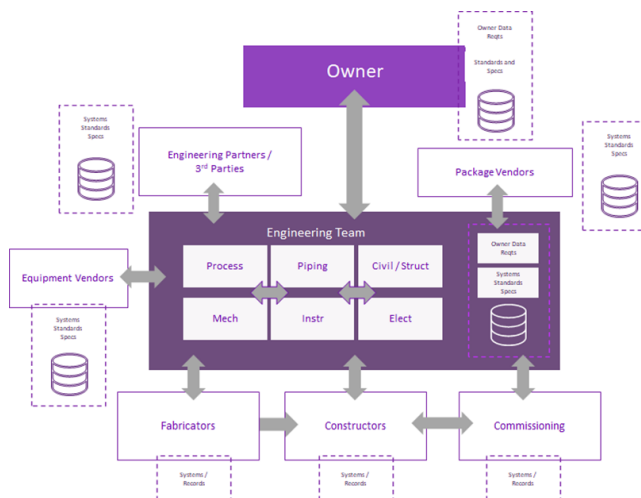


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Summary

Summary

Unified Engineering continues to evolve... bringing a shared data environment to life
With a path from current products to next Gen



Simplified – moving to single technology stacks minimizing costs and enhancing performance

Collaborative – Easy data sharing while meeting IT security and Data Access control demands

Drive Time to Value – Reduced complexity, minimizing time and cost for setup and maintenance

Dynamic – Flexible configurations that can be adjusted as projects, facilities, and businesses mature

Transparent – Align project objectives, across teams, organizations and sites

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 global leader in industrial software, sparking ingenuity to drive responsible use of the world's resources. The company's secure industrial cloud platform and applications enable businesses to harness the power of their information and improve collaboration with customers, suppliers and partners.

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. With operations around the globe, we are headquartered in Cambridge, UK and listed on the London Stock Exchange's FTSE 100.

Learn more at www.aveva.com