

Deploying Trusted AI in Manufacturing Operations

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A brief intro



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Enterprise transformation is not about big decisions

It's about the framework that guides the
hundreds of small decisions made every day

AI is great at helping you make decisions, but not if you don't trust it


54% of enterprises don't trust AI systems*

"Over the last 4 years we have reduced manufacturing OPEX spend by 3% but our non-manufacturing OPEX has grown 20% due to inefficient business processes"

"Poor production planning processes lead to a 50% increase in waste in just 12 months"

"Our core organizational knowledge rests with our most experienced team members"

Challenge:




A 2x2 grid of quilted squares representing different systems: ERP (top-left), MES (top-right), QMS (bottom-left), and CMMS (bottom-right). Each square has a unique pattern and color scheme.

Patchwork Systems



An illustration of hands holding a clipboard and a pen, symbolizing manual process adjustment.

Bending Process to Fit Systems



A vertical quilted square with the word "Excel" in the center, representing the use of a system for purposes not intended by the manufacturer.

Using Systems Beyond Intended Capabilities

What Customers Expect:



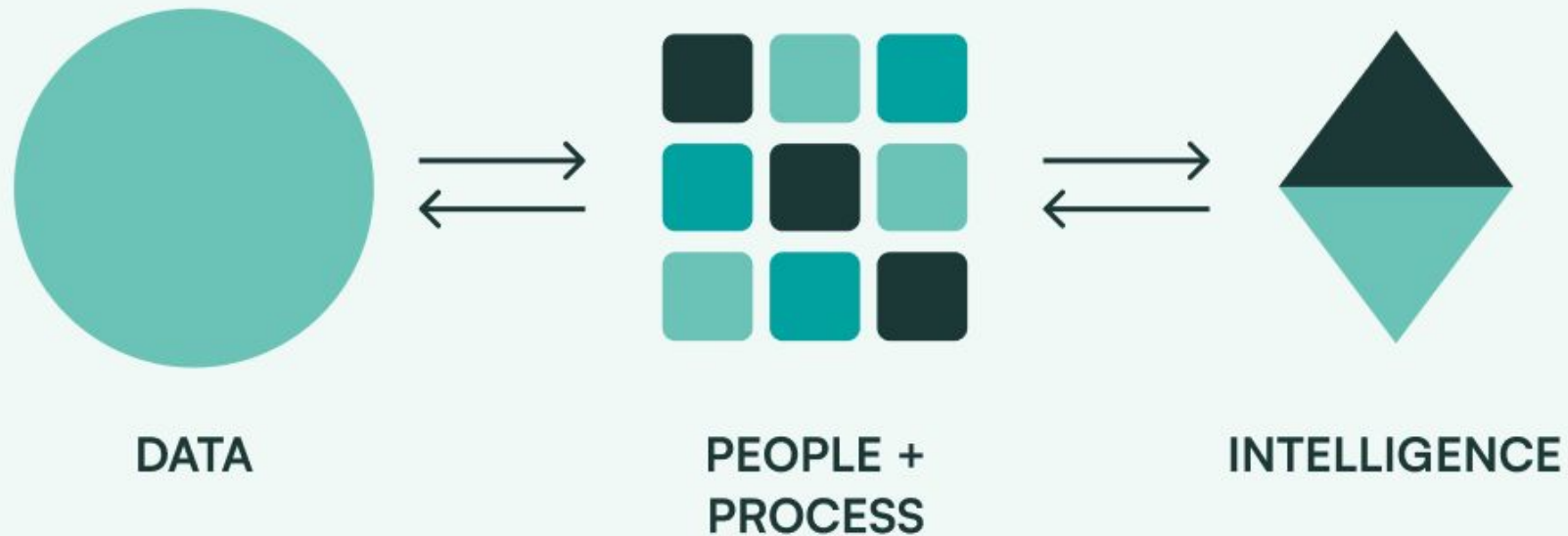
But we all know how that ends...



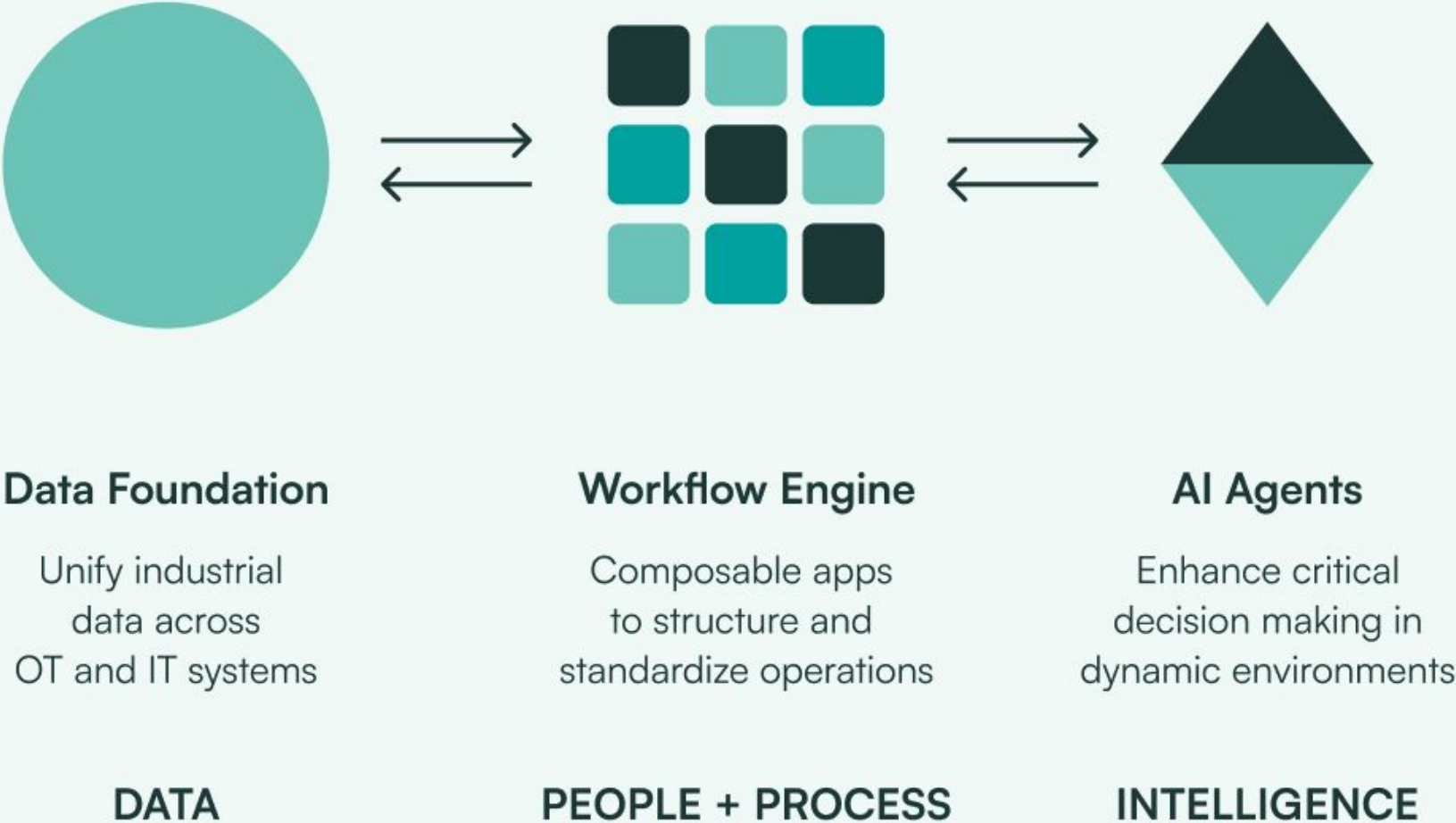
“Open the pod bay doors Hal”

The friction is in how AI works with people:

If you only layer AI across data sources, you lose the operational context that enables AI to actually make decisions.



Solution: an integrated **Workflow Engine** which captures decisions and provides a structured pathway for Operational AI.



Workflows create our decision space, they define the moves we can make to drive impact.



AI Agents



Operational Workflows

NOT THIS:



THIS:



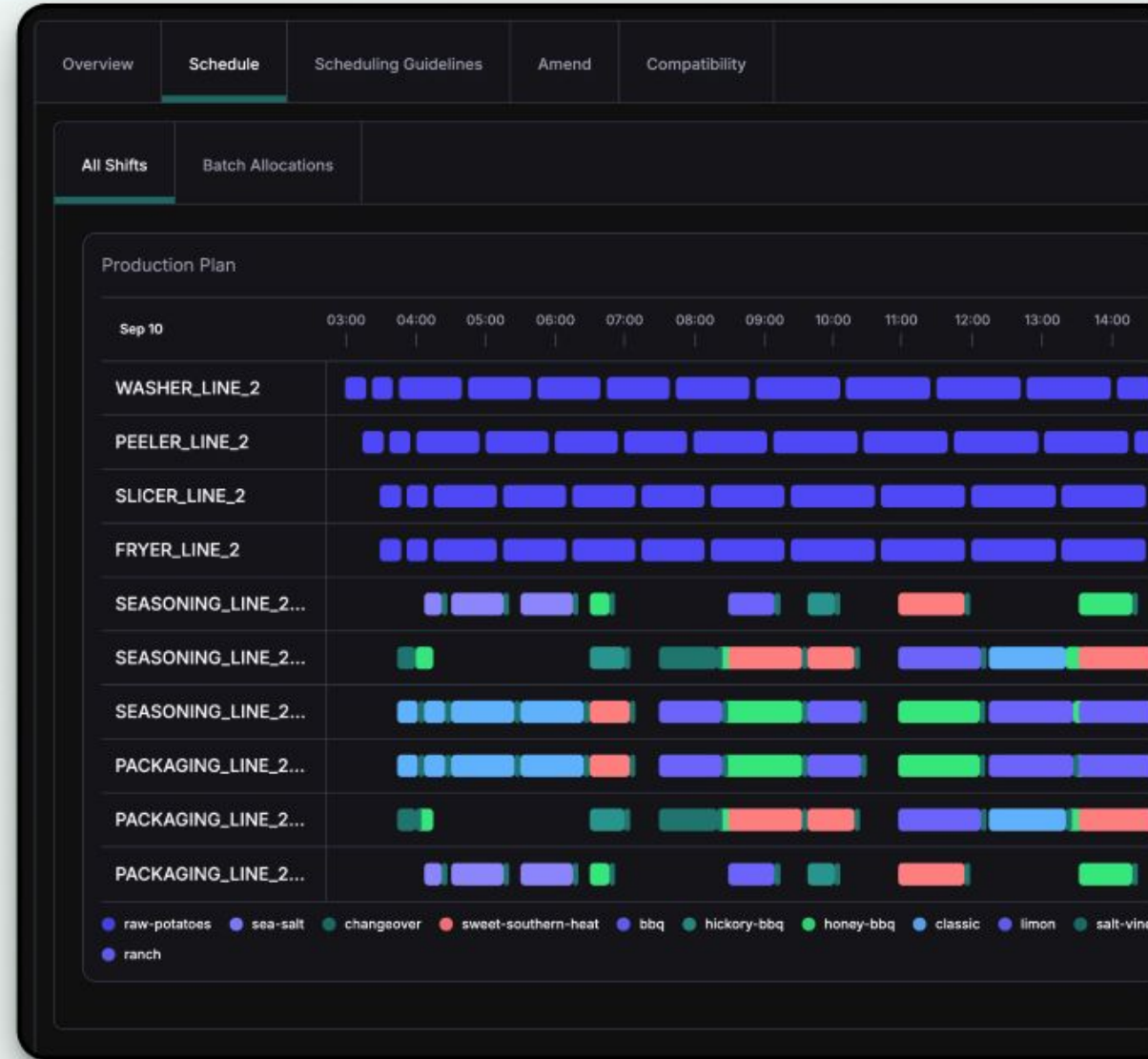
Forward Deployed Engineer (FDE):

A technical role that embeds directly with customers or internal teams to customize, implement, and deploy software solutions

Use Case 1: Production Schedule Optimization

Agent forms the interface translating our teams requests, into planning constraints.

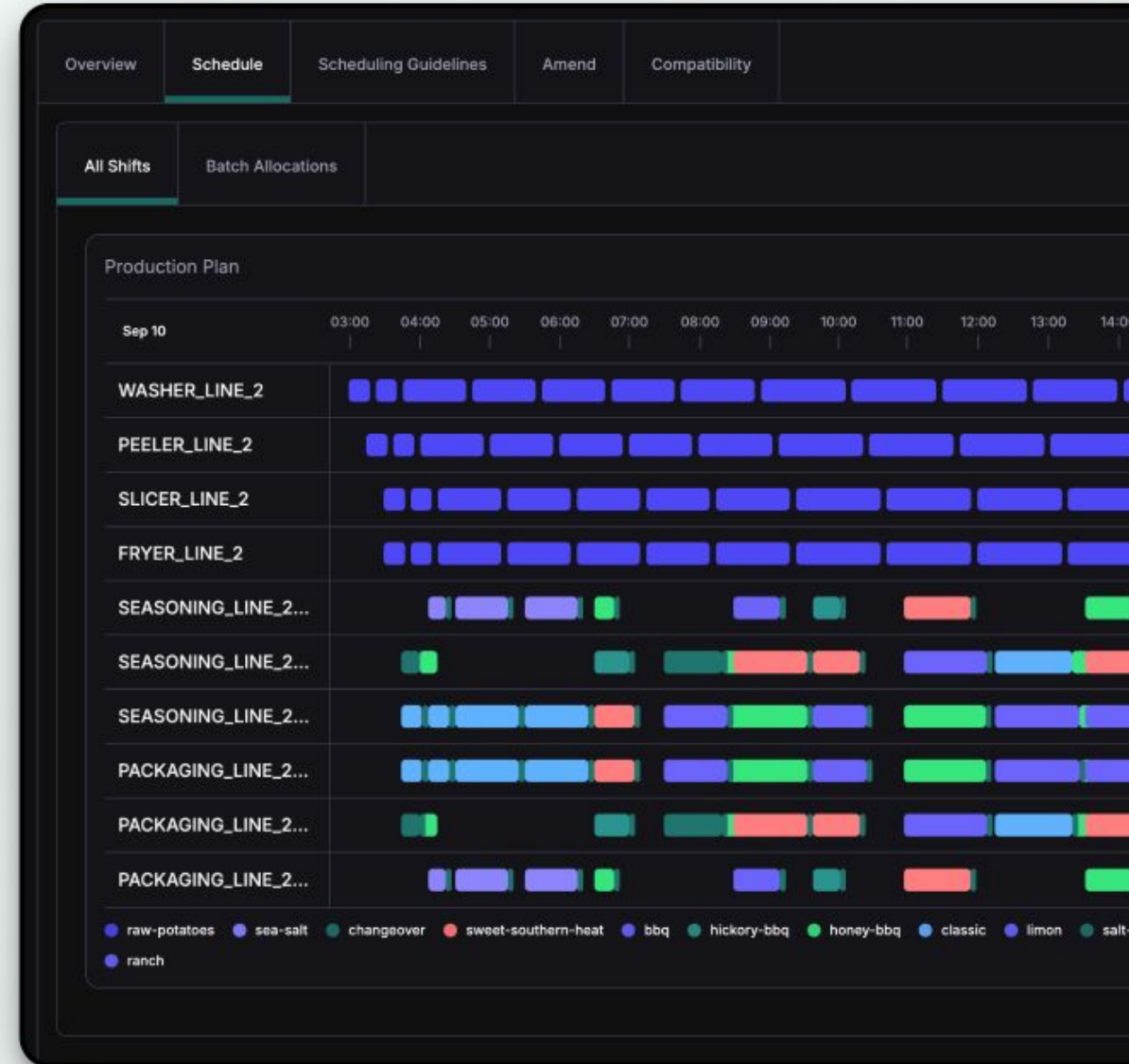
- Agent has constant oversight and over our entire supply chain.
- Ability to cross check inventory, supply chain and customer orders seamlessly.
- Coordination and communication.
- No need to “check in with purchasing/stock control” all of the information
- Fully integrated operations and planning with a common source of truth.



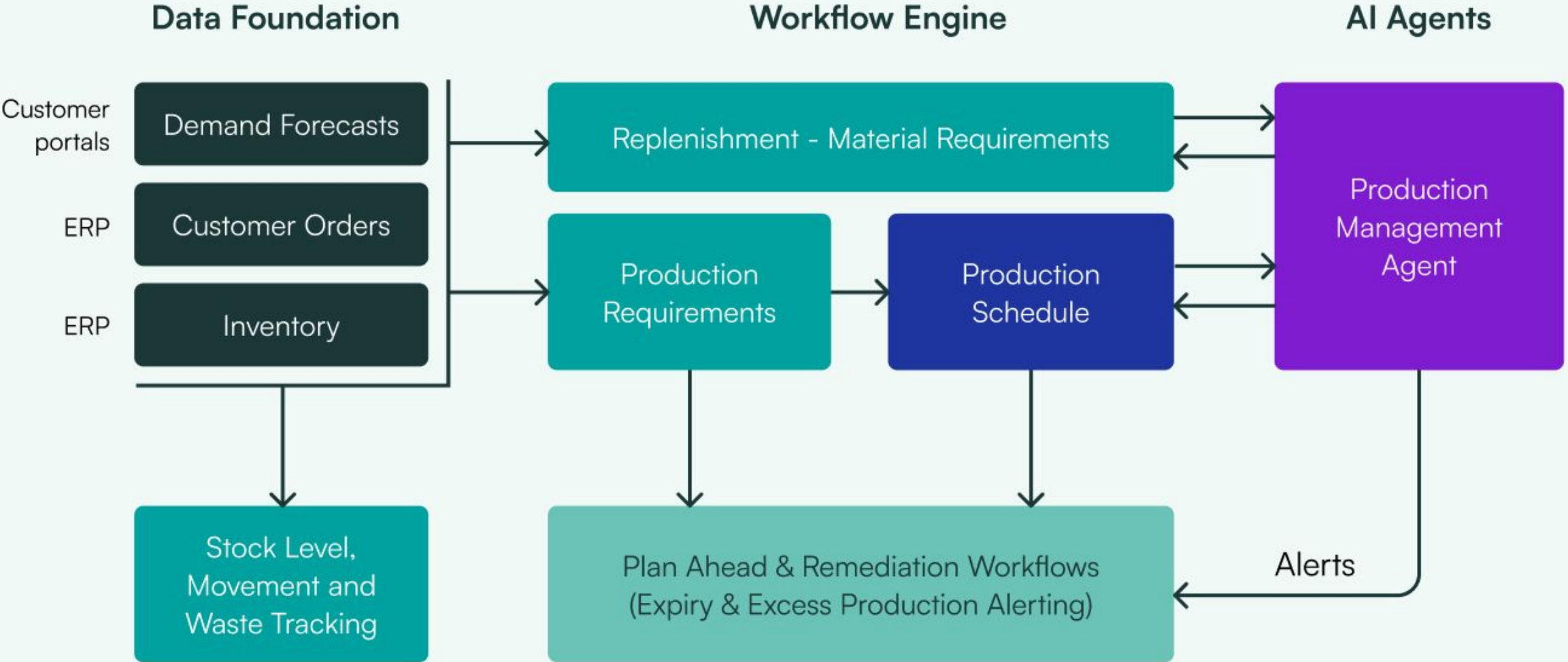
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Use Case 1: Production Schedule Optimization

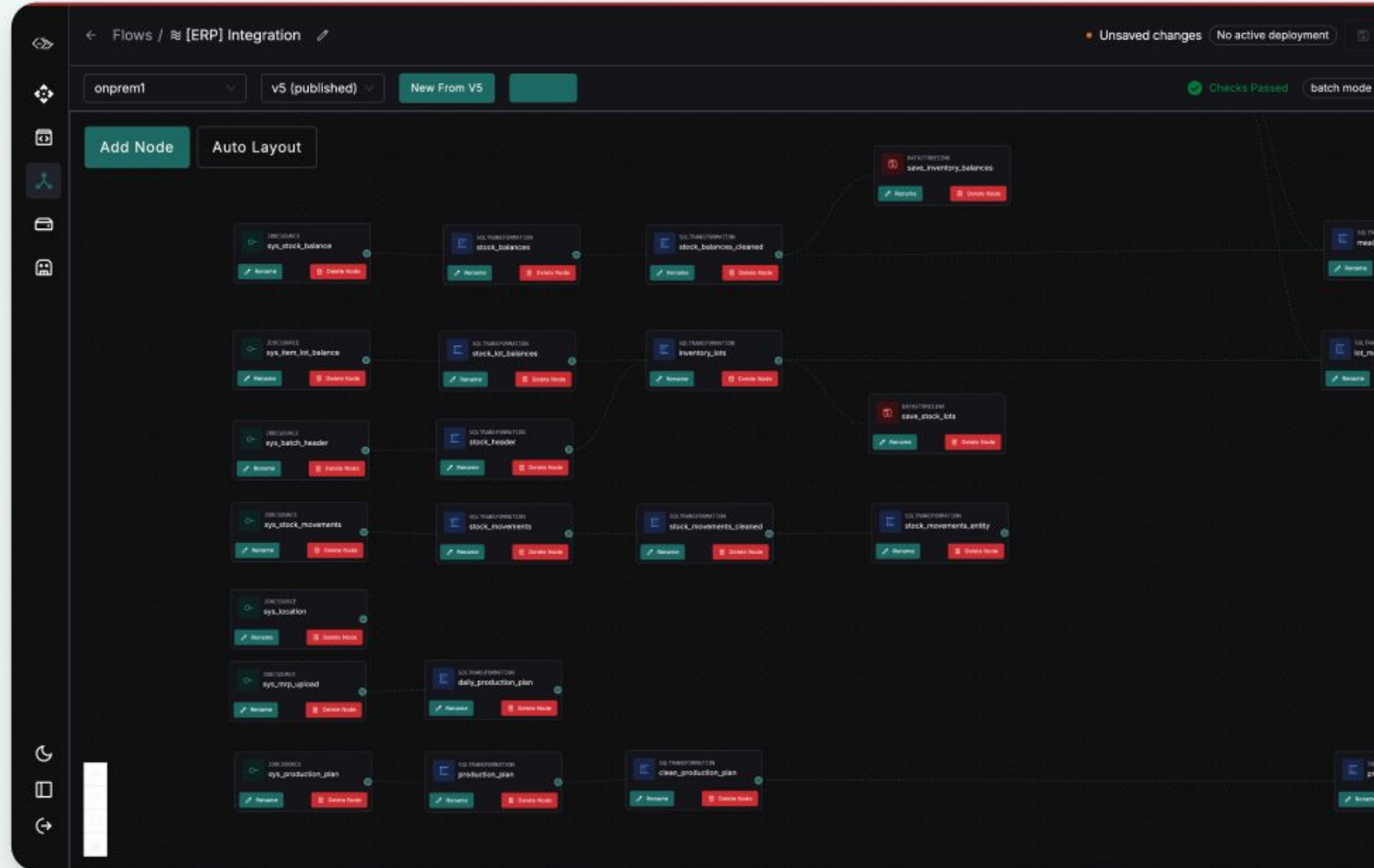


Use Case 1: Production Schedule Optimization

Data Foundation

Provides Agent complete Supply chain visibility.

- No need to “check in with purchasing/stock control” all of the information
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Products on Plan

13

Planned QTY

20,000

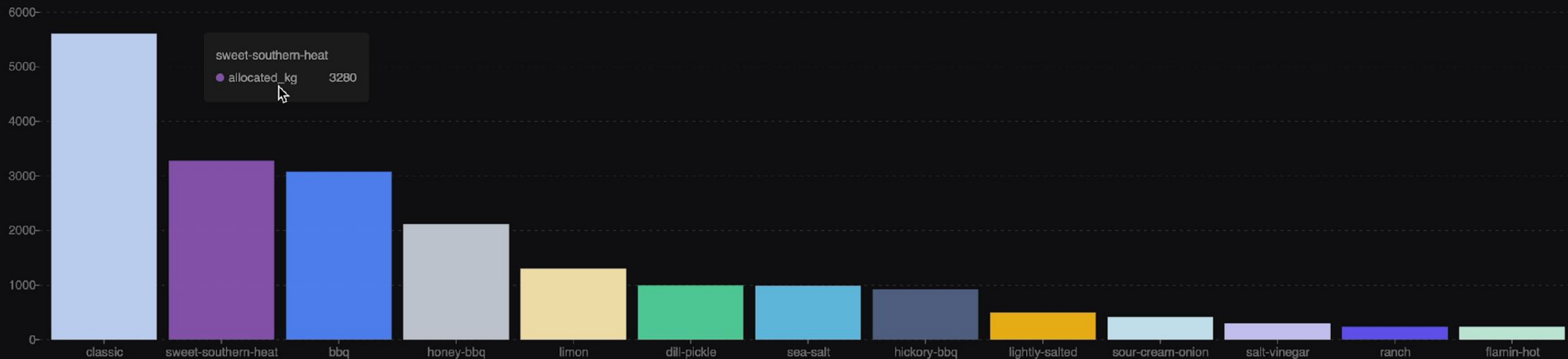
Changeovers

124

Batches

22

■ bbq ■ classic ■ dill-pickle ■ flamin-hot ■ hickory-bbq ■ honey-bbq ■ lightly-salted ■ limon ■ ranch ■ salt-vinegar ■ sea-salt ■ sour-cream-onion ■ sweet-southern-heat

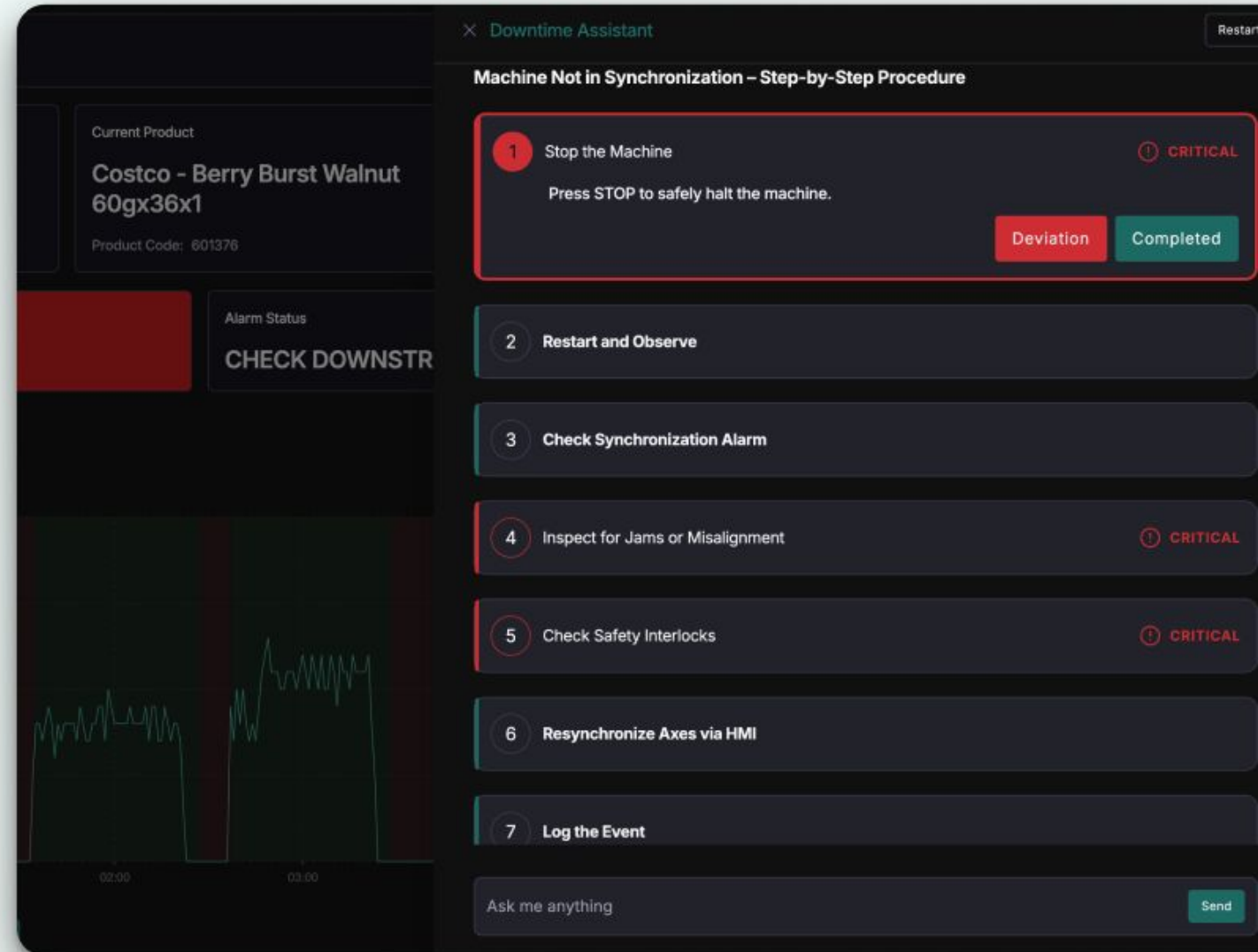


Work Orders:

Batch Id	Equipment Id	Product Id	Pack Size Id	Allocated Quantity Kg	Max Tumbler Speed Kg Per Min	Estimated Runtime Minutes	Required Changeover Minutes	Allocation Sequence
batch-2025-09-09-016	SEASONING_LINE_2_A	classic	pack-300g	500	9.00	56	5	1
batch-2025-09-09-016	SEASONING_LINE_2_B	lightly-salted	pack-300g	500	9.00	56	5	2
batch-2025-09-09-017	SEASONING_LINE_2_A	bbq	pack-200g	400	8.00	50	25	1
batch-2025-09-09-017	SEASONING_LINE_2_B	sweet-southern-heat	pack-150g	400	7.00	57	25	2
batch-2025-09-09-017	SEASONING_LINE_2_C	hickory-bbq	pack-150g	200	7.00	29	25	3
batch-2025-09-09-018	SEASONING_LINE_2_A	bbq	pack-300g	640	9.00	71	25	1

Use Case 2: Decision Support, Real-time Operator Guidance:

- Agents “onboard” organizational knowledge through interactions with our teams.
- Develop, manage and optimize SOPs, diagnostic pathways through 100s or 1000s of stop codes.
- **Every stop, every downtime event receives a complete root cause analysis.**
- We go beyond traditional preventative and predictive maintenance by being able to assess **novel failures** which may never have occurred before.



Production Line

Line F

Current Product

**Costco - Berry Burst Walnut
60gx36x1**

Product Code: 601376

Current Run Duration

1 Hour 21 Minutes

Product Count

34,567

Current Line Status

STOPPED

Alarm Status

CHECK DOWNSTREAM EQUIPMENT

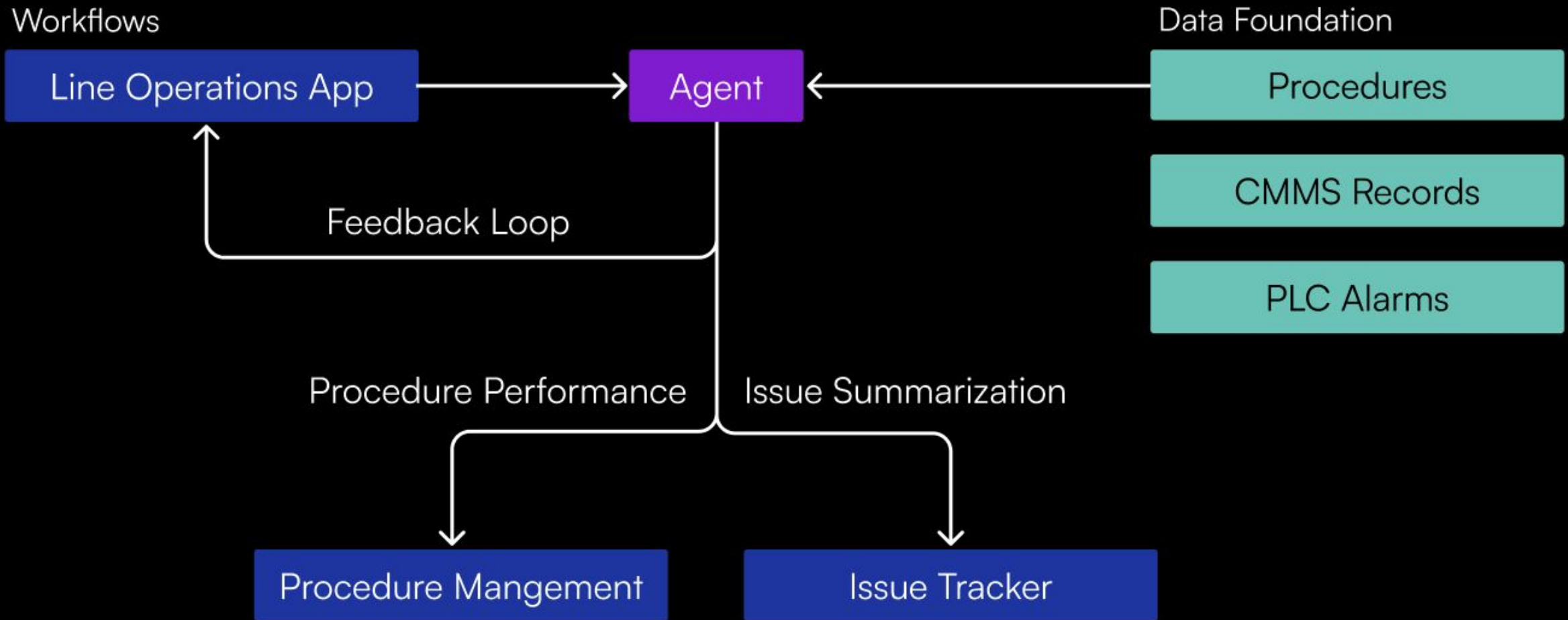
Operator

Ethan W

all



Operator Decision Support



Outcome: Online continuous evaluation of operating procedures integrated directly across Maintenance and Production teams

Find us at our booth 29

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