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APRIL 9, 2025

MES Portfolio Overview and Roadmap

Tom Troy – VP, Operations & Execution Portfolio

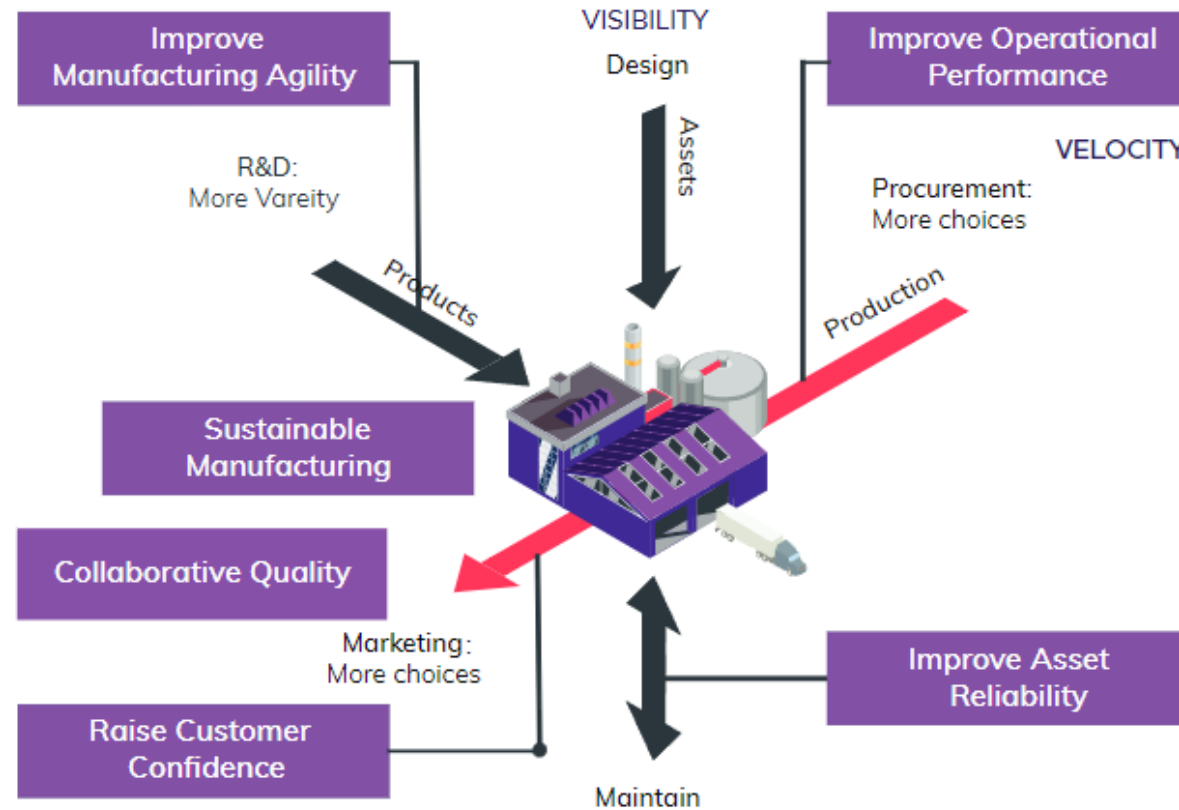
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Portfolio Overview

MES Portfolio Overview and Roadmap



Value Drivers for Transformation Acceleration



AVEVA MES Portfolio - empowering customers to transform their manufacturing operations to become more agile, optimized, sustainable and customer-focused.

Review of the MES Portfolio

Batch/Recipe Management Applications



Flexible batch management

Maximizes asset utilization, plant throughput and recipe agility with sophisticated equipment arbitration and concurrent batch execution capabilities.



Formula management and recipe execution

Effective formula and recipe management that provides agility and increased operational efficiency while securing process and product quality.

Review of the MES Portfolio

Manufacturing Execution System/Manufacturing Operations Mgt. (MOM) Applications



Performance, operations & quality management

Increases plant asset utilization and performance by providing accurate information on equipment downtime and efficiency.

Improves production execution consistency, visibility and agility in hybrid industries.

Improves product quality and consistency through real-time statistical process control (SPC) and analysis.



MES app content for multi-site standardization

Pre-assembled, extensible MES application content (business rules and UIs) that accelerates time to value for multi-site MES deployments.



Production monitoring, reporting & continuous improvement

Optimizes the mining supply chain, maximizes the utilization of all operating assets, and empowers workers with decision support to react effectively to production, inventory and sustainability events.

Review of the MES Portfolio

“Companion” Applications

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Work Tasks



Industrial work process collaboration & governance

Orchestrates plant-level business processes across disparate domains (people, processes & systems).

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Enterprise Integration



Enterprise application integration

Facilitates integration of plant floor applications to enterprise solutions.

planet together

Planning & Scheduling



Production planning & scheduling

Improves production schedule performance, manages critical constraints, and eliminates uncertainties to reduce risk.

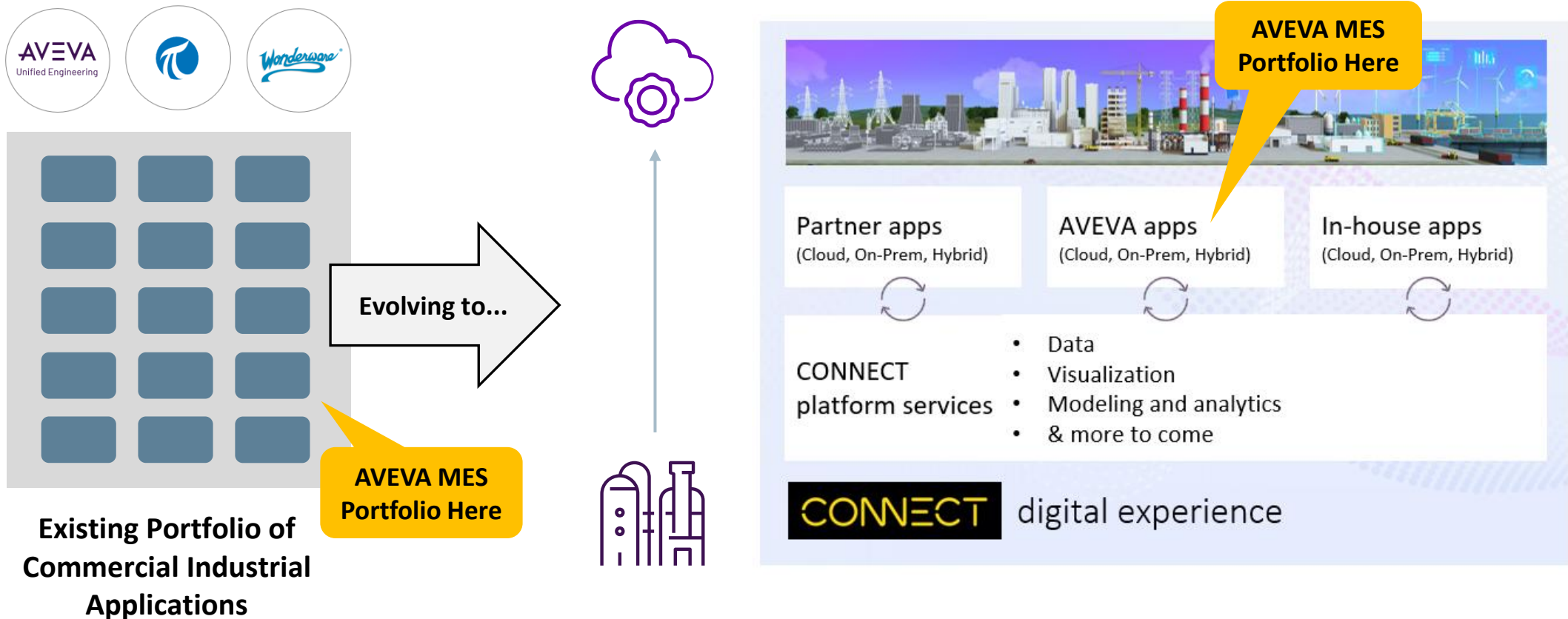
Portfolio Strategy & Investments

MES Portfolio Overview and Roadmap



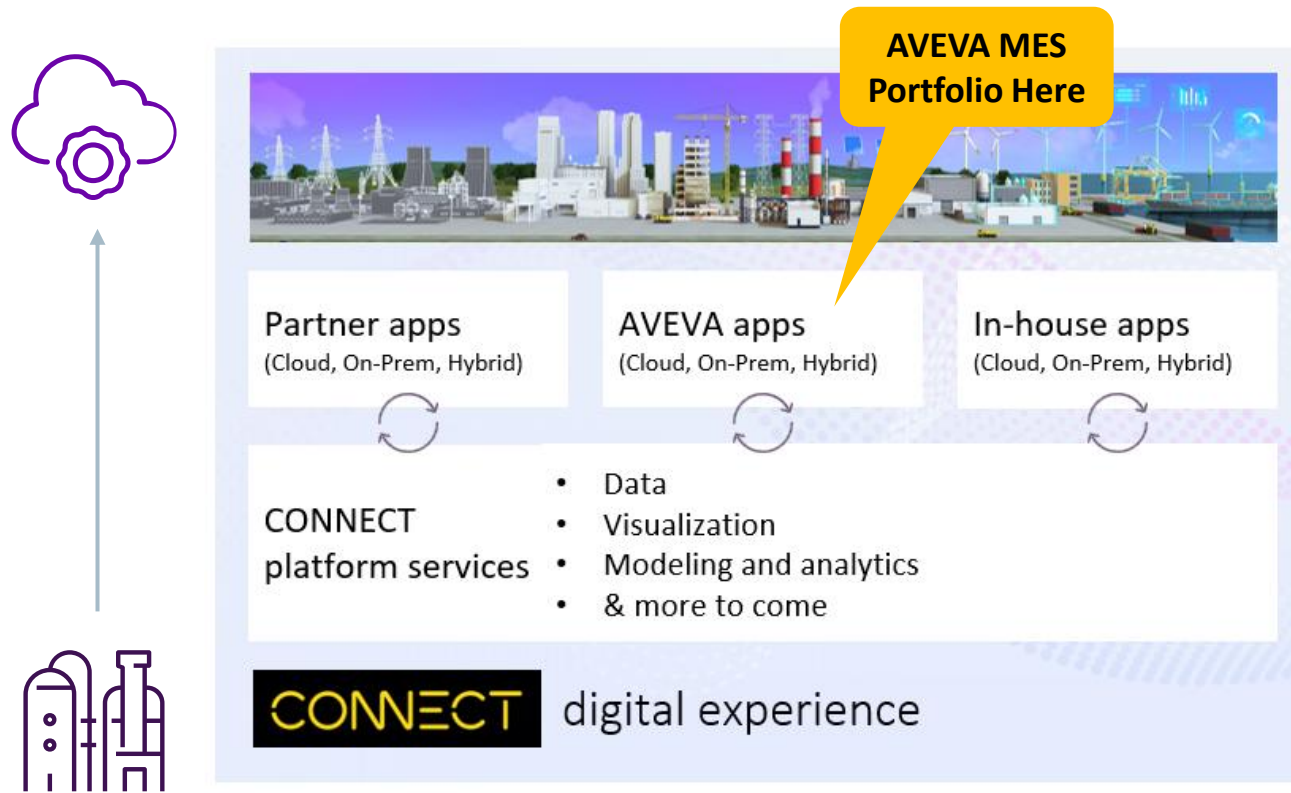
AVEVA MES Portfolio - Strategy & Investments

Evolving our AVEVA Industrial Apps/Capabilities to Deliver a more Unified Digital Experience that is Focused on Accelerating Value Creation in support of Industrial Use Cases...



AVEVA MES Portfolio - Strategy & Investments

AVEVA MES Portfolio Aligning with Broader Portfolio Strategy

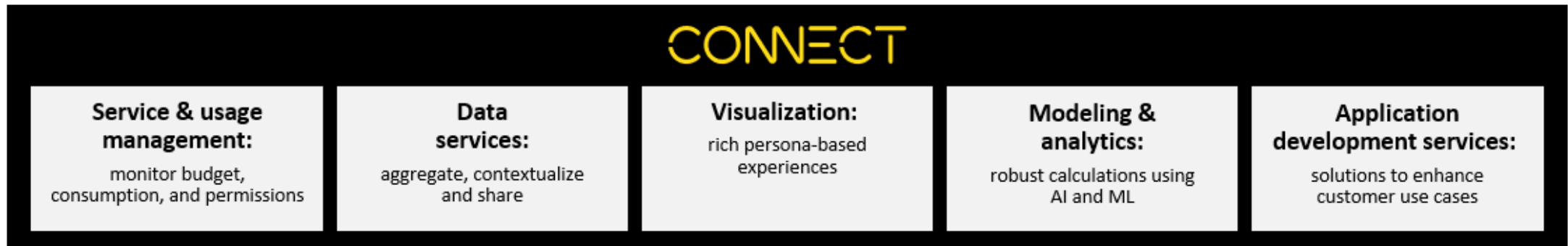


AVEVA MES Portfolio adopting CONNECT platform services to accelerate value creation. Currently focused on (2) major investment Initiatives:

- Transition on-premises AVEVA MES Portfolio Apps to Hybrid Cloud Apps
- Reimagine AVEVA MES Capabilities as Next-Gen Native Cloud Offering in CONNECT

AVEVA MES Portfolio - Strategy & Investments

Investment Initiative - Transition On-Premises MES Apps to Hybrid Cloud Apps

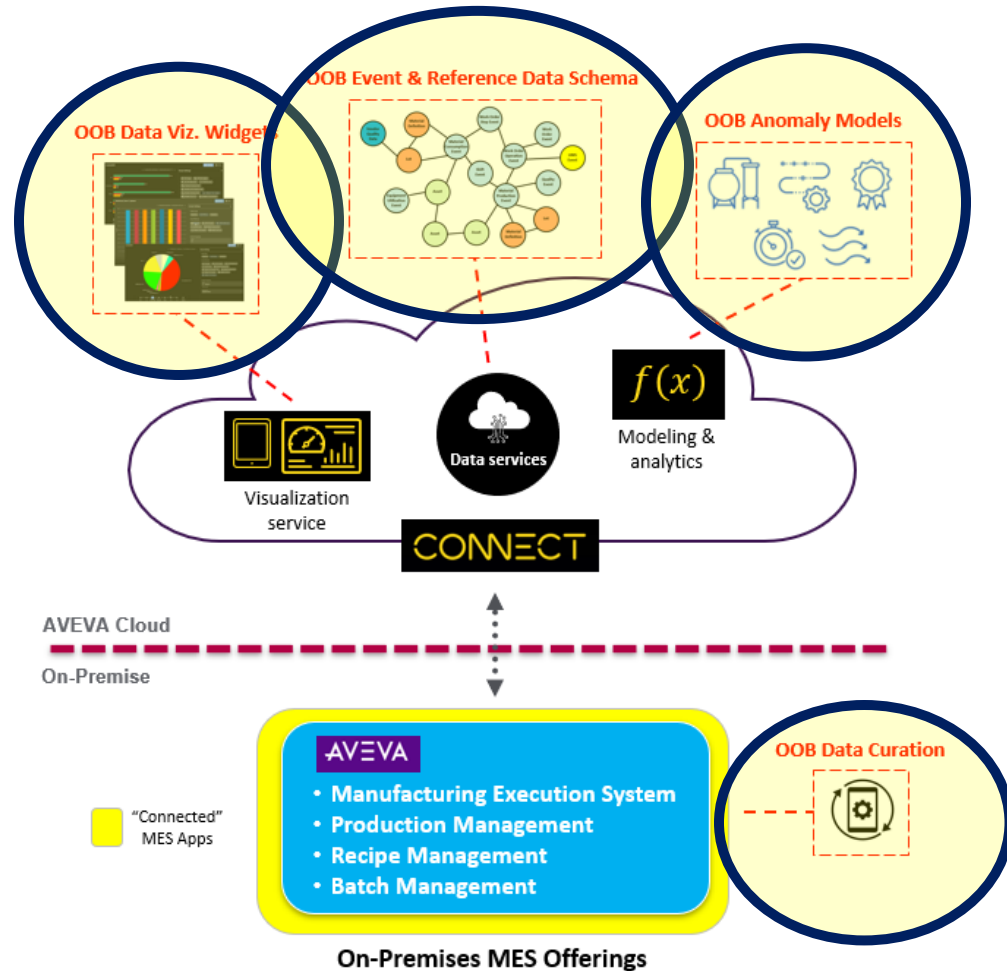


CONNECT Platform Services

We are **integrating our on-premises commercial MES offerings** (MES, Production Mgt., Recipe Mgt. & Batch Mgt.) **with CONNECT** and adopting/consuming value-add platform services that enrich our current capabilities to **enable our customers to obtain more advanced insights from their industrial data - optimized with AI to drive sustainable growth.**

AVEVA MES Portfolio - Strategy & Investments

Investment Initiative - Transition On-Premises MES Apps to Hybrid Cloud Apps



Providing OOB content for seamless consumption of CONNECT cloud platform services...

CONNECT data services

Out-of-the-box event and reference data schema that can be employed for AVEVA MES offerings and 3rd party MES data.

CONNECT visualization services

Out-of-the-box event data visualization widgets that can be employed for AVEVA MES offerings and 3rd party MES data.

CONNECT modeling and analytics

Out-of-the-box anomaly models and UIs for monitoring production performance and trend of key performance indicators.

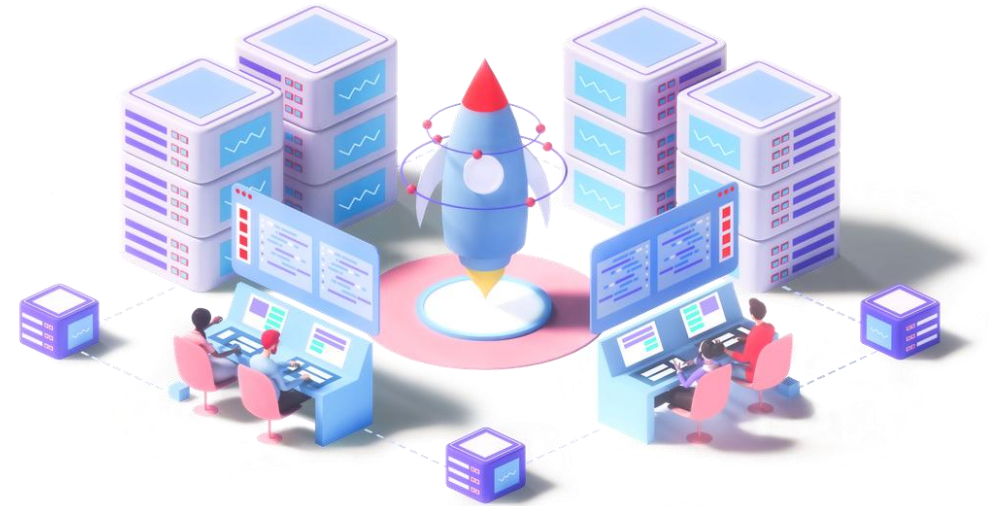
AVEVA MES CONNECT integration

Out-of-the-box data curation & CONNECT integration capabilities to manage the persistence of event and reference data in CONNECT.

AVEVA MES Portfolio - Strategy & Investments

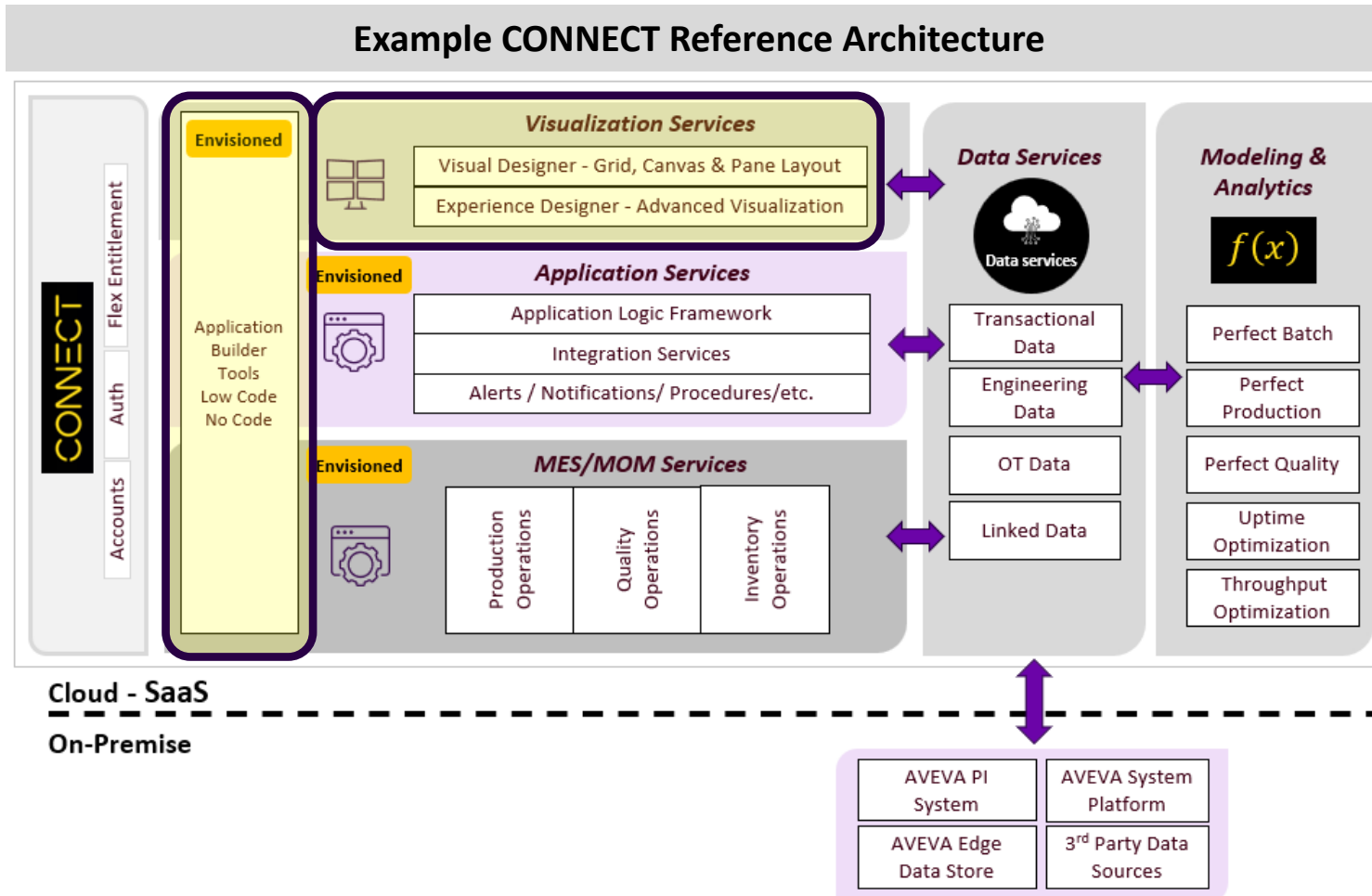
Investment Initiative - Reimagine MES Capabilities as Next-Gen Native Cloud Offering in CONNECT

- Create **new, next-generation native MES cloud capabilities** in CONNECT.
- **Adopt and align with CONNECT application development experience** that will enable users to **create and manage MES app content that can be composed into seamless, end-to-end use cases with other AVEVA or 3rd party content** to address customer specific business objectives and outcomes.
- Provide suite of **MES capabilities** in support of **production operations, inventory operations and quality operations** for hybrid and continuous production environments.



AVEVA MES Portfolio - Strategy & Investments

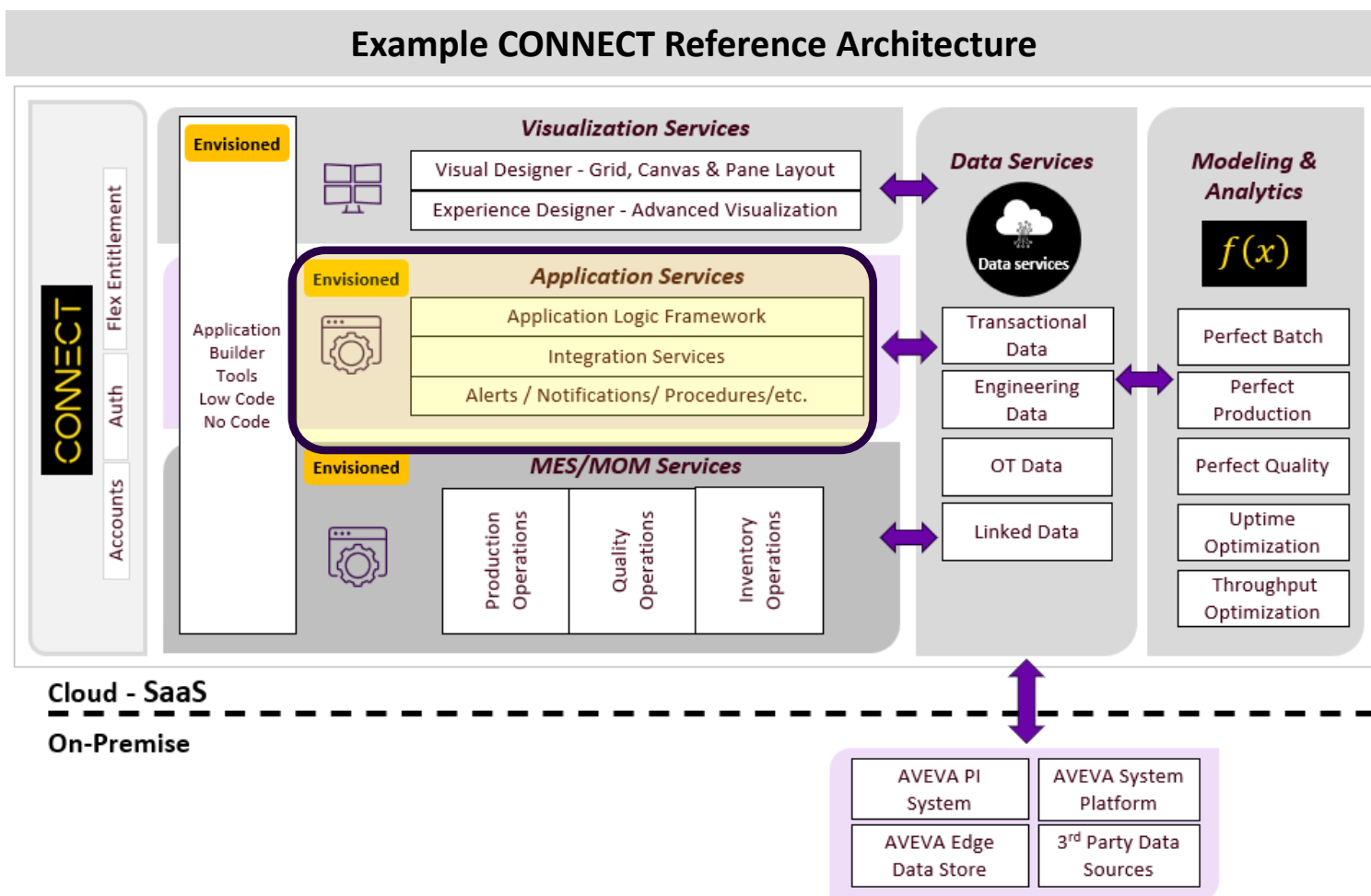
Envisioned CONNECT Reference Architecture



Adopting the **CONNECT Application Development experience** to enable users to create and manage **MES app content** that can be “composed” into seamless, end-to-end use cases with other AVEVA or 3rd party content.

AVEVA MES Portfolio - Strategy & Investments

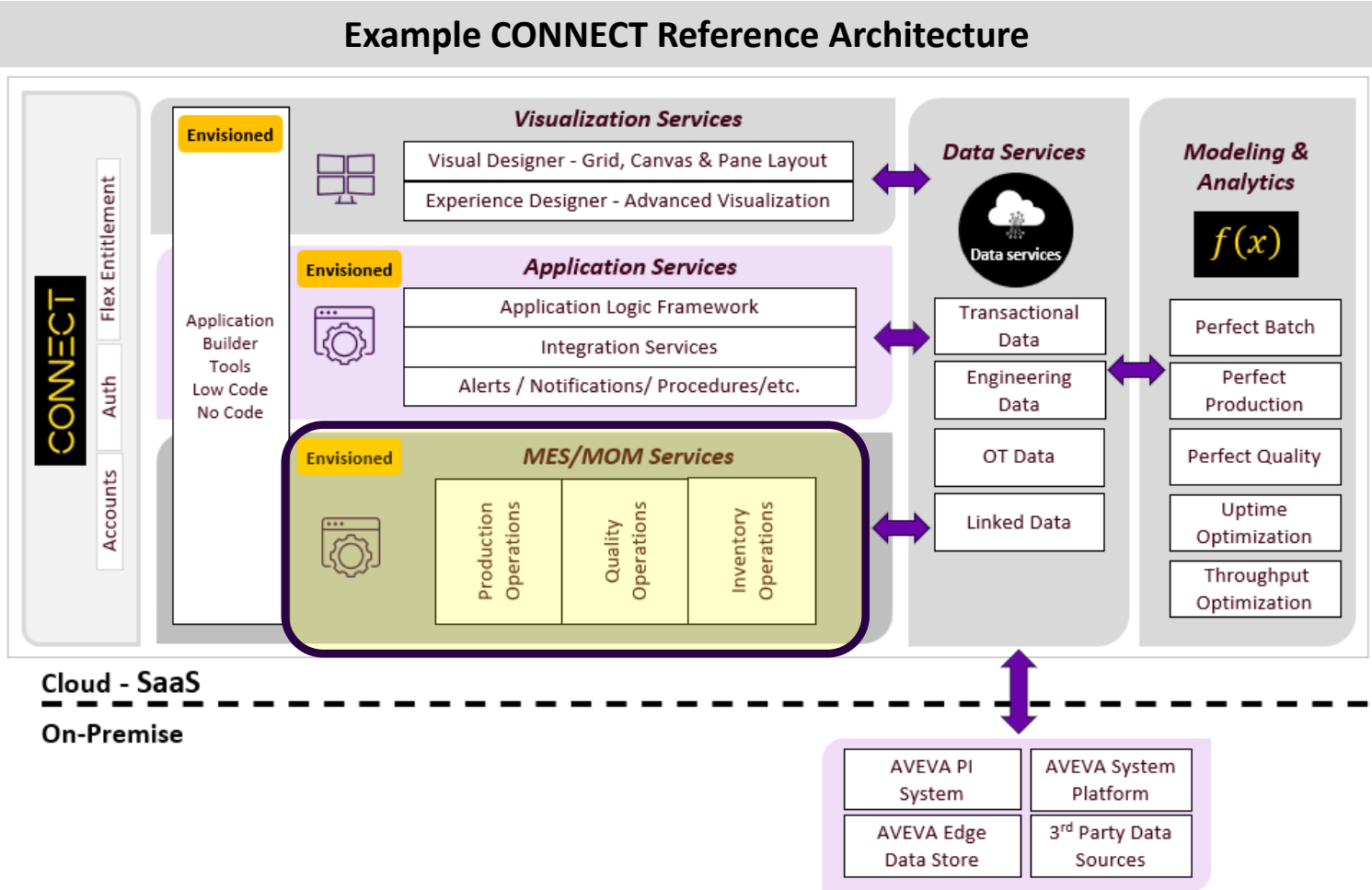
Envisioned CONNECT Reference Architecture



Adopting **CONNECT Application Services** such as application and automation integration, alerts/notifications, procedures, etc. to **deliver consistent experience for all industrial use cases.**

AVEVA MES Portfolio - Strategy & Investments

Envisioned CONNECT Reference Architecture



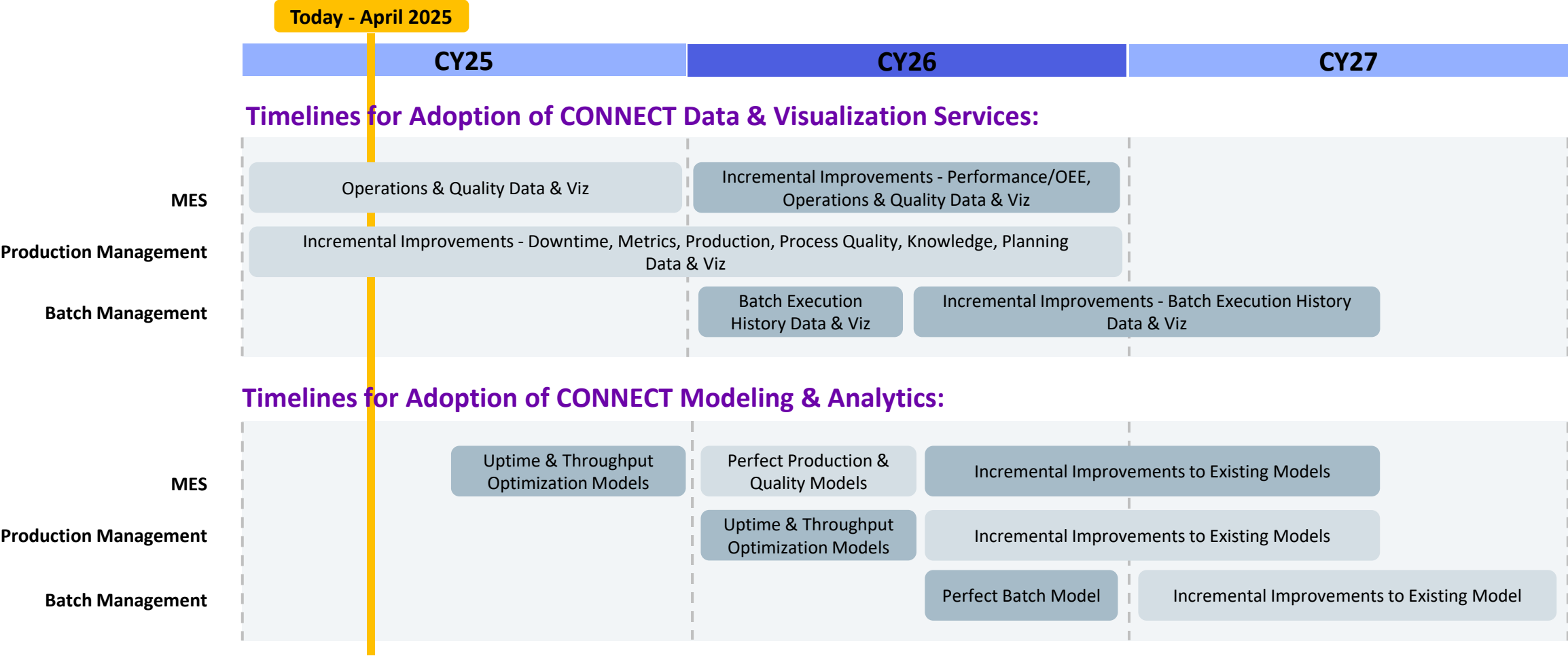
Creating new suite of MES/MOM Services to support production operations, inventory operations and quality operations use cases.

Investment Timelines

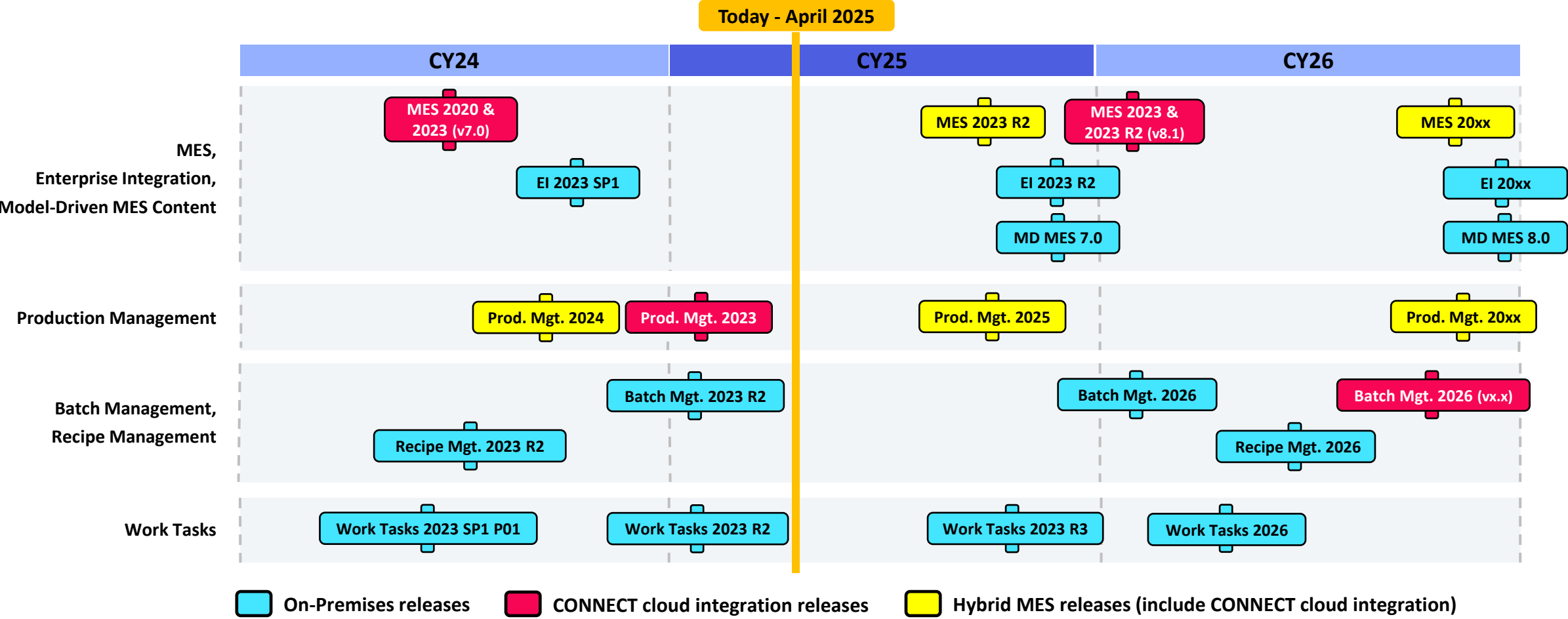
MES Portfolio Overview and Roadmap



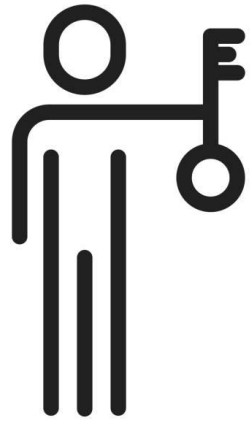
AVEVA MES Portfolio - Adoption of CONNECT Services



AVEVA MES Portfolio - Commercial Releases



Key Takeaways



- Delivering **new and improved MES/MOM capabilities** that help our customers **accelerate their digital transformation initiatives**
- Improving **time to value** and **lowering total cost of ownership (TCO)** through our **hybrid cloud approach**
- Enabling customers to **obtain more advanced insights** from their industrial data - **optimized with AI** to drive sustainable growth

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 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