AVEVA Cloud Vision

Harnessing the Digital Opportunity to Enable the New Way of Work

AVEVA Cloud/ENG/October 2020

The world has changed overnight

Entering a world of remote everything, a tremendous leap to digitalization



"**Digitalization** is the use of digital technologies to change a business model and provide new revenue opportunities" - Gartner

50%

of companies had plans to invest in Digital Transformation and AI in next 3 years

66%

of manufacturing enterprises report using a cloud implementation

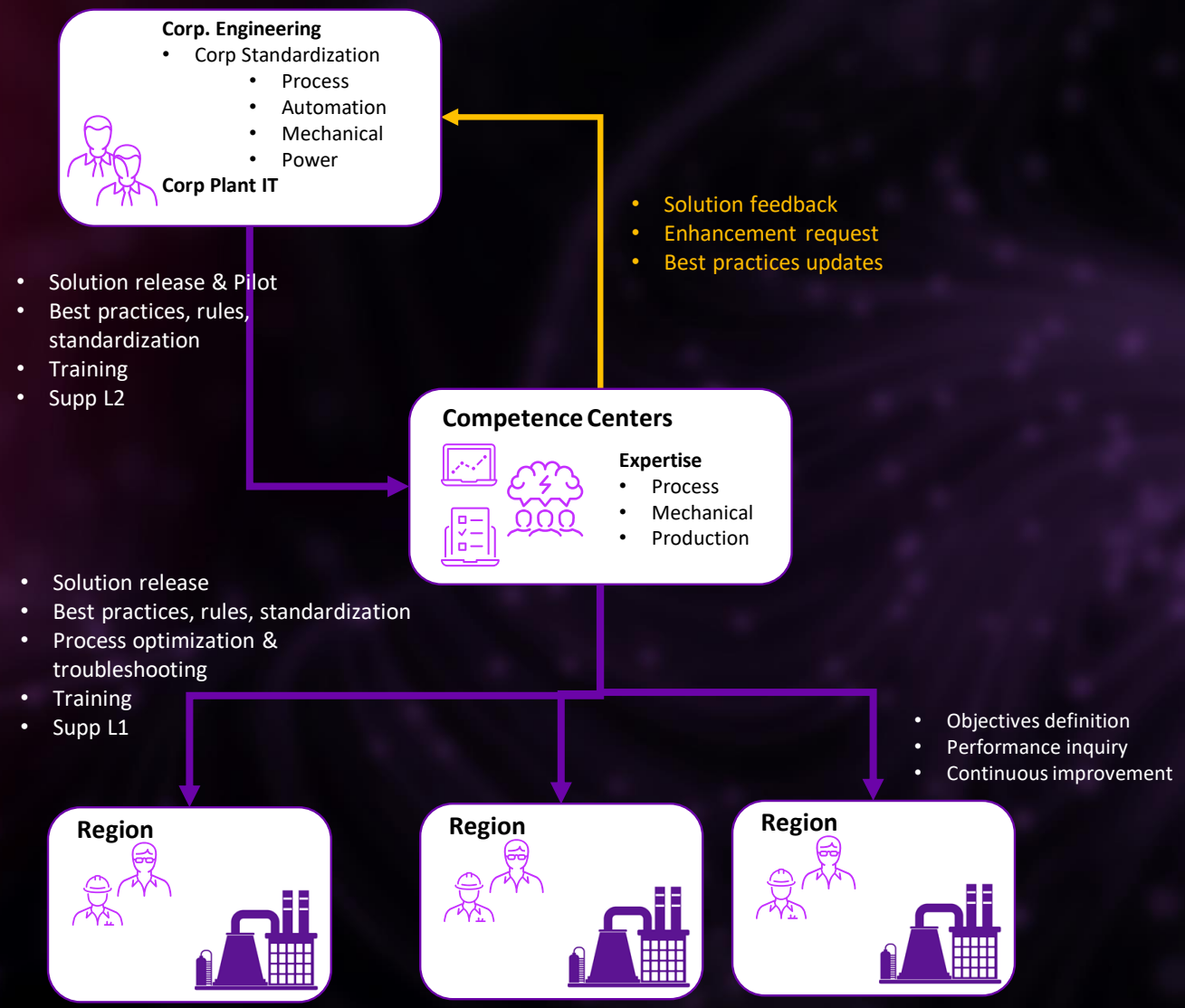
5Billion

connected things this year will enable new levels of operational visibility

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Opportunity to Have Asset Awareness Across Fleet



New Reality of Work Post Covid

Virtual Team of Engineering

- One Digital Model / Twin of Plants
- Leveraging sub-contractors invited to work on projects

Virtual Team of Expertise

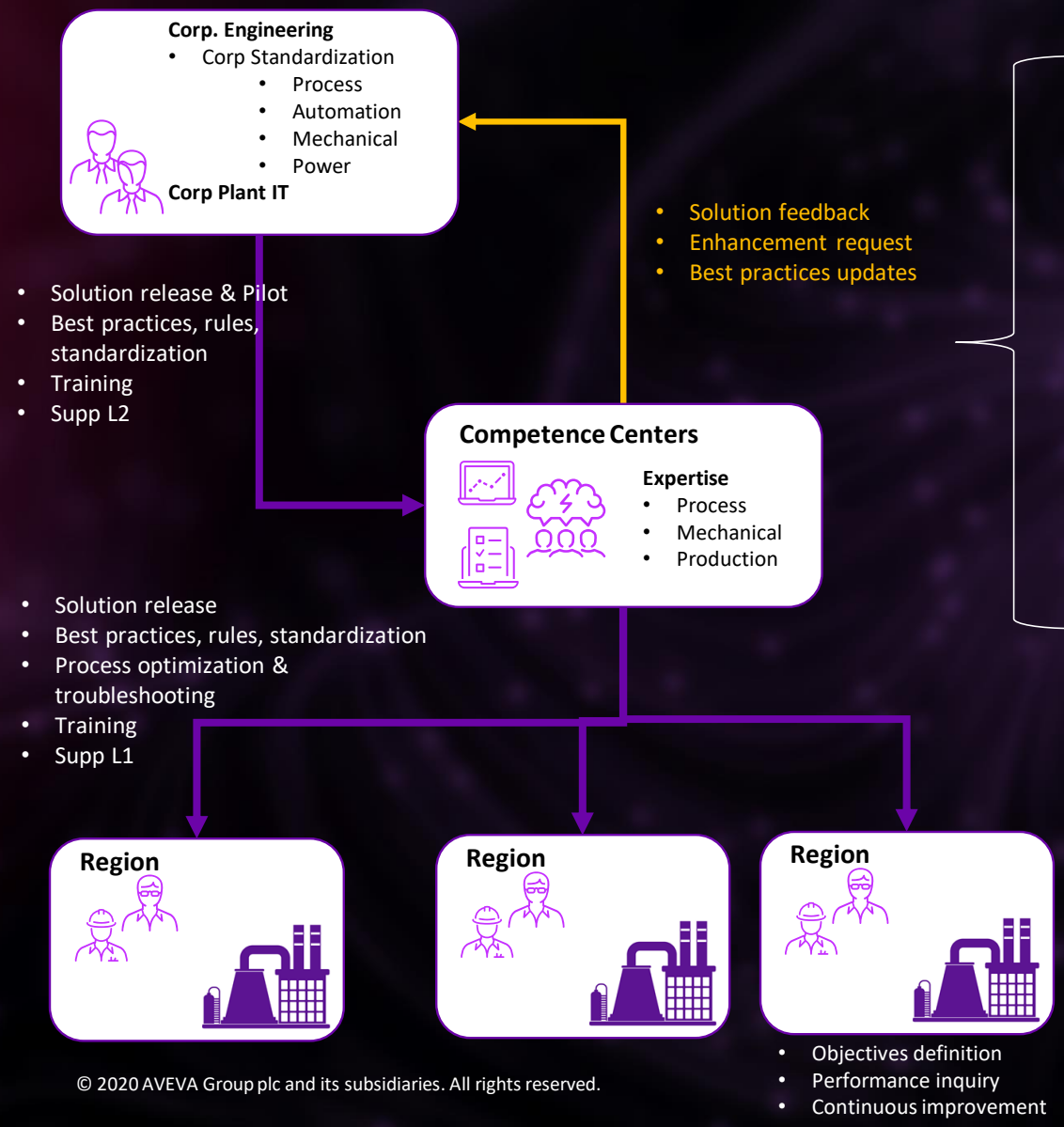
- Process, Mechanical, Chemical, Production experts
- Outside the plant
- Need to have transparency across the plants
- They need to be able to do analysis, model
- They need to collaborate for actions
- They need to be able to advise, recommend and interact with plants

Isolated Production Crews

- Necessary Production teams only in plants
- Looking for expertise collaboration

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Opportunity to Have Asset Awareness Across Fleet



Opportunity to Change

Step 2 – Enrich and Optimize

Step 2

Value Chain Optimization
- Demand Driven
- Customer Centric
- Optimization

Empowerment
- Alignment Process
- Knowledge in System
- Augment Awareness

Value Chain Visibility
- Transparency in Context
- Trusted Information
- Aligned Context

Team
- Collaboration
- Team Effectiveness
- Empowerment

Value Chain | **Workforce**

Step 1 – End to End Transparency

Step 1

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Opportunity to Have Asset Awareness Across Fleet

Corp. Engineering
- Corp Standardization
  - Process
  - Automation
  - Mechanical
  - Power

Corp Plant IT

- Solution feedback
- Enhancement request
- Best practices updates

- Solution release & Pilot
- Best practices, rules, standardization
- Training
- Supp L2

Competence Centers

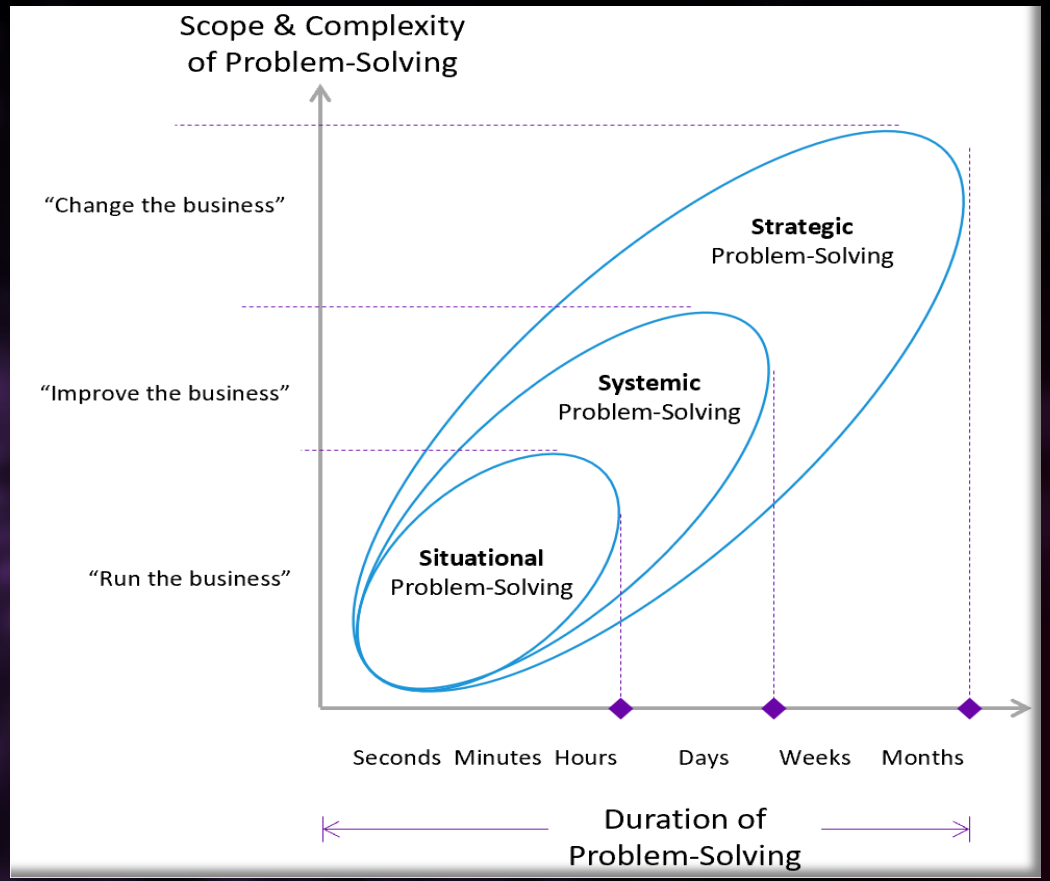
Expertise
- Process
- Mechanical
- Production

- Solution release
- Best practices, rules, standardization
- Process optimization & troubleshooting
- Training
- Supp L1

Region **Region** **Region**

- Objectives definition
- Performance inquiry
- Continuous improvement

Enabling the Problem Solving Workforce



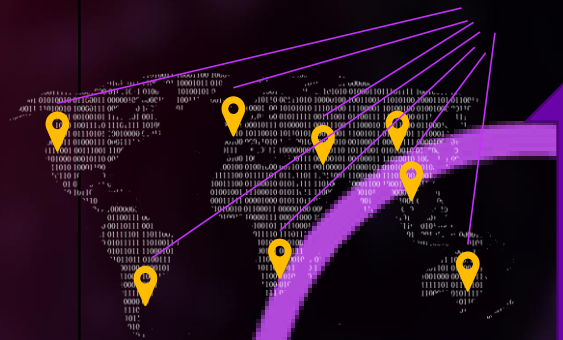
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AVEVA Cloud vision

ENGINEERING
- Federated Design & Engineering Teams
- Multi Region Teams
- Fast On Board Teams
- Collaborate and Share
- Enable Digital Services
- Efficiency of Distributed Teams

HANDOVER
- Transparency along the process
- Data ownership and one data format only
- Higher speed to value, as people can be trained on the digital twin
- Handover starts at day 1 of the activity

OPERATIONS
- Federated Plants & Existing Teams
- Operational Transparency across Plants
- Value Chain Optimization
- Asset Reliability & Effectiveness
- Asset & Process Optimization
- Enable New Teams, and Collaboration



Collaboration/ Roles

SIMULATE | ENGINEER | DESIGN | CONSTRUCT | COMMISSION | TRAIN

Engineer, Design, Procure

Engineering efficiency

PROCESS ANALYSIS | OPERATIONAL PERFORMANCE | PROCESS OPTIMIZATION | PRODUCTION OPTIMIZATION | ASSET RELIABILITY | ASSET MAINTENANCE

Operate, Maintain, Perform

Operations efficiency

AI



AVEVA DIGITAL TWIN

Integration

AVEVA Cloud Platform Services

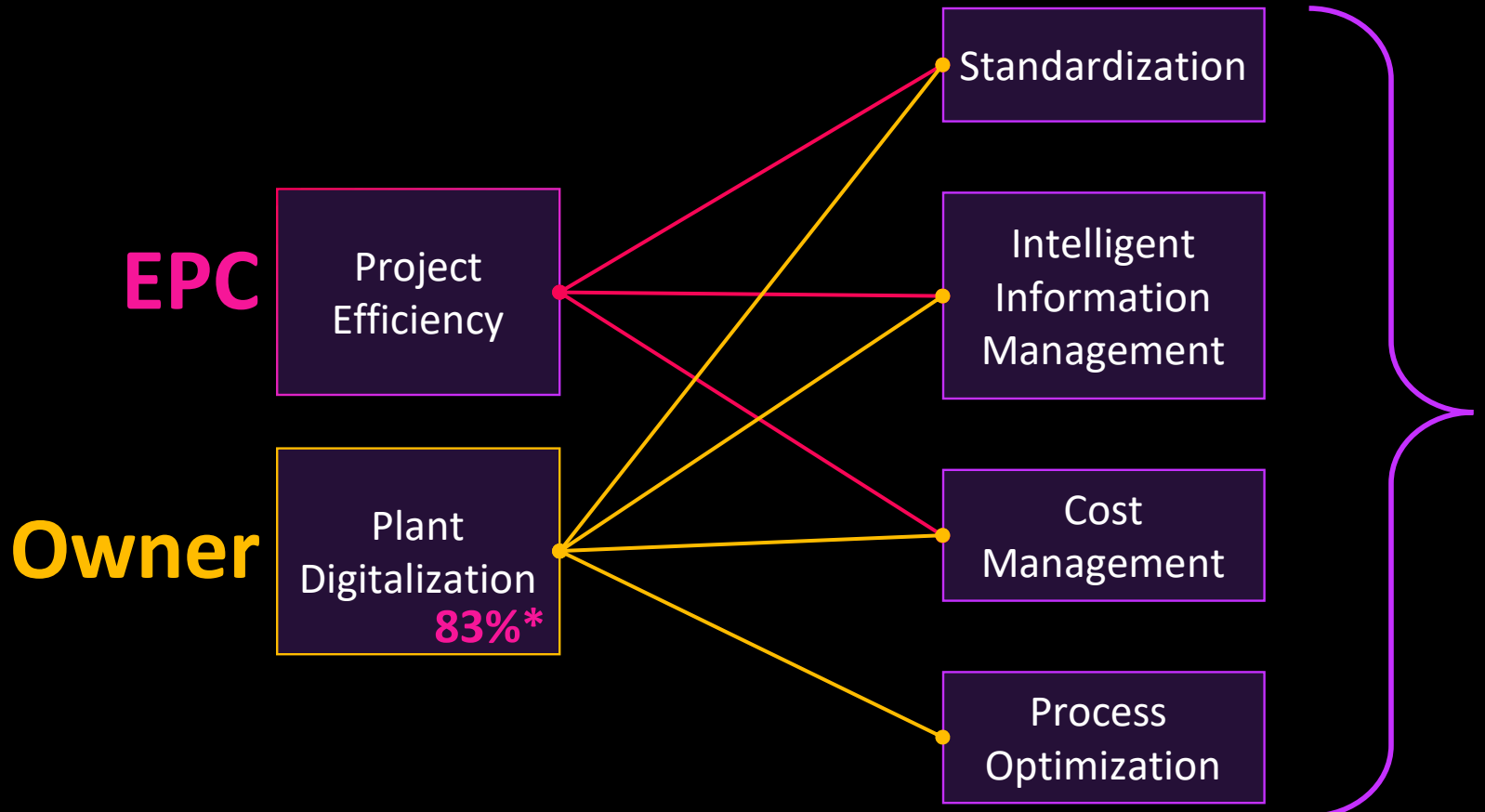
Integration
- Inter Cloud
- Inter Application
- Hybrid

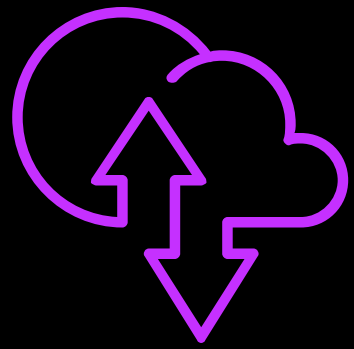


INFORMATION BACKBONE
- Federated information
- End to End 360 Degree Transparency
- Augmented Search / Understanding

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New emerging digital business models





Cloud

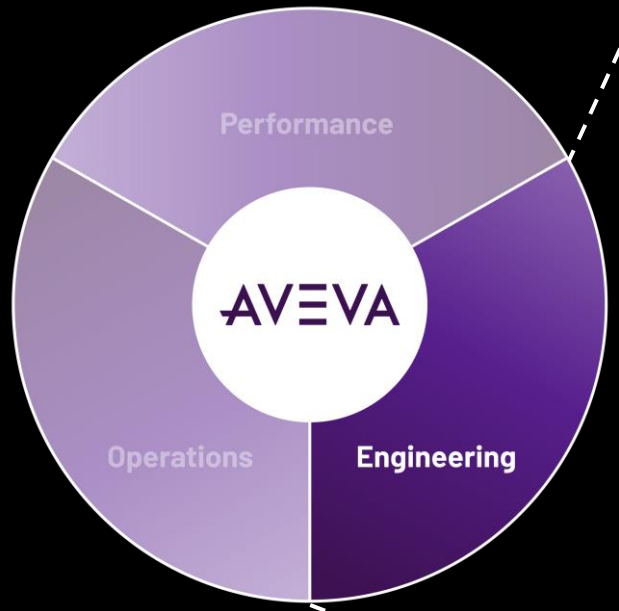
- Accessibility
- Scalability
- Shareability
- Security
- Transparency

*The top priority (Gartner)

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AVEVA™

Engineering Efficiency in AVEVA Connect



AVEVA
Asset Visualization Services

Cloud Ready

AVEVA
Asset Lifecycle Management

AVEVA Unified Project Management

MANAGE

SIMULATION | ENGINEERING | DESIGN | EXECUTION | LEARNING

Cloud Ready

AVEVA
Unified Engineering
(UE)

AVEVA
Unified Engineering

Cloud Ready

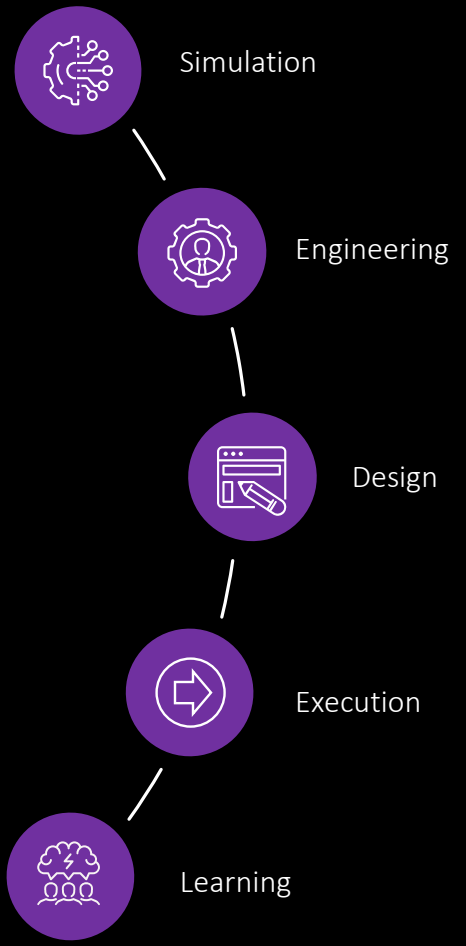
AVEVA
Unified
Execution
(UPE)

AVEVA
Unified Execution

Cloud Ready

AVEVA
Unified
Learning
(UL)

AVEVA
Unified Learning

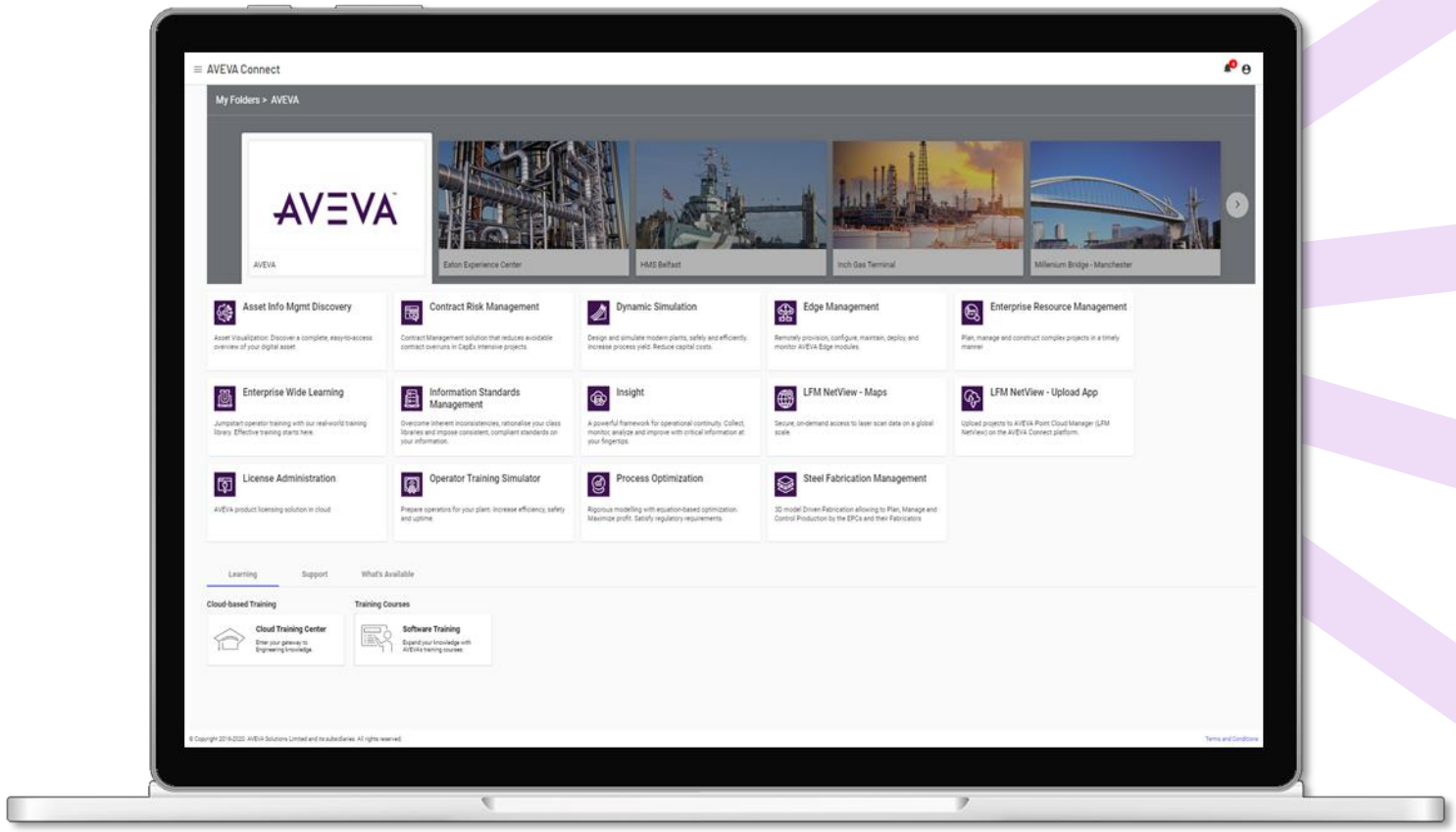


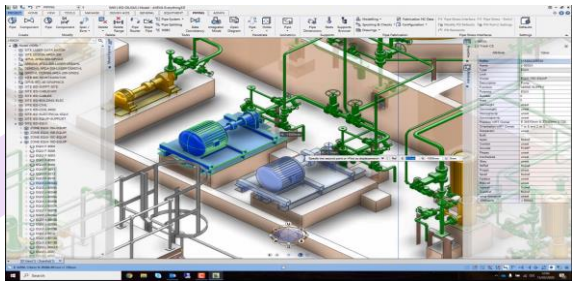
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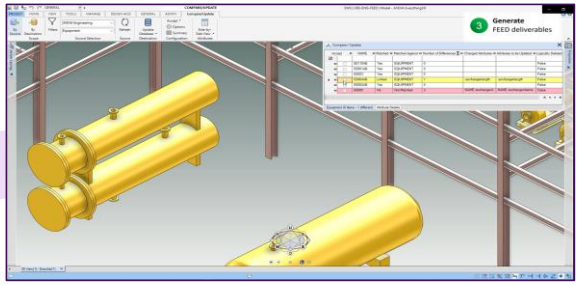
Unified Engineering and Unified Learning on AVEVA Connect

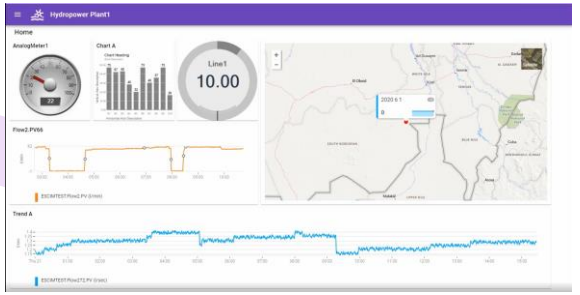
2020-10-13 / AVEVA

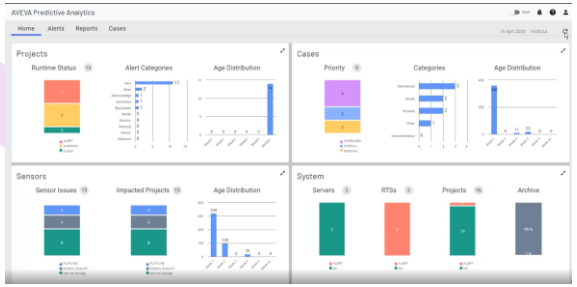
AVEVA Connect – Single Cloud Gateway









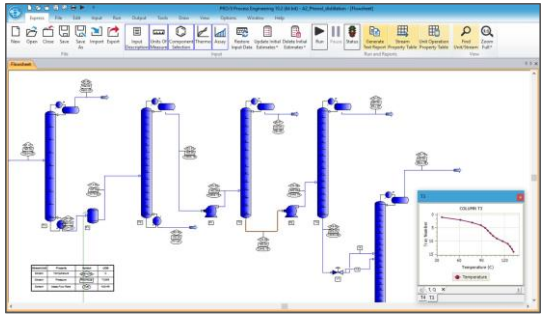


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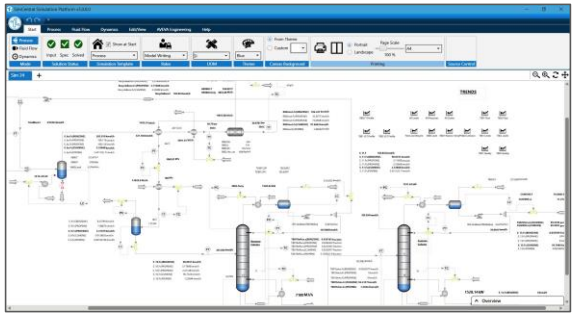
AVEVA Unified Engineering

Key Solutions available on AVEVA Connect

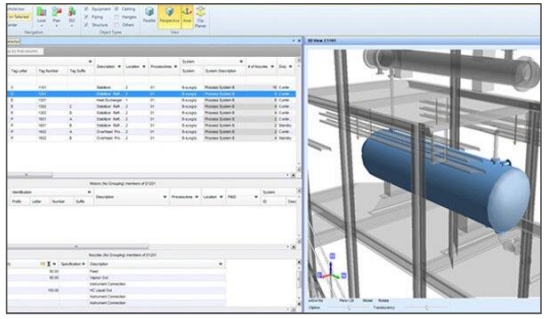
AVEVA PRO/II Process Engineering



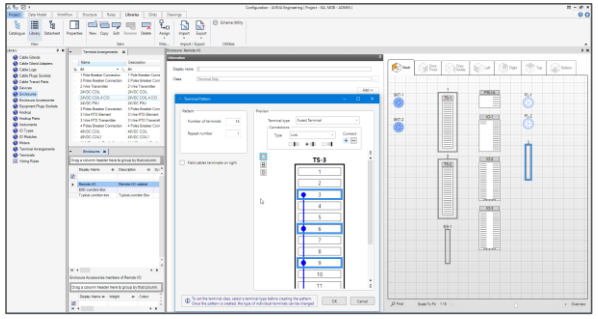
AVEVA Process Simulation



AVEVA Engineering

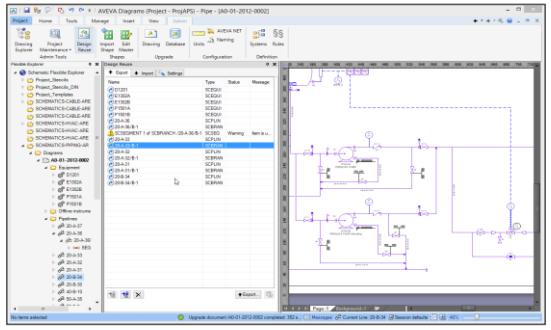


AVEVA Electrical and Instrumentation

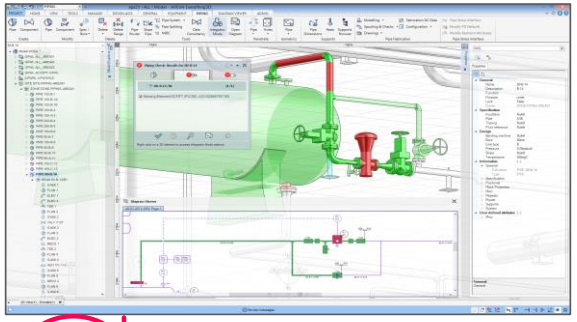


CONCEPTUAL DESIGN/PROCESS SIMULATION → FRONT END ENGINEERING DESIGN (FEED)

AVEVA P&ID



AVEVA Diagrams



AVEVA E3D Design

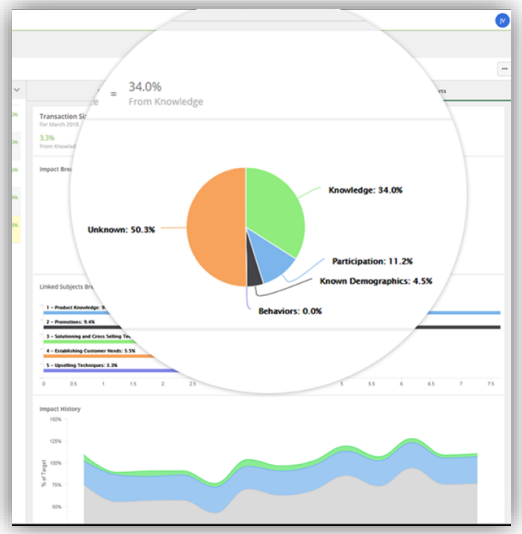


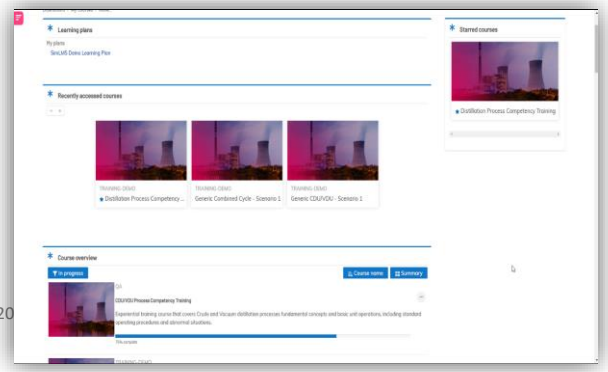
FEED cont'd → DETAILED DESIGN

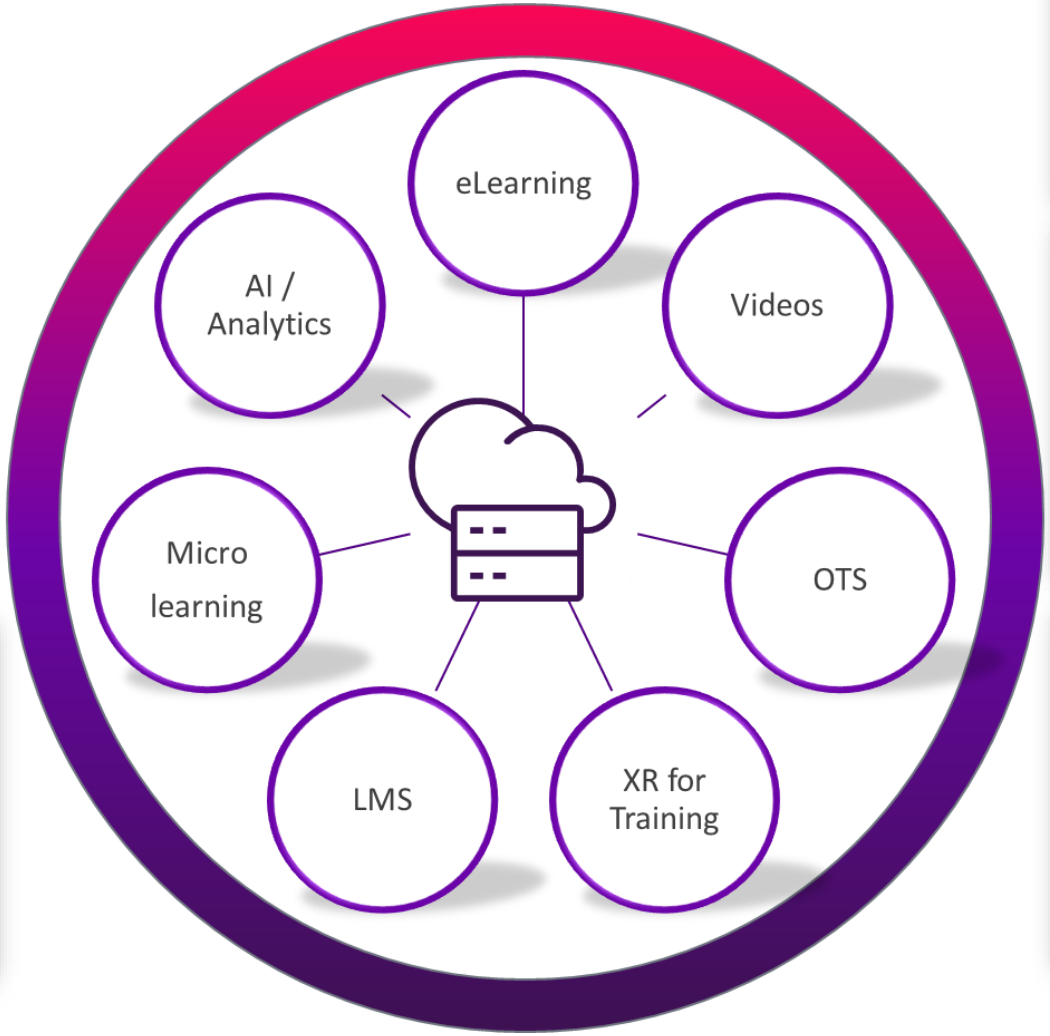
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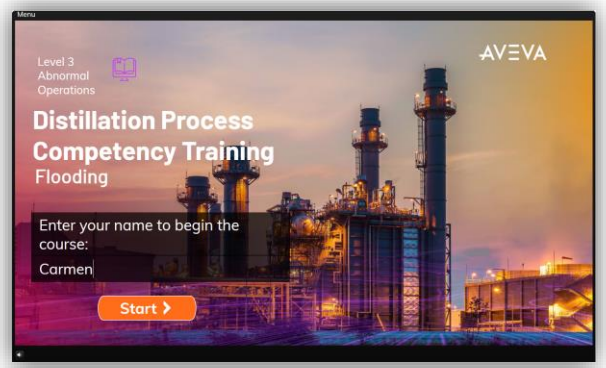
AVEVA Unified Learning

Provision of cloud-based scalable training while reducing Capex, training time and travel





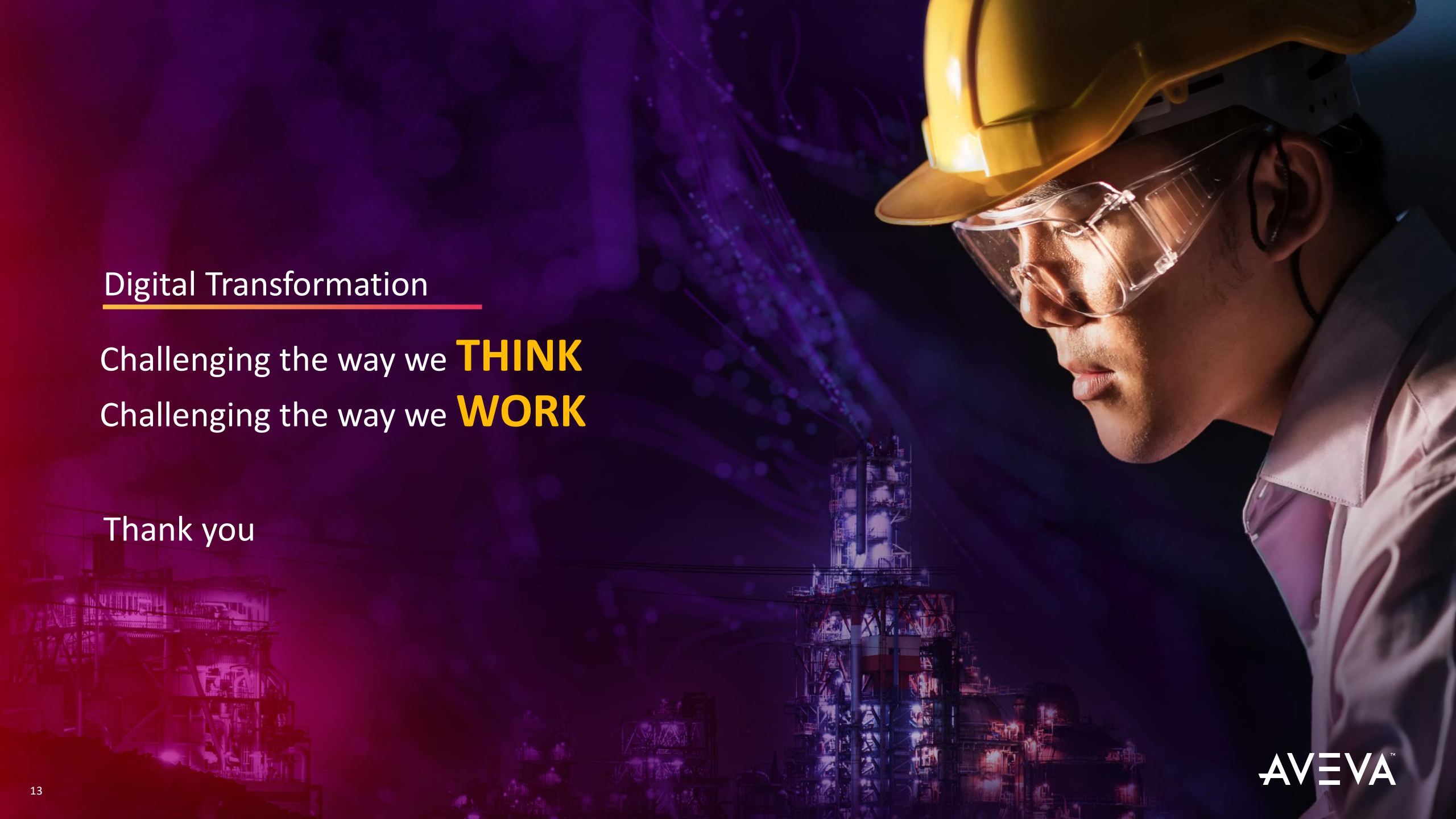








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Digital Transformation
Challenging the way we THINK
Challenging the way we WORK
Thank you
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ABOUT AVEVA

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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