# Transforming to an integrated approach to asset lifecycle management

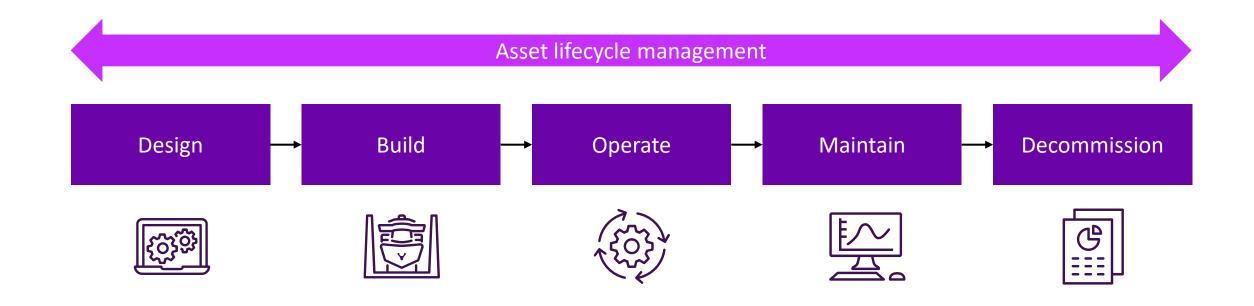
Chris Cran – Programme Director - ALM







# A detailed digital thread through the entire asset lifecycle





## CONNECT

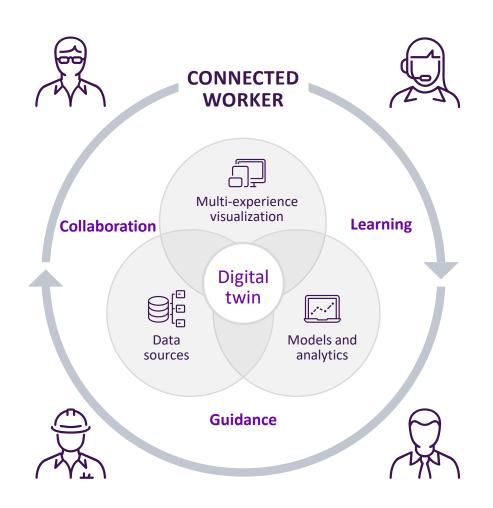
### Industrial intelligence for the connected industrial economy

Hilita Seamless experience **Applications** Ecosystem Design & build Optimize Operate and analytics of developers and partners Engineering information Operations information Information **Assets** and devices



# To empower the connected worker

With a comprehensive digital twin across engineering and operations

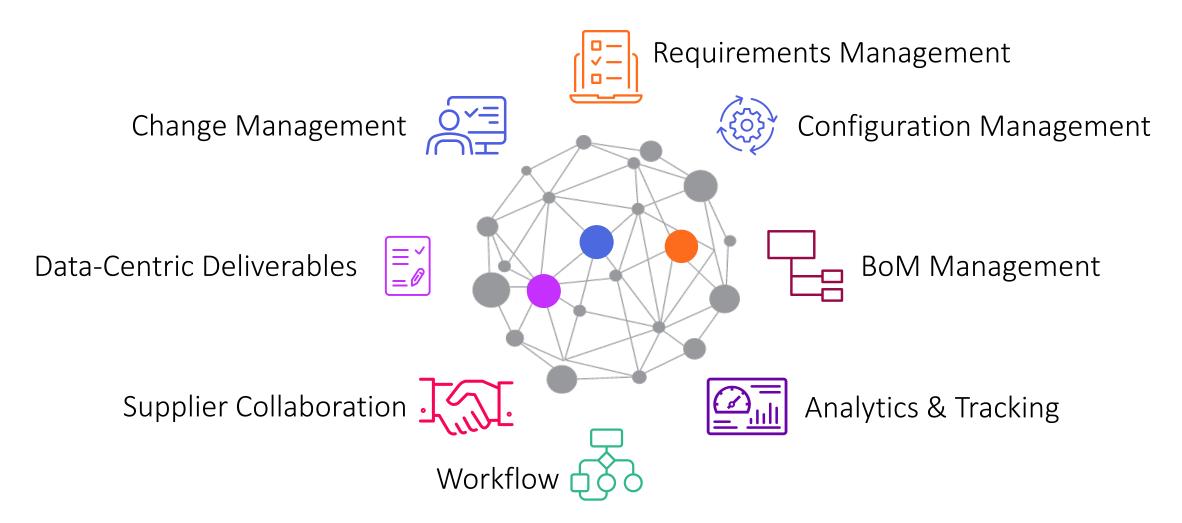




# Asset Lifecycle Management

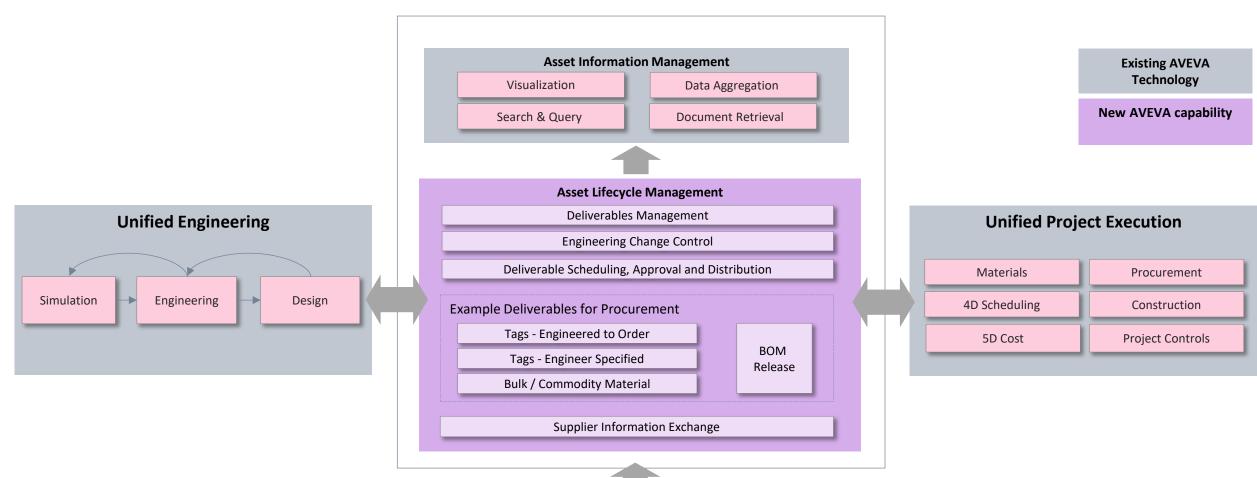


# Asset Lifecycle Management





# **ALM Strategy**



# AVEVA™ Unified Engineering

The first release of Asset lifecycle management builds on AVEVA's established engineering products to create additional value for our customers

Next-gen P&ID Out-of-thebox (OOTB) config and content

Enhanced integration services

Asset
lifecycle
management
(ALM)

AVEVA™ Unified Engineering Single installation package

Communities> Crossaccountcollaboration

Advanced real-time collaboration

CONNECT evolution



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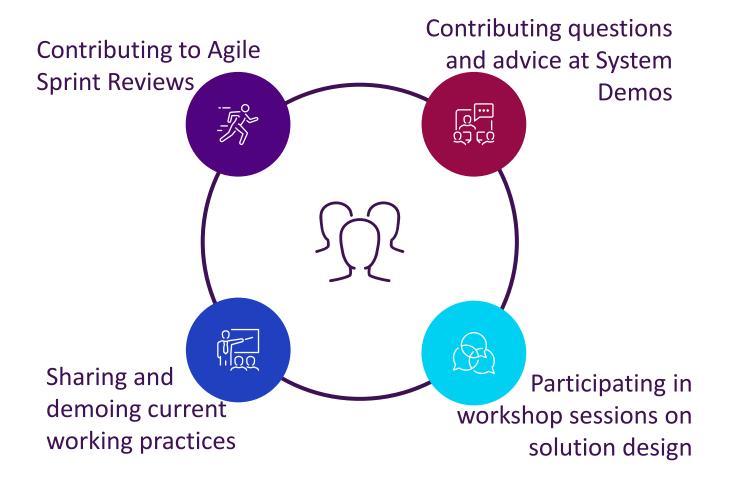


#### ASSET LIFECYCLE MANAGEMENT

# AVEVA Deliverables Management



## Customer Lighthouse Programme









# Data-centric Deliverables Management

### Going beyond documents



Objects



Data



Schematics



Data Sheets



Collaboration



Compliance



Quality



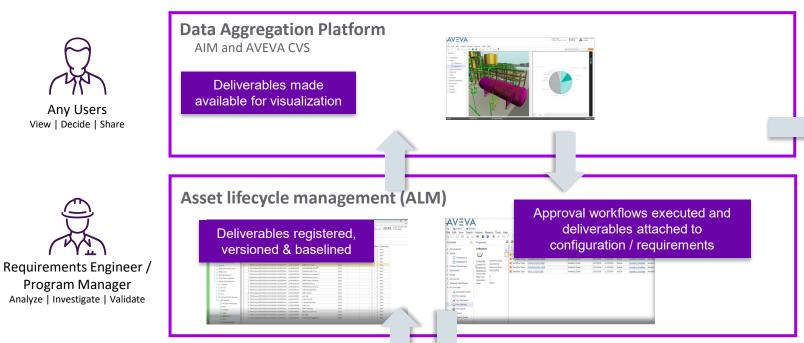
Analytics & Tracking

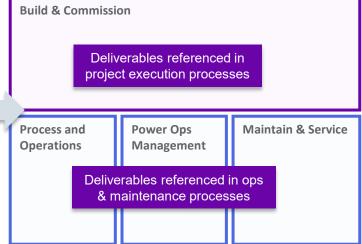


# AVEVA™ Deliverables Management

#### Workflow









Program Manager



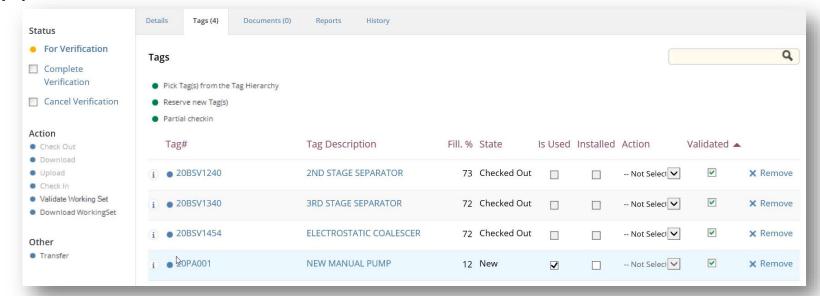


## AVEVA™ Deliverables Management

#### Initiating change at the source of the project data

- Capture data-centric project deliverables
- Flexible approval workflows no need to lock-out a full assembly part number
  - Flexible data model
- Direct access through AVEVA™ Unified Engineering
  - Integrate with Status
     Control

 Baseline and version engineering objects, data, schematics and documents

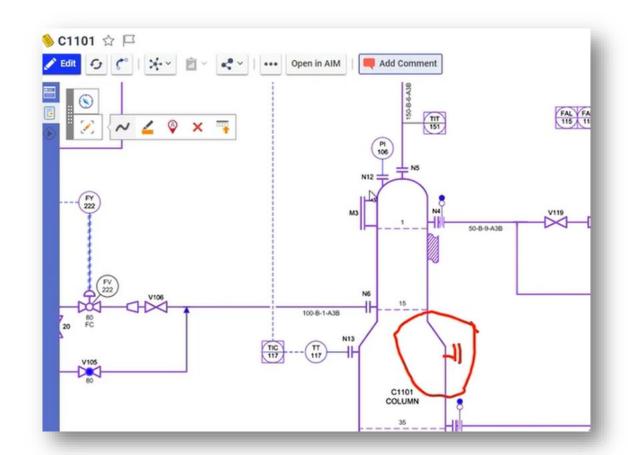




### AVEVA™ Deliverables Management

#### Initiating change at the source of the project data

- Accelerates turnaround with rapid feedback loops and real-time discussion threads
- Intelligent commenting and markup on objects (basic change control), schematics, and documents
- External feedback capability
- API's provide access to released data for the entire asset lifecycle (commissioning, operations, maintenance etc.)

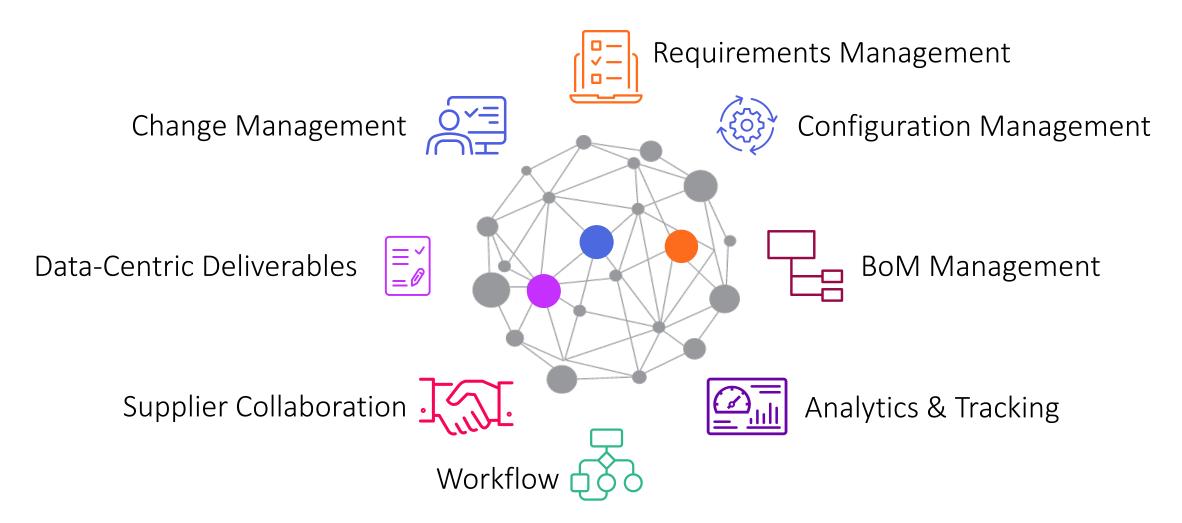




# Roadmap



# Asset Lifecycle Management

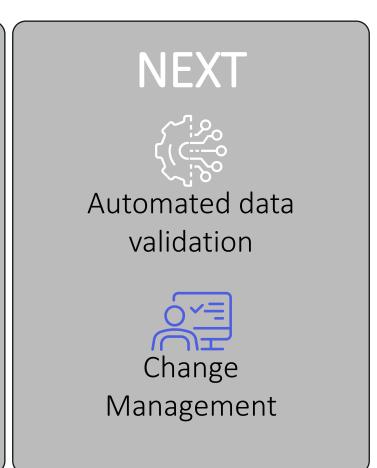


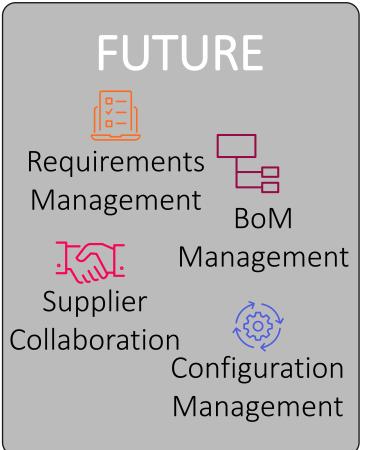


### Asset Lifecycle Management Capabilities

#### **Time Horizons**







### Data Validation as a Service



### Application Programming Interface (API)

Designed from the ground up as an Application Programming Interface (API).

VaaS can be embedded in other AVEVA Applications, AVEVA Partner Solutions, or 3<sup>rd</sup> Party offerings.



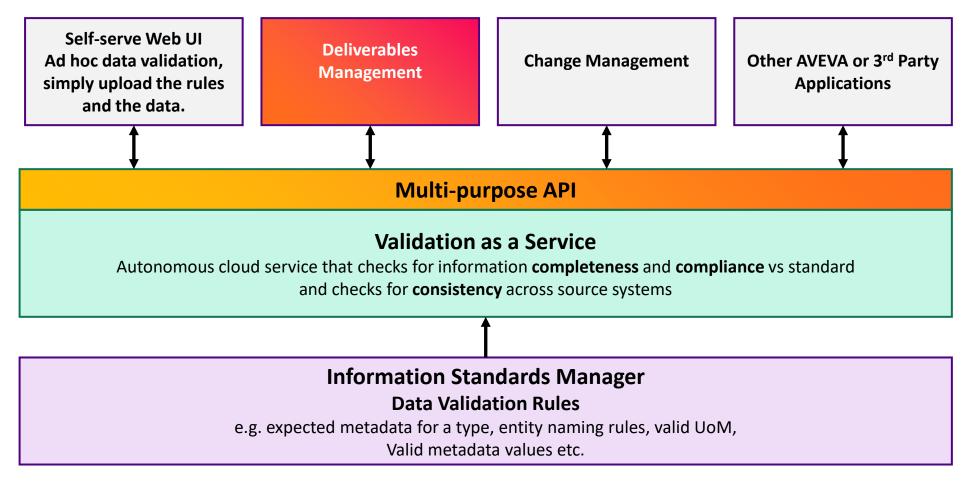
### Self-service Web User Interface

A cloud native web portal for users to perform manual or adhoc validations of data. For example, for internal progress reporting, in preparation for hand over to a customer, or to assess the quality and integrity of data received from a supplier.



### Validation as a Service in ALM

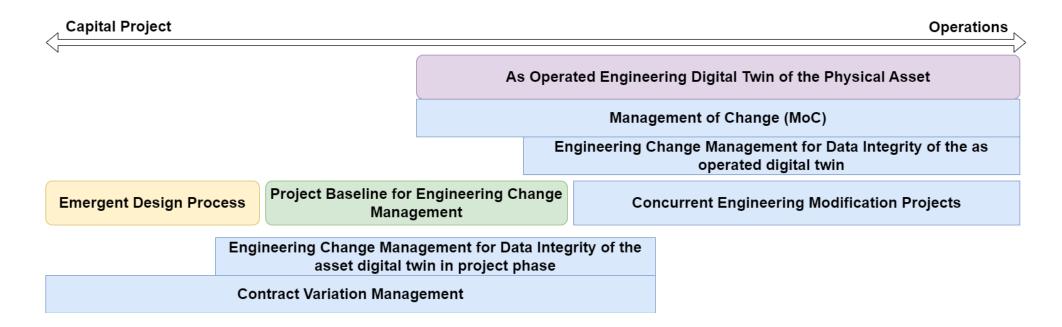
Instant and comprehensive data validation support for multiple scenarios





# Change Management

"Manage changes against an established baseline to ensure data integrity"





# Lighthouse Program

- Program duration 9 months
- Program Engagement Fee for 3-4 Program Partners
  - EPC
  - Nuclear
  - Marine
- In partnership, AVEVA's prioritised investment towards digital transformation in conjunction with Aras
  - AVEVA Aras Business Unit (AABU)
- Regional Executive Sponsor
- Early access to Software and Solutions
  - Access to AABU Scrum Teams on each iteration
  - Allocation a Lighthouse CSM
- Ability to guide
  - Development
  - Roadmaps
  - Go To Market Approach
- Result
  - PoC Use case assessment and proof points
  - MVP for Deliverables Management



# Open Innovation – Lighthouse Programme VA Aras

- Always been customer-driven
  - Traditionally, innovation led by AVEVA
- Transforming to customer-centred
  - Innovation shared by AVEVA and Customers, together
  - It's not what we do, it's what you adopt which is our imperative
  - Open Innovation
- We see you as the most important source of innovation
  - Experiences and needs drive new services & solutions
- A cross-section of segments to expand solution horizon
  - Ensure insights represent broad customer base
- More than market research, integrated into the innovation process via
  - Workshops
  - Testing of concepts
  - Accelerated Development
- Anchored on 3 principles:
  - Customer-centred
  - Rapid Iterative Process
  - Quality Driven



# Lighthouse options for engagement

- Co-development (as with McDermott)
  - High contact high commitment
  - Joining fee
  - Active participant in Agile Ceremonies (Sprint Reviews & System Demos)
  - Sharing existing processes, procedures, data, demoing current tools
  - Design workshops
  - Direct access to R&D and Portfolio
  - A voice in prioritisation and Roadmap
  - Hands-on access to in-development sandbox and prerelease software

- Contributors (e.g. KBR, SOFEC)
  - Ad-hoc or limited scope engagements
  - No joining fee
  - Sharing existing processes, procedures, data, demoing current tools
  - Feedback at design reviews
  - Visibility on Roadmap and priorities
  - Access to pre-release software / 'beta' testing



### **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.



# And please visit us on the Digital Twin booth in the Innovation Zone to learn more and see a demo...

# Thank you!



### **Recommended Sessions**

Aras: Rethinking Digital Thread for Product and Asset Lifecycle Management

Aras

Wednesday, October 16 @ 10:45 am Room 380

Capital project synergy: EPCs and OOs in the energy transition

Engineering Roundtable Discussion
Thursday, October 17 @10 am
Room 350



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.

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#### **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 Al-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

