

AVEVA PI WORLD

Empower Your Connected Workforce with a Comprehensive Digital Twin

Optional Subtitle

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Comprehensive Digital Twin and the Connected Workforce

First things first

01

▶ The Comprehensive
Digital Twin Primer

02

▶ The Connected Worker
Primer

03

▶ Capture
Consolidate
Enrich
Share

04

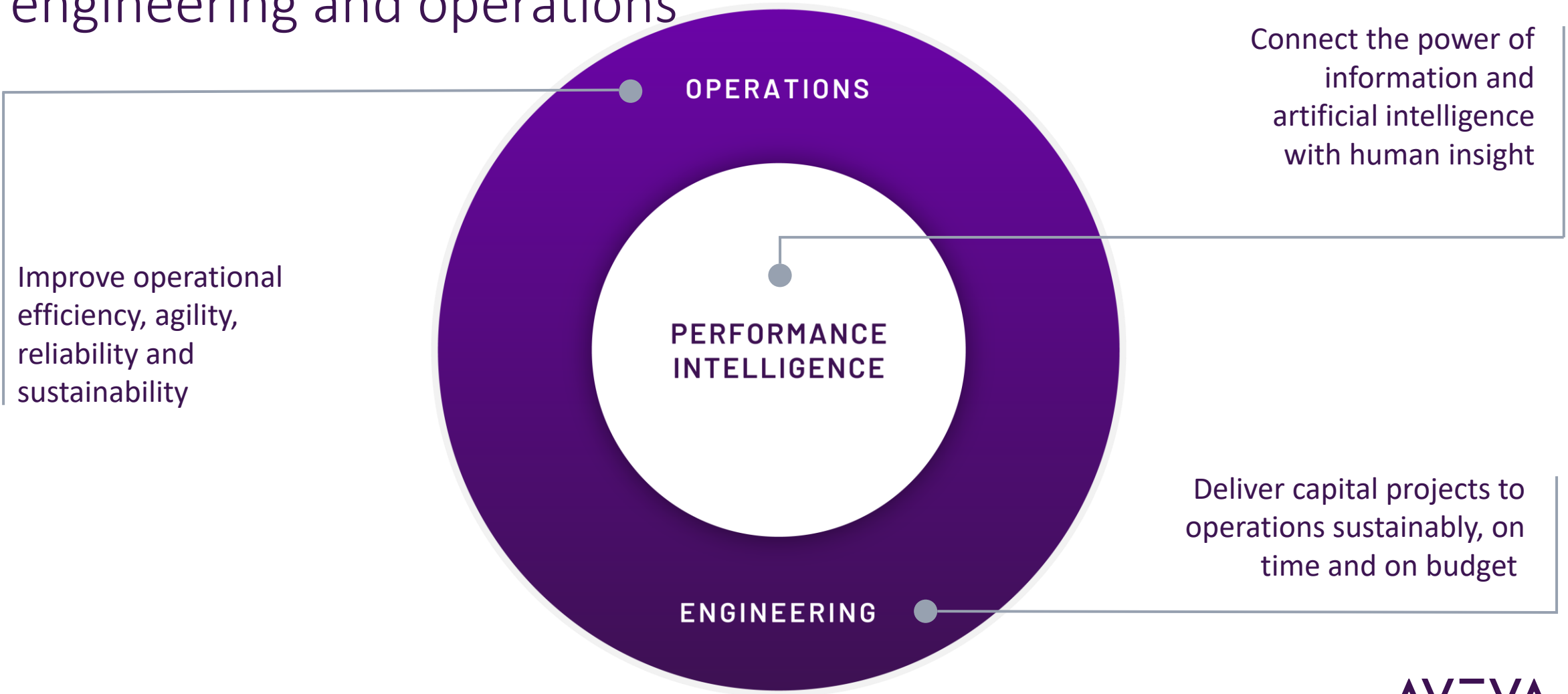
▶ Realizing the
Opportunity in
Engineering &
Operations



The Comprehensive Digital Twin



Common digital thread across engineering and operations



Defining a Comprehensive Digital Twin

A common digital thread from engineering to operations



Artificial Intelligence



Cloud



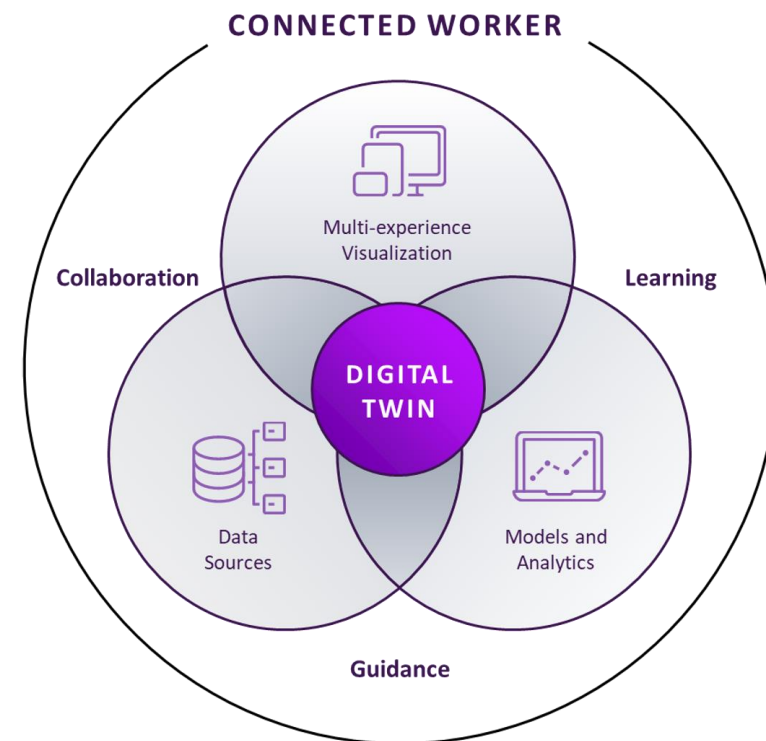
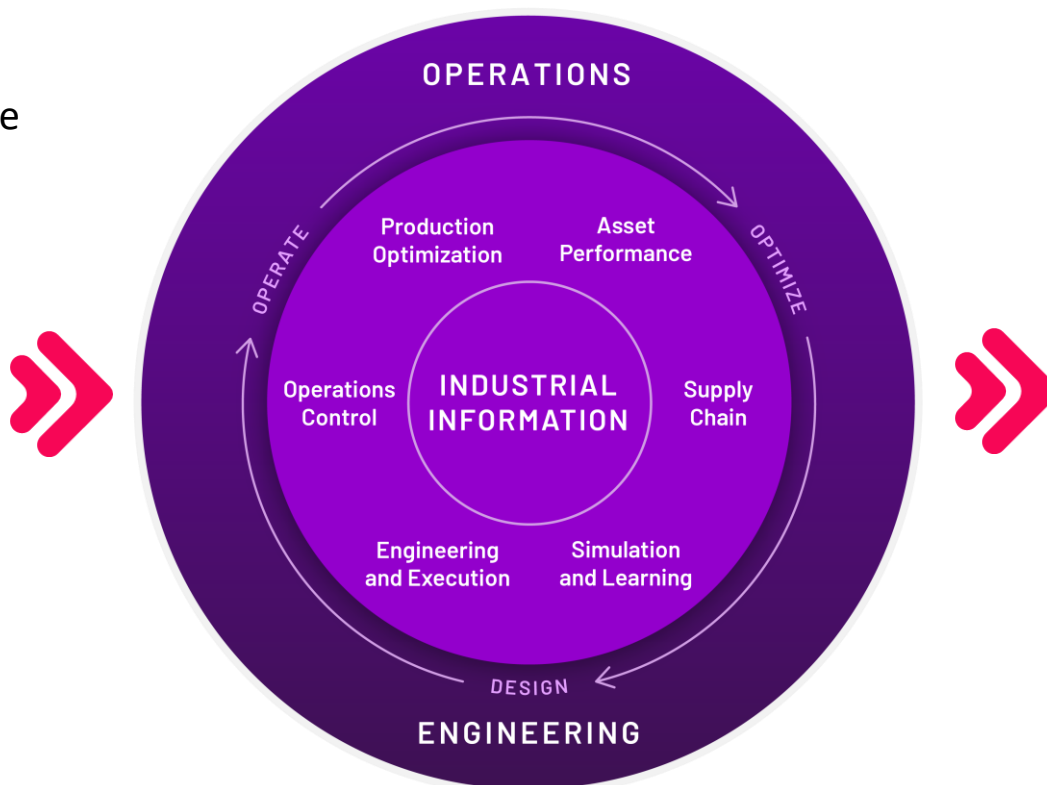
Big Data



Industrial IoT/Edge



Extended Reality



Goals for the Comprehensive Digital Twin

To deliver actionable, contextualised Information transforming our customer's ability to make faster & more reliable decisions; improving operational safety, asset integrity and reducing project risk.



**Enterprise scalable,
managed and secure**



**Rapid access to trusted
information**



**Aggregate, report
and maintain**



**Visualize context
to all endpoints**



**Ability to assess &
remediate information**

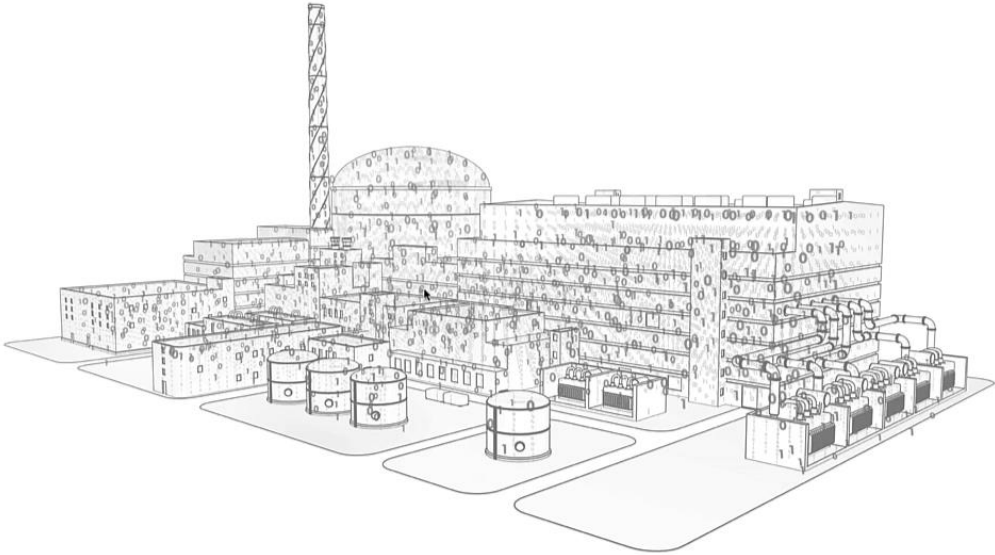
From the Operations Data Perspective



Demo 1

Home

AVEVA Asset Information Management™ 5.1.9 *The Future of Engineering Information Management*



Collect

Bring together information in multiple formats and from various source systems to create a complete cross-reference index with links to, and associations between, all items in the digital asset.

Locate

Provide fast and powerful search capabilities which, combined with its knowledge of tag and document associations, delivers efficient and effective location of information required for decision making.

Discover

Automatically extract and maintain tag to tag, tag to document, and document to document relationships. Exploiting this interconnectivity, it provides efficient navigation of the digital assets and aids in the discovery of new insights in your information.

View

Deliver high-quality web-based visualisation of tag data, documents, drawings, 3D models and laser scans. Automatic creation of hotspots and hyperlinks provides additional intelligence for easy identification and navigation of tags.

Report

Improve project and operational compliance by aggregating project and asset data to report on the quality, consistency, and completeness of your information.

Powerful and effective
Information Management for
Engineering and Operations

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The Connected Worker



Worker perspective - The changing workplace

My Workplace

- More complex operations
- Compliance and sustainability targets
- More digital solutions
- Increased automation
- More data to filter

My Opportunities

- Better connectivity & infrastructure
- More sensors & industrial IoT
- More powerful mobile devices
- Wearable devices and smart IoT
- More AI insights

Personalized
Is the experience right for me?

Interactive
Can I easily find what I need?

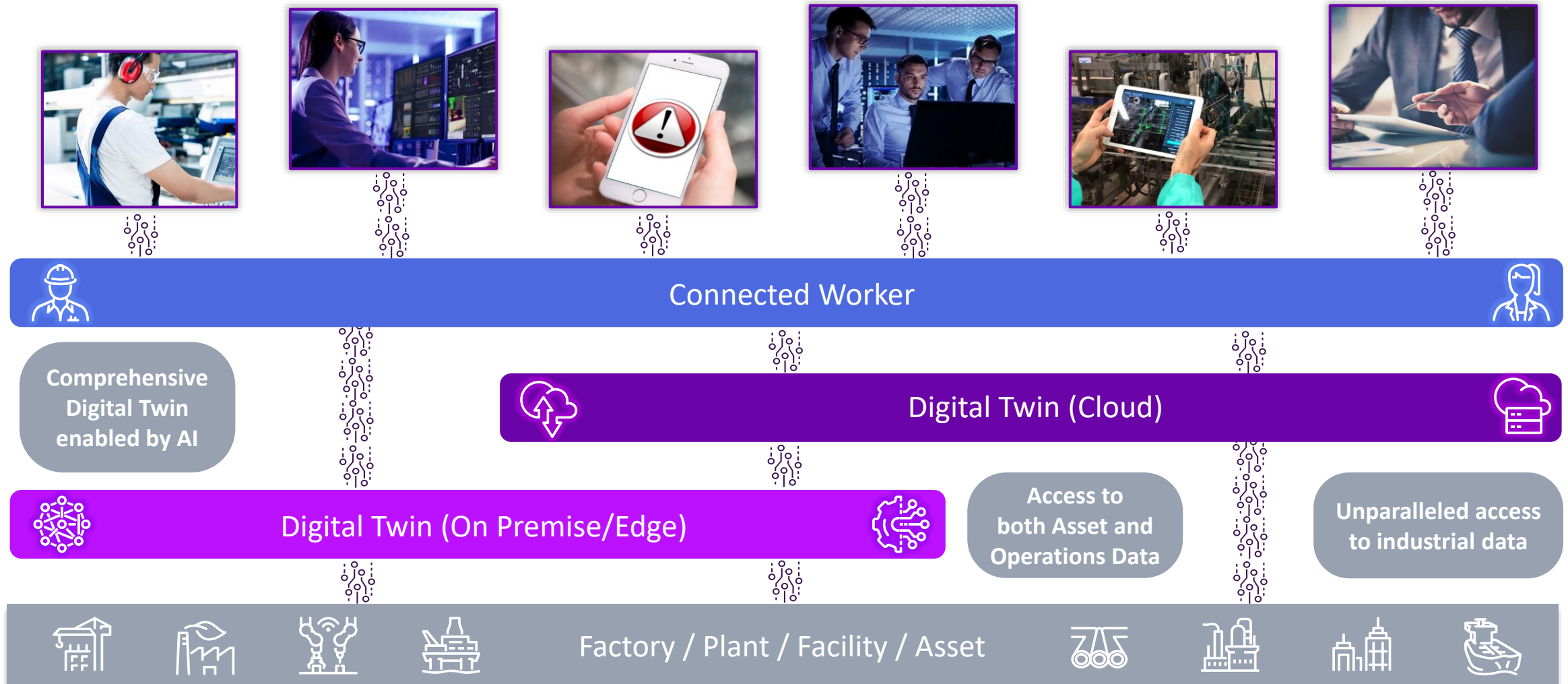
Visual
Is the context intuitive?

Guided
Does it prescribe what to do next?

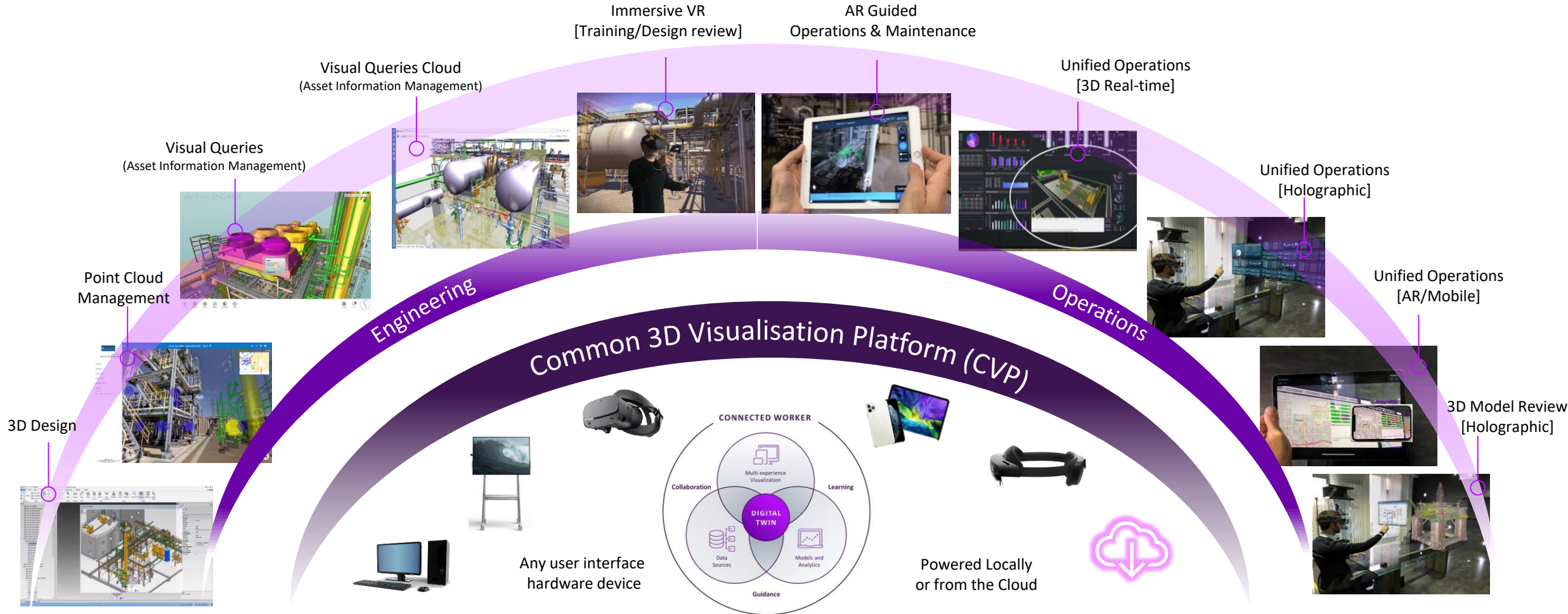
Actionable
Is it timely & trustworthy?



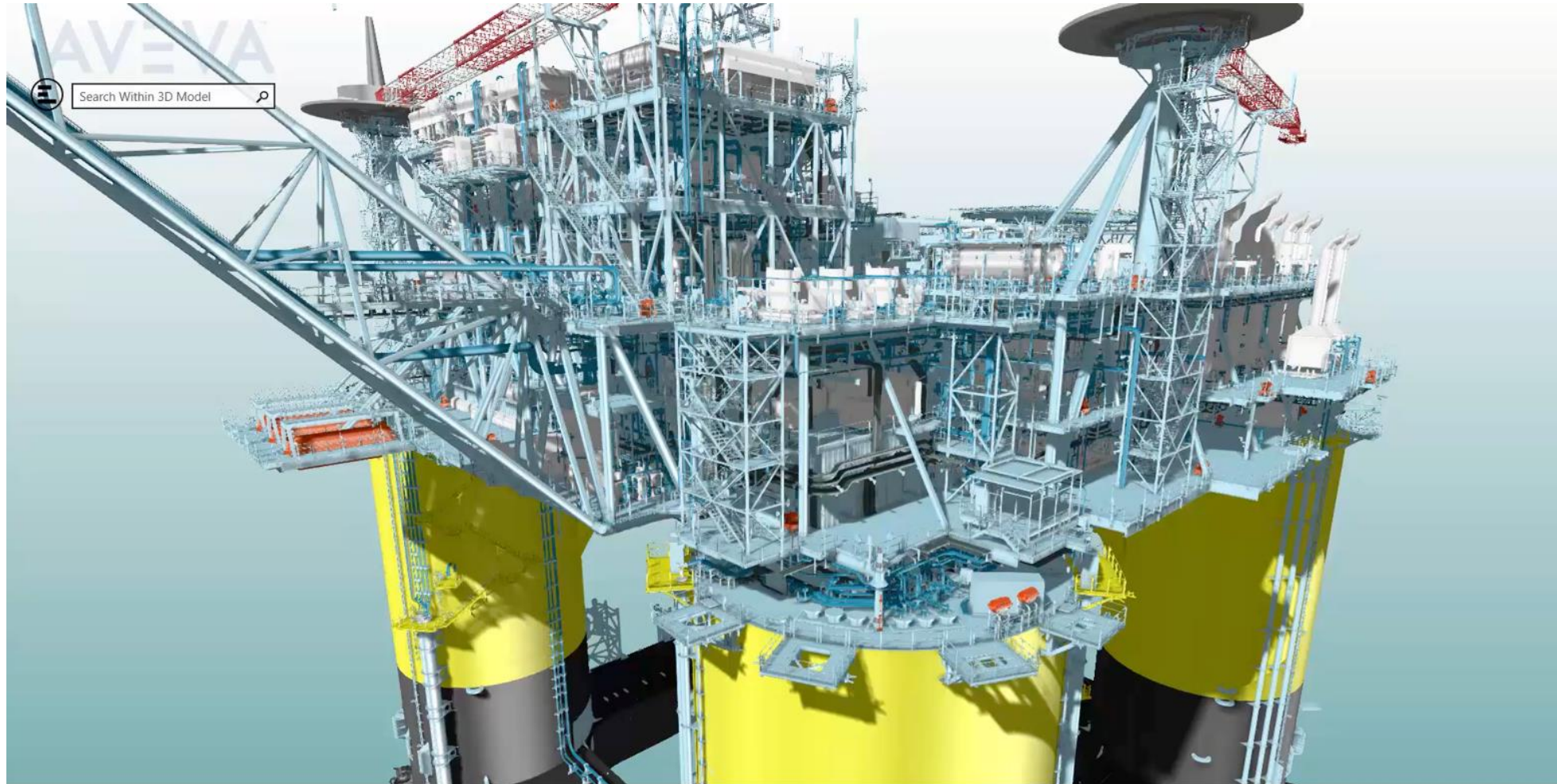
Connected Work – powered by the Digital Twin



Redefining what can be asked and how we can ask it



Whole Asset Insights



Model



Reset View



Section



Measure



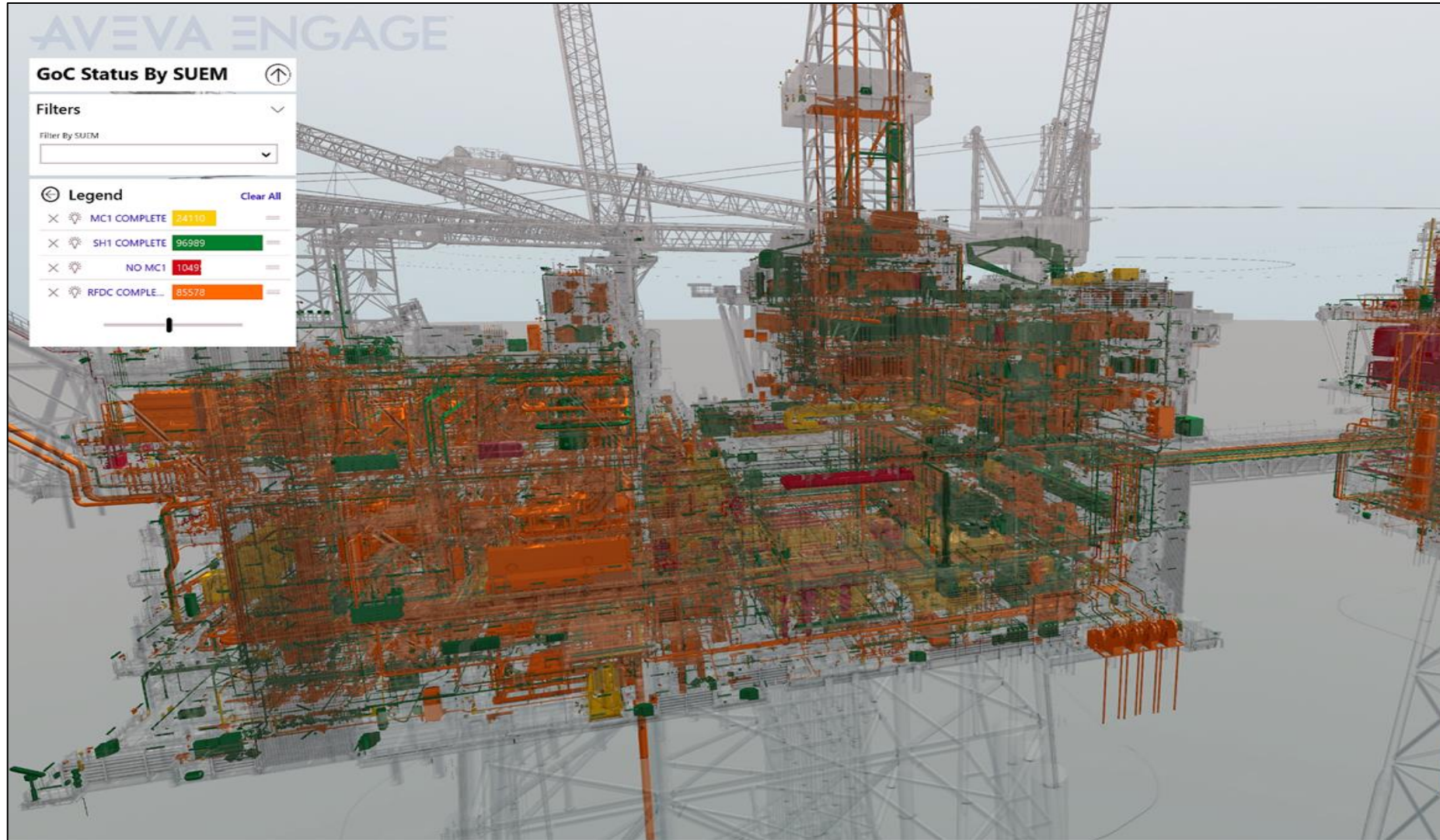
Collect



Collection



Whole Asset Insights



Capture
Consolidate
Enrich
Share

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Engineering and Performance

Key building blocks of the Comprehensive Digital Twin

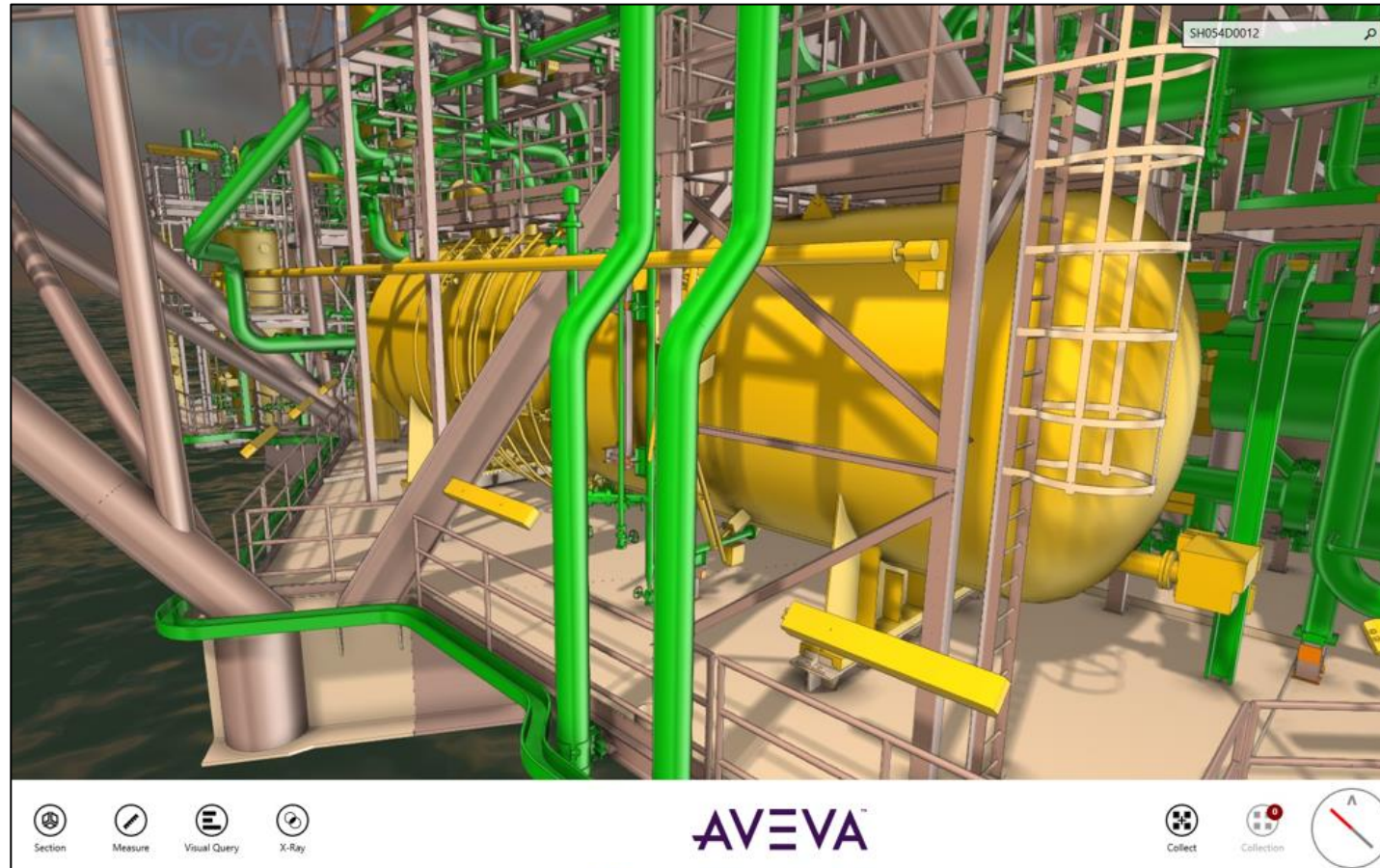
Standardise

Acquire

Consolidate

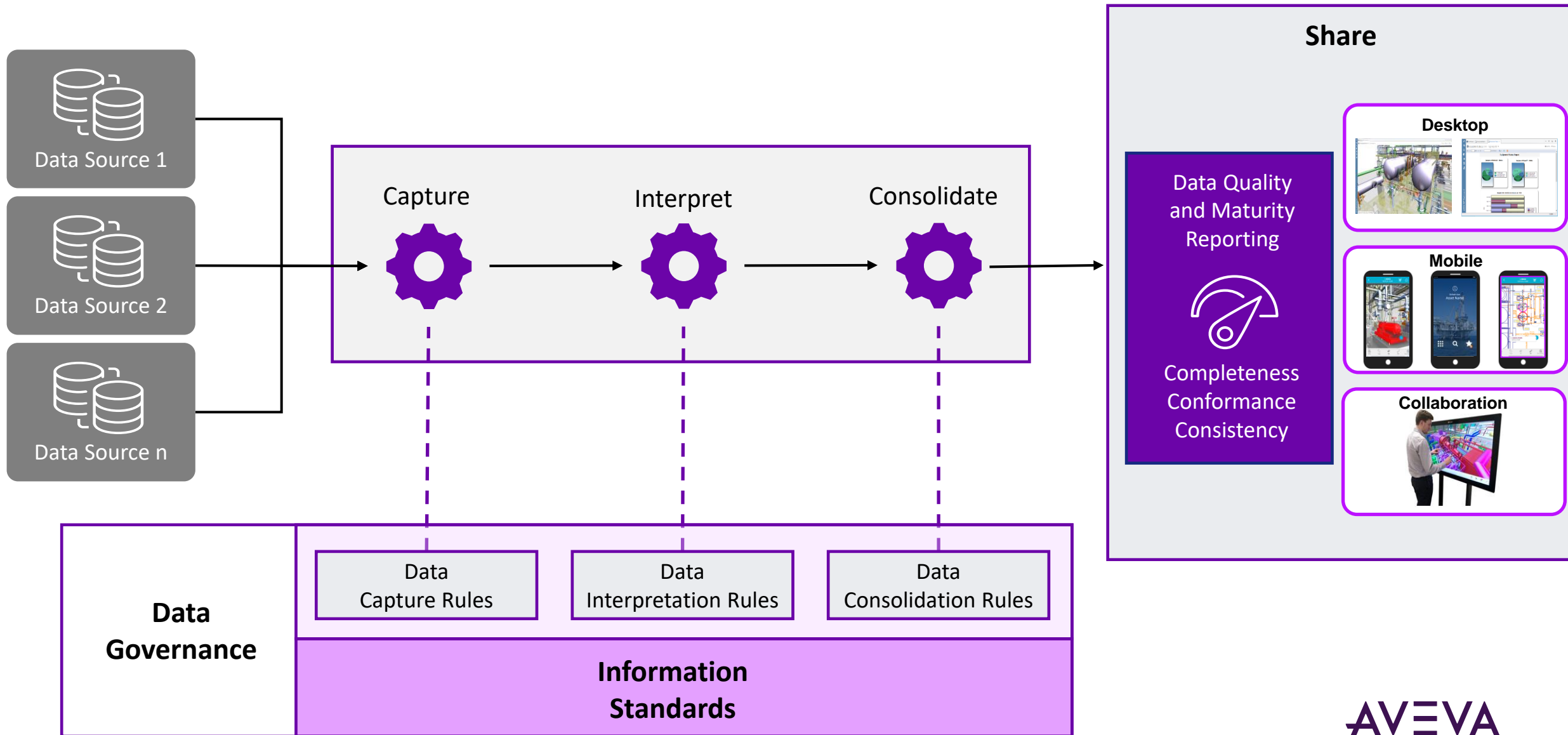
Enrich

Share

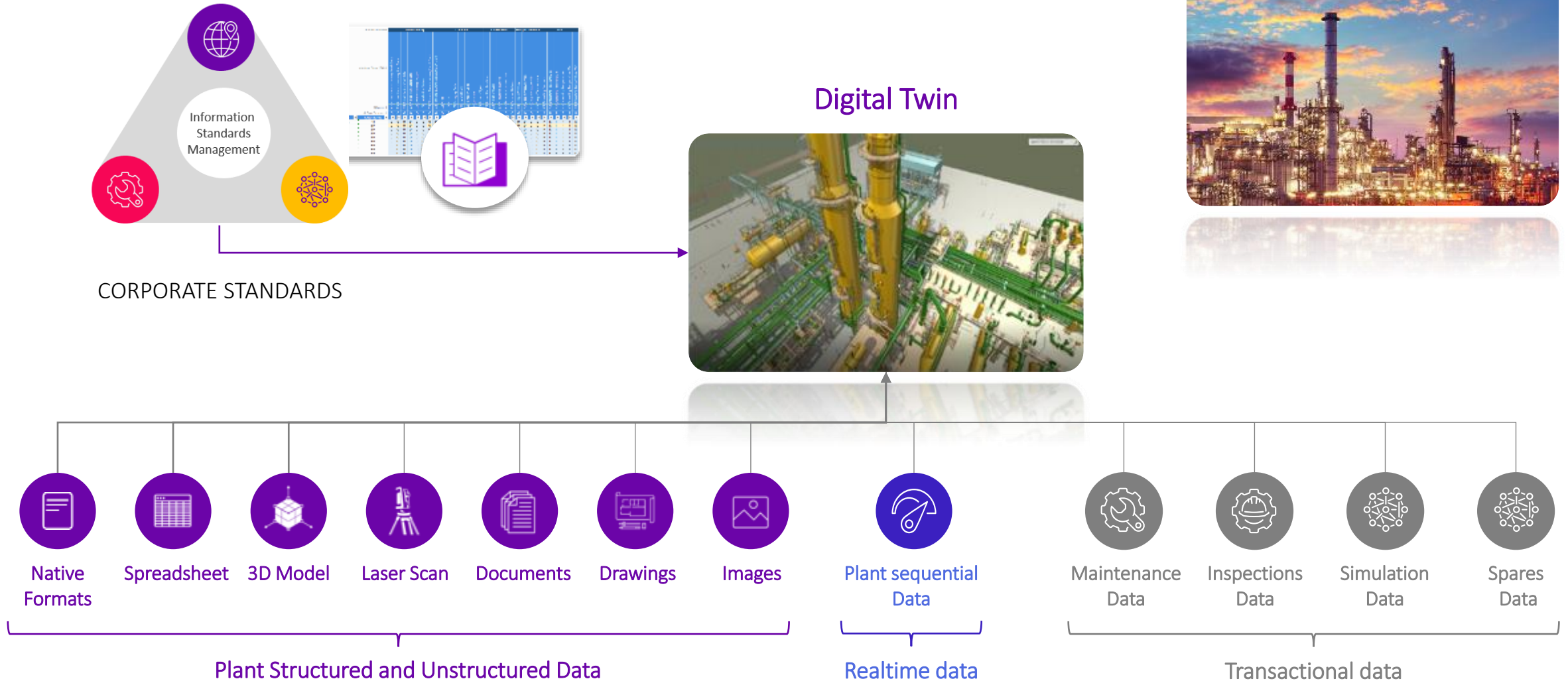


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Building a Comprehensive Digital Twin



Bringing the Digital Twin To Life

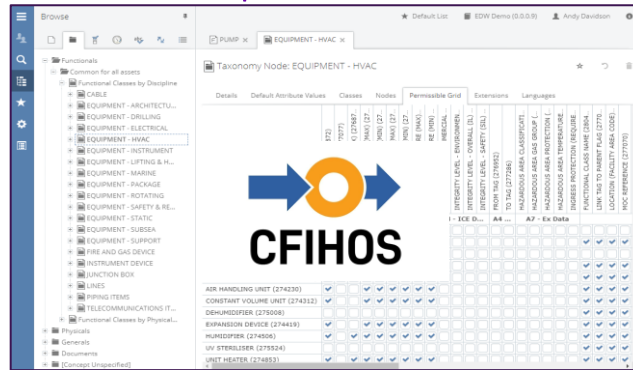


Benefits

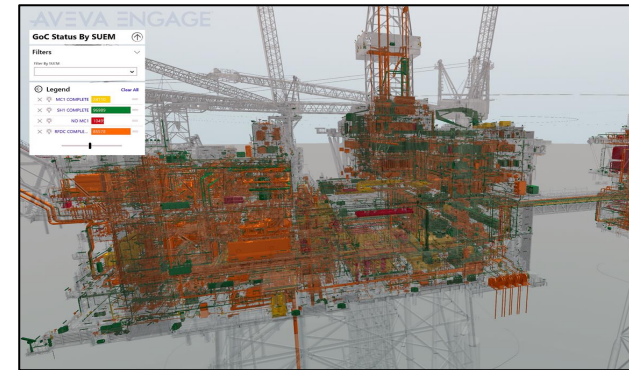


Example Benefits during CAPEX

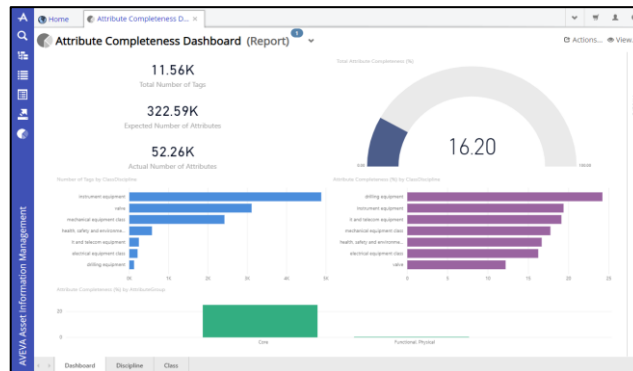
Improve visibility, trust and control to meet budget and schedule while enabling a smooth handover and a quick start-up



Information standard aligned with international standards to guide adoption of a consistent approach to information.



Collaborative, graphical reviews of constructability and commissioning status



Accurately measure data quality. Verify consistency, compliance and completeness of data from EPC.



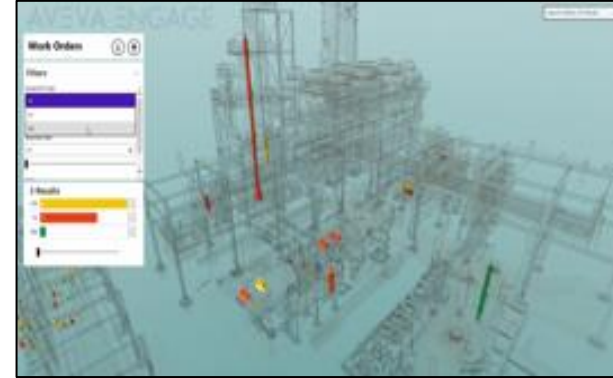
Use the 3D model for conducting e-reviews and apply mark-up remotely.

Example Benefits During OPEX

Use of As-Operated Engineering Data to support analysis for Performance, Safety, Process Issues...



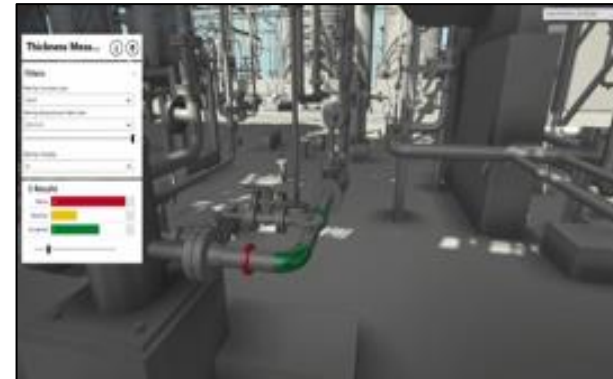
Engineering digital twin is integrated with real time data and with other operations and maintenance tools to see all information in context.



Viewing critical and supercritical equipment in the workorders highlighted on the 3D facility model.



Viewing corrosion loops in the 3D model to support in inspection activity reducing the need for onsite survey.

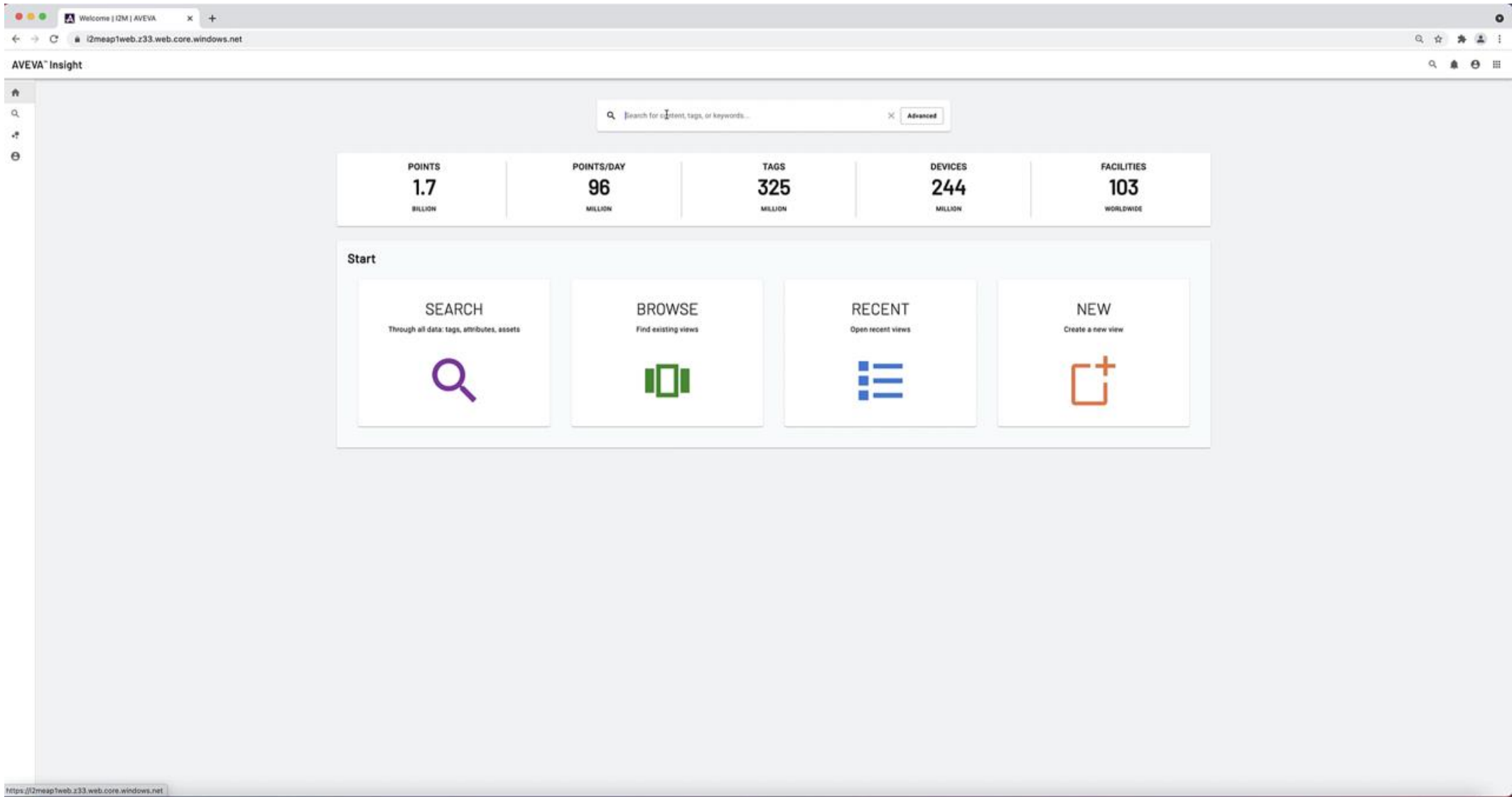


Viewing reflection of thickness measurement in the 3D model.



Where Next ?

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