

BK CONSULTING

Supply Chain & Operations Strategy | Executive Advisory

Clarity in Supply Chain & Operations

INDUSTRIAL AI & OPERATIONS TECHNOLOGY INSIGHTS

Supply Chain | Manufacturing | Logistics | Operations

Week Ending August 23, 2026

Executive Readout

- Agentic AI is moving from copilots toward governed transaction execution. The differentiator is increasingly process context, permissions, observability and exception handling—not model novelty.
- Supply-chain software vendors are converging on orchestrated domain agents across planning, inventory, logistics, procurement and manufacturing.
- Physical AI is becoming an operations architecture question: robotics, simulation, machine vision, telemetry and workflow orchestration must work across vendors.
- The largest near-term value pools remain narrow, measurable workflows: planner exception reduction, inventory disposition, maintenance triage, quality inspection, logistics exception management and repetitive administrative work.
- Governance is now an operating requirement. Any agent touching ERP, WMS, TMS or OT should have authority limits, approvals, audit logs and rollback.

What Is Materially Changing

Vendor / category	Current direction	BK view
SAP	Role-based assistants and supply-chain agents tied to business-process context.	Strong fit where SAP process/data foundation is clean; test transaction authority.
Oracle	Embedded AI across SCM/manufacturing with movement toward coordinated agents.	Watch execution depth and measurable labor/cycle-time reduction.
Blue Yonder	Persistent domain agents plus orchestrator across end-to-end supply chain.	Architecture is compelling; validate interoperability and data-cloud dependency.
Kinaxis	Composable agents grounded in concurrent planning workflows.	Useful for planner productivity if exception quality is high.
AWS / physical AI	Simulation, robotics and AI infrastructure increasingly integrated.	Treat demos as architecture evidence; demand plant-level ROI proof.
Samsara / connected ops	Agentic workflows built on physical-asset telemetry.	Interesting for fleet, equipment and field operations because state data is native.
Computer vision	Quality inspection and safety use cases continue to mature.	Prioritize defects with high cost of escape or inspection labor.
Digital twins / simulation	Faster scenario testing before physical deployment.	High value when tied to real telemetry and decision rights.

AI Reality Check

Question	What good looks like
Pilot vs production	Named sites, users, transactions and autonomous actions live in production.
ROI	Pre/post metric: labor hours, downtime, service, inventory, scrap or cycle time.
Data readiness	Master data and operational signals reconcile before agent deployment.
Governance	Explicit authority limits, approvals, exception path, audit and rollback.
Human expertise	Operator/process-engineer knowledge is captured, not assumed.
Cyber / OT	Identity, permissions, segmentation and safe failure modes are designed in.
Resilience	Automation improves adaptability rather than creating a brittle optimized process.

Highest-Value Use Cases — Next 12 Months

- Supply planning: autonomous exception triage and scenario generation.
- Procurement: quote comparison, supplier-risk monitoring and contract obligation extraction.
- Manufacturing: vision inspection, maintenance triage, work-instruction assistance and schedule recovery.
- Warehousing: labor planning, slotting recommendations, exception handling and robotics orchestration.
- Logistics: shipment exception agents, ETA risk, claims/document automation and dynamic mode/routing recommendations.
- Executive operations: automated fact-base assembly with human approval before decisions or external communication.

BK Actions This Week

- Require every AI proposal to name the transaction or decision it changes.
- Measure baseline process performance before pilot launch.
- Prefer agent architectures that expose permissions, logs and rollback.
- Do not automate around bad master data; fix the operating process first.
- Keep human approval for high-consequence supplier, inventory, plant and transportation decisions until error rates are proven.

Sources & Notes

Public-source intelligence is used for directional executive decision support. Spot/channel prices are not OEM contract prices. Where historical or exchange data are gated, the limitation is stated rather than estimated.

[1] Blue Yonder, AI Agents for Supply Chain, current product materials.

[2] Oracle, AI for SCM and Manufacturing, current product materials.

[3] SAP supply-chain AI / agent announcements, 2026.

[4] Kinaxis Maestro / agent materials, 2026.

[5] AWS industrial/physical AI demonstrations and manufacturing materials, 2026.

[6] Samsara Agent Studio / connected operations materials, 2026.

[7] Current 2026 industry reporting on agentic AI in supply chain and operations.