



AVEVAWORLD

ACCELERATE INDUSTRIAL INTELLIGENCE

AVEVA WORLD MILAN, MAY 2026

Synchronizing Marine Design and Production

AVEVA Asset Lifecycle Management

Valentina Futoryanova

AVEVA

Valentina Futoryanova

Strategic Business Manager

- Mechanical Engineer with Masters in Engineering, Business Administration, Arts
- Fellow of the Institute of Mechanical Engineers and Royal Aeronautical Society, member of the Society of Naval Architects and Marine Engineers
- Over 15 years of Diesel Engine Air Systems design and validation (Cummins / Caterpillar)
- Passion for product development and introduction – Variable Geometry Turbochargers, Diesel engines, Cryogenics and Superconductivity, Hydrogen Fuel Cell, X-ray machines +
- 2 Years at AVEVA – Engineering business area strategy with focus on Marine and Asset Lifecycle Management

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DESIGN



- Concept & Requirements
- 3D Modeling & Simulation
- Engineering & Integration
- Validation & Optimization

BUILD



- Planning & Scheduling
- Manufacturing & Assembly
- Quality & Compliance
- Progress & Delivery

OPERATIONS



- Real-time Monitoring
- Predictive Analytics
- Performance Optimization
- Remote Collaboration

ALM

Asset Lifecycle Management

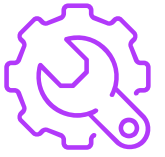
- Single Source of Truth
- Data & Process Integration
- Change & Configuration Management

- Traceability & Auditability
- Collaboration Across Disciplines
- Insights & Continuous Improvement

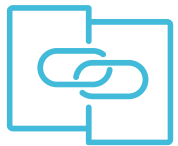
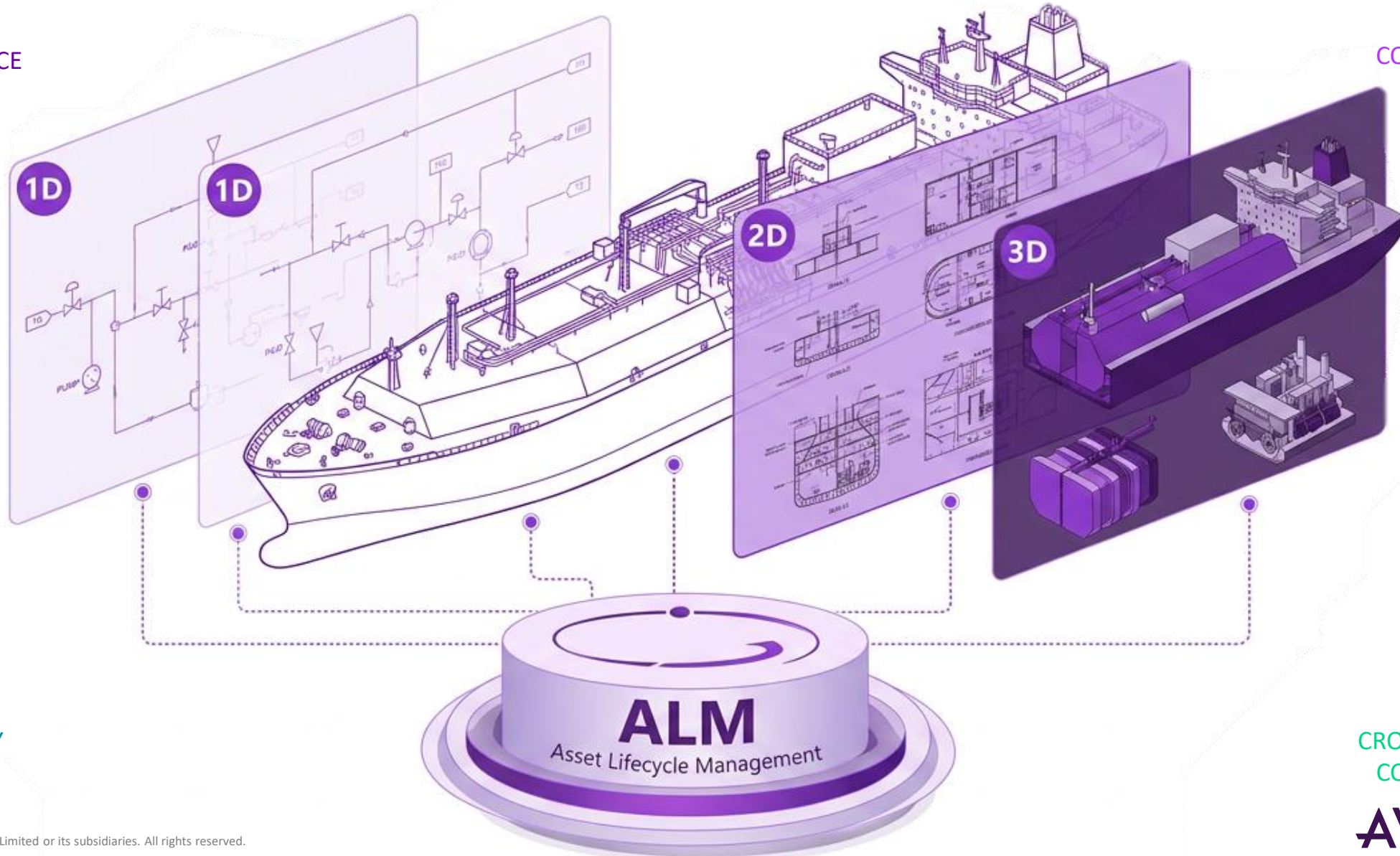
Tag and Data Consistency



SINGLE SOURCE
OF TRUTH



CONFIGURATION
& CHANGE



TRACEABILITY



CROSS-FUNCTIONAL
COLLABORATION

Asset Lifecycle Management

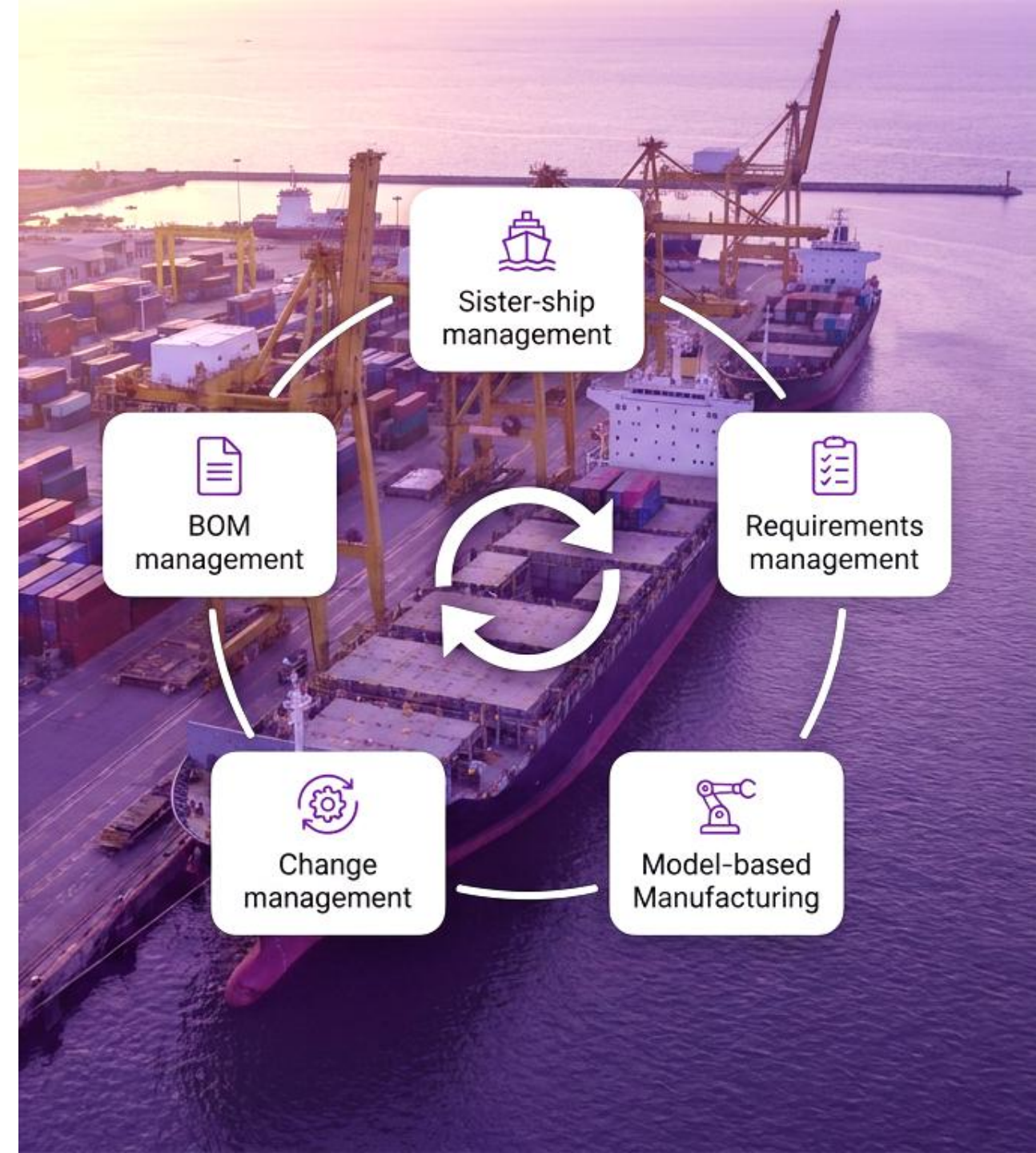
Consistent, connected & trusted asset data

Powered by Aras Innovator – agile PLM digital thread with **AI-rich roadmap**

AVEVA ISM adds standard and data model management capability

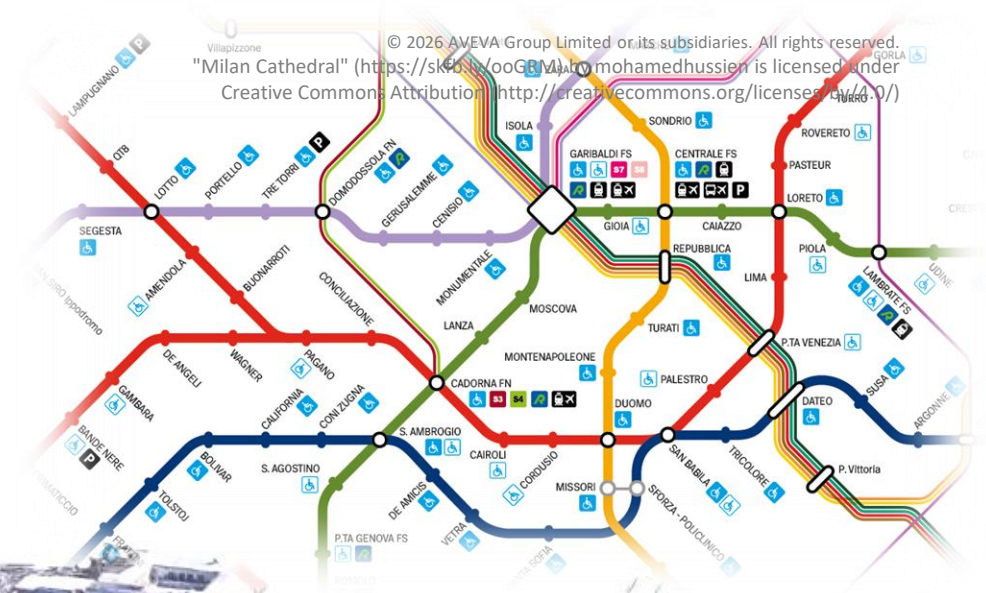
Tag-based data centric lifecycle continuity – workflows, version and revision

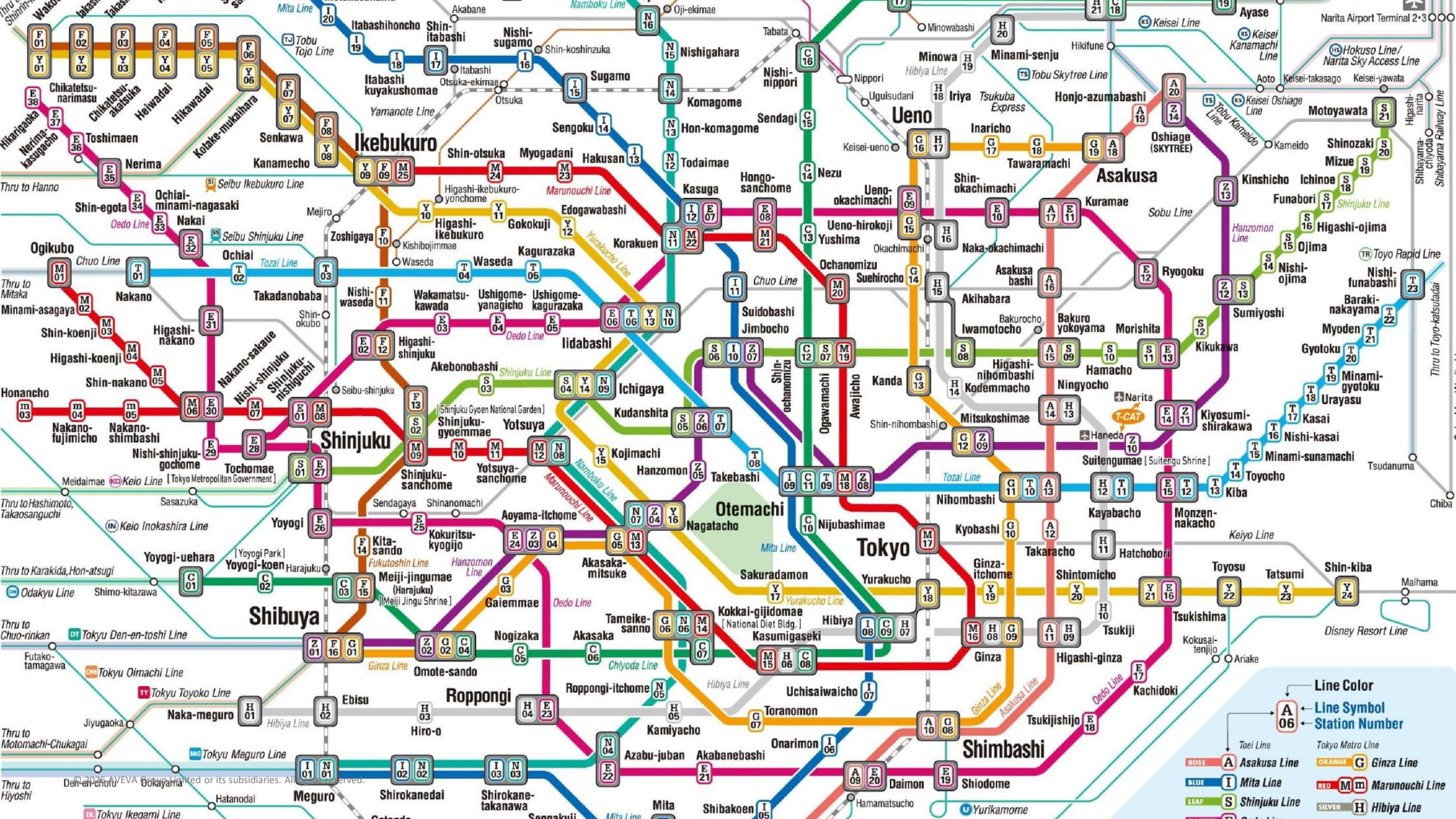
Shipbuilding digital twin – design, build, operate



Let's go to Duomo

6 am to 12:30 am (midnight) every 2-4 minutes within the city centre







AVEVA™ Unified Engineering



Initializing...

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

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AVEVA

AVEVA Marine Design Platform

AVEVA Unified Engineering

1D



Length : 3550 mm
Beam : 2.75 mm
Draft : 0.37 mm

2D



3D

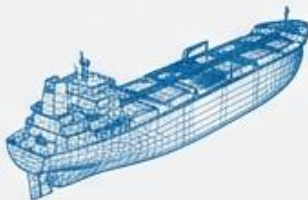
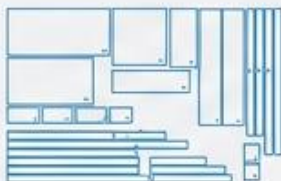
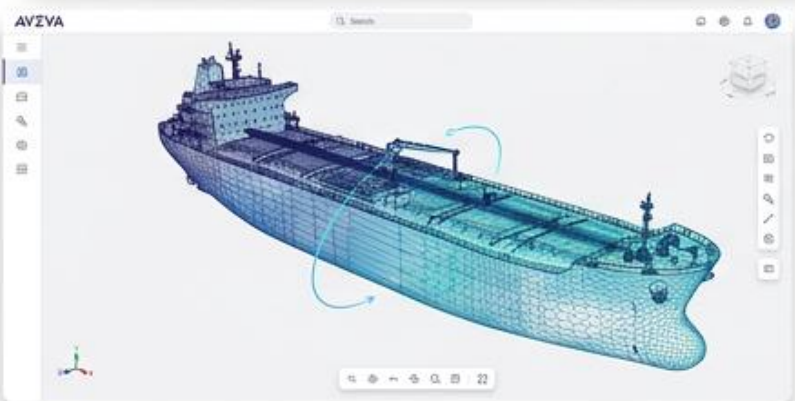


Plate & Bar Nesting



ALM add-ins in UE

AVEVA ALM – Asset Lifecycle Management



AVEVA ERM



3rd party & more



Reports & Charts



AVEVA

Phased development and implementation

AVEVA shipbuilding lifecycle management

DESIGN FOR PRODUCTION 2026

Capturing requirements, managing changes and impact

Engineering, Manufacturing breakdown structures (BOMs), asset management

1D-2D-3D tag consistency and manufacturing planning

Cross-functional collaboration, dynamic 3D viewing, process planning and more

SISTER SHIP MANAGEMENT 2028

Project start-up – automatic project start in UE from a configuration in ALM

Integrated design reuse, sister ship and configuration management

Extended AI use cases, reclassification

Full digital twin integration



Assets



Manage, track, and optimize asset performance throughout their lifecycle.

View Assets

BOMs



Create and manage complex product structures and material lists.

View BOMs

Tags



Organize and locate assets and documents with intelligent tagging.

View Tags

Requirements



Capture, trace, and manage project and product requirements.

View Requirements

Changes



Control and track engineering changes and revision history.

View Changes

Class



Define and manage asset classifications and standards.

View Class

Documents



Access, manage, and control all project and product documentation.

View Documents

My Tasks



View and action your pending workflow tasks and assignments.

View My Tasks

Transmittals



Track and manage document transmittals and distribution records.

View Transmittals

Check Packs



Manage inspection check packs and quality assurance documentation.

View Check Packs

Projects



Plan, execute, and monitor project timelines and deliverables.

View Projects

Process Plans



Define and manage manufacturing process plans and routing sequences.

View Process Plans

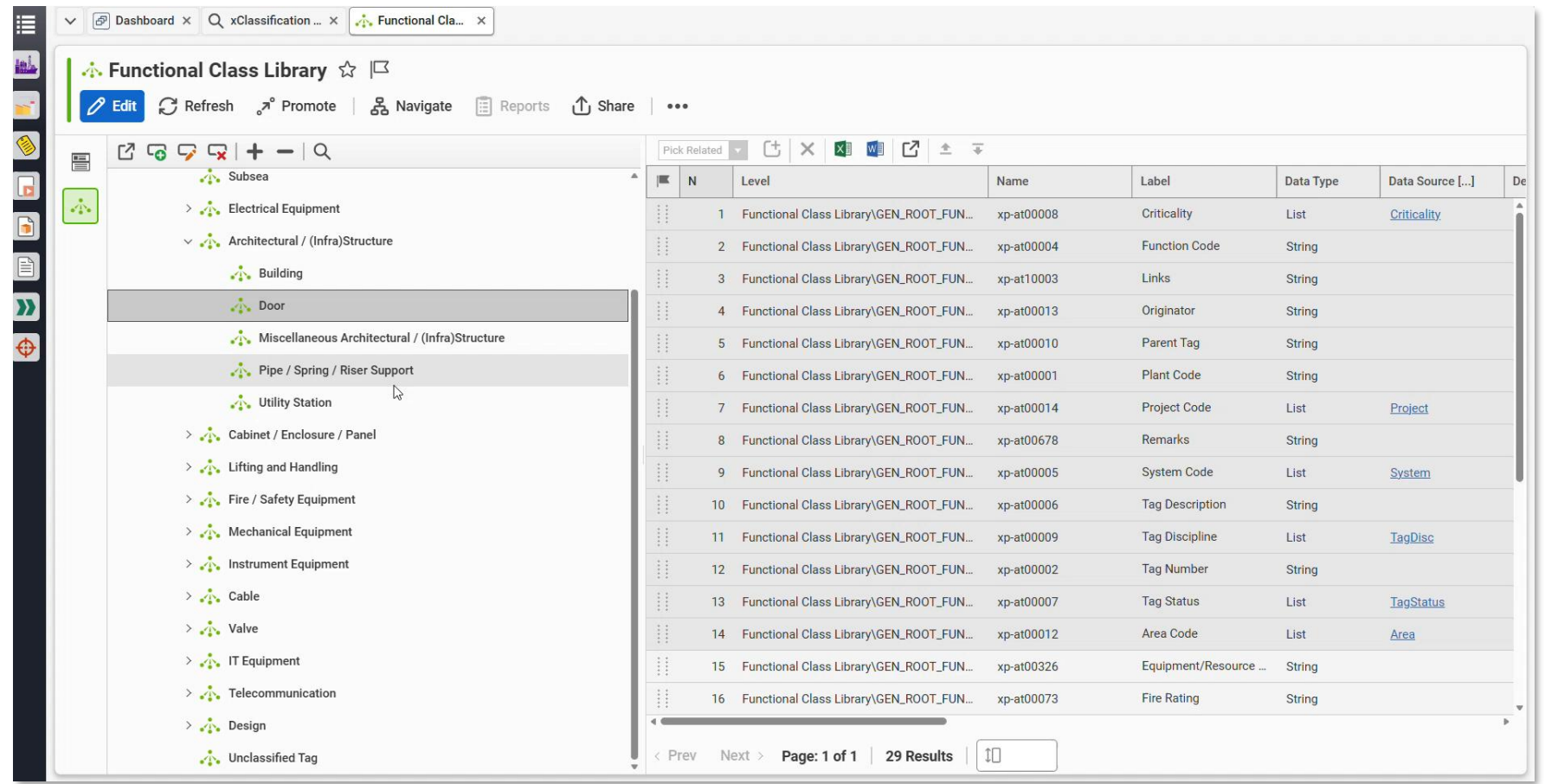
Classifications

AVEVA data model mapped from Unified Engineering to Lifecycle management – data continuity

Marine data model –
extended search
capabilities

Class libraries and
properties

Properties used for
roll-up calculations,
BOM configuration,
search, AI, etc

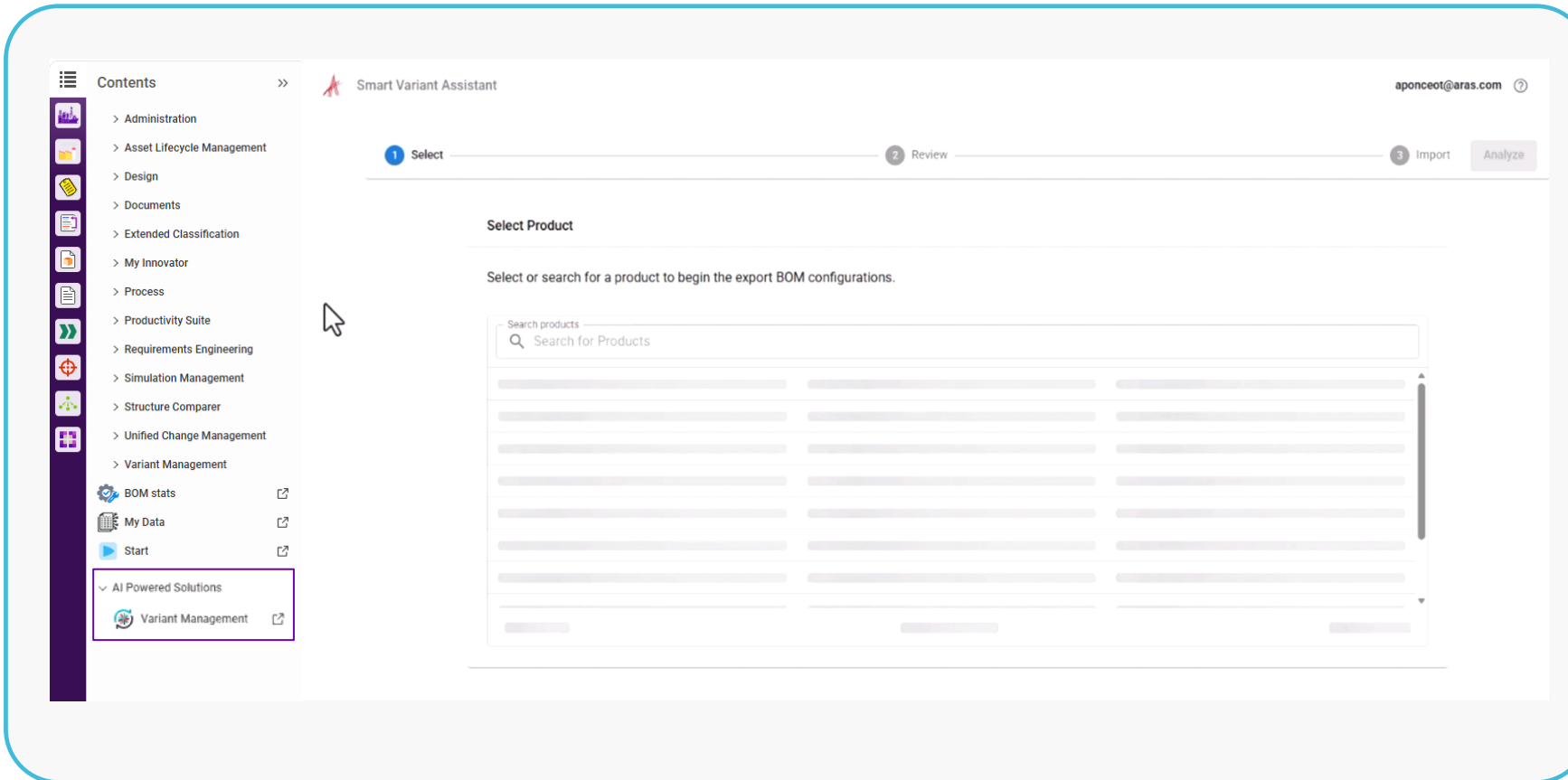


The screenshot displays the AVEVA Functional Class Library interface. On the left, a tree view shows the hierarchy of functional classes, with 'Door' and 'Pipe / Spring / Riser Support' highlighted. On the right, a table lists 16 properties for the selected class, including their names, labels, data types, and data sources.

N	Level	Name	Label	Data Type	Data Source [...]
1	Functional Class Library\GEN_ROOT_FUN...	xp-at00008	Criticality	List	Criticality
2	Functional Class Library\GEN_ROOT_FUN...	xp-at00004	Function Code	String	
3	Functional Class Library\GEN_ROOT_FUN...	xp-at10003	Links	String	
4	Functional Class Library\GEN_ROOT_FUN...	xp-at00013	Originator	String	
5	Functional Class Library\GEN_ROOT_FUN...	xp-at00010	Parent Tag	String	
6	Functional Class Library\GEN_ROOT_FUN...	xp-at00001	Plant Code	String	
7	Functional Class Library\GEN_ROOT_FUN...	xp-at00014	Project Code	List	Project
8	Functional Class Library\GEN_ROOT_FUN...	xp-at00678	Remarks	String	
9	Functional Class Library\GEN_ROOT_FUN...	xp-at00005	System Code	List	System
10	Functional Class Library\GEN_ROOT_FUN...	xp-at00006	Tag Description	String	
11	Functional Class Library\GEN_ROOT_FUN...	xp-at00009	Tag Discipline	List	TagDisc
12	Functional Class Library\GEN_ROOT_FUN...	xp-at00002	Tag Number	String	
13	Functional Class Library\GEN_ROOT_FUN...	xp-at00007	Tag Status	List	TagStatus
14	Functional Class Library\GEN_ROOT_FUN...	xp-at00012	Area Code	List	Area
15	Functional Class Library\GEN_ROOT_FUN...	xp-at00326	Equipment/Resource ...	String	
16	Functional Class Library\GEN_ROOT_FUN...	xp-at00073	Fire Rating	String	

AI Solutions

A range of AI options at different levels for different purpose



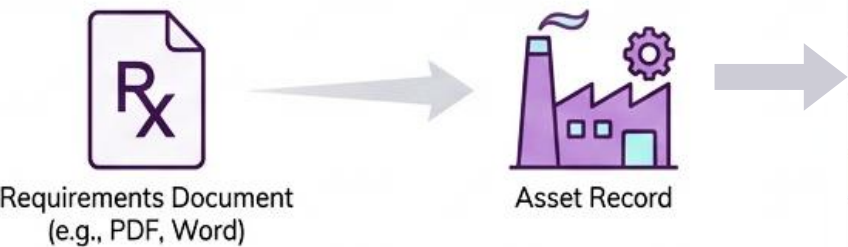
AI agents and assistants in development with partners

- Data import agent
- Knowledge assistant
- Impact analysis, etc
- Variant management

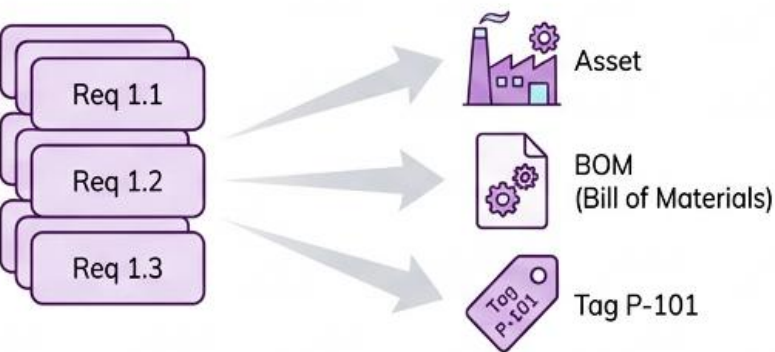
AVEVA AI solutions: UE, Digital Twin Builder, etc

Requirements documents and items

1. Full Requirements Document to Asset



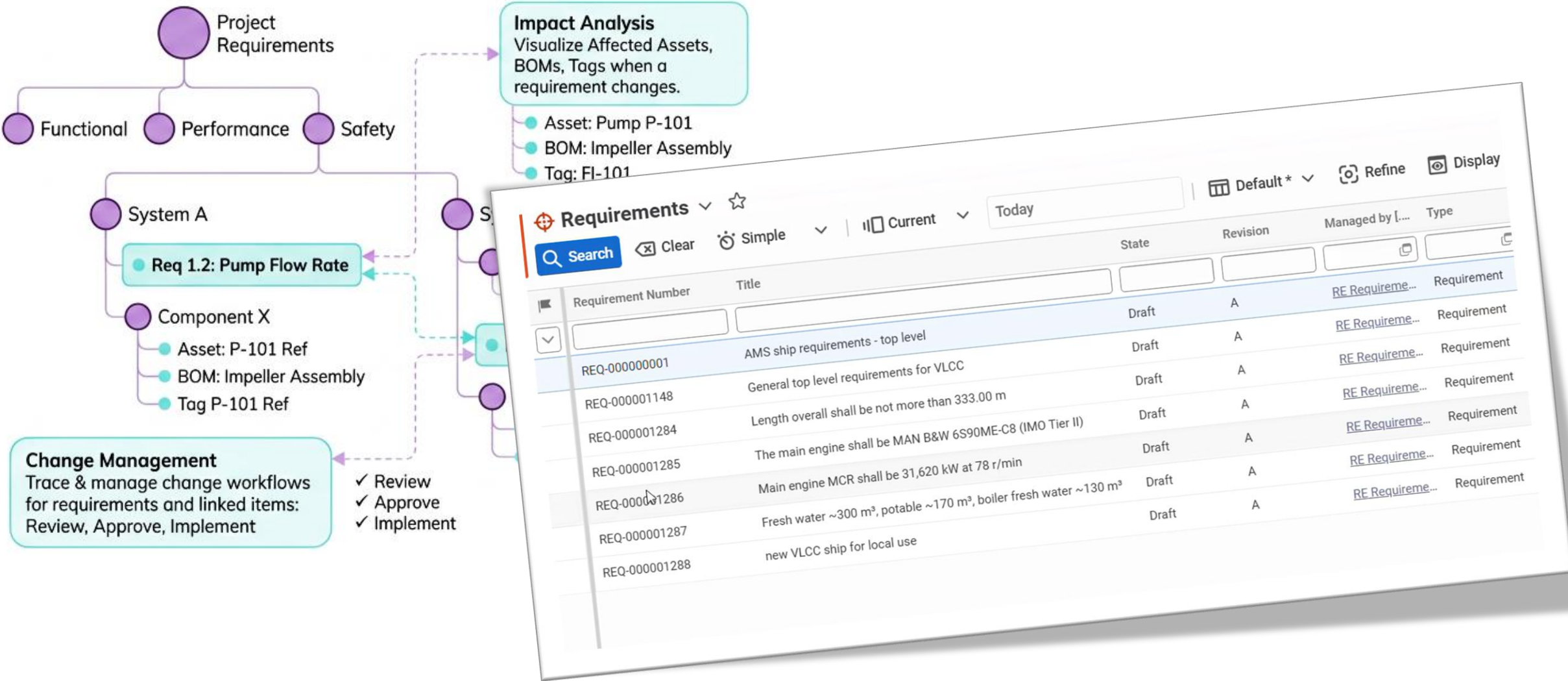
2. Individual Requirement Items to Asset, BOM, Tag Levels



Revised documents or imported items –
linked to Assets, BOMs, Tags, etc..

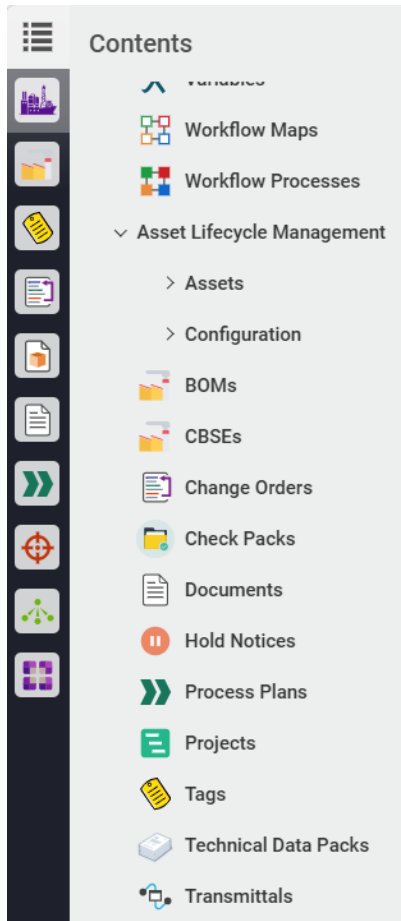
Documents						
Search Clear Simple Current Today Default Refine Display Share						
Document Number	Name	System Rev	Revision	State	Asset [...]	Owner [...]
10201-TY-0005	10201-TY-0005	001		Preliminary	UEALM_project (ASSET-001)	APS Project Team
10201-TY-0007	10201-TY-0007	001		Preliminary	UEALM_project (ASSET-001)	APS Project Team
10201-TY-0014	10201-TY-0014	001		Preliminary	UEALM_project (ASSET-001)	APS Project Team
210_DRN-010	210_DRN-010	001		Preliminary	UEALM_project (ASSET-001)	AMS Project Team
210_FWC-026	210_FWC-026	001		Preliminary	UEALM_project (ASSET-001)	AMS Project Team
211_FWC-026	211_FWC-026	001		Preliminary	UEALM_project (ASSET-001)	AMS Project Team
Comment Response Template	Comment Response Template	001	-	Released		
Cover Sheet Template	Cover Sheet Template	001	-	Released		
DOC-00000001	VLCC specification	001		Preliminary	AMS_project (ASSET-002)	
DOC-00000003	publish UE	001		Preliminary		
DOC-00000004	Generic submarine specification	001		Preliminary	UEALM_project (ASSET-001)	
flangeset-PIPE	flangeset-PIPE	001		Preliminary	UEALM_project (ASSET-001)	AMS Project Team
MDS-Standards-FT06	MDS-Standards-FT06	001		Preliminary	UEALM_project (ASSET-001)	AMS Project Team
OrificePlates/Case10	OrificePlates/Case10	001		Preliminary	UEALM_project (ASSET-001)	APS Project Team
OrificePlates/Case11-3	OrificePlates/Case11-3	001		Preliminary	UEALM_project (ASSET-001)	AMS Project Team

Requirements for impact analysis

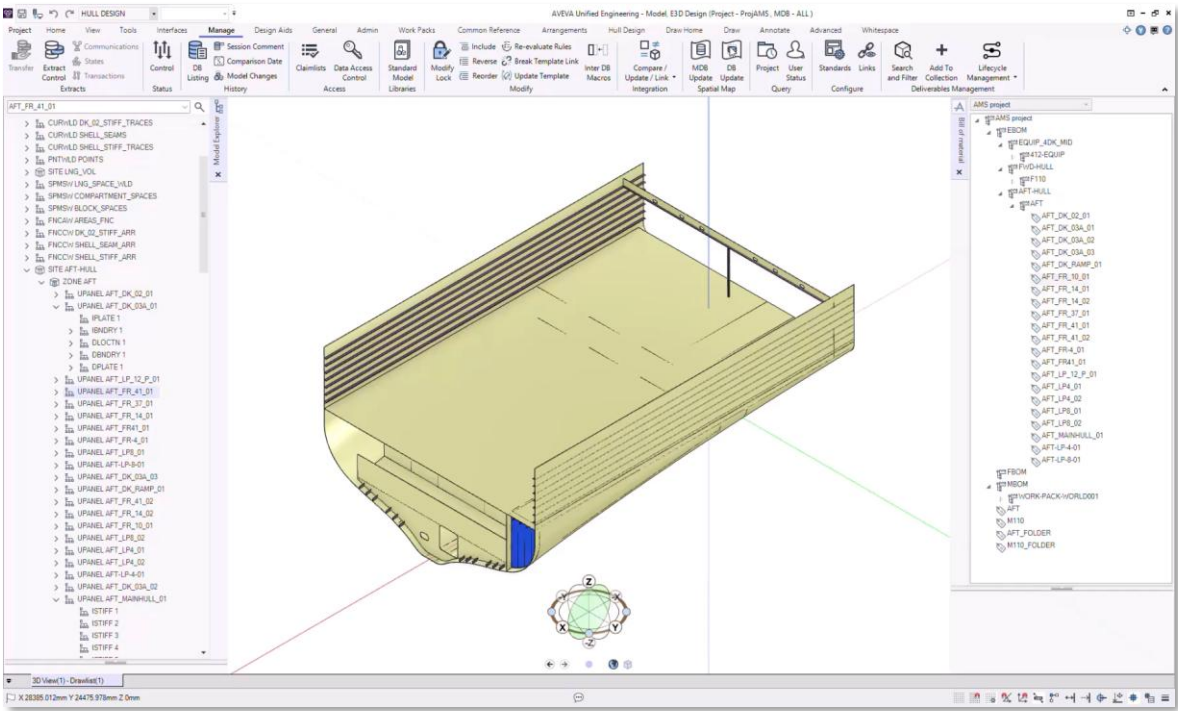


Documents, check-packs, transmittals & handover

Collaboration tools in ALM and add-ins and notifications in UE

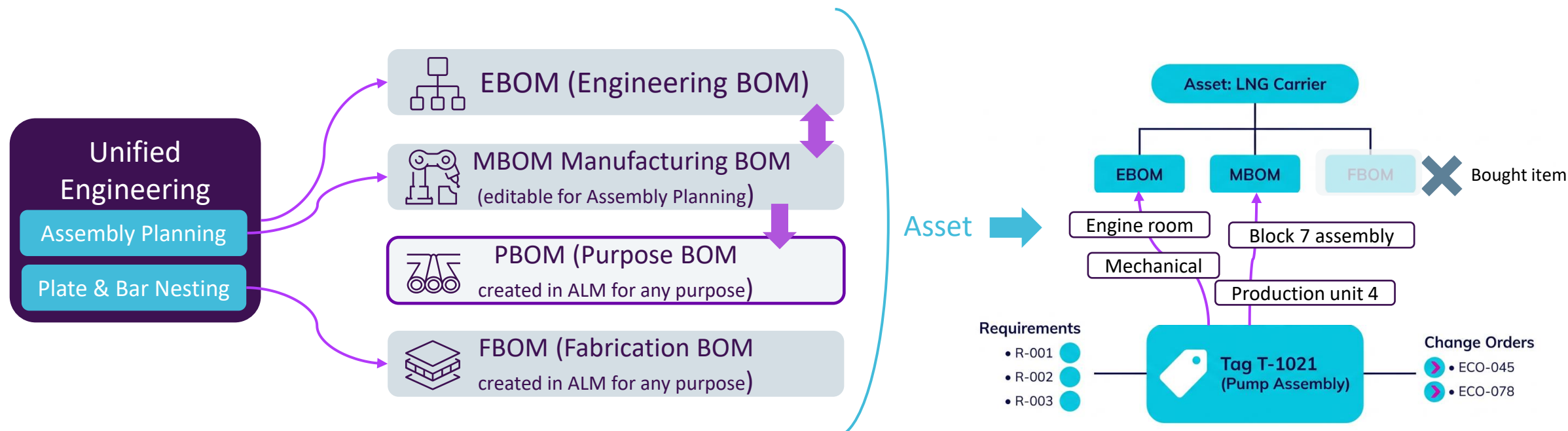


- Document class defined
- Deliverables management capabilities
- ALM to ALM synch for handover
- Full asset information linked through deliverables and searchable by class, handover package can be defined against the asset
- AIM connectivity

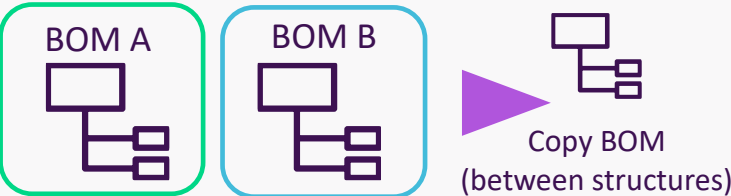


Transmittals							
Search Clear Simple Default * Refine Display Share New Transmittal							
	Transmittal Number	Type	State	Reference Number	Asset [...]	Owner [...]	Issued To [...]

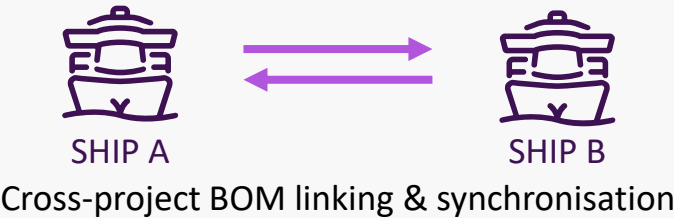
Bills of Material & Relationships



BOM FUNCTIONALITY



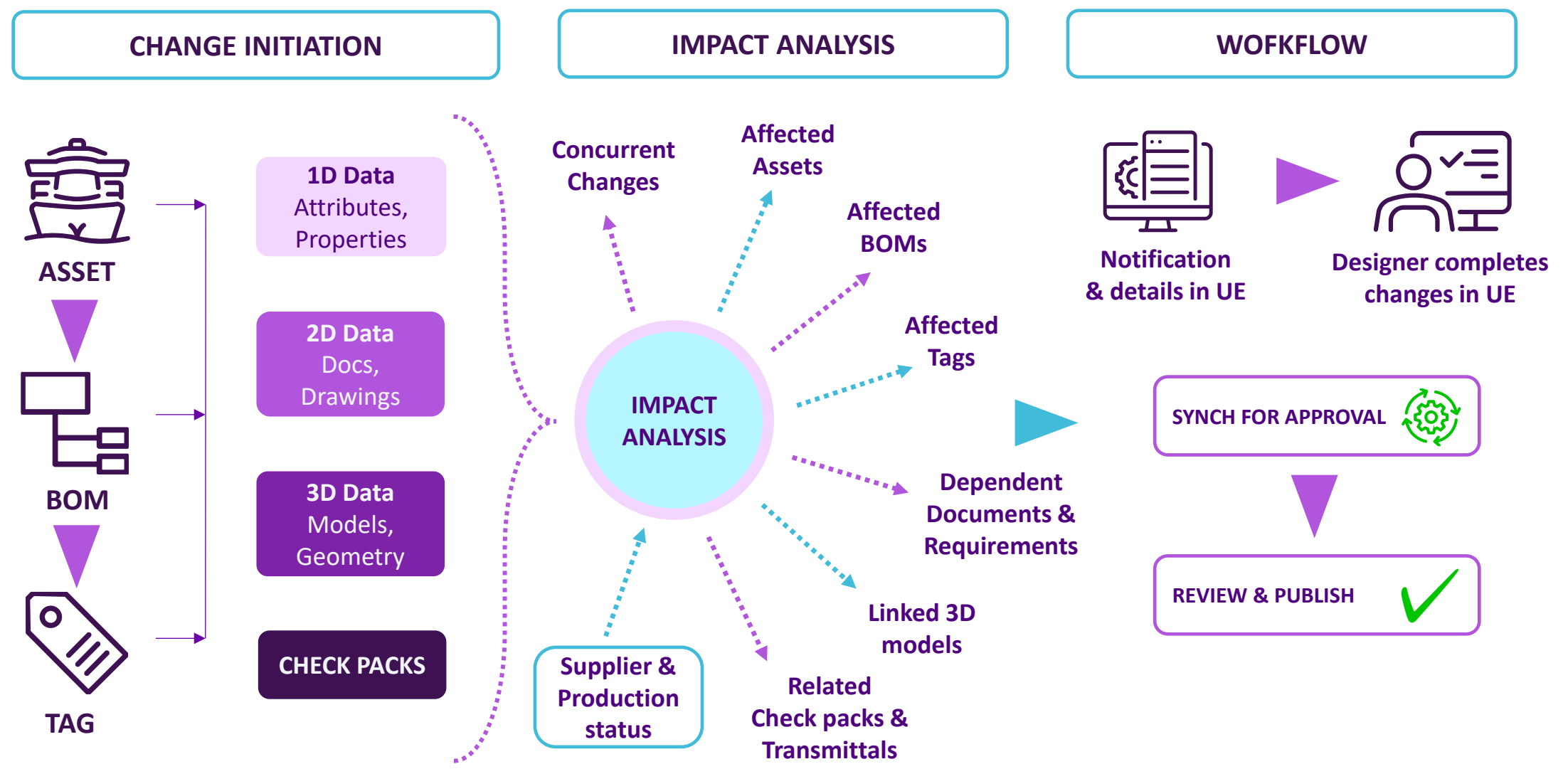
LINKS BETWEEN SISTER SHIPS



LINKS BETWEEN ITEMS

Searchable relationships make impact analysis, tracing of assets, BOMs, Tags and other items possible

Managing Changes

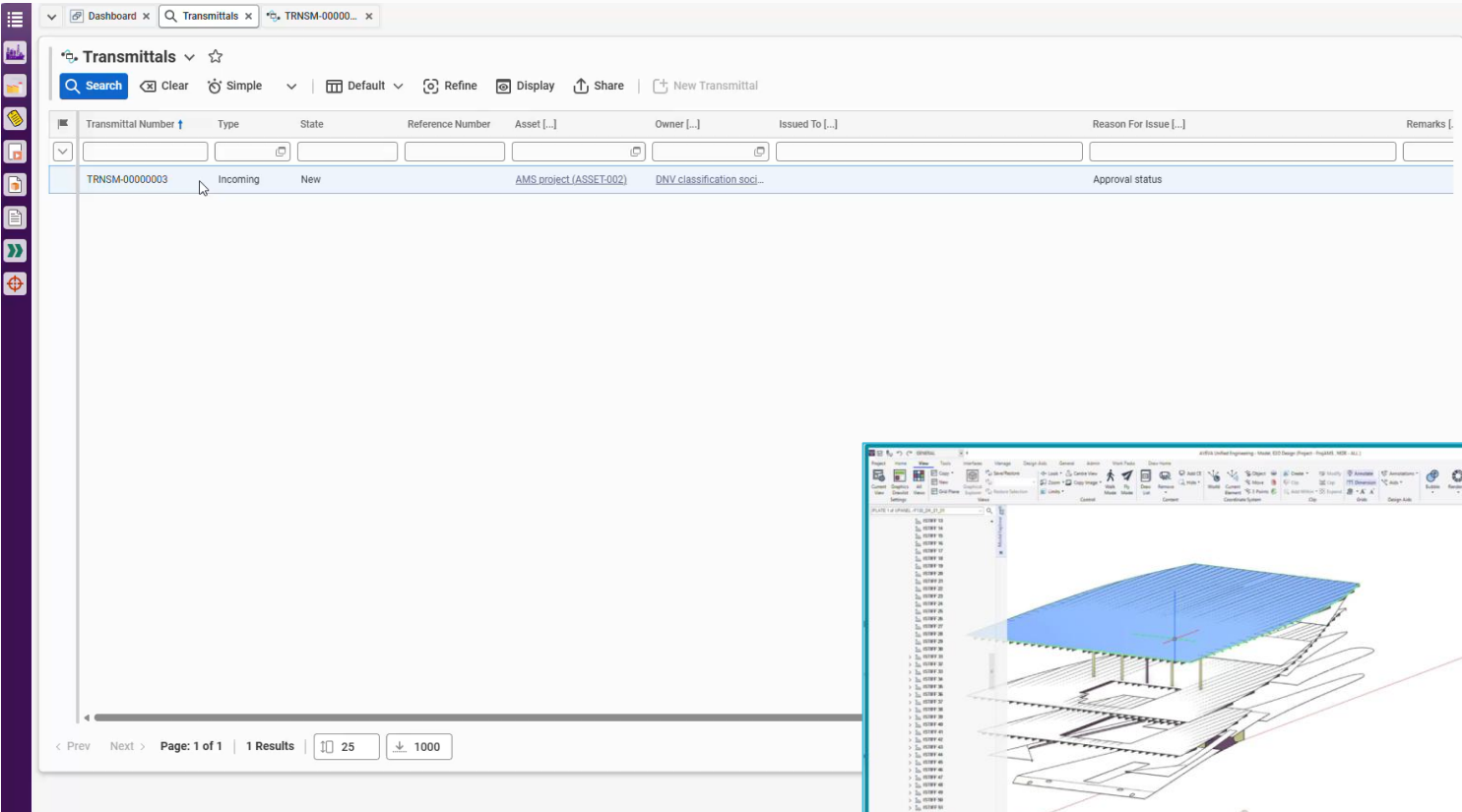


Now we make a change

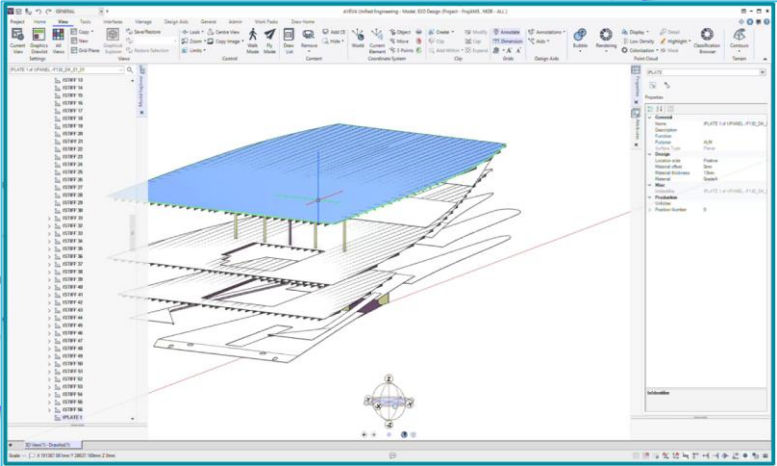
AVEVA

Classification society feedback

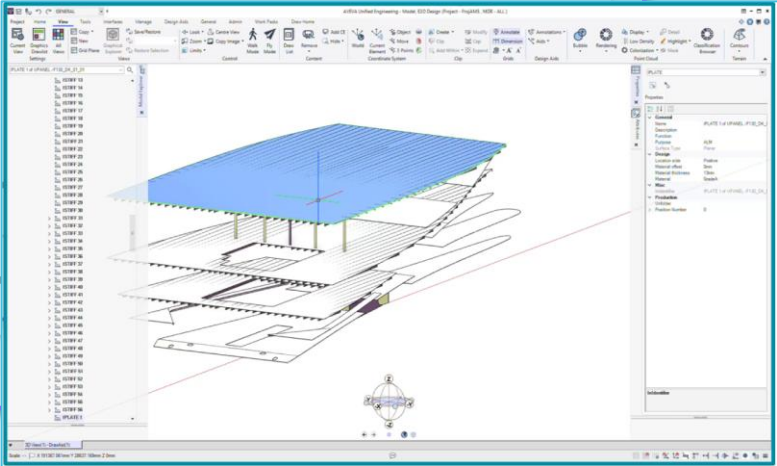
Transmittal received into ALM system



Incoming transmittal from DNV



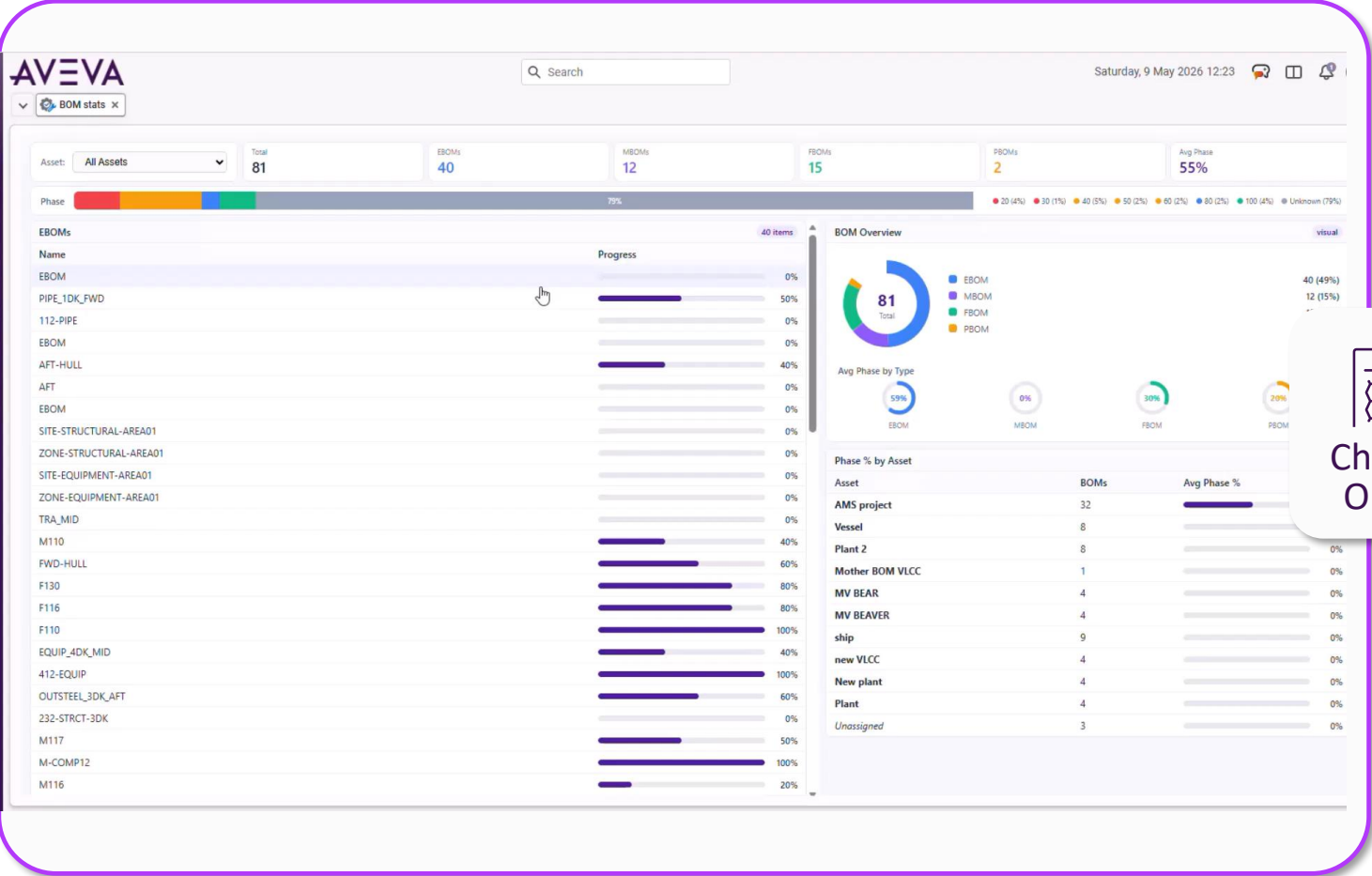
Forward deck IPLATE flagged



Thickness non-compliance identified

Change request and workflow

Change order raised to address the issue



Change Order created

Plate 13mm -> 15mm required



Approval workflow

Publish / Synchronise - > Complete

Plate update in Unified Engineering and resubmitted for review

Design updated in
Unified Engineering

Transmittal out
for DNV approval



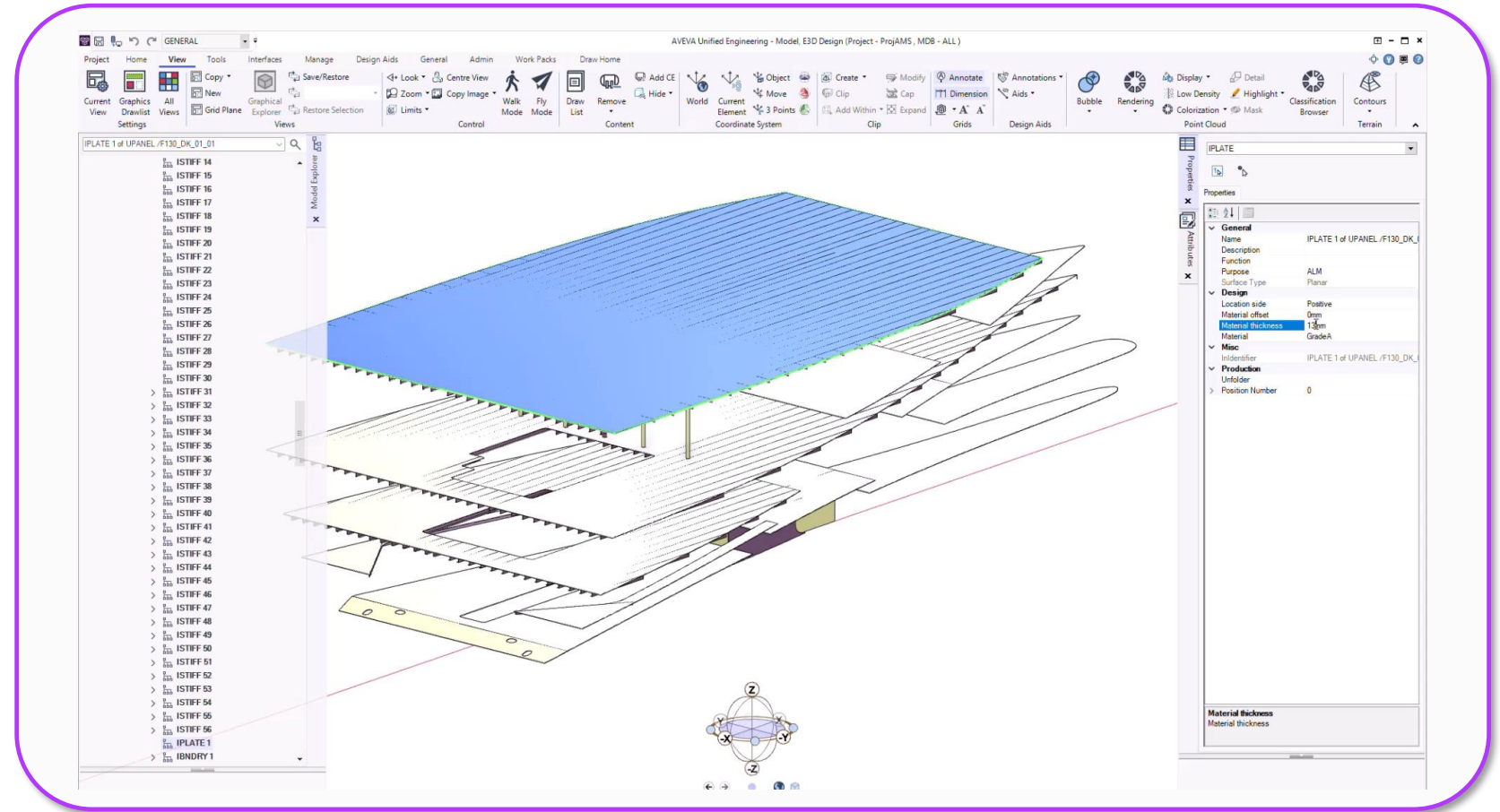
DNV Review



Internal Review

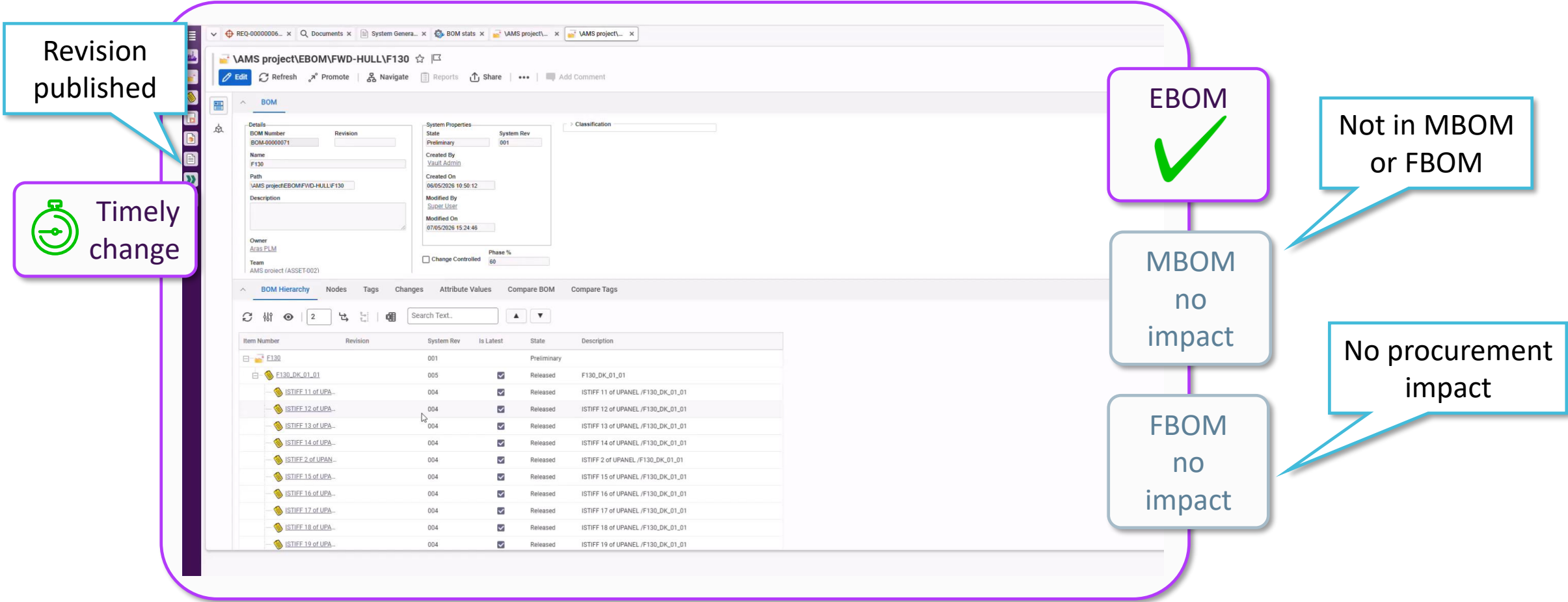


Internal review
triggered



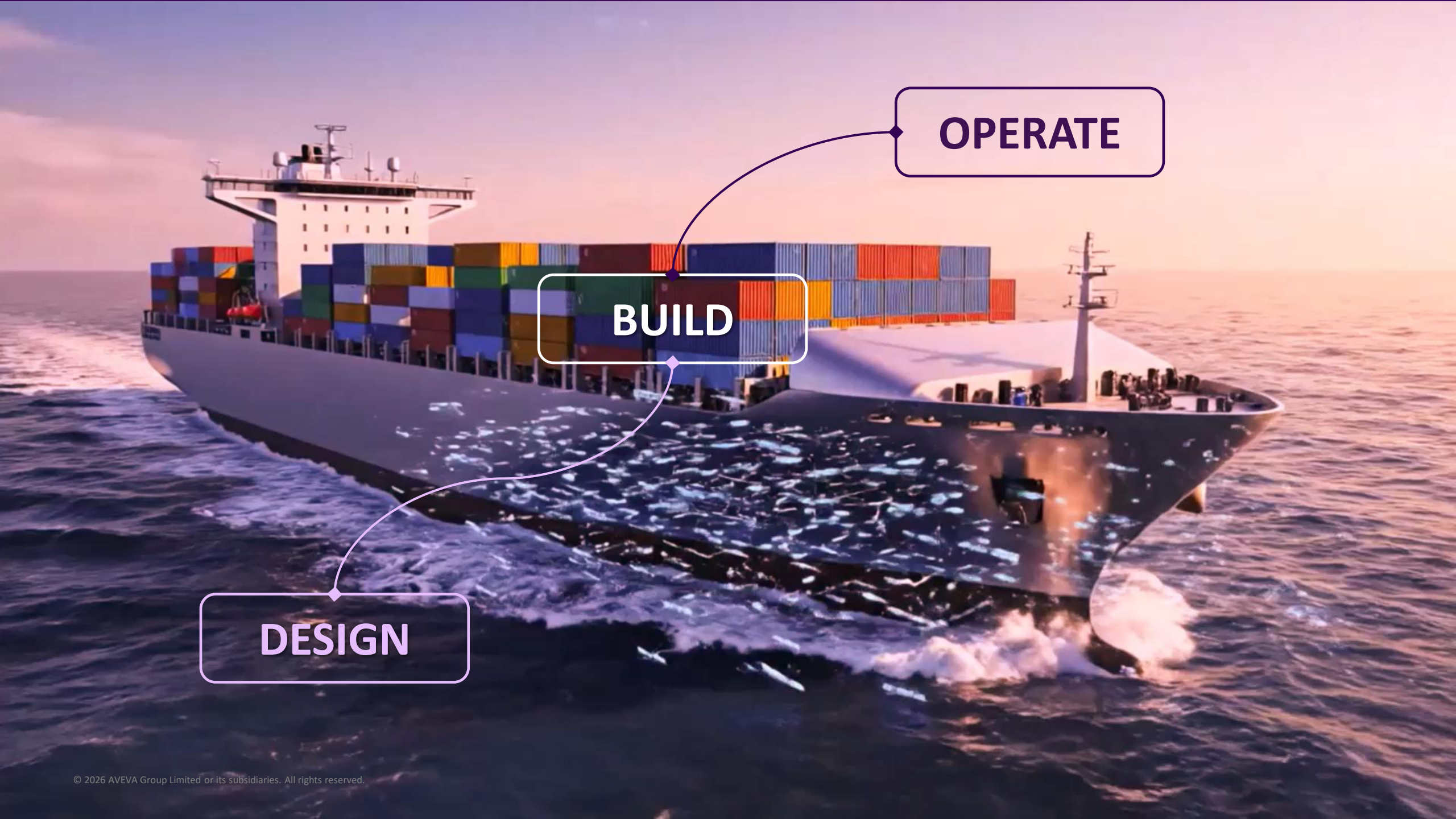
Change approved and complete

New revision published – downstream impact checked and contained



Full speed

AVEVA



DESIGN

BUILD

OPERATE

Sessions of Interest

Architecting Digital Twins on CONNECT: AI-Assisted Twin Building at Scale

Andy Davidson and Steve Parvin

Wednesday, May 20 @ 15:30:16:00

Amber 2 - Level 2

Data model + AI

Delivering intelligent data integrations, Edge DataOps and Edge AI with flows in CONNECT

Chris Felts and Martin Thunman

Wednesday, May 20 @ 16.15-16:45

Amber 2 - Level 2

Integrations

Accelerating 3D Design with embedded Machine Learning in AVEVA Unified Engineering

Stephen Burrows

Thursday, May 21 @ 10.45-11:45

Auditorium Level 3

AI + UE

TECHNICAL
SESSIONS

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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.

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

ABOUT AVEVA

AVEVA is a world leader in industrial software, providing engineering and operational solutions across multiple industries, including oil and gas, chemical, pharmaceutical, power and utilities, marine, renewables, and food and beverage. Our agnostic and open architecture helps organizations design, build, operate, maintain and optimize the complete lifecycle of complex industrial assets, from production plants and offshore platforms to manufactured consumer goods.

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. The company is headquartered in Cambridge, UK.

Learn more at www.aveva.com