European Advisory Group Meeting

DAY 2

Julien de Beer – Head of Portfolio Management – Engineering Business Unit

Wednesday 22 July 2020

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EUROPEAN ADVISORY GROUP

Agenda

DAY 2

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01 European Advisory Group Agenda

02 Unified Engineering

AVEVA™

Agenda for Advisory Group meeting, Tue July 21 - Fri July 24

Date	Time (CET)	Duration	Agenda	Products
Tuesday July 21st	15h00-17h00	2 hours: 1h presentation + 1h discussion	**General topics** - Welcome and introduction **AVEVA Innovations:** - Import Intelligent P&IDs into simulation - AI & simulation - Link with ModeFrontier (by ESTECO) - Cloud Initiatives - Partner Initiatives (e.g. HTRI)	
	17h00-18h00	1 hour [OPTIONAL]	**Team building** remote event [to be decided]	n/a
Wednesday July 22nd	15h00-18h00	3 hours: 0.5h presentation + 1.5h users feedbacks / requests + 1h discussion	**AVEVA Unified Engineering** - Cloud unified engineering - Process Design - Utilities, Flare and Safety	AVEVA PRO/II Simulation AVEVA Process Simulation AVEVA Dynamic Simulation AVEVA Unified Engineering VISUAL FLARE Safety Relief Design
Thursday July 23rd	15h00-18h00	3 hours: 1.0h presentation + 1.0h users feedbacks / requests + 1h discussion	**AVEVA Unified Learning** - Learn (eLearning, Process Competency) - Practice (OTS and XR) - Assess (LMS) - Reinforce (AI infused microlearning)	AVEVA Dynamic Simulation AVEVA Process Competency Training AVEVA Operator Training Simulator AVEVA Pipeline Training Simulator AVEVA XR for Training
Friday July 24th	10h00-12h00	2 hours: 0.5h presentation + 1h users feedbacks / requests + 0.5h discussion	**AVEVA Thermodynamic**	AVEVA Thermodynamic

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Agenda – DAY 2

General topics	Type	Time			Duration (min)
Welcome and introduction	Presentation (Julien)	00:00	-	00:05	5
	Q&A/Discussion	00:05	-	00:05	0
AVEVA Unified Engineering + Cloud	Presentation (Julien)	00:05	-	00:15	10
	Q&A/Discussion	00:15	-	00:20	5
AVEVA PRO/II Simulation Roadmap and Key Features Coming up	Presentation (John)	00:20	-	00:30	10
	Q&A/Discussion	00:30	-	01:10	40
Break		01:10	-	01:20	10
AVEVA Process Simulation	Presentation (Cal)	01:20	-	01:30	10
	Q&A/Discussion	01:30	-	02:10	40
FlexProcess	Presentation (Ben Firth)	02:10	-	02:25	15
	Discussion	02:25	-	02:30	5
Break		02:30	-	02:40	10
VISUAL FLARE Safety Relief Design	Presentation (Cal)	02:40	-	02:50	10
	Q&A/Discussion	02:50	-	03:00	10

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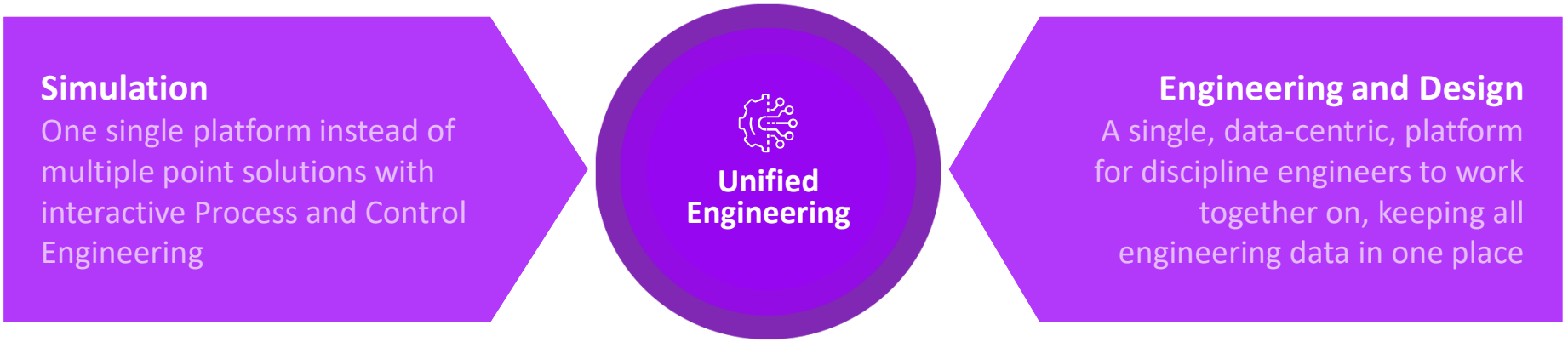
Unified Engineering

DAY 2

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AVEVA Unified Engineering

Multi-discipline collaboration of conceptual, FEED and detailed design with seamless information flow from one single data hub



Accurate and mature design deliverables
Efficient collaboration and automated updates
Bi-directional data flow
Digital Twin Data Model

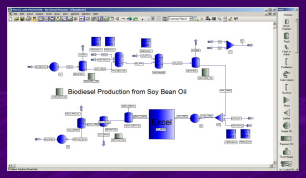
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AVEVA

AVEVA Unified Engineering

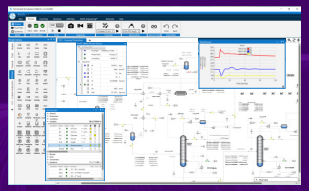
AVEVA products included in the Unified Engineering solution

AVEVA PRO/II Simulation



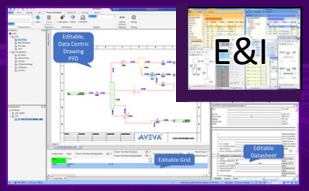
- Process Simulation

AVEVA Process Simulation*



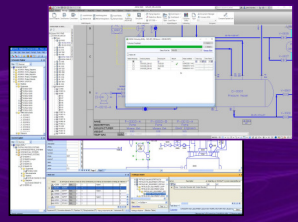
- Process Simulation
- Fluid Flow Rating Simulation
- Dynamic Simulation

AVEVA Engineering



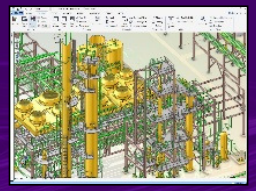
- PFD

AVEVA P&ID AVEVA Diagrams



- PID

AVEVA E3D Design



- 3D

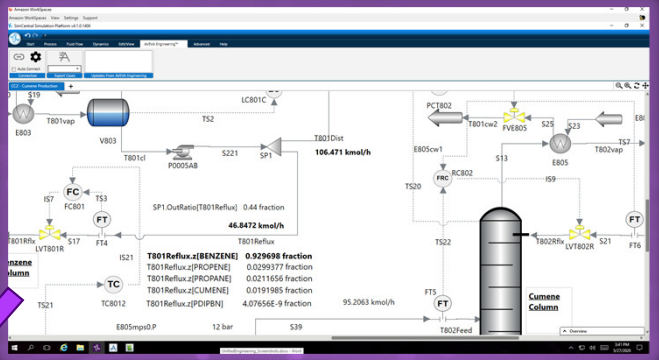
** Previously known as SimCentral*

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1. Simulate the static process operational conditions

3. Validate functional design by rating simulation to determine valve operating positions, relief back pressures etc.

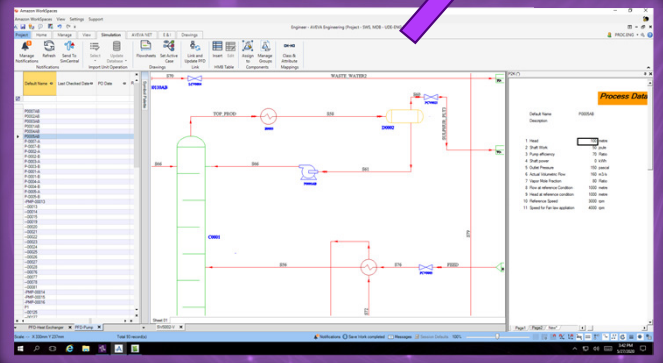
5. (Analyze pressure drop of actual 3D physical piping layout)*



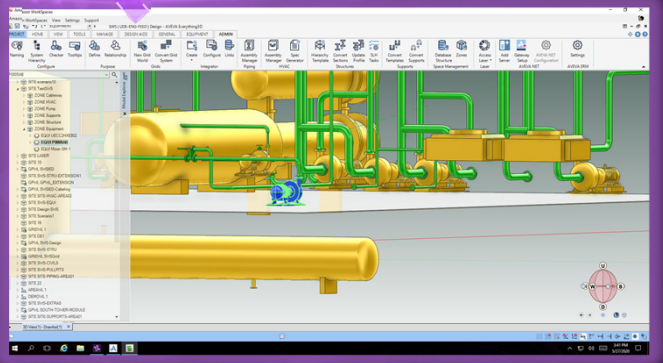
Unit Operation and Stream Data for multiple simulated operating cases

Governing case data including actual vendor equipment properties

(3D piping physical layout)*



Vendor equipment and piping topology



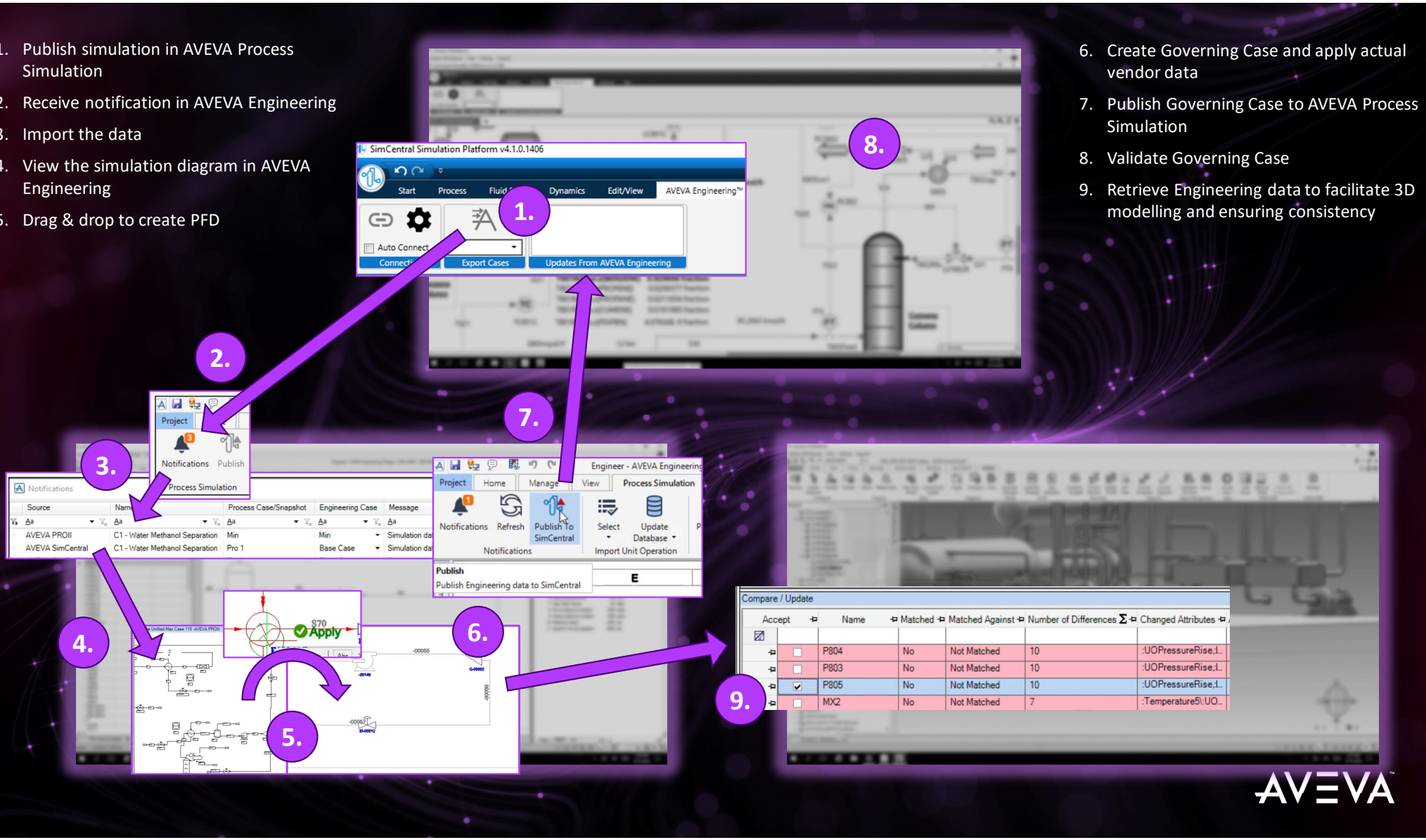
2. Consolidate the different cases to determine the governing case as a basis for design and produce FEED deliverables such as PFDs, P&IDs and datasheets.

4. Drive 3D Design from the functional definition and governing case data

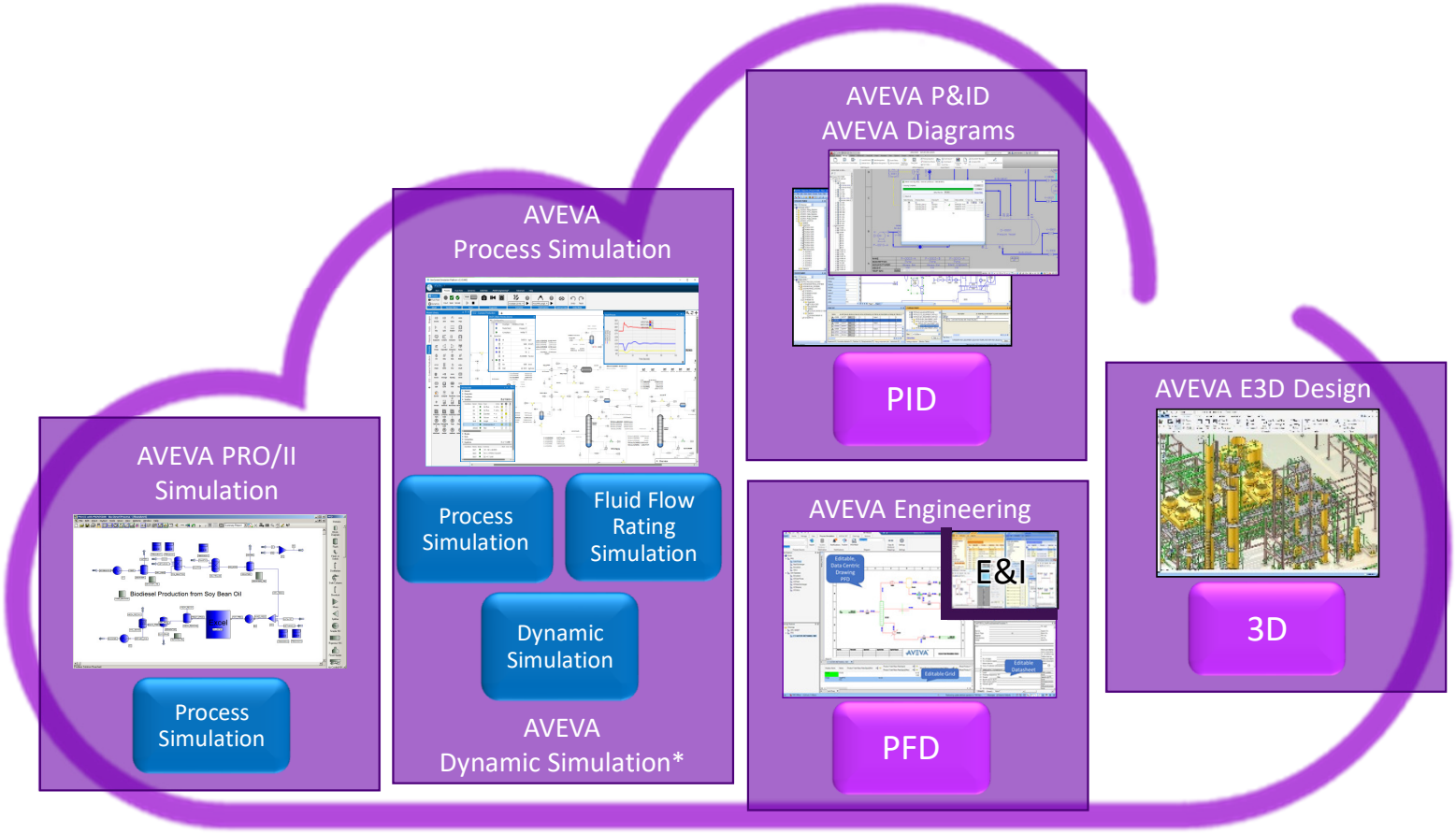
Pressure drop validation of 3D piping layout not yet implemented

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1. Publish simulation in AVEVA Process Simulation
2. Receive notification in AVEVA Engineering
3. Import the data
4. View the simulation diagram in AVEVA Engineering
5. Drag & drop to create PFD
6. Create Governing Case and apply actual vendor data
7. Publish Governing Case to AVEVA Process Simulation
8. Validate Governing Case
9. Retrieve Engineering data to facilitate 3D modelling and ensuring consistency

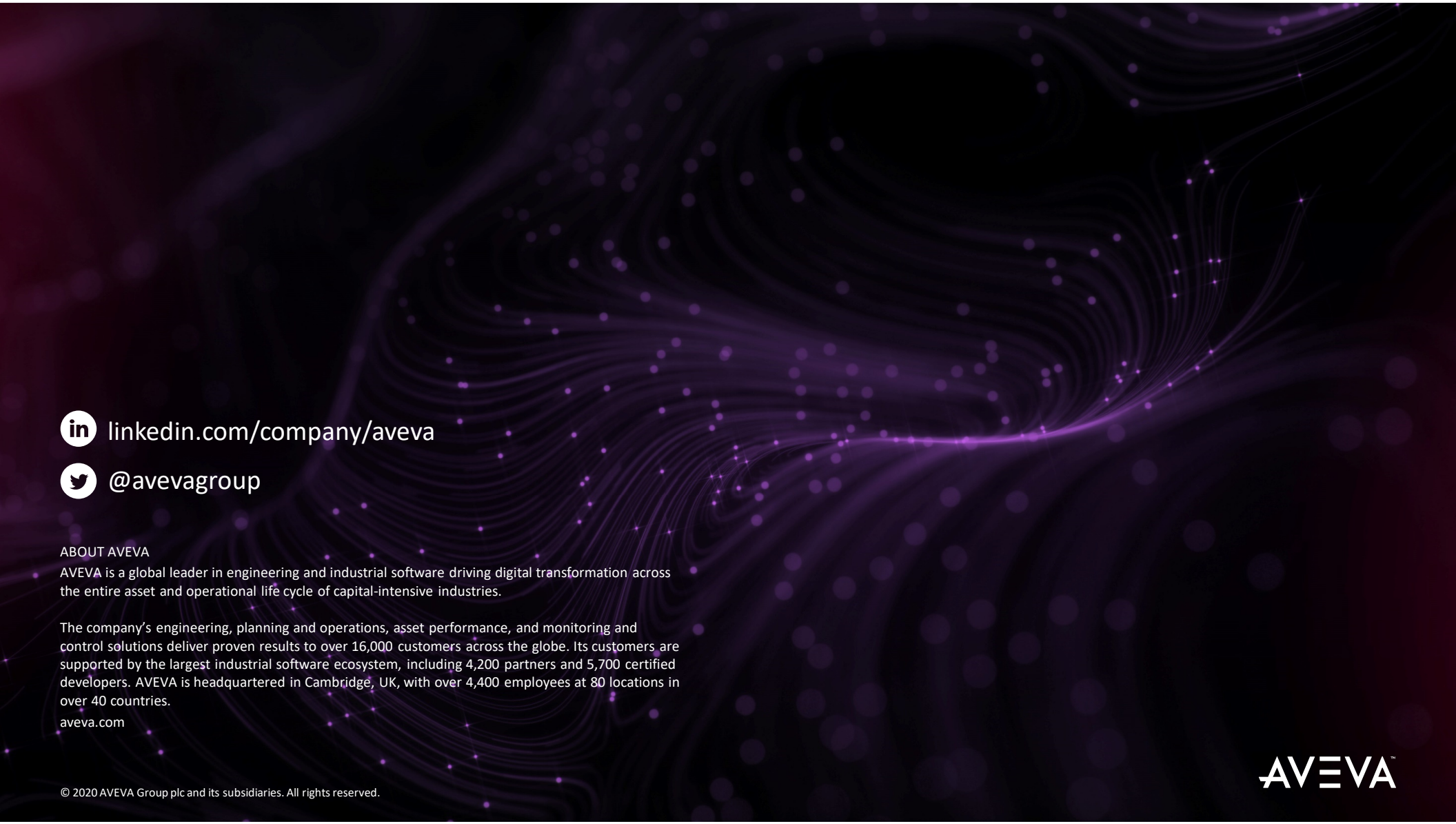


Unified Engineering is a Cloud only solution



* To be added to Unified Engineering in 2021

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ABOUT AVEVA

AVEVA is a global leader in engineering and industrial software driving digital transformation across the entire asset and operational life cycle of capital-intensive industries.

The company's engineering, planning and operations, asset performance, and monitoring and control solutions deliver proven results to over 16,000 customers across the globe. Its customers are supported by the largest industrial software ecosystem, including 4,200 partners and 5,700 certified developers. AVEVA is headquartered in Cambridge, UK, with over 4,400 employees at 80 locations in over 40 countries.

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