Over 95% of major projects are delayed or over budget.

Just 31%
come within 10% of cost baselines

Accenture
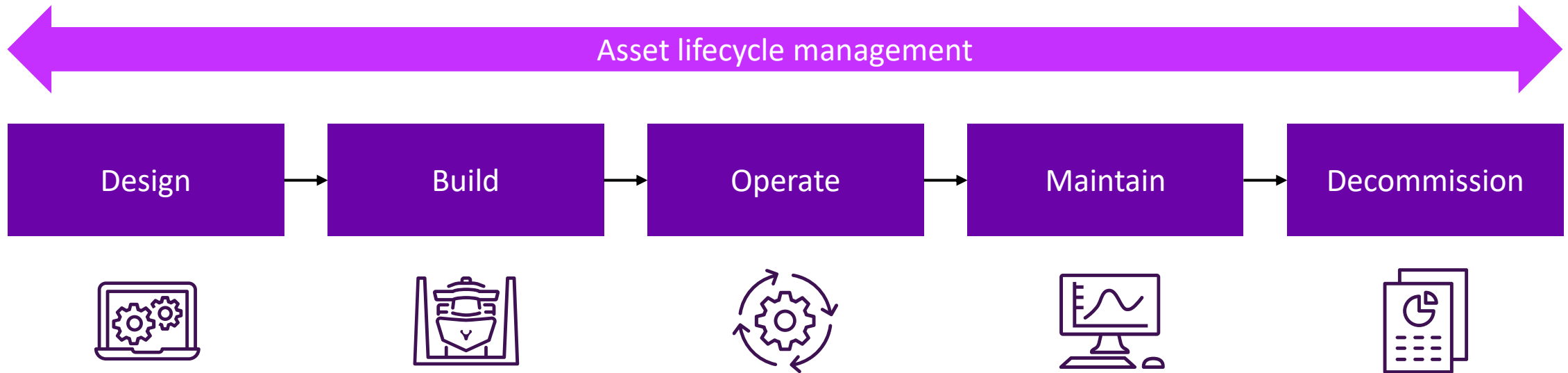
Only 25%
come within 10% of original deadlines

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"Complex projects generate huge amounts of data… Management teams need a **better way** to access and interpret all their data."

McKinsey & Company

AVEVA

A detailed digital thread through the *entire* asset lifecycle

Asset lifecycle management

Design	Build	Operate	Maintain	Decommission

AVEVA

CONNECT

Industrial intelligence for the connected industrial economy

Seamless experience

Applications and analytics

Design & build | Operate | Optimize

Ecosystem of developers and partners
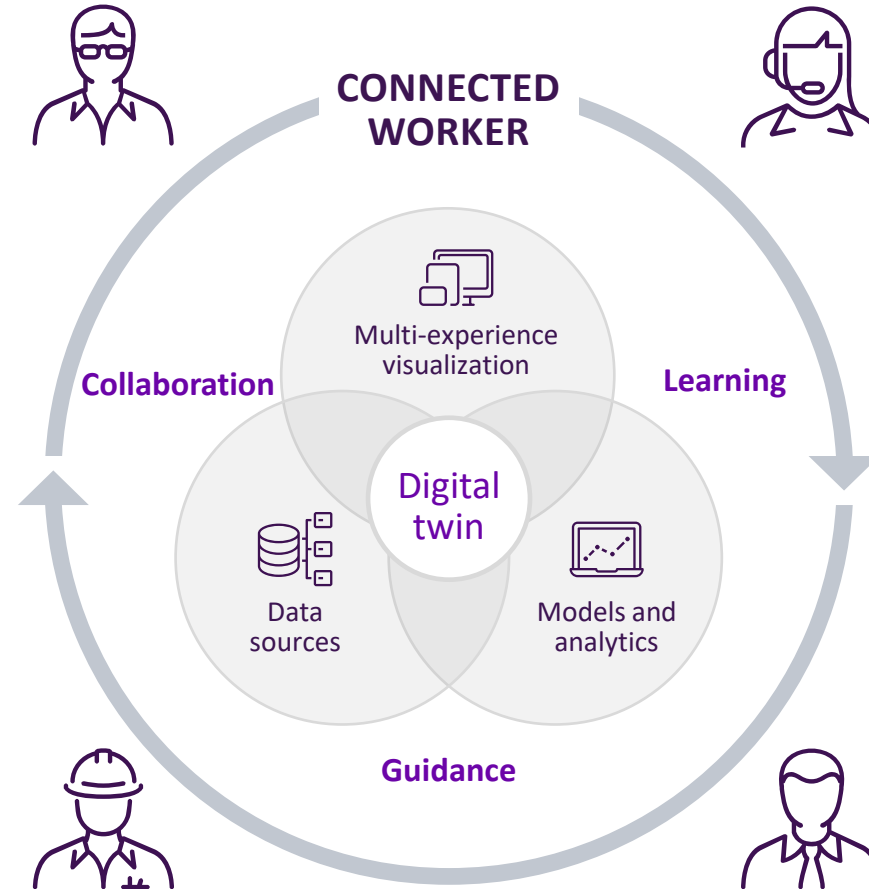
Information

Engineering information ⟷ Operations information

Assets and devices

AVEVA

To empower the connected worker

With a comprehensive digital twin across engineering and operations

Asset lifecycle management
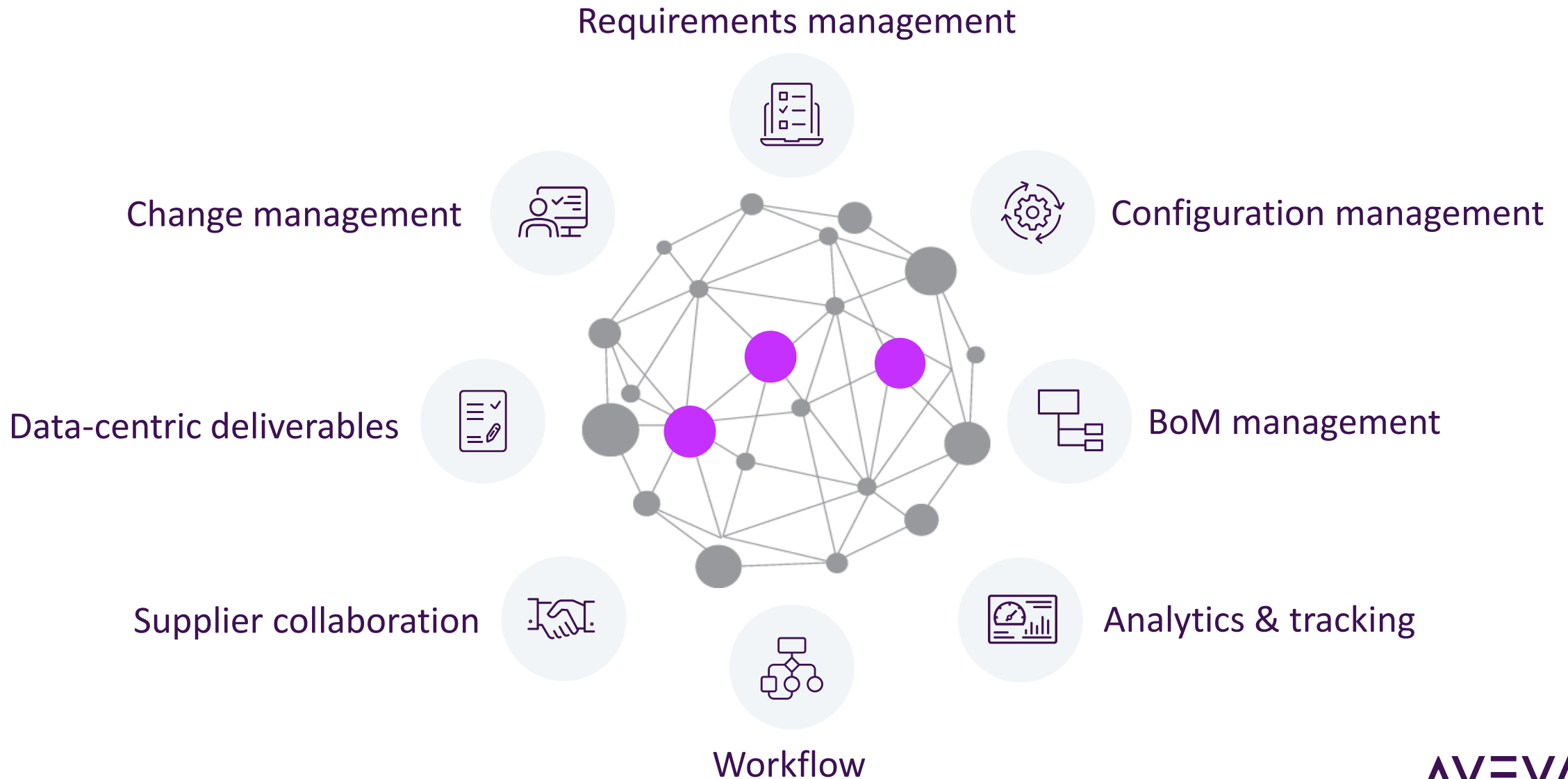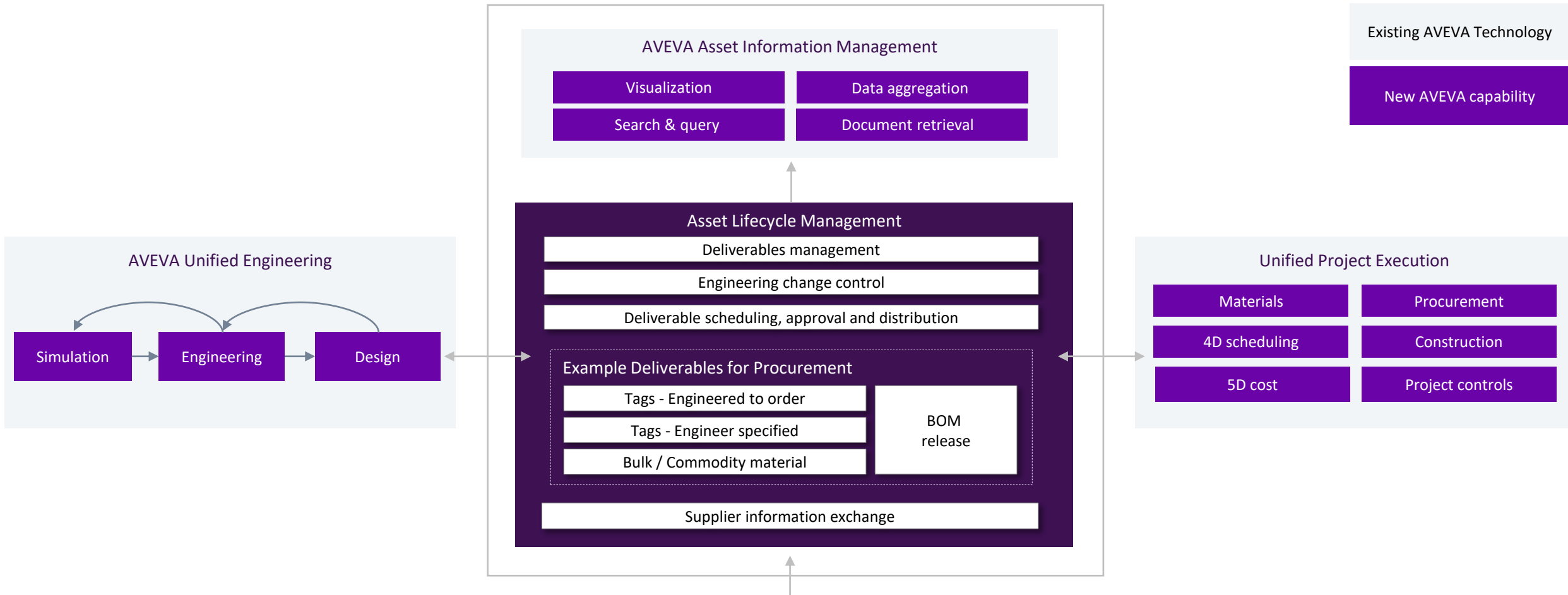
Asset lifecycle management

Requirements management

Change management

Configuration management

Data-centric deliverables

BoM management

Supplier collaboration

Analytics & tracking

Workflow

AVEVA

ALML Strategy

AVEVA Asset Information Management

| Visualization | Data aggregation |
| Search & query | Document retrieval |

Existing AVEVA Technology

New AVEVA capability

AVEVA Unified Engineering

Simulation → Engineering → Design

Asset Lifecycle Management

Deliverables management

Engineering change control

Deliverable scheduling, approval and distribution

Example Deliverables for Procurement

Tags - Engineered to order	BOM release
Tags - Engineer specified	
Bulk / Commodity material	

Supplier information exchange

Unified Project Execution

Materials	Procurement
4D scheduling	Construction
5D cost	Project controls

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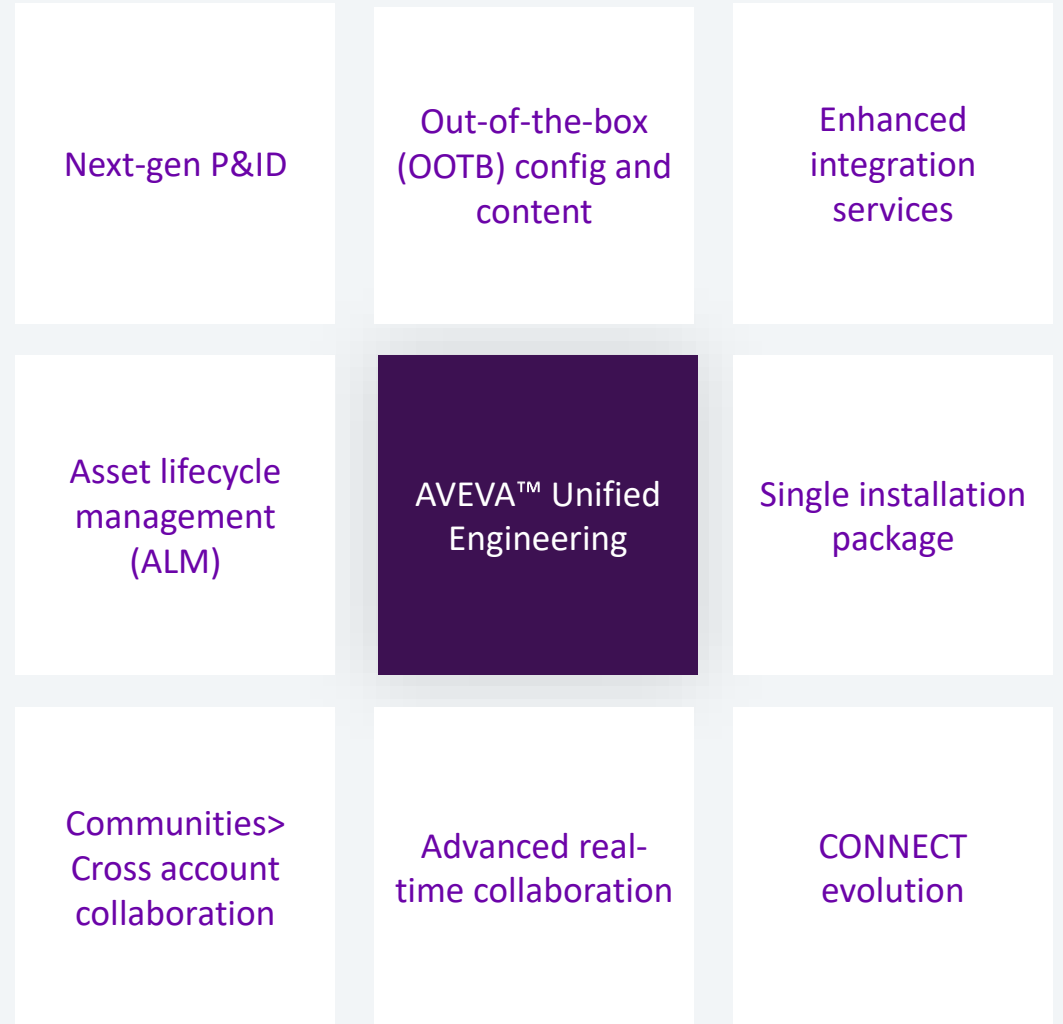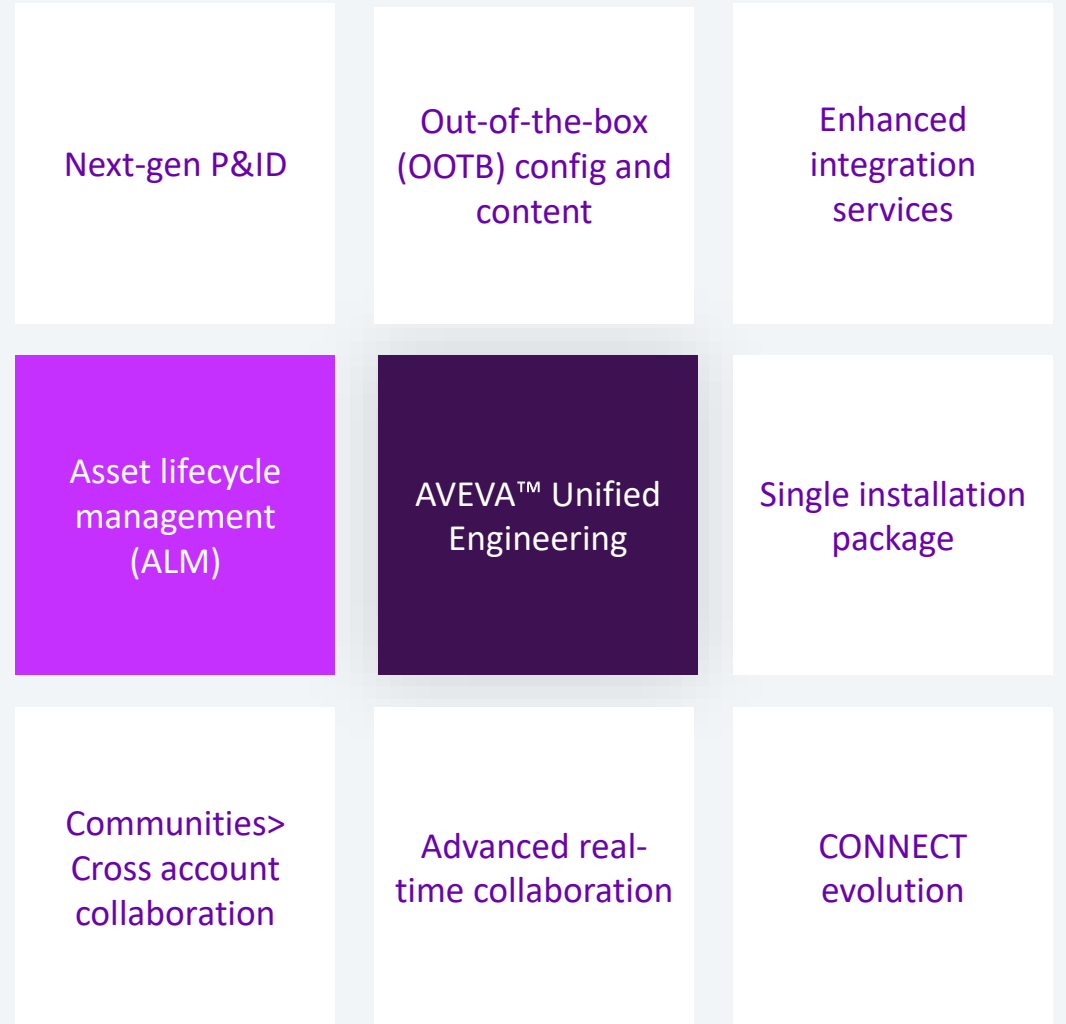
AVEVA™ Unified Engineering

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-the-box (OOTB) config and content	Enhanced integration services
Asset lifecycle management (ALM)	AVEVA™ Unified Engineering	Single installation package
Communities> Cross account collaboration	Advanced real-time collaboration	CONNECT evolution

AVEVA

AVEVA™ Unified Engineering

The first release of asset lifecycle management builds on AVEVA's established engineering products to create additional value for our customers
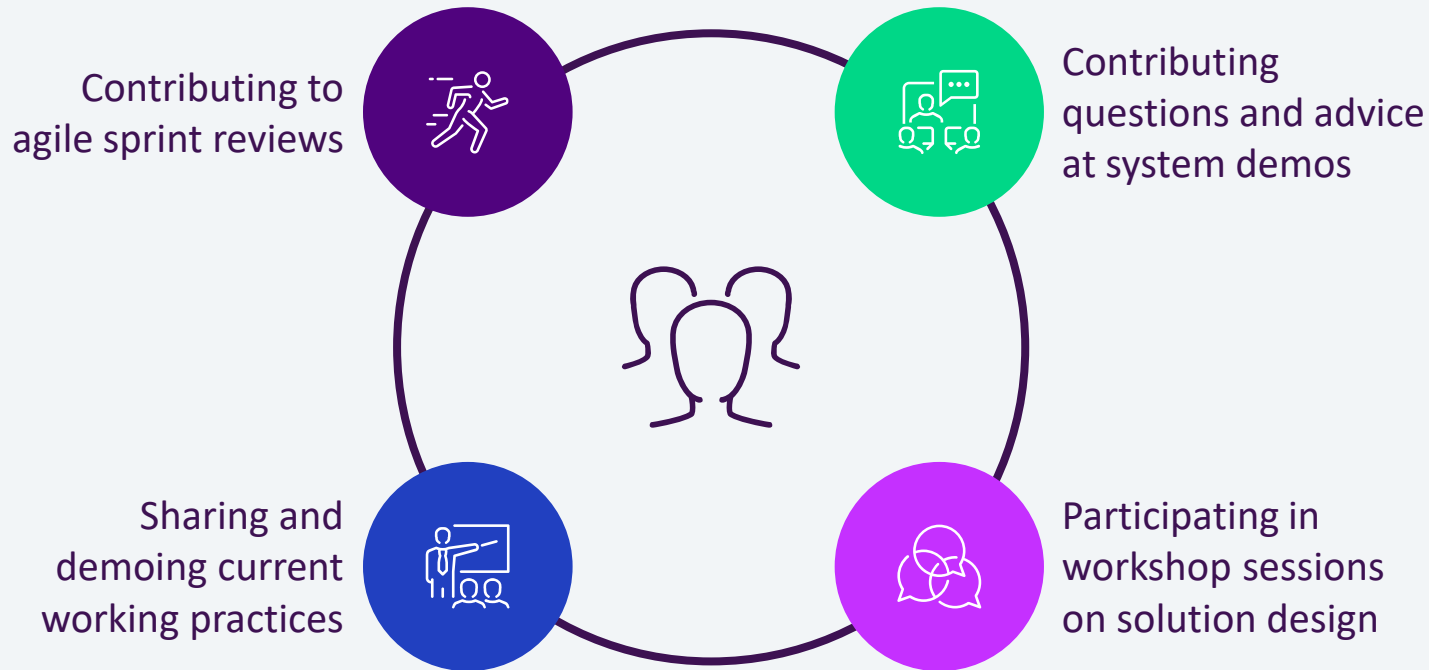
Next-gen P&ID	Out-of-the-box (OOTB) config and content	Enhanced integration services
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ASSET LIFECYCLE MANAGEMENT

AVEVA™ Deliverables Management

Powered by Aras Innovator

AVEVA

Customer lighthouse program

Contributing to agile sprint reviews

Contributing questions and advice at system demos

Sharing and demoing current working practices

Participating in workshop sessions on solution design

TotalEnergies

MCDERMOTT

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Data-centric deliverables management

Going beyond documents

Objects	**Data**	**Schematics**	**Documents**
Collaboration	**Compliance**	**Quality**	**Analytics & tracking**

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AVEVA™ Deliverables Management

Workflow

Any Users
View | Decide | Share

Requirements Engineer / Program Manager
Analyze | Investigate | Validate

3D Designer
Design | Modify

Data aggregation platform
AIM and AVEVA CVS

Deliverables made available for visualization

Build & commission

Deliverables referenced in project execution processes

Process and operations

Power Ops management

Maintain & service

Deliverables referenced in ops & maintenance processes

AVEVA Asset Lifecycle Management (ALM)

Approval workflows executed and deliverables attached to configuration / requirements

Deliverables registered, versioned & baselined

AVEVA Unified Engineering

Comments on deliverables are addressed

AVEVA Engineering publishes deliverables to ALM

AVEVA E3D publishes deliverables to ALM

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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

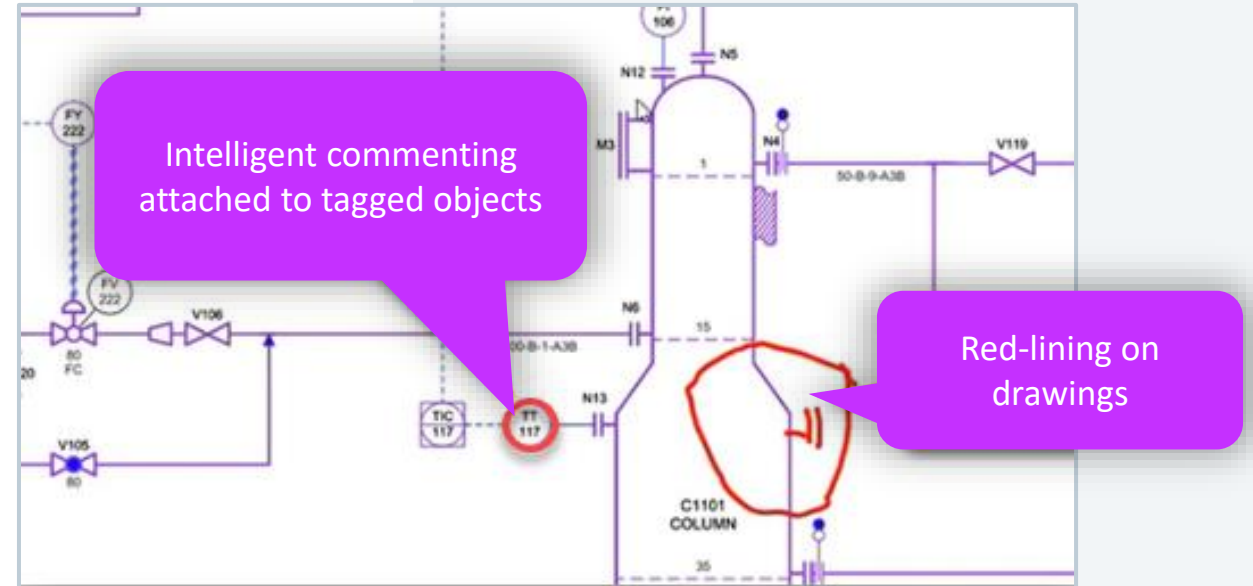- Baseline and version engineering objects, data, schematics and documents

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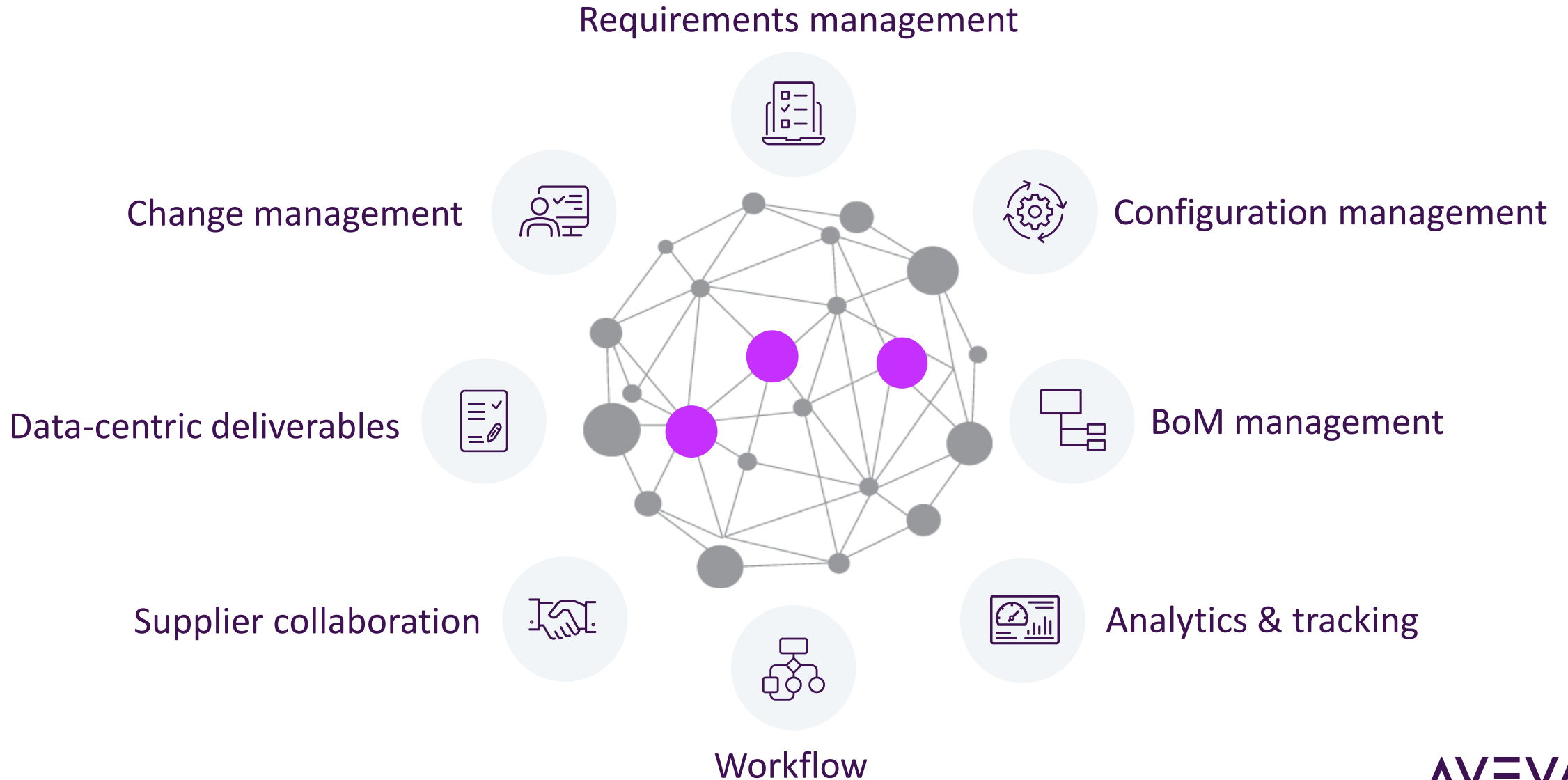# AVEVA Deliverables Management

Initiating change at the source of the project data

- Intelligent commenting and markup on objects (basic change control), schematics, and documents

- Accelerates turnaround with rapid feedback loops and real-time discussion threads

- External feedback capability

- APIs provide access to released data for the entire asset lifecycle (commissioning, operations, maintenance, etc.)

Roadmap

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Asset lifecycle management

Requirements management

Change management

Configuration management

Data-centric deliverables

BoM management

Supplier collaboration

Analytics & tracking

Workflow

AVΞVA

Asset lifecycle management capabilities

Time Horizons

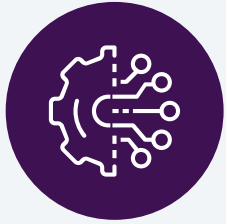| NOW	NEXT	FUTURE
Object & data-centric deliverables	Automated data validation	Requirements management
	Change management	BoM management
		Supplier collaboration
		Configuration management

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Data validation as a service

API

Designed from the ground up as an application programming interface (API), VaaS can be embedded in other AVEVA applications, AVEVA partner solutions, or 3rd party offerings.
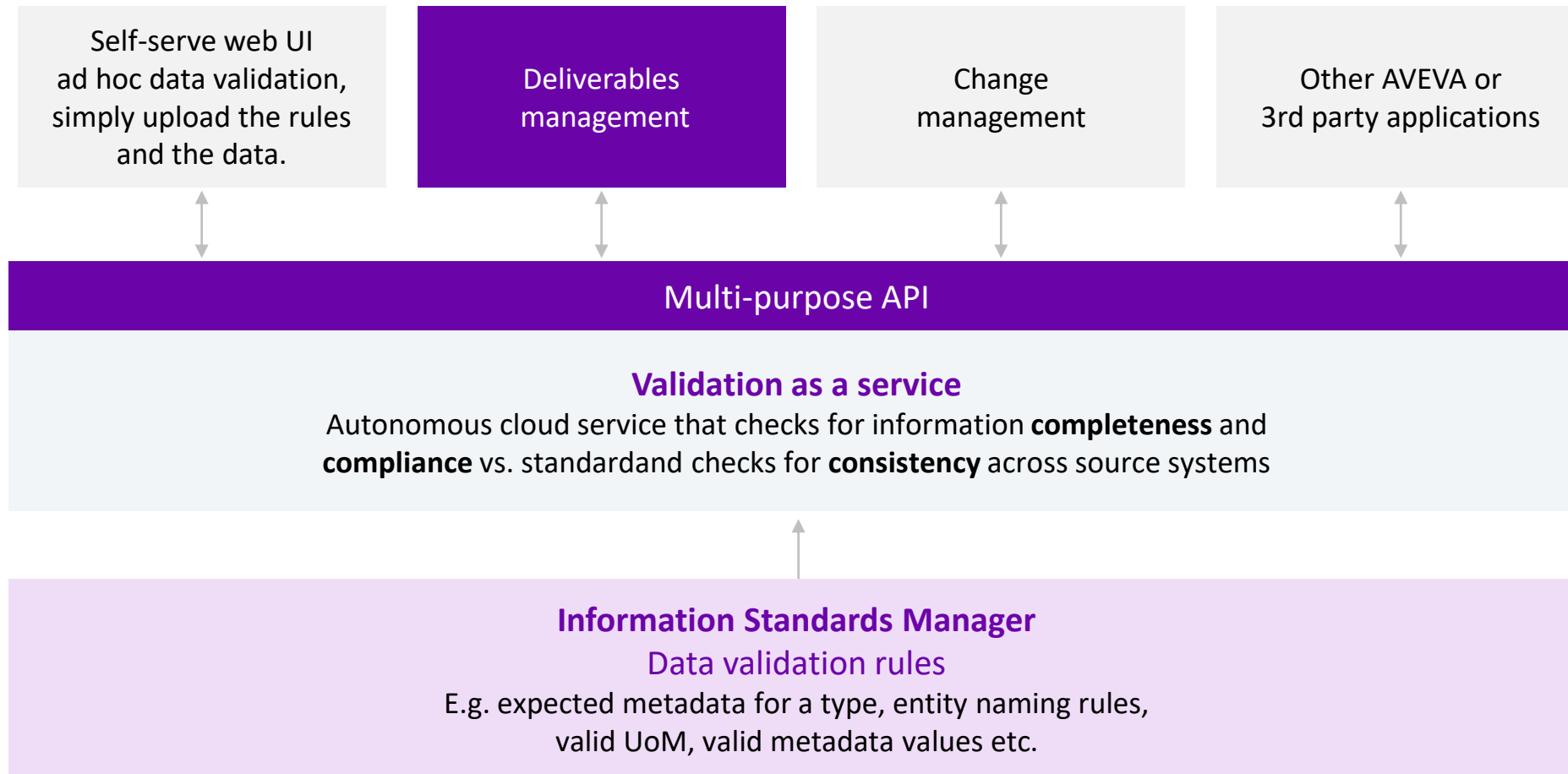
Self-service web UI

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

AVΞVA

Validation as a service in ALM

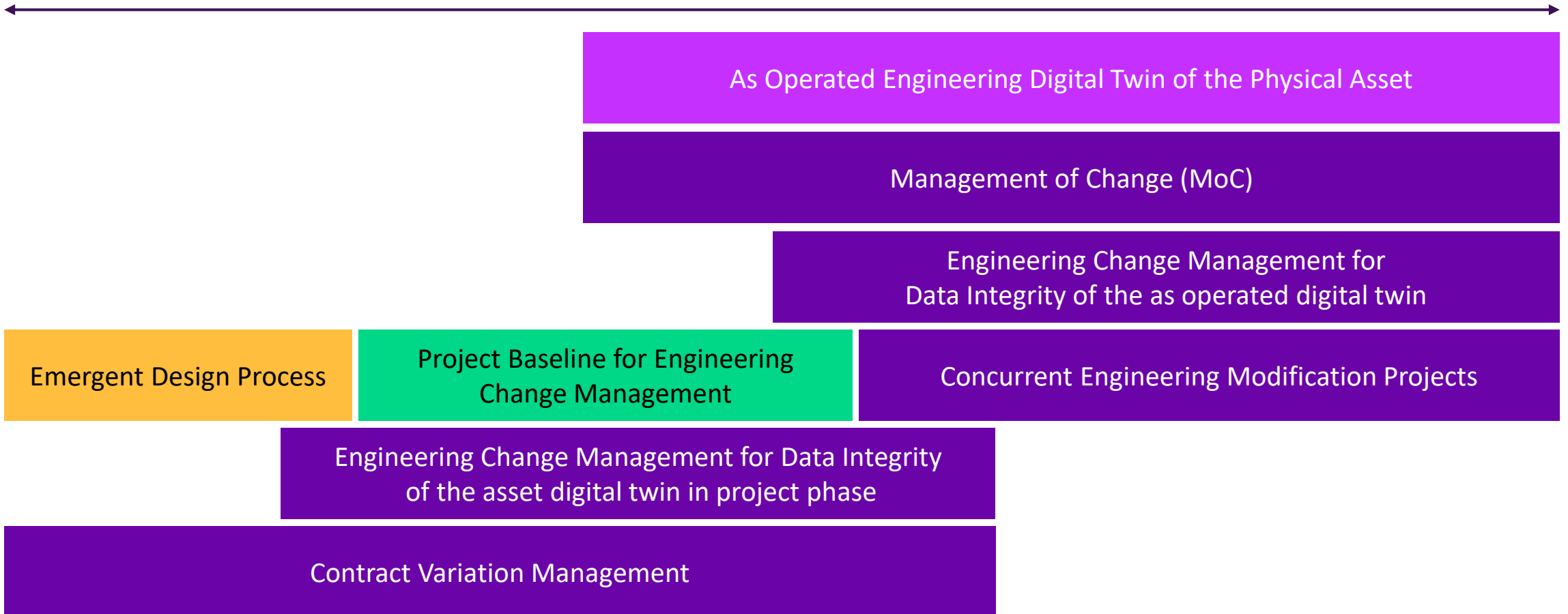## Instant and comprehensive data validation support for multiple scenarios

Self-serve web UI ad hoc data validation, simply upload the rules and the data.	Deliverables management	Change management	Other AVEVA or 3rd party applications

Multi-purpose API

Validation as a service
Autonomous cloud service that checks for information **completeness** and **compliance** vs. standardand checks for **consistency** across source systems

Information Standards Manager
Data validation rules
E.g. expected metadata for a type, entity naming rules, valid UoM, valid metadata values etc.

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Questions?

Please remember to…

Navigate to this session in the mobile app to complete the survey.

And please visit us on the AVEVA "Design and Build" or Aras booths in the Innovation Zone to learn more and see a demo…

Thank you!

AVEVA

Recommended sessions

Aras: Rethinking Digital Thread for Product and Asset Lifecycle Management

Aras

Wednesday, October 16 @ 10:45 am

Capital project synergy: EPCs and OOs in the energy transition

Engineering Roundtable Discussion

Thursday, October 17 @10 am

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@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

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