



AVEVAWORLD

ACCELERATE INDUSTRIAL INTELLIGENCE

20 MAY 2026

Optimize Uptime, Quality & Productivity at scale with CONNECT and Industrial AI

AVEVA Hybrid MES

Keith Chambers

Sean Gregerson

AVEVA

Your Speakers

Keith Chambers

Vice President, Manufacturing Solutions, Strategy and Realization



Sean Gregerson

Vice President, Advanced Applications APM and MES



AVEVA WORLD MILAN, MAY 2026

AVEVA Hybrid MES

Allianz MiCo
Milano

AVEVA Hybrid MES in manufacturing operations

- The digital thread
- The model driven approach
- Value realization

Solving the data problem

- Industrial intelligence
- Digital twin

The **challenges** in manufacturing

Rising Uncertainties



Changing demand,
preferences and channels



Supply shortages and
delays



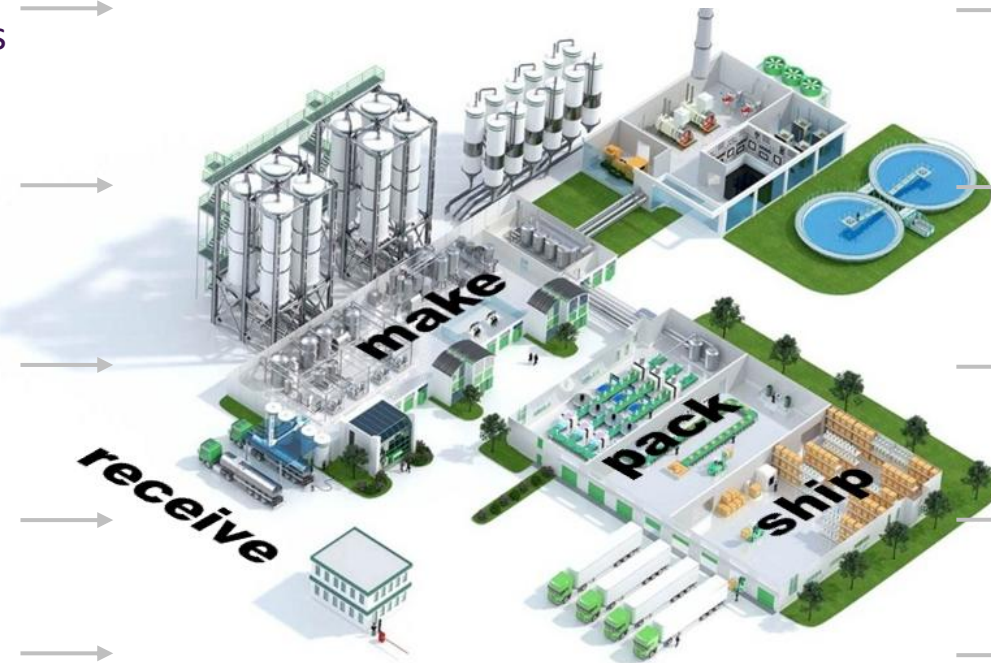
Cost, availability and
longevity of labor



Decarbonization goals



Regulations and Food
Safety



New imperatives

Production schedule optimization.
Optimized manufacturing networks

Agile production systems,
reformulation and substitutions

Higher performing teams, faster
upskilling

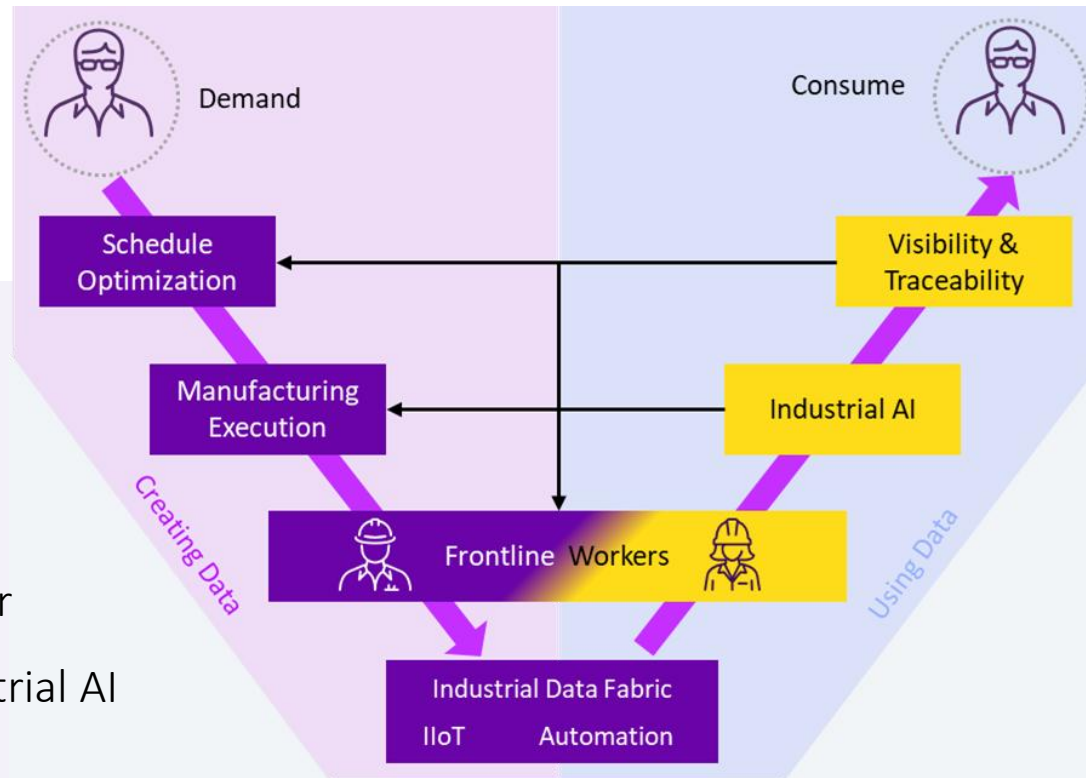
Energy optimization, reduced
waste

Supply Chain visibility and traceability
of ingredients and finished goods

Manufacturers are responding with a digital transformation

A consensus is emerging among manufacturers around three imperatives

1. Create a **digital thread** in an agile, connected plant
2. Empower workers to **improve team performance**
3. **Unlock new value** from your operations data with industrial AI



Nearly half of F&B manufacturers say flexible work and talent retention are top challenges*

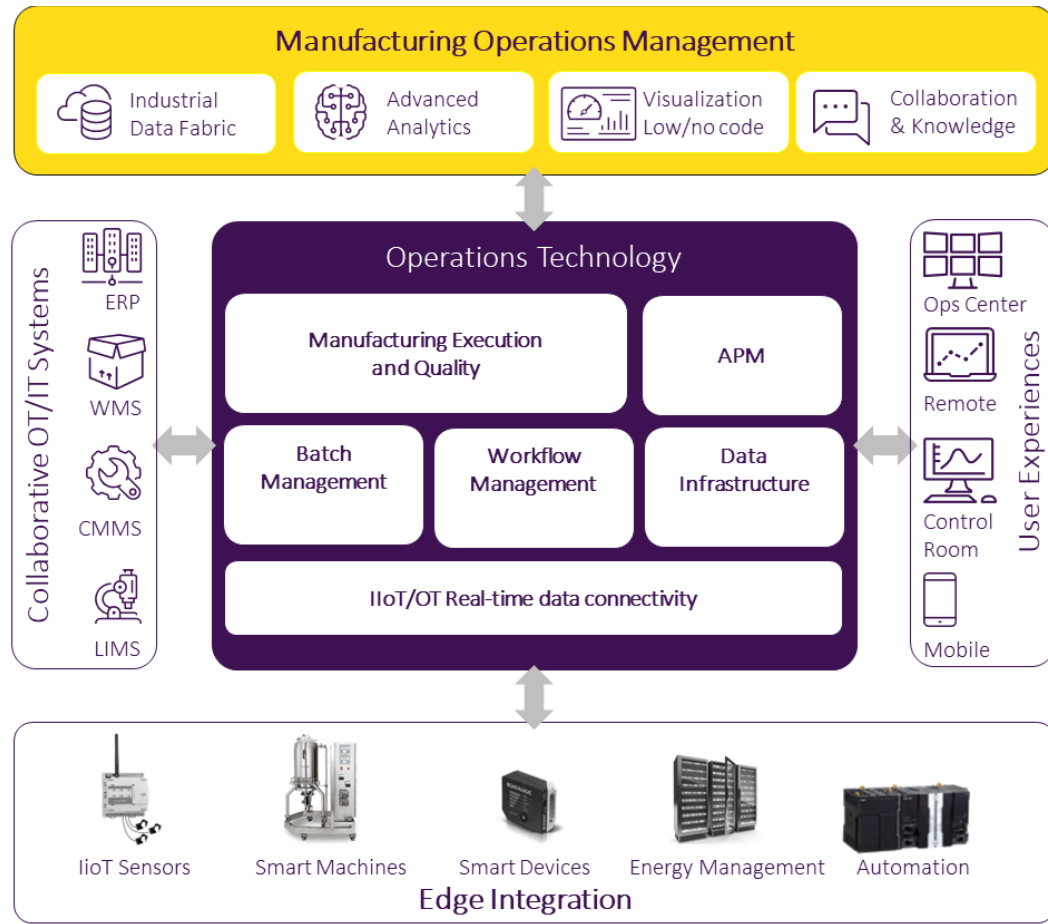
Over 45% of F&B manufacturers see improving supply chain performance and resilience as a top business priority**

41% of F&B Manufacturers say access to data and siloed organizations are a top challenge to real time capabilities*

*Source: Gartner, The Future of Supply Chain for Food and Beverage Manufacturers — 2023 Report, By Claudia Clemens, Thomas O'Connor, 15 March 2023.

**Source: IDC Manufacturing Intelligence Survey, September 2022,

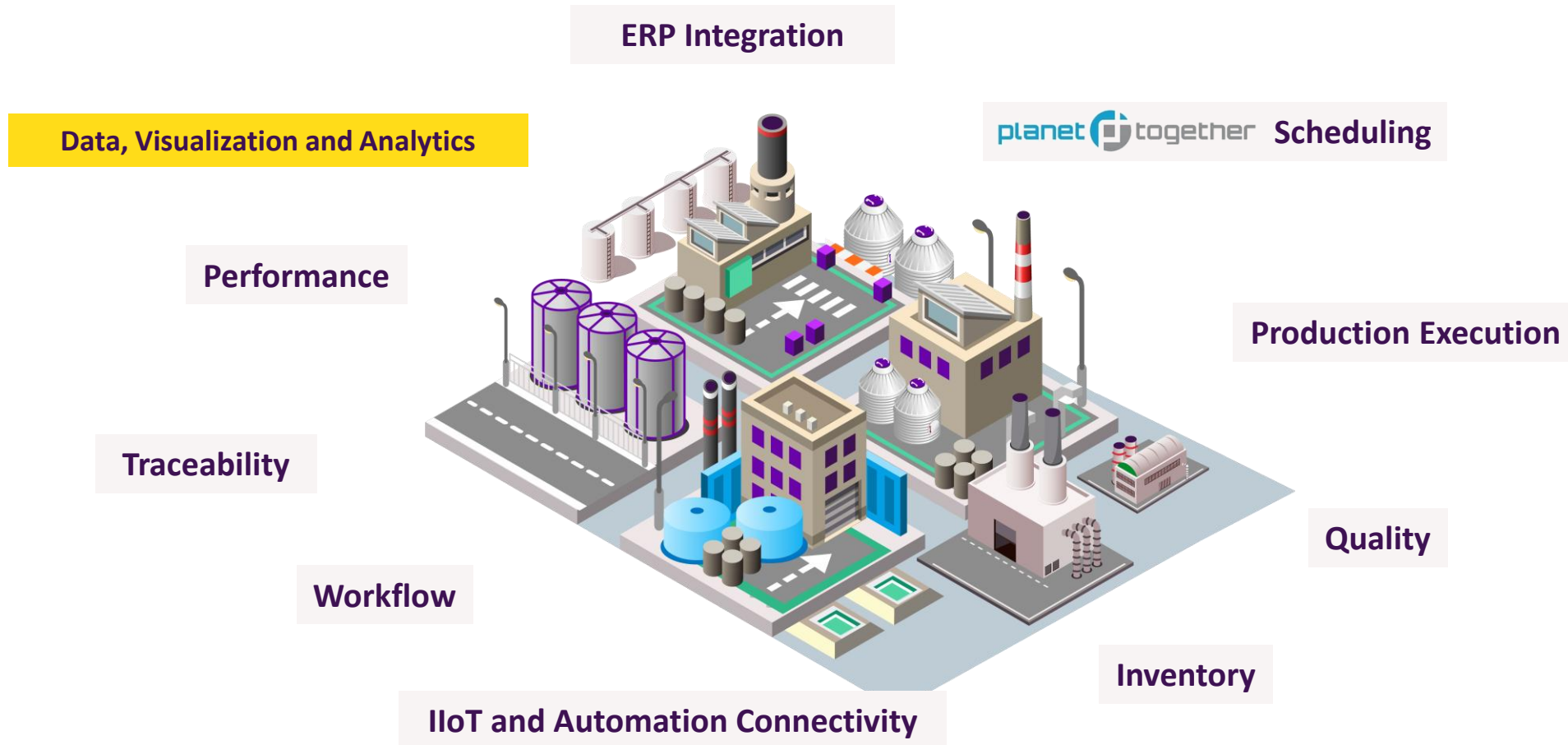
AVEVA's Hybrid MES is at the heart of the digital thread



- As manufacturers digitally transform, they require a trustworthy, scalable manufacturing suite
- AVEVA is transitioning our portfolio into a platform architected, hybrid architecture that is agnostic, and scalable
 - Model Driven MES
 - PI Data Infrastructure
 - Asset Performance Management
- Supported by common platform services
 - Industrial data fabric
 - ML/AI
 - Visualization

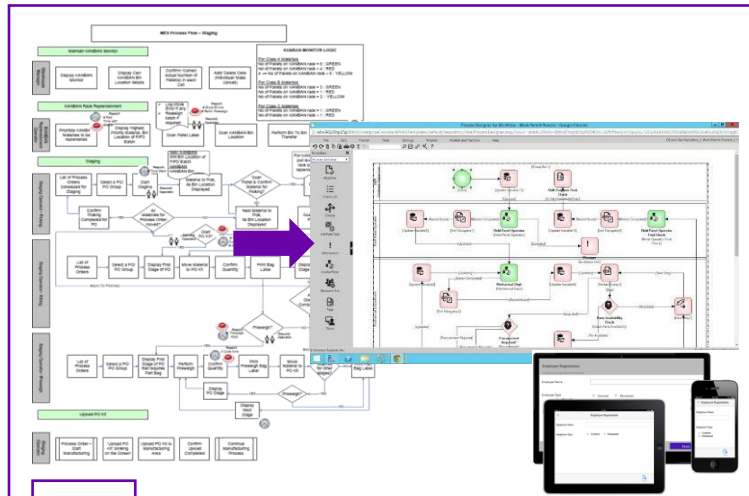
AVEVA's Hybrid MES Capabilities

Produce quality products at minimal costs by providing product and process guidance in real time



Model Driven MES

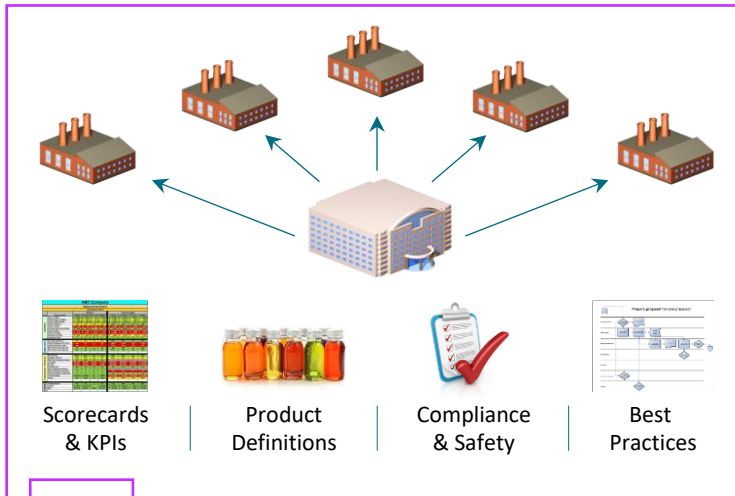
We take a process driven, composable approach across the solution lifecycle



1

DIGITALIZE

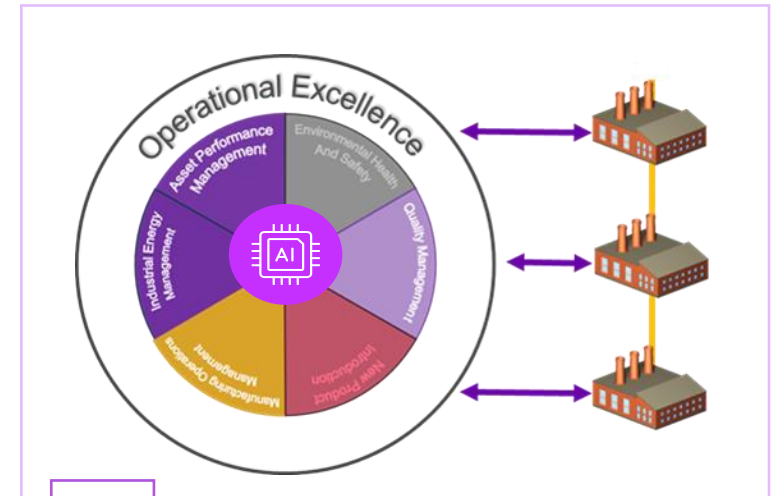
Model and orchestrate manufacturing processes and cross-functional collaboration using a composable, low-code, model-driven approach with proven out-of-the-box use cases.



2

STANDARDIZE

Scale value across the manufacturing network by balancing site-level flexibility with centralized governance of best practices, KPIs, product specifications, compliance and safety standards.



3

IMPROVE

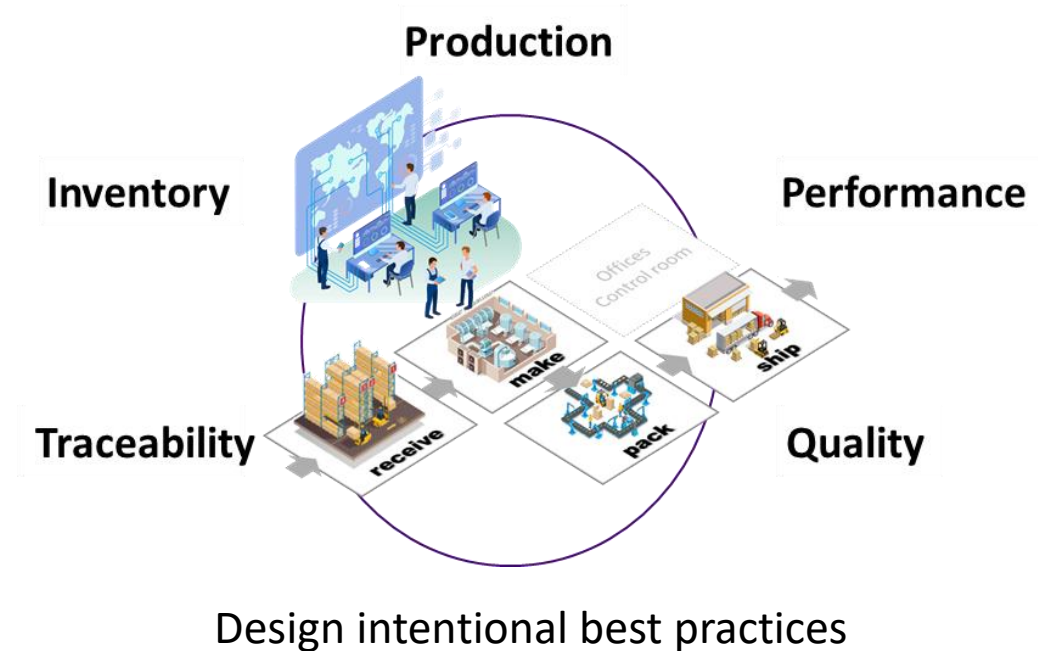
Continuously improve productivity and process performance by applying AI-driven insights and predictive intelligence to operational data.

Digitalize – Process based

Standard use cases for common processes, extended if required

MES Functionality broken into **modules** and UI components, which can be **individually and incrementally** deployed

- Work processes are **digitized** and modeled to the **manufacturer own processes** as use cases
- Every use case and requirement is executed **identical**, always **right first time** and with **same high quality**
- Users / Operators are **guided through the work process** so new/unexperienced personnel produce **without errors**
- Knowledge and **experience stays** when personnel change
- **Fast time to value** with a **library of 50+ common** use cases



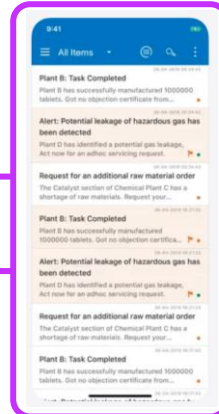
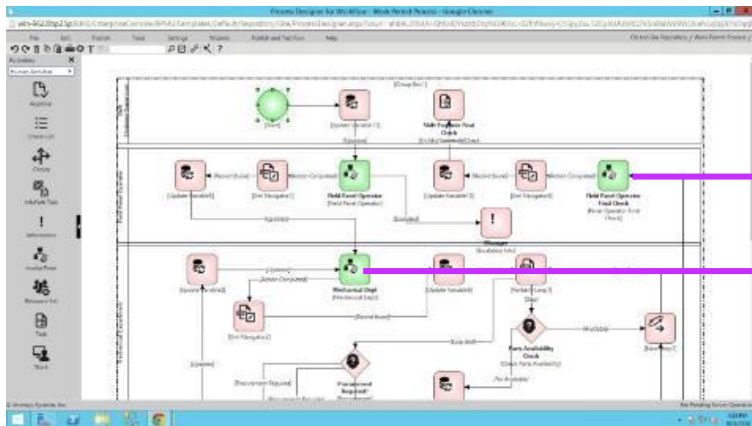
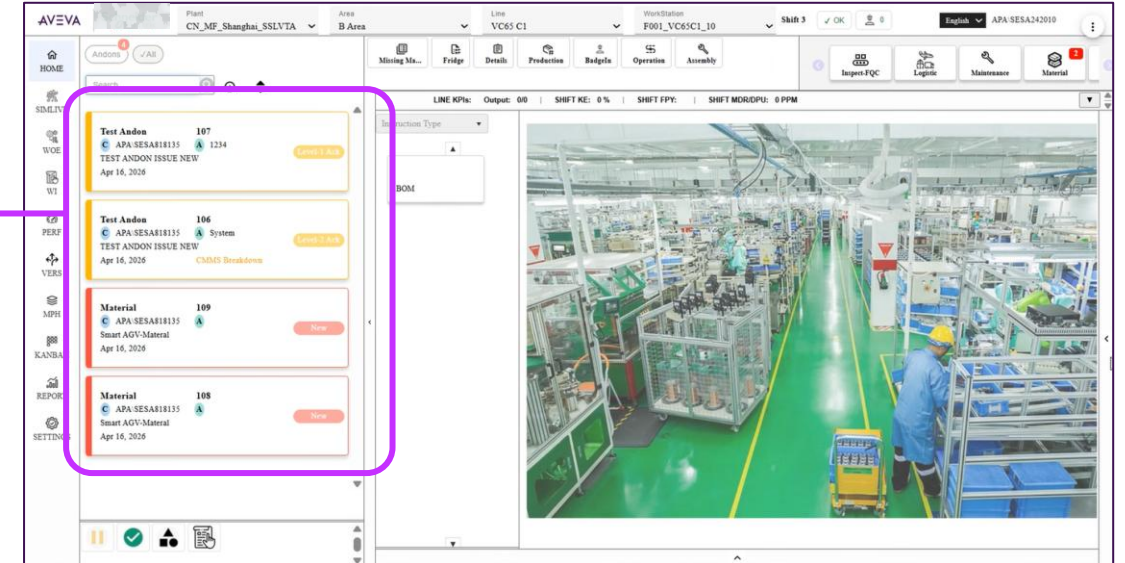
Digitalize – Task Driven

Front line workers are presented work tasks that need their specific attention

A task driven user experience allows focus on needed actions for improved productivity and short interval control

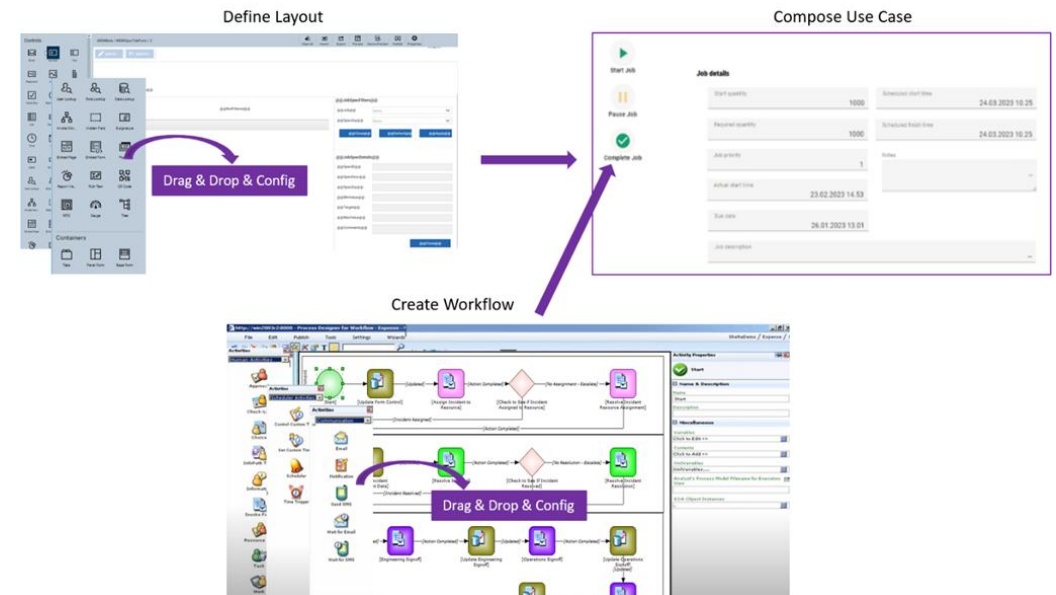
- Task driven operator cockpit
- Task inbox on Mobile app

Workflows can provide digital procedures for “CIL” and asynchronous orchestration between different workers



Standardize and Scale – Composable and Managed

- Solutions are composed of use cases, cockpit displays and workflows
- Each package is version controlled and managed centrally
 - Alignment of best practices between sites
 - Continuous improvement of processes
- Deployment is done via configuration, and can be easily phased without impacting production systems
 - No code composition of solution per site
 - Composed instead of code branching
- Use cases can be extended and created using low code tools
 - Graphical workflow tools
 - HTML5 Form builder

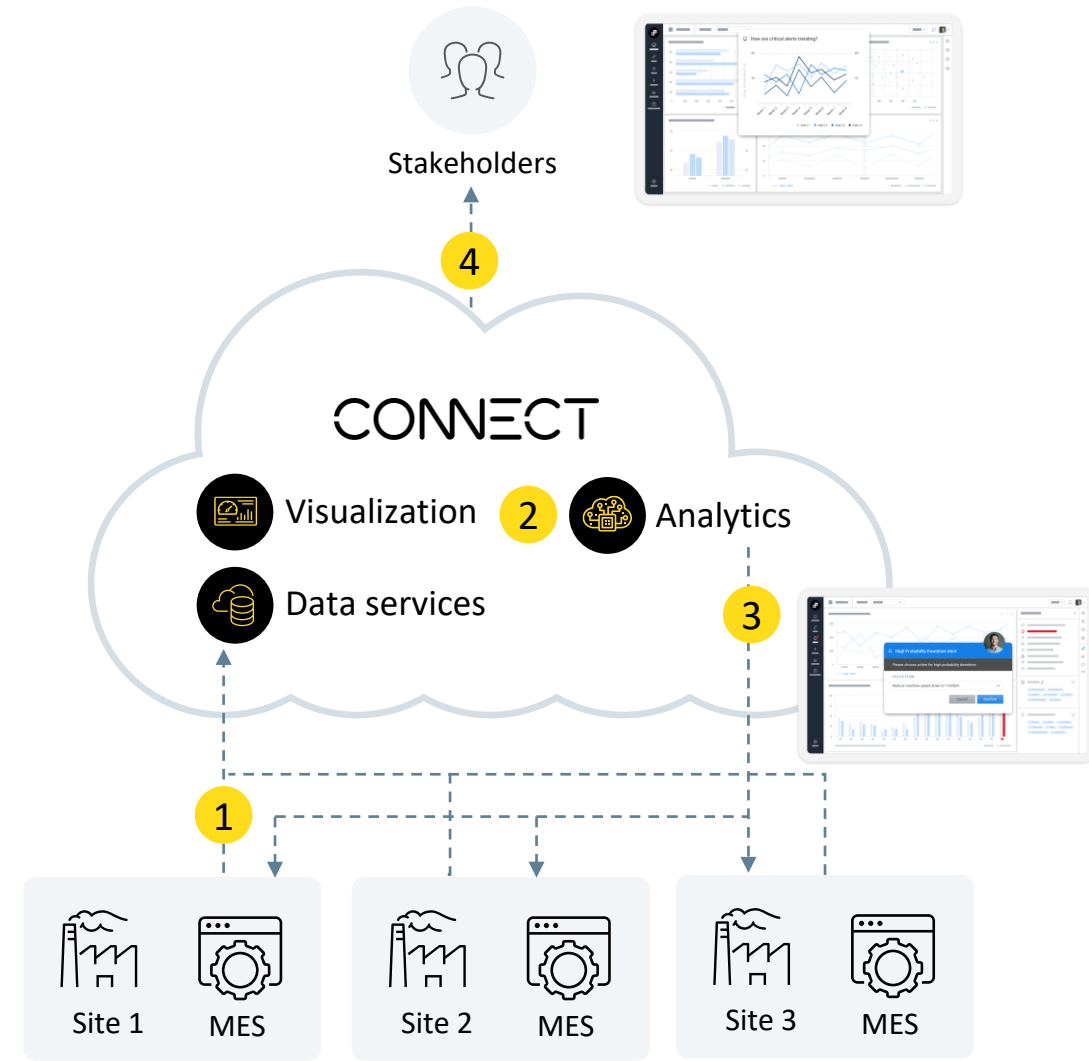


Improve – Infuse with Hybrid/Cloud services

1. Aggregate MES production data and process data into CONNECT data services
2. Train AI/ML models to identify anomalies and the perfect production rate conditions
3. Suggested corrective action to production line operations based on detected conditions, in context to product in production
4. Provide stakeholders with greater visibility to recurring conditions across plants for root cause analyses

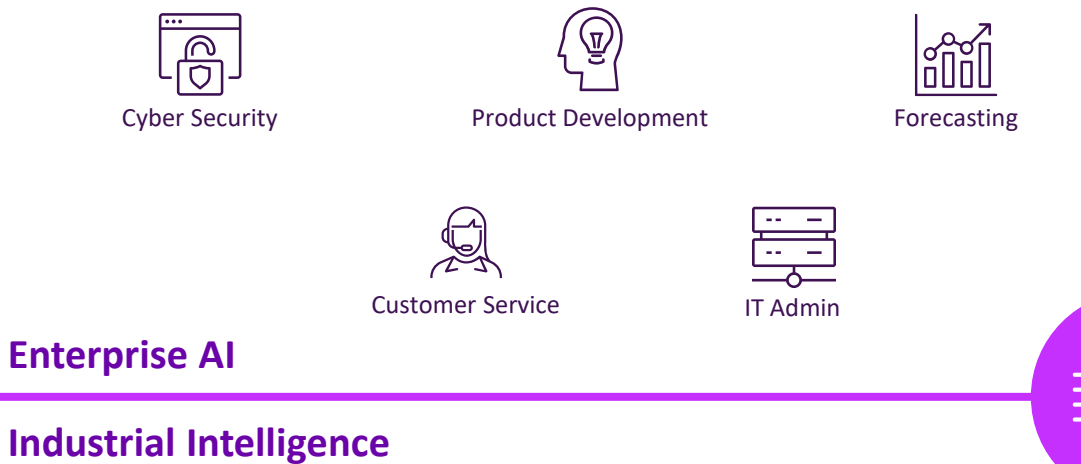
Results:

- Digitize shop floor operations, increase efficiency, maximize plant throughput and realize cost savings.
- Monitor and view data, trends and performance outcomes enterprise wide - and optimize plant operations through Advanced Analytics



Value Realization From Industrial Data

Within your operations and across your enterprise



Enterprise AI leverages data from industrial operation to support value realization at the business level

- ✓ Maintain a **single version of industrial truth**
- ✓ Data sharing across an **ecosystem** of partners



Industrial Intelligence delivers insights and AI/ML use cases that improve operations, quality and sustainability

- ✓ Contextualized, trusted data sets create an **Industrial twin**, with **open, agnostic connectivity** to automation and IIoT data sources

Customer Success

CONSUMER PRODUCTS | GLOBAL



Amcor increases equipment effectiveness and reduces downtime

Challenge

- High number of recurring faults with costly repair and maintenance in certain types of molding equipment.
- Upstream processes affect molding lines, and downtime shuts down the entire plant.
- Need timely information from analytics to avoid such faults.

Solution

- AVEVA™ System Platform and AVEVA™ Manufacturing Execution System for plant operations control.
- CONNECT data services to store MES event and process data from multiple plants.
- CONNECT visualization for self service data access, analyses and insights sharing.
- AVEVA™ Advanced Analytics predicts and notifies about failures and quality anomalies.

Results

- Decreased downtime by 1-2% through AI driven analyses of operational data.
- Users can quickly find and summarize information with AVEVA's AI Assistant.
- Successful Lighthouse engagement covered four assets over two plants. At enterprise scale, the savings would be "astronomical" – tens of \$MM USD annually.

© 2024 AVEVA Group Limited or its subsidiaries. All rights reserved.

[Learn more](#)



AVEVA

FOOD & BEVERAGE | NORTH AMERICA



Agropur Cooperative standardize and scale implementation approach

Challenge

- Customization for plant specific needs
- No standard, each plant had its own system
- Different ways of calculating
- No centralized and common view for Executives

Solution

- Deployed AVEVA™ Manufacturing Execution System to streamline data collection, access and calculations.
- Leveraged CONNECT as a centralized solution for analysis, reporting and trends

Results

- Integrated MES system to manage operations and analyze operational data, helping to improve overall equipment effectiveness (OEE)
- Real-time visibility to divisions and plant production performance KPI's enhanced with Power BI reports embedded in CONNECT platform

© 2025 AVEVA Group Limited or its subsidiaries. All rights reserved.

[Learn more](#)



AVEVA

MANUFACTURING - CONSUMER PRODUCTS | USA

Nestlé: Harnessing advanced analytics and real-time data in the cloud to enhance product quality and minimize waste

Challenge

- Fully manual operation of the agglomeration process caused variability in product moisture and density
- Low product yield due to low moisture
- Inconsistent product caused unnecessary waste

Solution

- Deployed CONNECT and transferred data via AVEVA™ Historian. AVEVA™ Advanced Analytics was used to predict quality parameters of powder production and recommend optimal process setpoints, removing the need for resource-constrained on-premises systems to carry the additional burden of supporting this solution.

Results

- A 10% savings on Nesquik powder in the trial, or 101g saved from every 1kg jar
- Consistently tighter jar-to-jar weight variation
- Improved product consistency and consumer satisfaction
- Less product waste on production and packaging lines

© 2024 AVEVA Group Limited or its subsidiaries. All rights reserved.



“Working with AVEVA's Lighthouse team helped us to understand how we can realize even more value from our solution in the future. For instance, running the solution in the cloud means we can easily roll out the analytical model to other plants across different regions without needing to invest in additional on-premises infrastructure.”

Greg O'Brien, Project Engineer and Project Owner, Nestlé

AVEVA

CONSUMER PRODUCTS | CANADA



Maple Leaf Foods

Accelerating the Digital Manufacturing journey from MES to Advanced Analytics

Challenge

- Seeking additional productivity improvements via use of IoT and AI technologies at the Heritage site for Canada's largest prepared meats and poultry producer.
- Analysis of plant operations revealed 8 use cases for waste reduction.

Solution

- Using rich data provided by the existing AVEVA™ Manufacturing Execution Systems, the Braincube solution's AI models helped narrow down the ideal settings based on best output days per product, along with key machine metrics to provide actionable information to supervisors.

Results

- Top 3 use cases yielding the best results were slice hall, batch house and stuffing areas
- Increase of gross profit by 10-12% by reducing waste in the following areas:
 - Consistent WIP log Length – reduced large end piece losses.
 - Consistent Log cook – reduced over cook and quality losses in the ovens.
 - Improved Weber Slice parameters, increasing yield and minimizing losses at finished good slicing

© 2023 AVEVA Group Limited or its subsidiaries. All rights reserved.



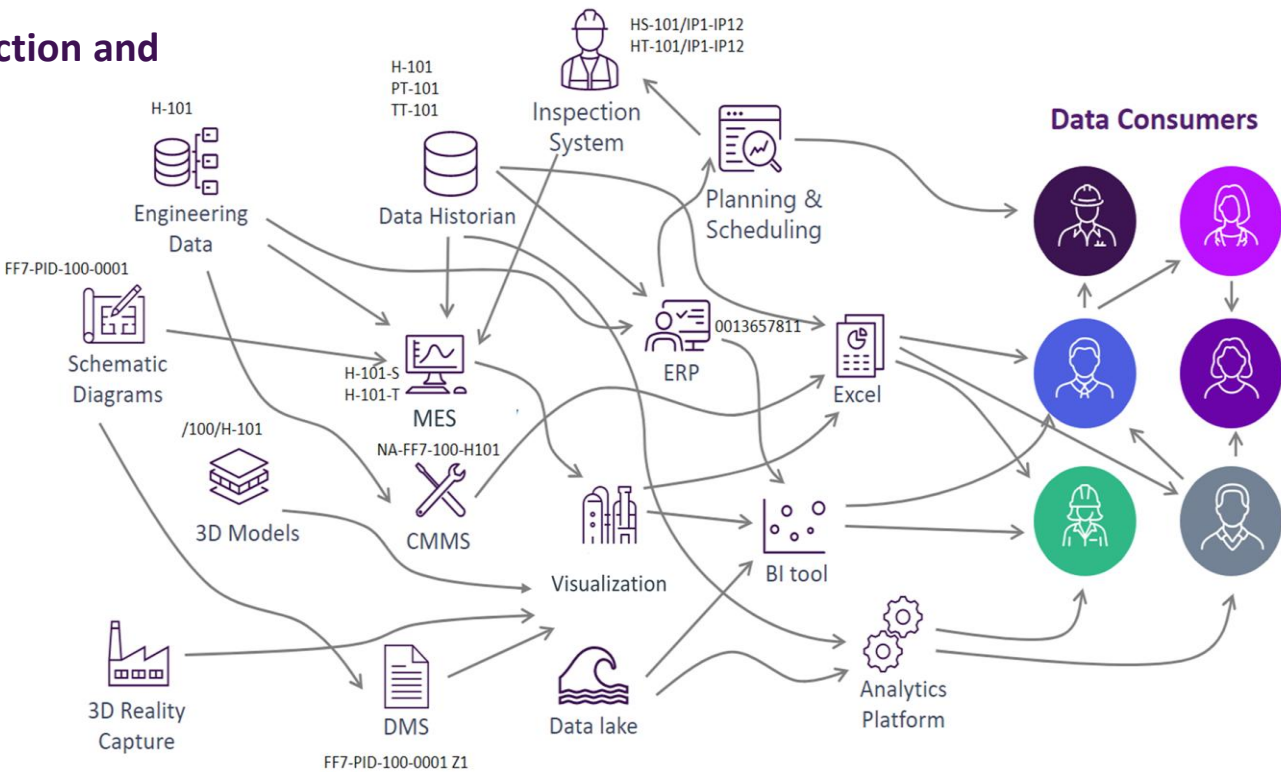
AVEVA

Hybrid MES solves part of the data problem

Data problem: industrial data trapped in silos, must be aggregated and contextualized into a fabric

Agnostic data connection and flows are a critical requirement

Data must be governed, secure and trusted



Many different data consumers with different requirements



Events

Start	Duration	Machine
Jul 12, 2019 10:01:06 AM	2 hours, 24 minutes	CNC 100
Jul 12, 2019 1:17:01 PM	6 minutes, 26 seconds	CNC 100
Jul 12, 2019 2:22:51 PM	11 minutes, 40 seconds	CNC 100
Jul 12, 2019 5:05:03 PM	18 minutes, 38 seconds	CNC 100
Jul 12, 2019 6:16:00 AM	8 minutes, 46 seconds	CNC 100
Jul 12, 2019 9:37:41 AM	6 minutes, 47 seconds	CNC 100
Jul 12, 2019 2:21:00 PM	7 minutes, 45 seconds	CNC 100
Jul 12, 2019 3:18:13 PM	23 minutes, 50 seconds	CNC 100
Jul 12, 2019 4:23:13 PM	7 minutes, 34 seconds	CNC 100
Jul 12, 2019 5:29:28 PM	12 hours, 40 minutes, 51 seconds	CNC 100
1128 records	5 months, 1 week, 3 days, 17 hrs...	

Spread sheets

Tag Number	Equipment Description	Manufacturer	Model Number	Serial Number
FF7-100-0001	Control Pump	Grundfos	100-0001	100-0001
FF7-100-0002	Control Pump	Grundfos	100-0002	100-0002
FF7-100-0003	Control Pump	Grundfos	100-0003	100-0003
FF7-100-0004	Control Pump	Grundfos	100-0004	100-0004
FF7-100-0005	Control Pump	Grundfos	100-0005	100-0005
FF7-100-0006	Control Pump	Grundfos	100-0006	100-0006
FF7-100-0007	Control Pump	Grundfos	100-0007	100-0007
FF7-100-0008	Control Pump	Grundfos	100-0008	100-0008
FF7-100-0009	Control Pump	Grundfos	100-0009	100-0009
FF7-100-0010	Control Pump	Grundfos	100-0010	100-0010



Many data silos with different representations of the same equipment

UNLOCKING PRODUCTIVITY, PERFORMANCE AND PROFITABILITY

Solving the Data Problem



The evolving industrial data landscape

From complexity to connected intelligence

The landscape is evolving	The challenge	What industry wants	AVEVA's perspective
• Industrial data volumes growing fast across ET, OT + IT • Advancing AI capabilities enable new data driven opportunities • Focus shifting from system performance to business outcomes	• Data remains fragmented across legacy and enterprise systems • Complexity limits scalability and insight generation • Value trapped in disconnected silos	• A unified data foundation spanning edge to cloud • Scalable, governed data management with context • Open, interoperable systems connecting old and new • A clear path to AI-driven, autonomous operations	• Breadth: Unified integration from engineering to performance • Depth: AI, digital twins, and analytics for predictive outcomes • Built on: Open, hybrid cloud, interoperable data foundation

AVEVA – 160 years of experience



“Data is a unique resource, one that actually increases in value the more that it is used.”

— *Dr. J. Patrick Kennedy*



Design



Build



Operate



Optimize



Design

Build

Operate

Optimize

CONNECT Industrial intelligence



Let's look at a Demonstration



Revenue

Revenue

0

\$51 M

60

Revenue Region

25M

13M

0

17

16

18

18

NA

EMEA

APAC

AUS

Production Volume

150 K

75 K

0

128

119

138

130

6 am

12 pm

6 pm

12 pm

CO2 Emission (mt)

11

8

4

0

W1

W2

W3

W4

W5

Efficiency

78.0

%

Safety

Number of Incidents

4 m ▲

15

8

0

5

4

7

3

W1

W2

W3

W4

Map View

Tile View

+
-

📍

🔍

🌐

California

82 % ▲

Texas

84 % ▼

Florida

75 % ▲

Toronto

78 % ▲

New York

77 % ▲

🔗

📄

Sustainability

Health

Performance

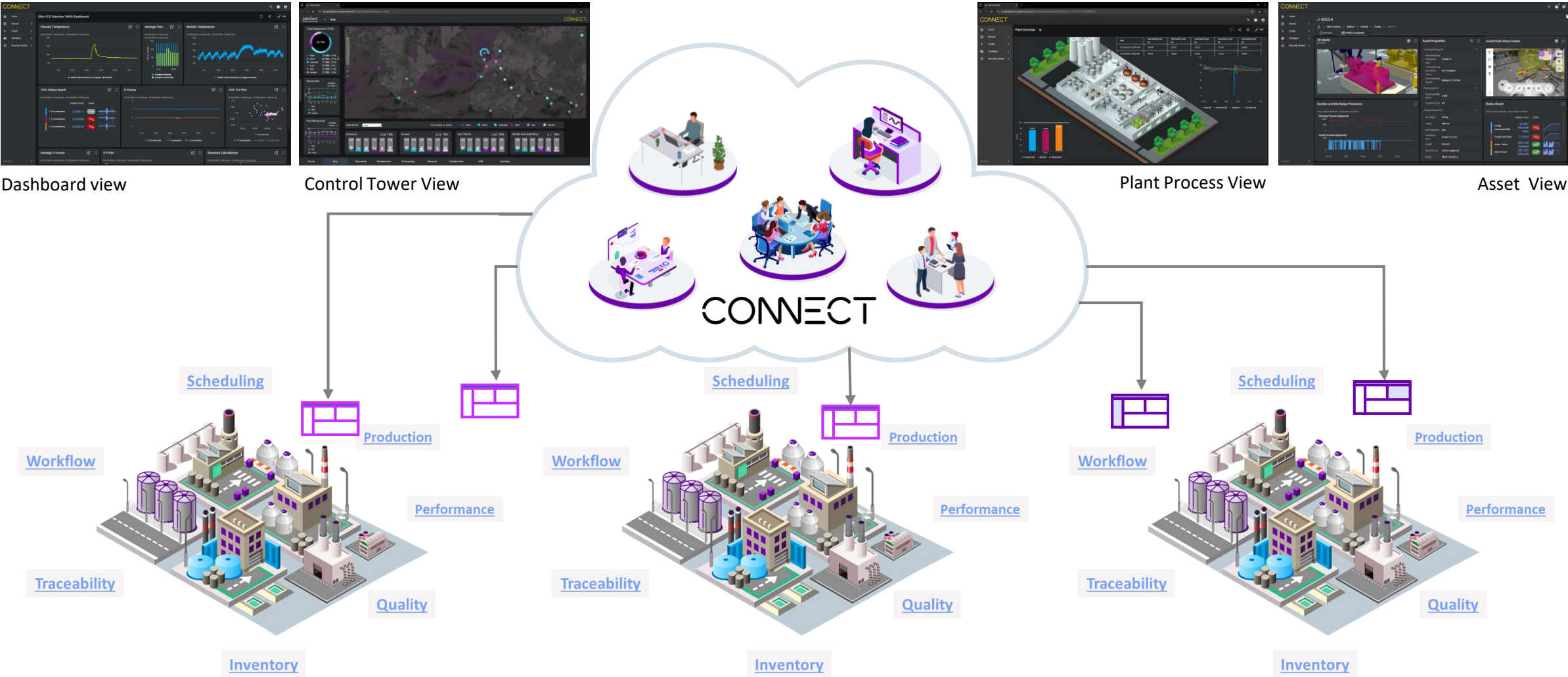
Supply Chain

Quality

Corporate

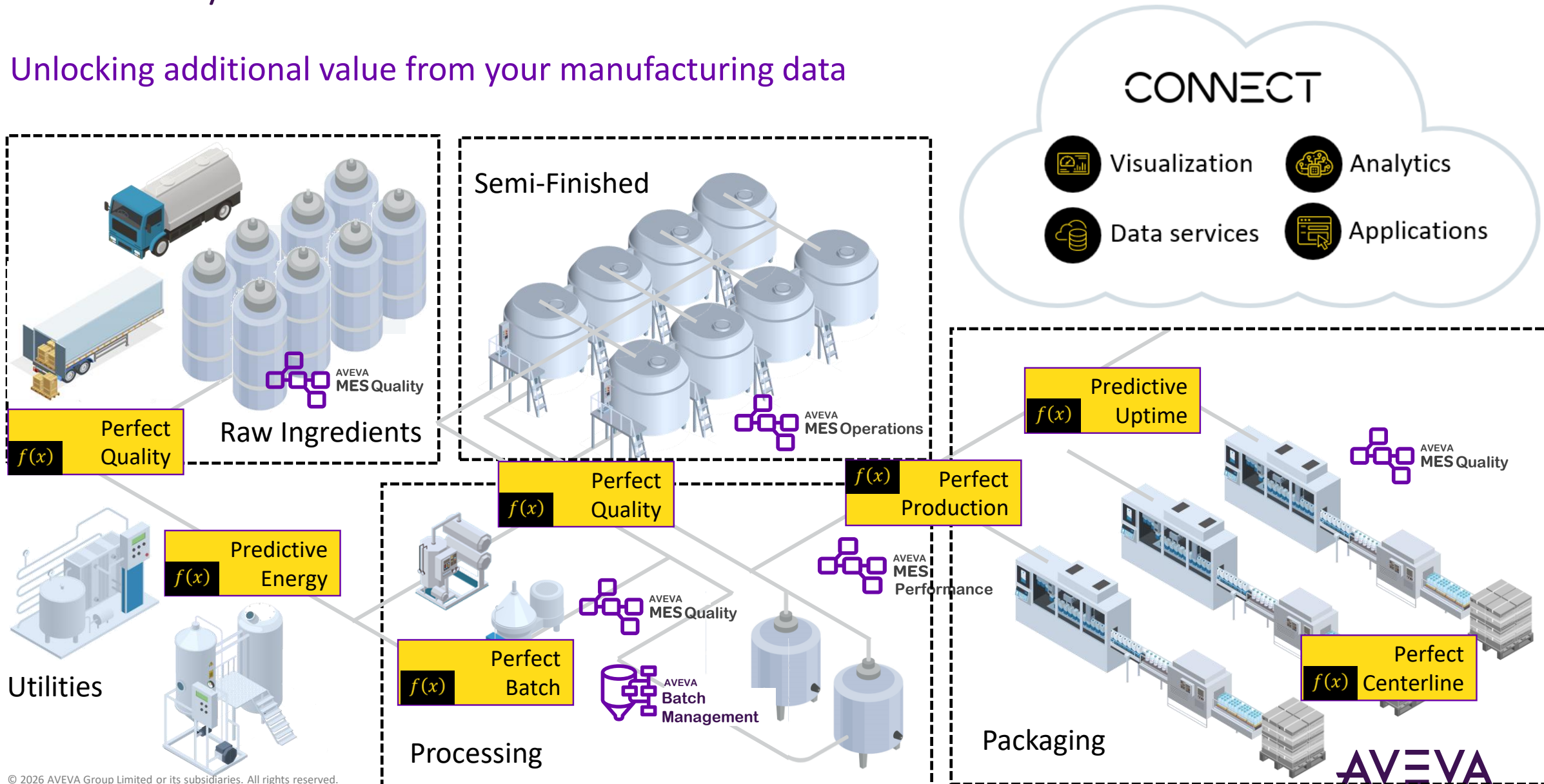
My Plant

Multi-site operations management and optimization



No Code/Low Code AI

Unlocking additional value from your manufacturing data



Nestlé: Harnessing advanced analytics and real-time data in the cloud to enhance product quality and minimize waste

Challenge

- Fully manual operation of the agglomeration process caused variability in product moisture and density
- Low product yield due to low moisture
- Inconsistent product caused unnecessary waste

Solution

- Deployed CONNECT and transferred data via AVEVA™ Historian. AVEVA™ Advanced Analytics was used to predict quality parameters of powder production and recommend optimal process setpoints, removing the need for resource-constrained on-premises systems to carry the additional burden of supporting this solution.

Results

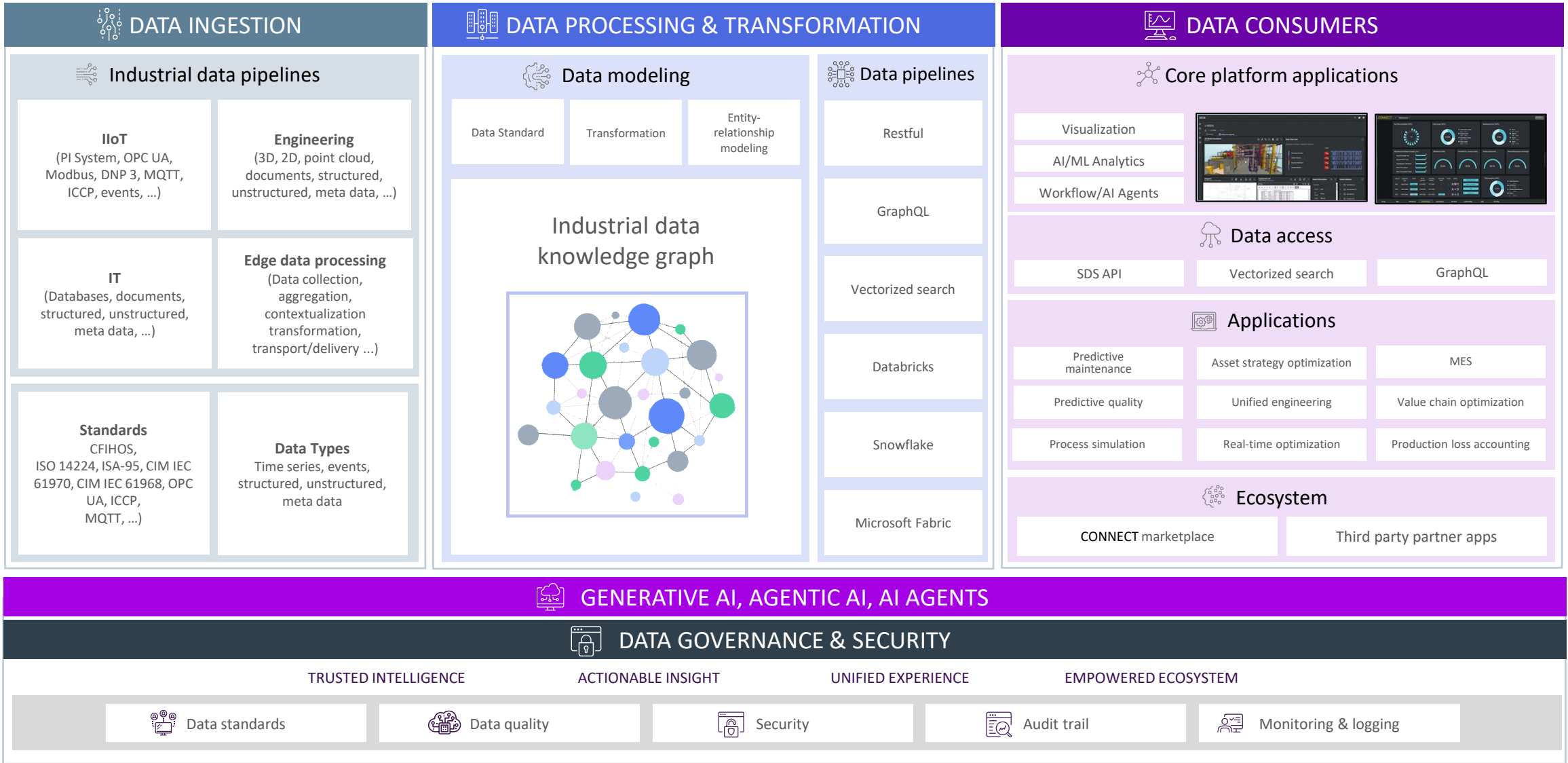
- **A 10% savings on Nesquik powder in the trial, or 101g saved from every 1kg jar**
- **Consistently tighter jar-to-jar weight variation**
- **Improved product consistency and consumer satisfaction**
- **Less product waste on production and packaging lines**



“Working with AVEVA’s Lighthouse team helped us to understand how we can realize even more value from our solution in the future. For instance, running the solution in the cloud means we can easily roll out the analytical model to other plants across different regions without needing to invest in additional on-premises infrastructure.

Greg O’Brien, Project Engineer and Project Owner, Nestlé

AVEVA Data Intelligence



Sessions of Interest

**Breakout: Norsk Kylling:
developing the world's most
sustainable poultry processing
plant with AVEVA MES**

Wednesday, May 20 @ 15:30
Room 2 Amber 1

**Breakout: AVEVA's
Manufacturing Execution
Systems portfolio roadmap**

Wednesday, May 20 @ 15:30
Room L2 Brown 2

**Breakout: AVEVA hybrid MES:
Smarter manufacturing with
CONNECT Visualization**

Thursday, May 21 @ 11:15
Room L2 Brown 1

**Roundtable: Scaling smart
manufacturing with MES,
what works and what not**

Tuesday, May 19 @ 15:45
Room The Hive

**Spotlight: Composable MES
2.0 Content release update
and outlook**

Wednesday, May 20 @ 14:00
Room L0 IZ Spotlight Lounge

**AVEVA hybrid MES : globally
distributed MES data
visualization and sharing**

Wednesday, May 20 @ 11:30
CONNECT Lounge

BREAKOUTS & ROUNDTABLES

AVEVA

Visit Us!

Stop by this booths in the innovation zone for demos and additional information:

Booth OPE2 Manage manufacturing execution and production operations in real-time

Demos:

- AVEVA Manufacturing Execution System
- AVEVA Production Management

Additional Expertise:

- AVEVA Batch Management
- AVEVA Recipe Management
- AVEVA Work Tasks
- Composable model driven MES



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.

Thank you!

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.

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.

 linkedin.com/company/aveva

 [@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