

NOVEMBER 2022

From Concept to Handover

A full edge-to-edge demonstration of AVEVA's Engineering capabilities

Julien de Beer - AVEVA

Mary Fernandez - AVEVA

Juan Reis - AVEVA

Dan Stephenson - AVEVA

Maged Selim - AVEVA

AVEVA

Typical Project Breakdown

Mega Projects

(Rice Global E&C Forum 2017)

- **98% of Projects run over budget**
- Average cost increase is 80% over original quoted value
- Average schedule delay = 20 mos.

Cost of Rework 5.4% of total construction cost

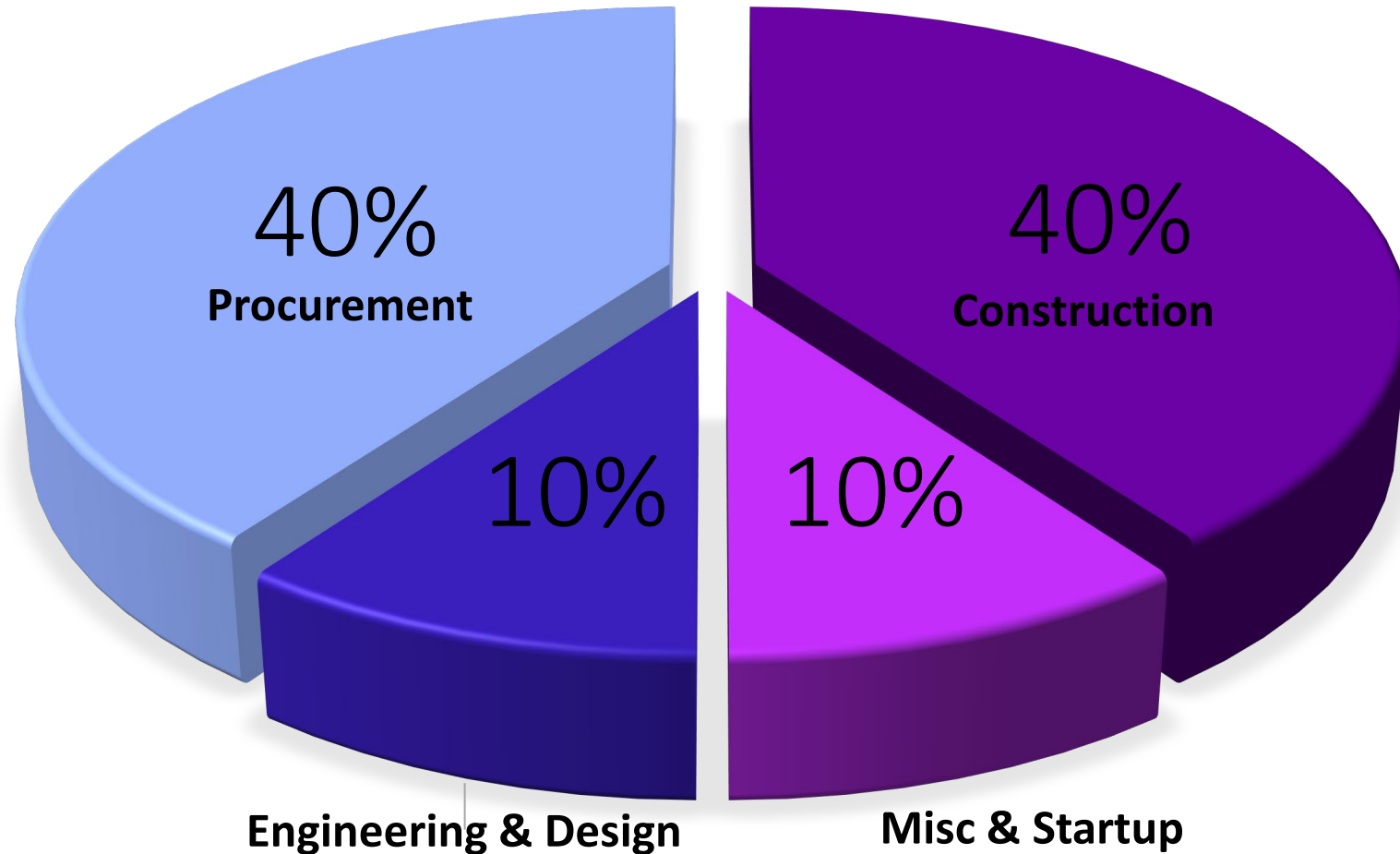
Leading cause = Design Errors/
Omissions! (Hwang et al. 2009)

Cost of Engineering Errors

(Love et al. 2014)

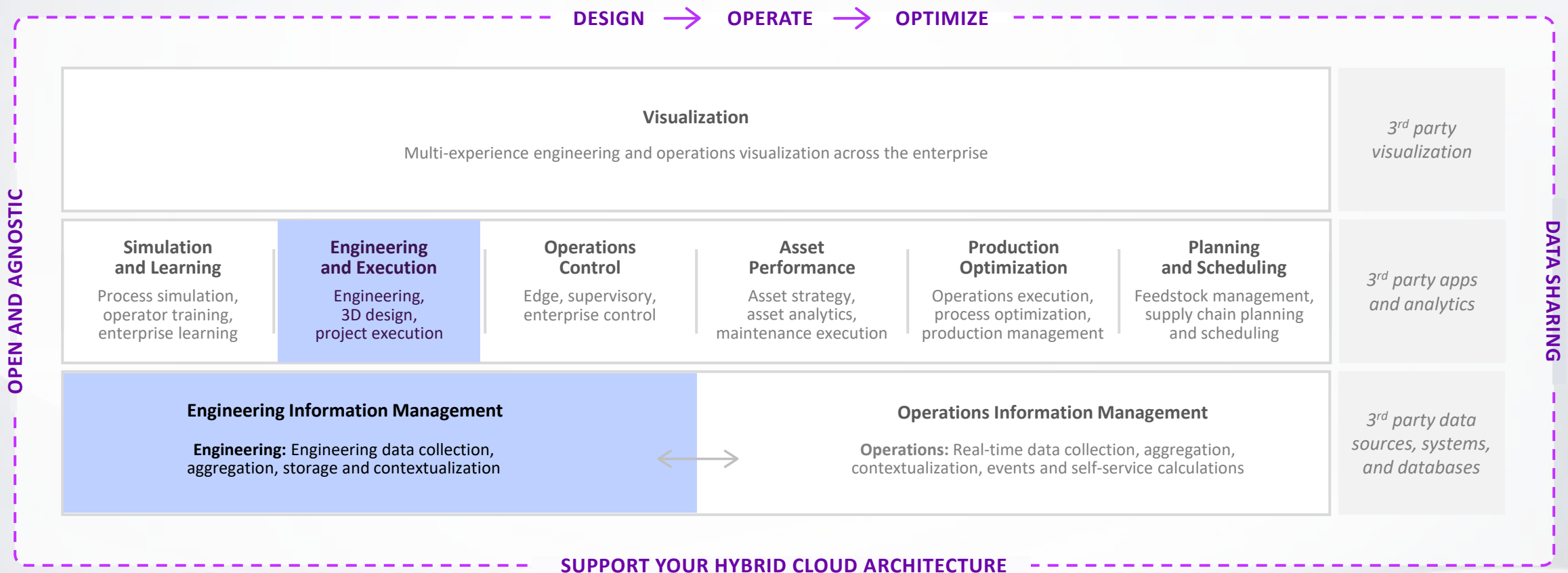
14.2% of Contract Value

Direct & Indirect



Delivering a complete digital thread, purpose-built for industry

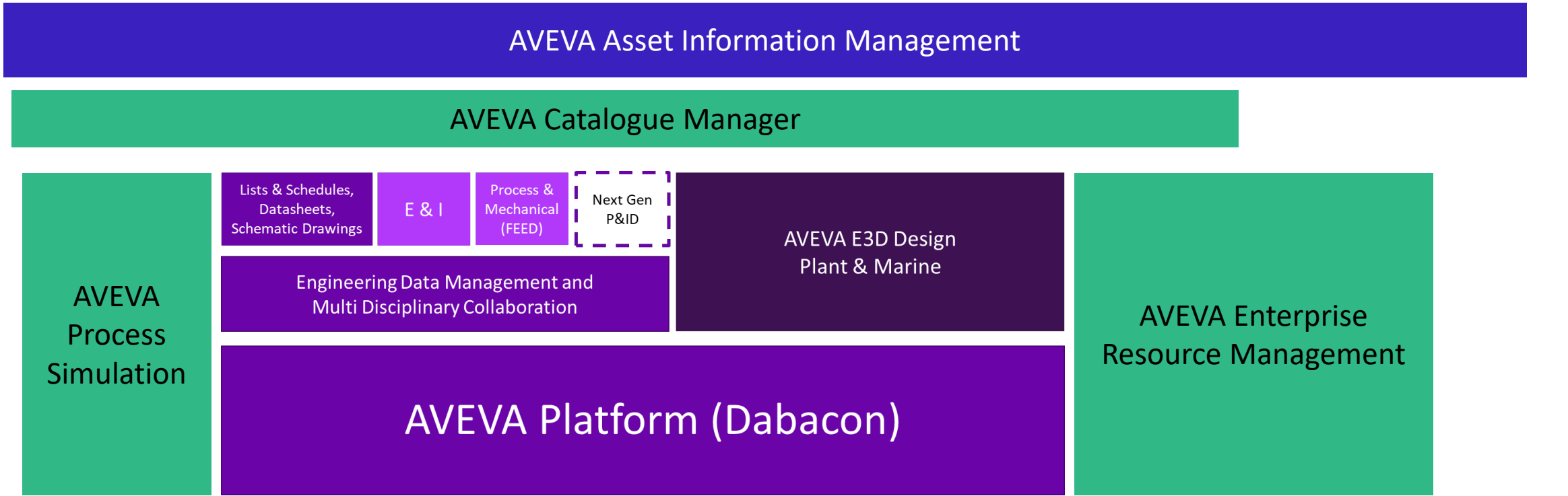
Accelerate time to value with flexible, scalable, and trusted industrial hybrid SaaS solutions



10%+ TIC savings

Scope of End-to-End Demonstration

Project execution timeline



Session 1 (45min)

FEED + Detail Design

- 5' Introduction
- 30' Demo
 - AVEVA Asset Information Management
 - AVEVA Process Simulation
 - AVEVA Engineering
 - AVEVA Diagrams
 - AVEVA E3D Design
- 10' Q&A



Session 2 (45min)

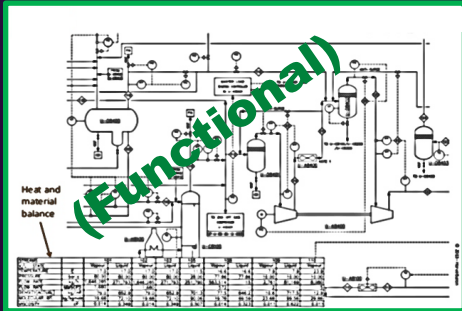
Detail Design + Execution

- 5' Introduction + recap of Session 1
- 30' Demo
 - AVEVA Engineering
 - AVEVA Enterprise Resource Management
 - AVEVA Enterprise Resource Management Mobility App
 - AVEVA Asset Information Management
- 10' Q&A

Capturing the Evolution & Change

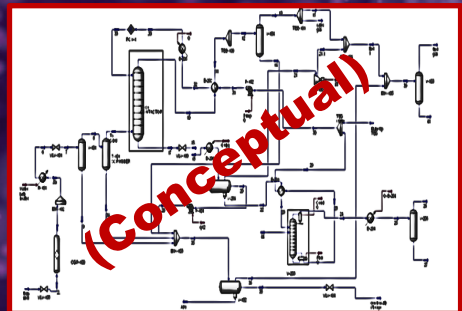
Conceptual (BFD) → Functional (PFD) → Pseudo-Physical (P&ID) → Physical (3D)

Process Flow Diagram

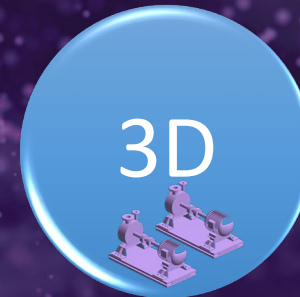


Component flows, compositions,
T&P For multiple cases

Unit Operation Diagram (Simulation)

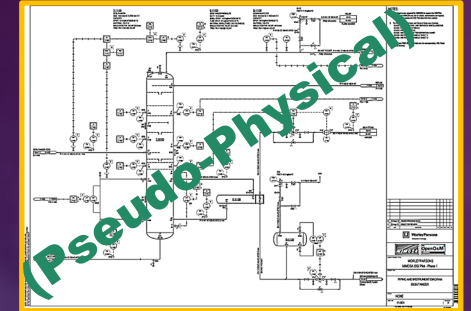


Temp 90 °C to 120 °C
Ball to Globe Valve



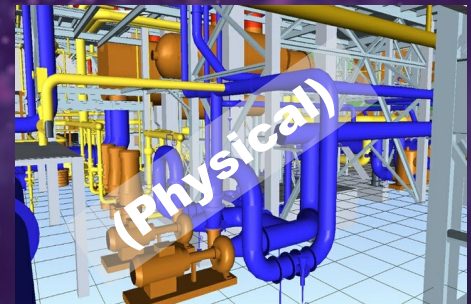
Summed Flowrates, Corrosion,
Heat & Pressure

P&IDs



ΔP Calcs Pipe/Wire \varnothing & True
Length, bends & components
based on Cats & Specs

3D



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!

AVEVA WORLD

From Concept to Handover

Part 2

A full edge-to-edge demonstration of AVEVA's Engineering capabilities

Presented By: Dan Stephenson & Mary Fernandez

AVEVA



Dan Stephenson

Sr. Technical Consultant

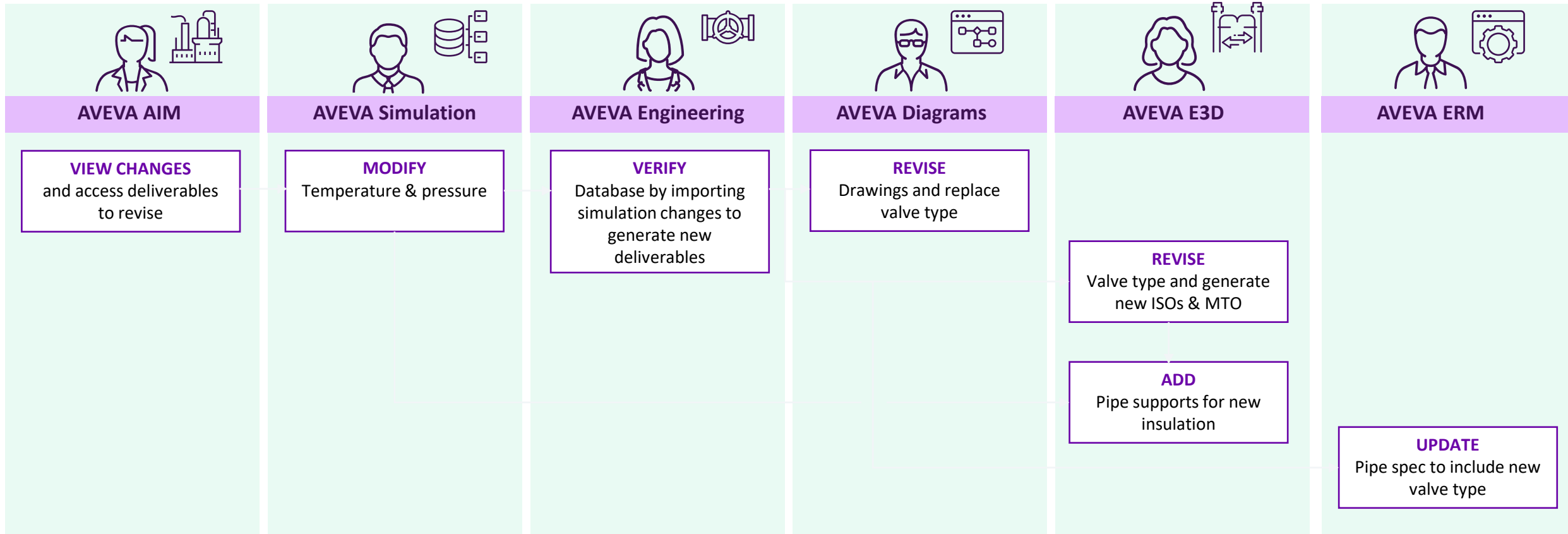
- Dan.stephenson@aveva.com

Mary Fernandez

Technical Consultant

- Mary.fernandez@aveva.com

Session One Summary



Full project visibility



Consistent design quality



A single source of truth



Bi-directional connectivity

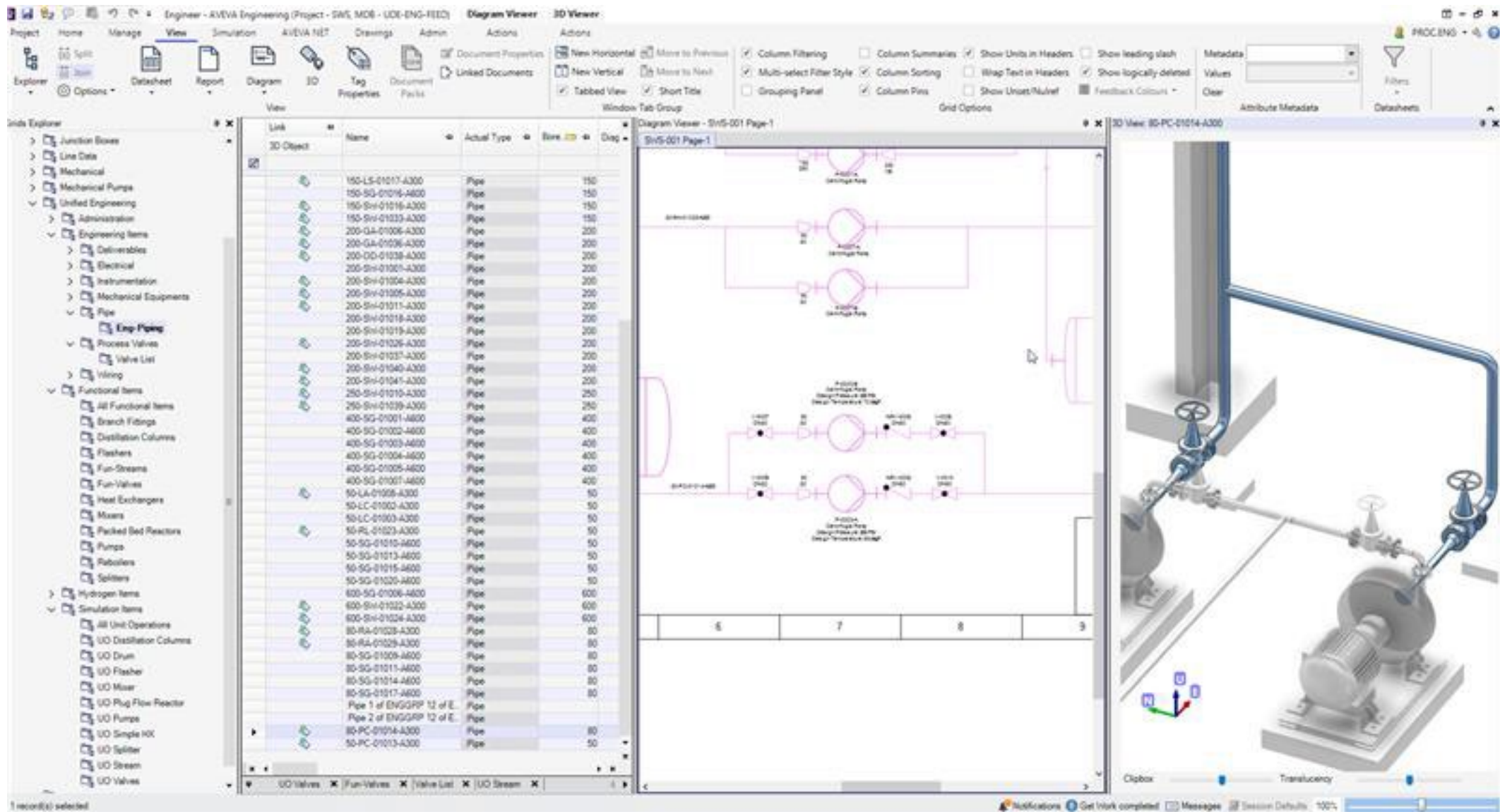


Easy integration between tools

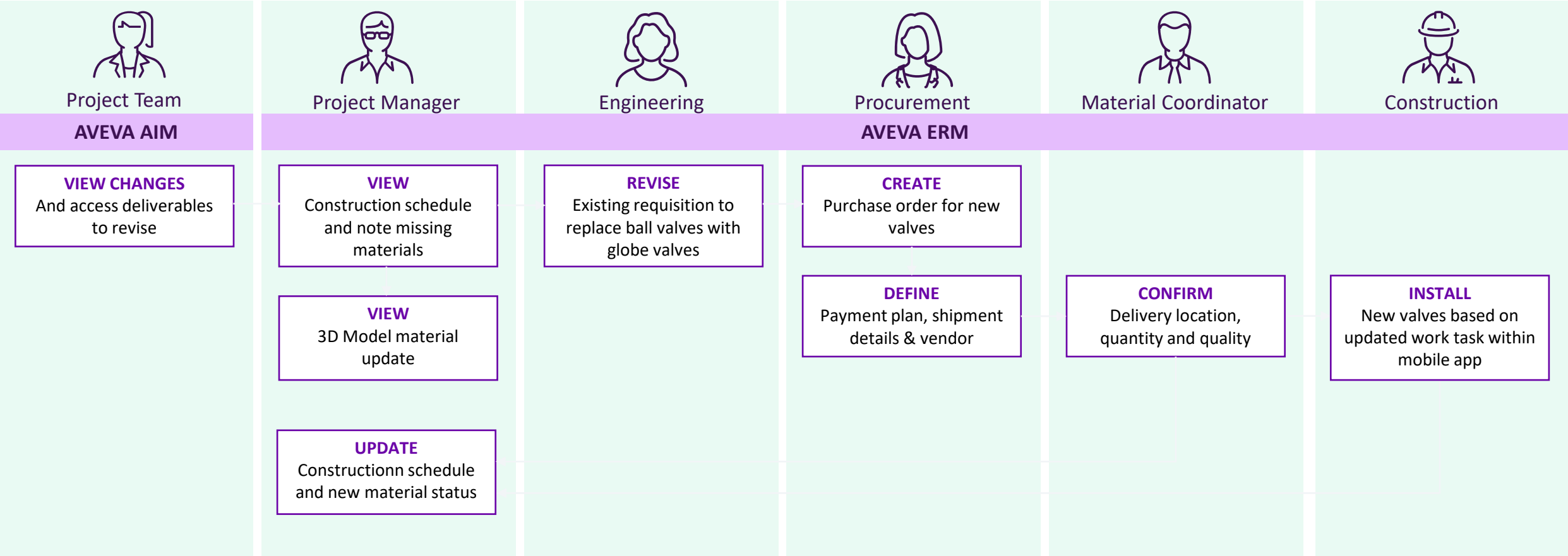


Iteration management

AVEVA



Session Two Summary



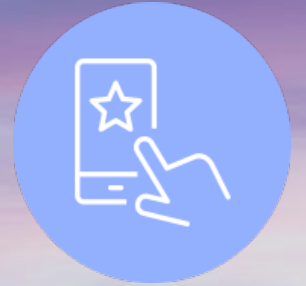
Questions?

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!

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.

The Company shall not be obliged to disclose any revision to these forward-looking statements to reflect events or circumstances occurring after the date on which they are made or to reflect the occurrence of future events.

 [linkedin.com/company/aveva](https://www.linkedin.com/company/aveva)

 [@avevagroup](https://twitter.com/avevagroup)

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