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OCT 29, 2024

AVEVA Industrial Intelligence Summit

AVEVA Unified Engineering on Connect

Data Centric Engineering & Design Execution

Presented by: Sam Kharouf (Engineering Design Consultant)

The AVEVA logo is displayed in white, bold, uppercase letters. The letters 'A', 'V', and 'E' are connected to each other, and the 'E' is connected to the 'V'. The 'A' and 'V' are slightly larger than the 'E's.

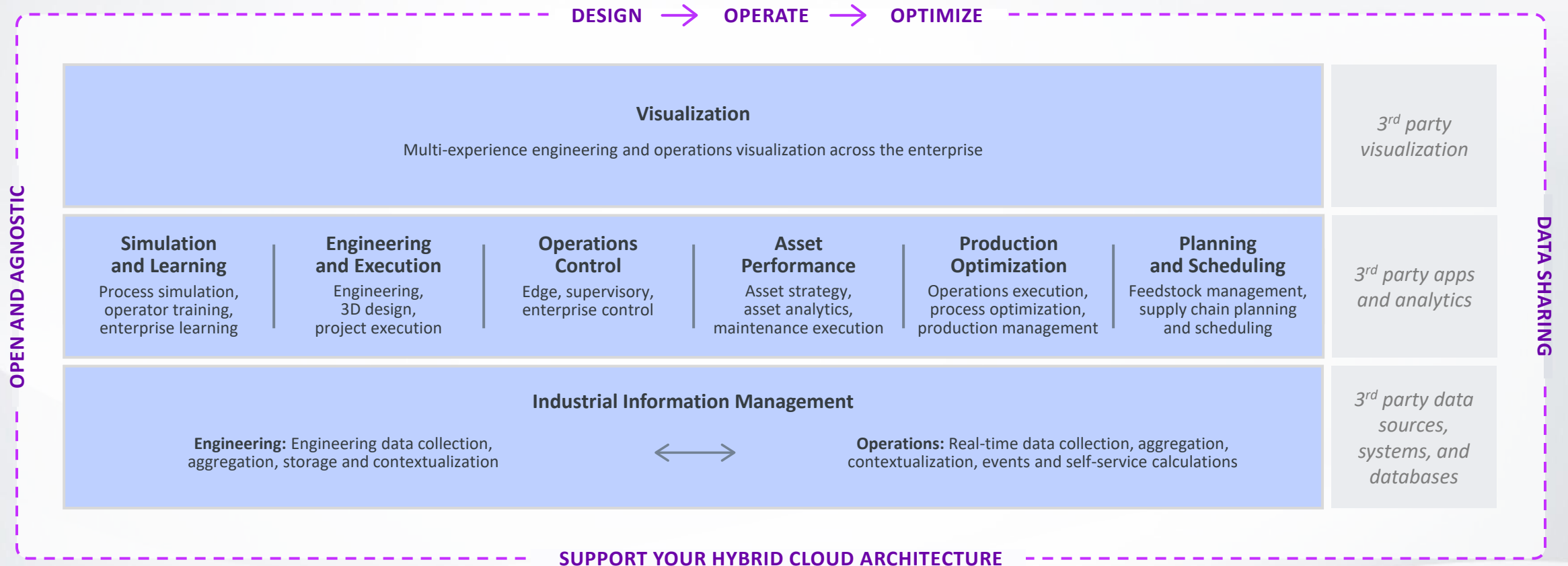
What is CONNECT and What is Unified Engineering?

CONNECT: is the Intelligence Platform for the connected Industrial economy.
It is open and neutral providing rich data insight for unified industrial ecosystem

Unified Engineering: Applications and analytics
It is the foundation for capital project excellence
Accelerate new value creation for AVEVA customers

Delivering a complete digital thread, purpose-built for industry

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



Industry & market pressures

90%



Improve team performance

90% of surveyed business leaders believe that using technology to improve work outcomes and team performance is very important.¹

45%



Data management

Tech industry leaders see collecting and protecting ever-larger volumes of data as one of the biggest major barriers to their data management goals.²

77%



Higher investments in technology

77% of the Architecture Engineering and Construction companies wanted to invest in technology at similar or higher levels in 2024.³

\$15M



Poor data quality

Organizations believe poor data quality to be responsible for an average of \$15 million per year in losses.⁴

Sources: 1. [Deloitte](#) 2. [Deloitte](#) 3. [Deloitte](#) 4. [Forbes](#)

Required Capabilities



Simulation

Process simulation

3D asset visualization

50% faster feed Stage



Collaboration

Change tracking

Connected disciplines

20% reduction in project schedule



Sustainability

Reusable data

Digital workflows

>5% total installed cost savings in design phase alone



Engineering and design

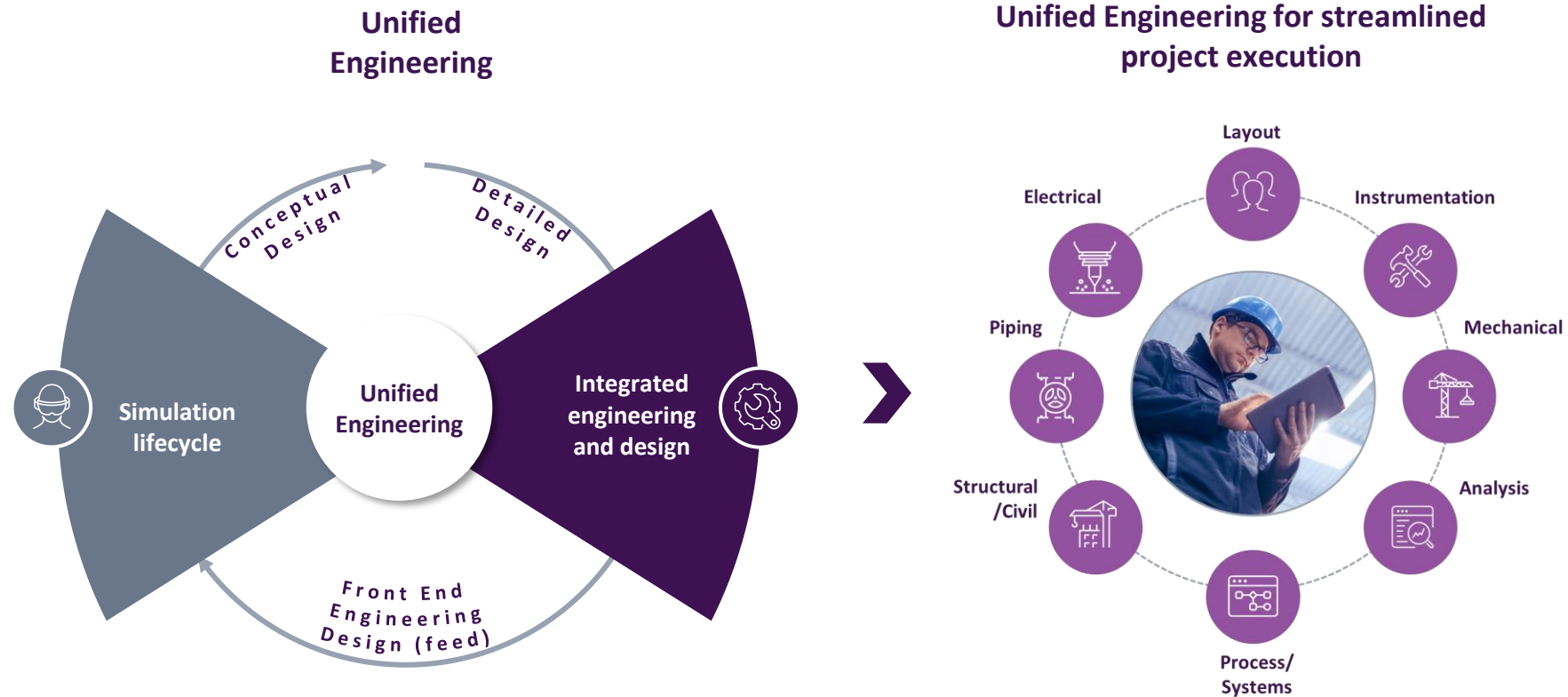
Integrated systems

Intelligent design

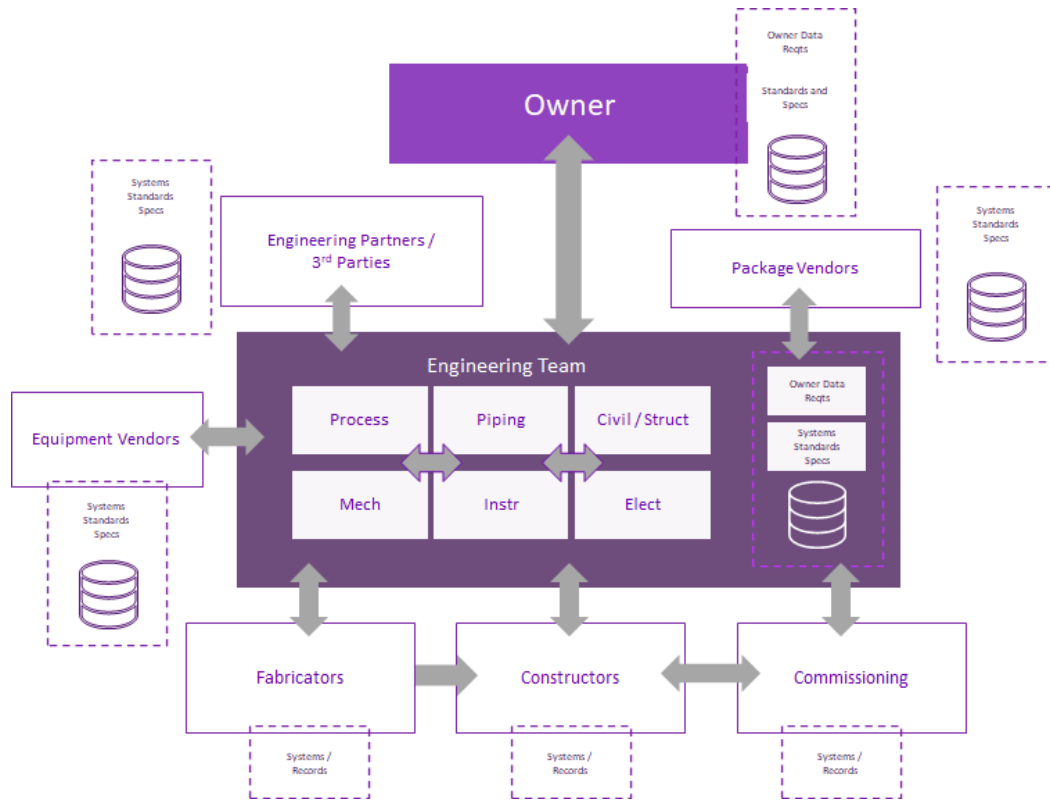
50% increased engineering efficiency

Unified Engineering on CONNECT

Unified Engineering on CONNECT as the foundation for capital project excellence

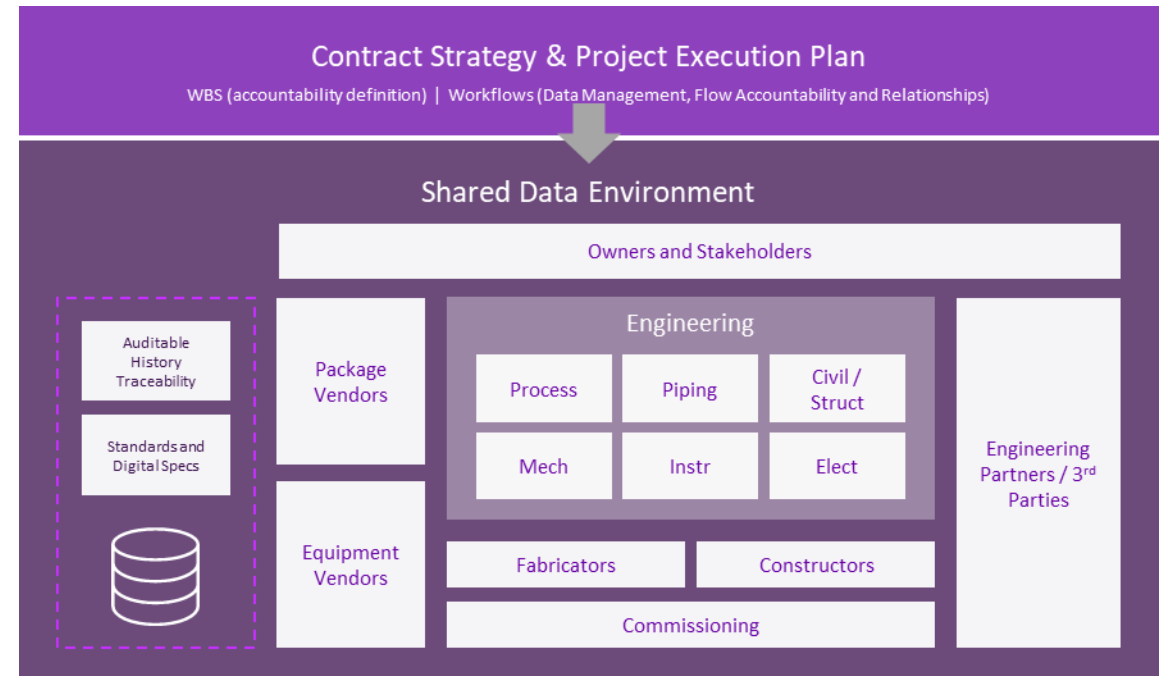
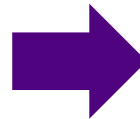


Defining EPC 4.0



EPC 3.0

Disconnected Systems, Teams and Project Data

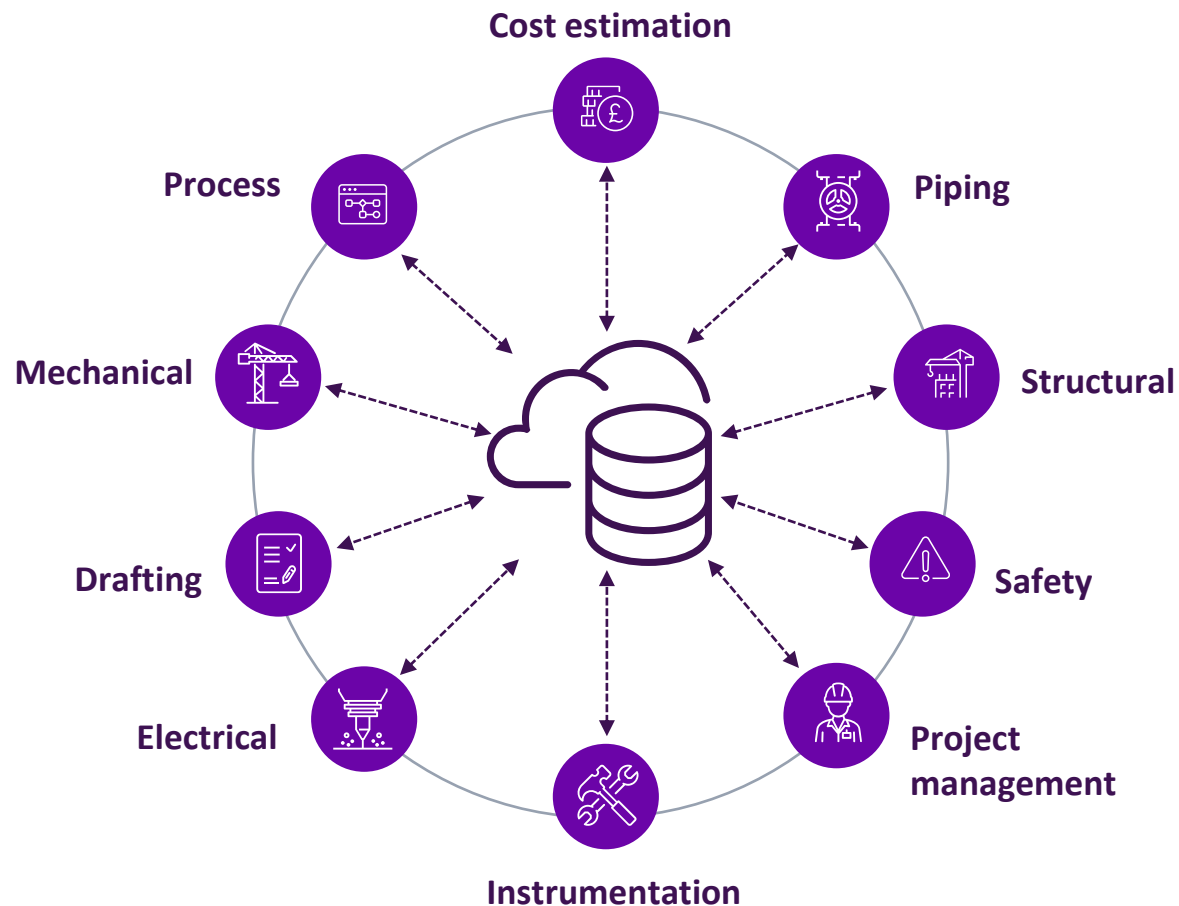


EPC 4.0

'Connected' Systems, Teams and Project Data

Engineering excellence enabled through cloud migration

Unified Engineering in the cloud environment allows for multi-discipline teams to collaborate across 1D, 2D and 3D from a data-centric location and the single source of true

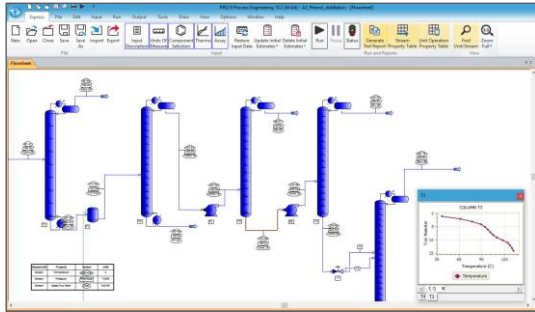


- Accelerate time to project start-up
- Communicate and collaborate effectively
- Share information seamlessly
- Quickly and easily find the right data
- View and validate changes in real-time

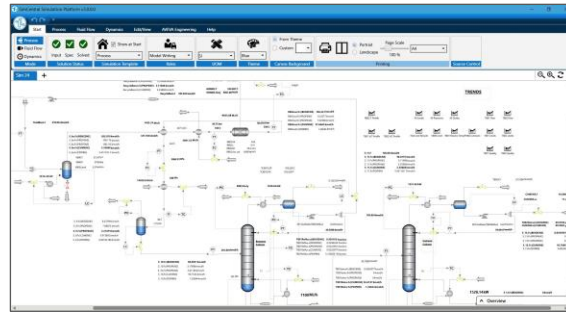
Unified Engineering on Connect

Key Solutions available on Connect

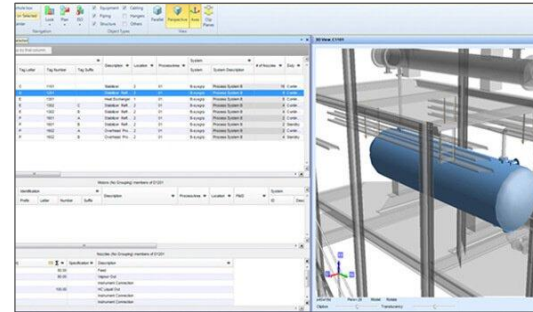
AVEVA PRO/II Process Engineering



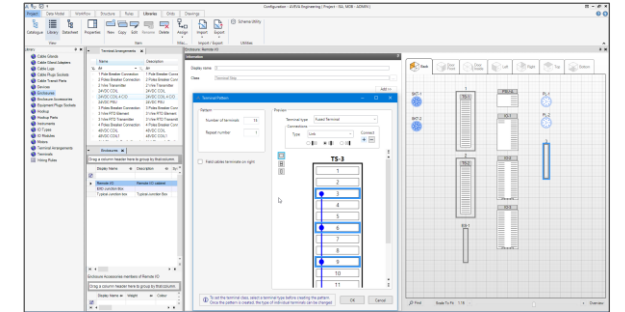
AVEVA Process Simulation



AVEVA Engineering



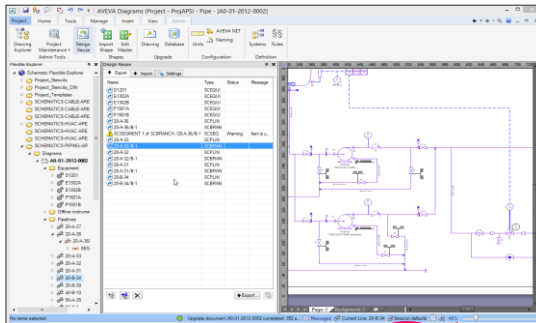
AVEVA Electrical and Instrumentation



CONCEPTUAL DESIGN/PROCESS SIMULATION

FRONT END ENGINEERING DESIGN (FEED)

AVEVA P&ID



AVEVA E3D Design

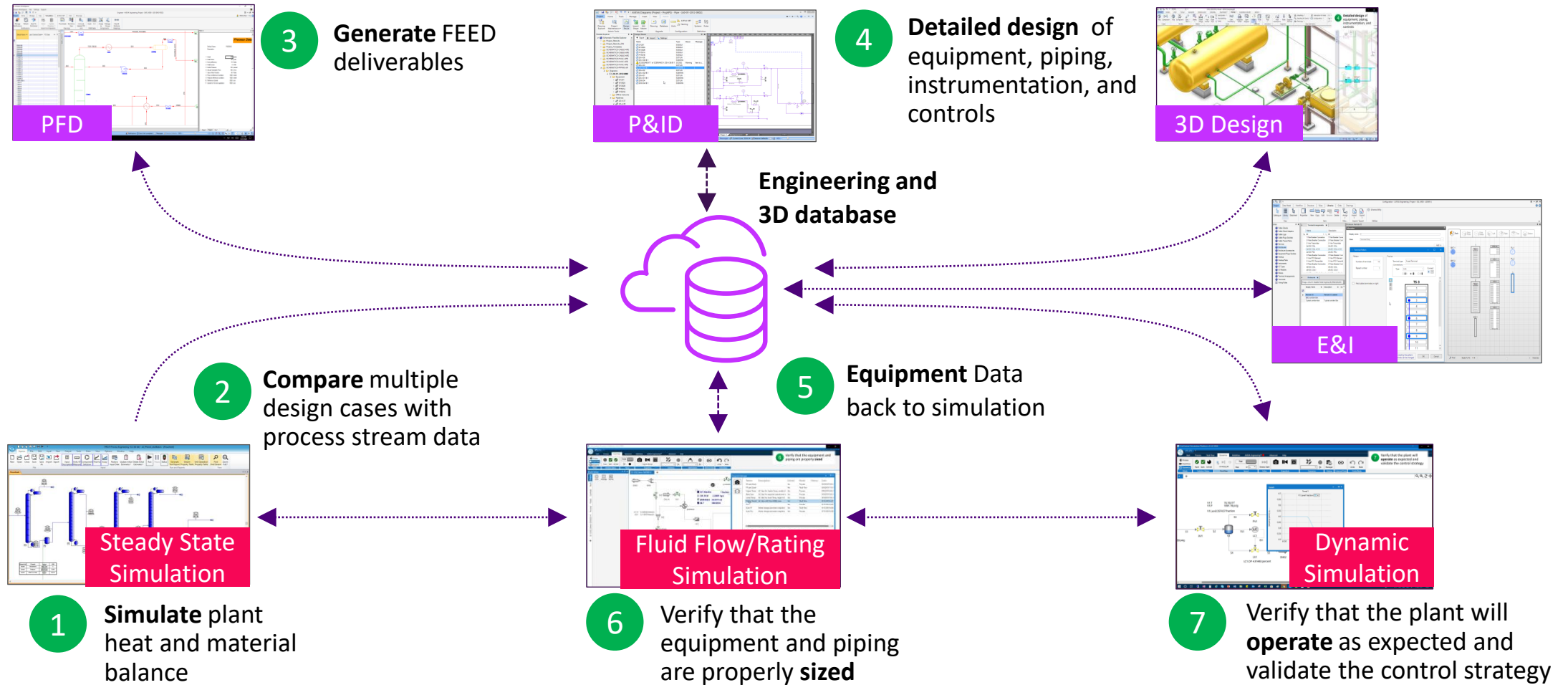


FEED cont'd

DETAILED DESIGN

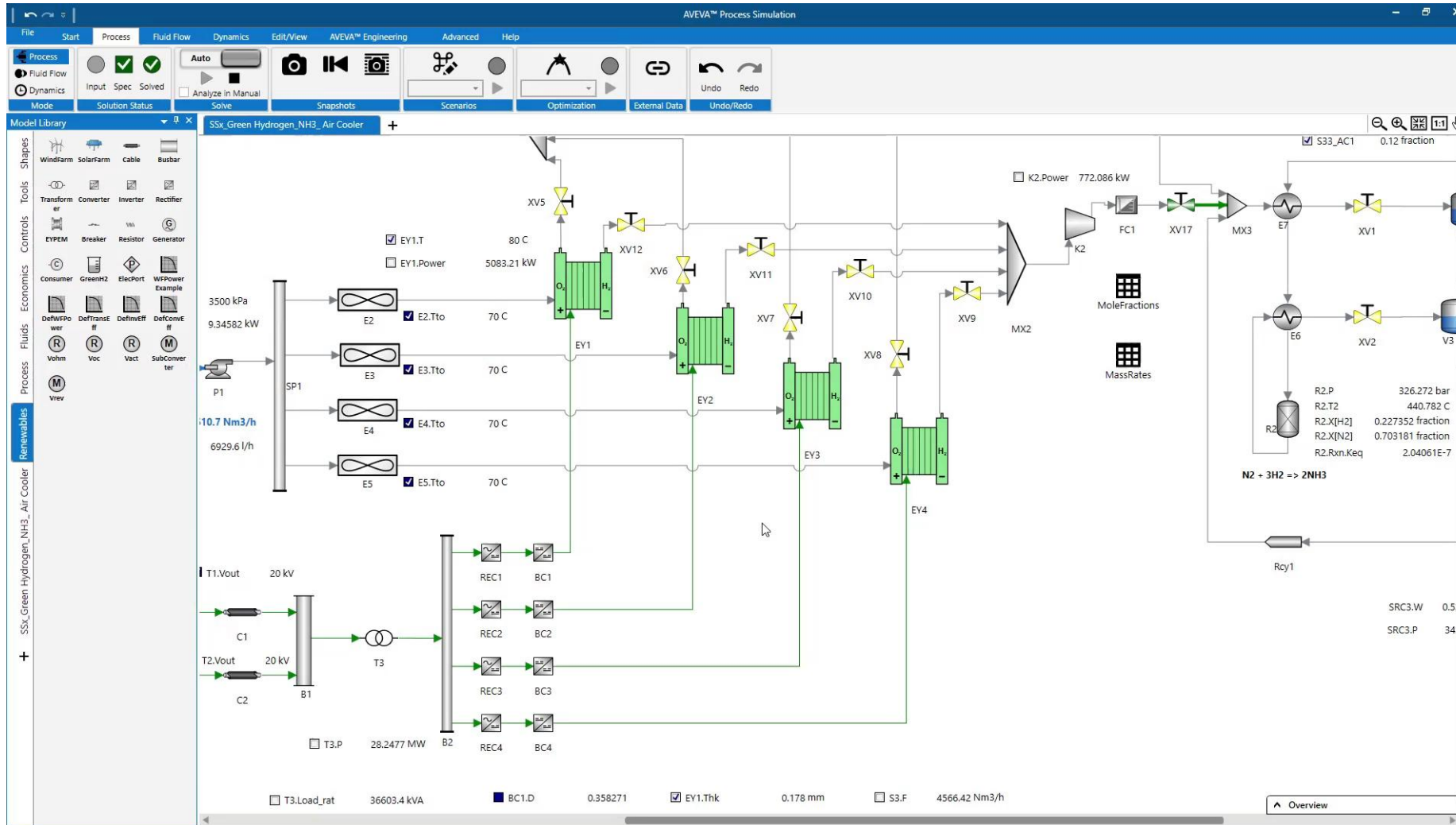
Unified Engineering on Connect

The physical asset + process behavior side of your Digital Engineering



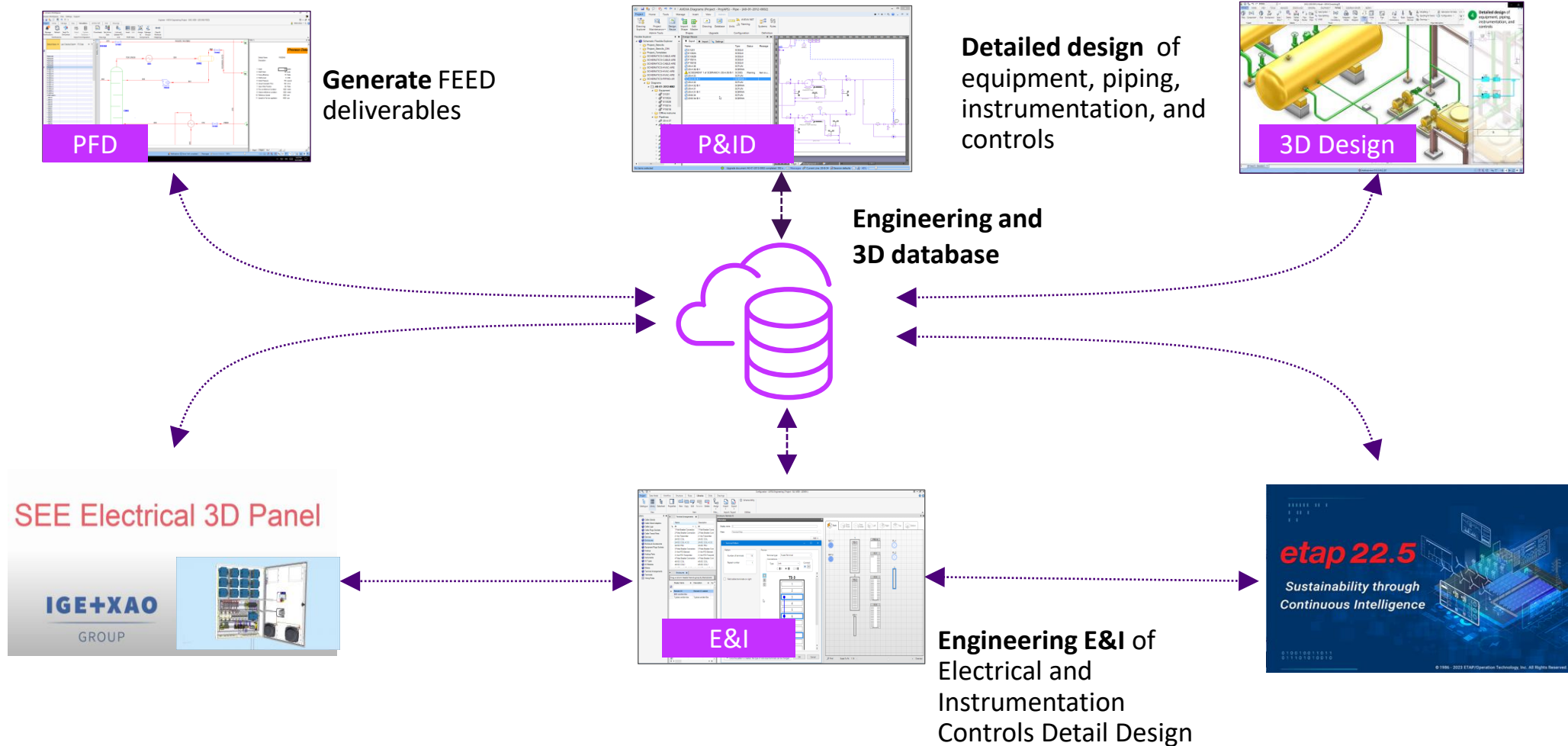
Simulation changes made for Rating and Dynamics are automatically included in process simulation

Process Simulation and AVEVA Engineering Integration



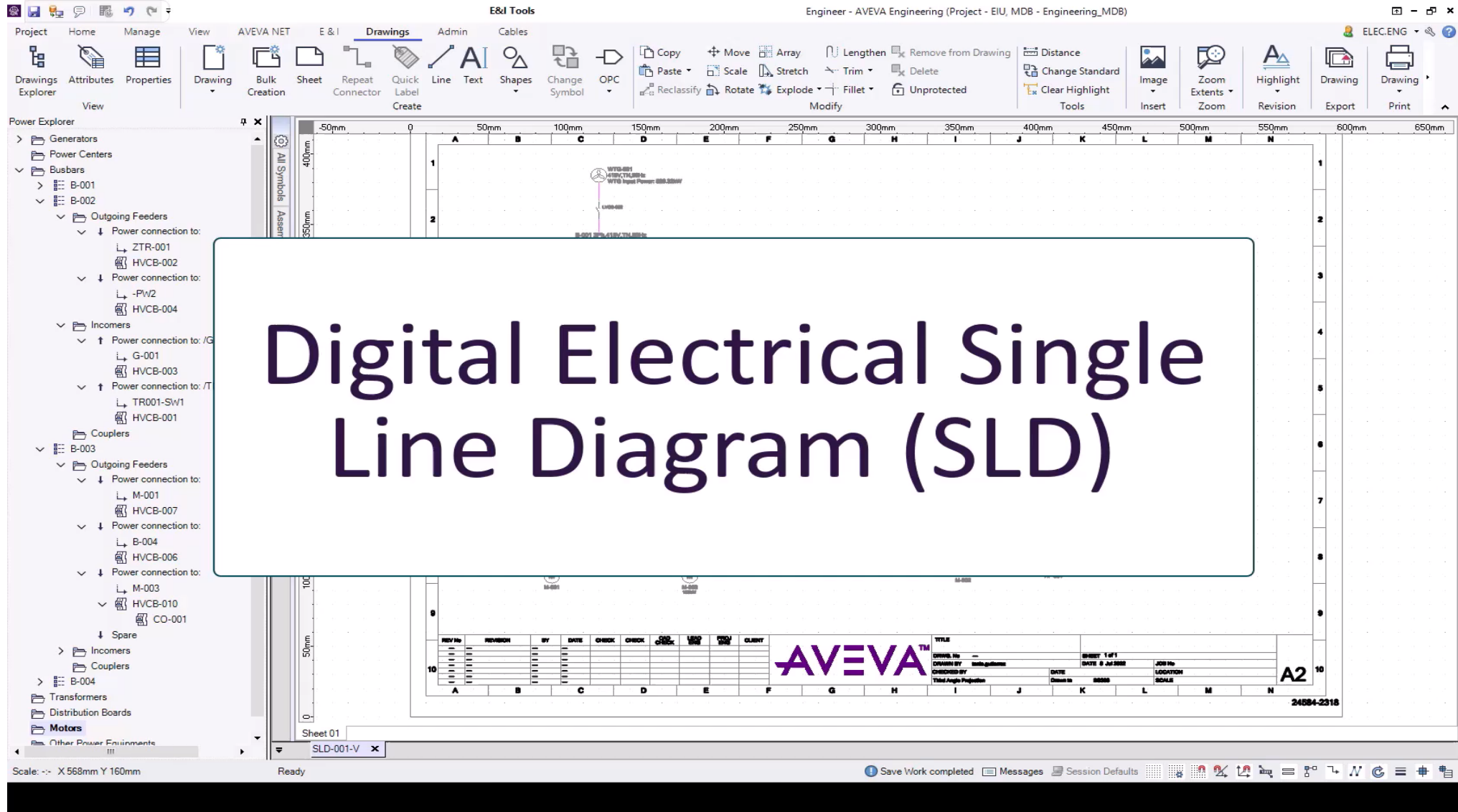
Unified Engineering

The physical asset + Electrical/Instrumentation behavior side of your Digital Engineering



Electrical Integration

ETAP Engineering E&I Integration



A Unique Approach to Drive Results

Instant access to actionable information

From This...

- Document centric approach
- Unconnected data, trapped in silos
- Lack of standardization generating inconsistencies leading to error
- Limited data storage and computing capacity
- Outdated software versions, challenging software compliance

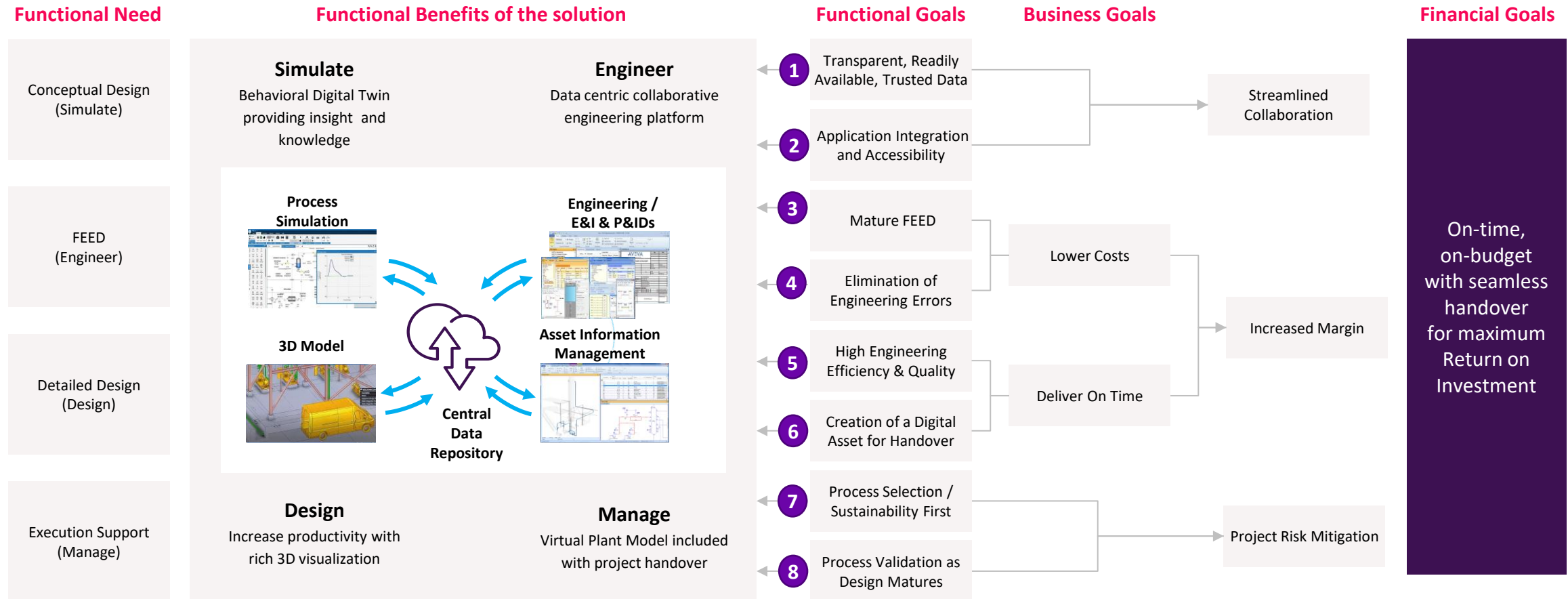


...To This

- Data centric approach
- Single platform allowing access to data in context within minutes through an open and agnostic SaaS system
- Standards driven, compliant with regulation and sustainability requirements
- Fully scalable cloud offering at speed
- Fully vendor-managed installs, maintenance and standard upgrades as new functionality comes available

Unified Engineering on Connect

Addressing the broadest challenges in engineering



Our proven success



Simulation

15% reduction in simulation and detailed design man-hours

promon
engenharia



Collaboration

Integrated engineering and execution data enabled Wood's teams to **collaborate better**

wood.



Sustainability

3% reduction in TIC and 30% reduction in engineering and design costs within 1 year

EASTMAN



Engineering and design

10-15% reduction in FEED man-hours

Vista
Projects

Open Discussion - Question

This presentation may include predictions, estimates, intentions, beliefs and other statements that are or may be construed as being forward-looking. While these forward-looking statements represent our current judgment on what the future holds, they are subject to risks and uncertainties that could result in actual outcomes differing materially from those projected in these statements. No statement contained herein constitutes a commitment by AVEVA to perform any particular action or to deliver any particular product or product features. Readers are cautioned not to place undue reliance on these forward-looking statements, which reflect our opinions only as of the date of this presentation.

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