



Automotive & Advanced Manufacturing

Driving what matters: agility, quality, and safety

SUPPLY CHAIN REIMAGINED

Today, companies compete in a world of unprecedented risk with growing variability of demand, supply, and lead times. Operations must adapt to changing customer preferences, disruptions, material shortages, yields, shifting regulatory and ESG requirements, instability in manufacturing and sourcing regions, talent shortages, rising energy costs and inflationary pressure. For products with 1000s of parts, the promise of AI and automation is only fully realized when boundaries between functions, data, workflows, and partners are eliminated to illuminate challenges in networked operations.

Competitive advantage requires a modern approach, aligning material, logistics, and inventory flows to demand, improving latency and utilization to bring promising innovation to market faster. This requires a system of orchestration that crosses enterprise lines, incorporating market signals of change faster and in context.

System of Orchestration Beyond Boundaries

Supply chains are complex multi-party networks that need to synchronize to efficiently respond to change. Workflows span functions and a collective of partners – OEMs, multi-tier suppliers, carriers and LSPs, contract manufacturers, distributors, and customers. Data and process latency creates barriers to effective response.

In 2023, Gartner published a list of investments to capture competitive advantage by 2028. “95% of supply chains must quickly react to changing conditions, but only 7% are able to execute decisions in real time.” The focus was not on functional point solutions that promote narrow KPIs. Instead, they prioritized a digital supply chain twin, advanced analytics, AI/ML, and process and task mining. Together, these enable adaptive workflows that cross boundaries, potentially even sitting on top of existing systems. Together, this defines ONE’s digital supply chain platform.

“One Network was the only solution that offered a seamless, integrated suite that could enable planning, execution, and optimization across all supply chain functions, to maximize results. We have seen dramatic inventory reductions; on average more than double what we targeted.”

GLOBAL DIRECTOR OF MATERIALS & LOGISTICS, DANA INC.

ONE's proprietary AI and intelligent agent technology monitors the network for change. But visibility and early detection are only the first step. ONE holistically links signals with impact on material, order, logistics, production, and demand flows. Perpetual inventory, capacity and moving chokepoints all point to where and when to intervene.

Insights not only drive execution; they inform continuous incremental planning as patterns emerge. Manufacturers not only gain unprecedented levels of visibility, but the ability to coordinate parties against one shared version of the truth.

Sample Capabilities for Advanced Manufacturers

Digital Twin & Control Tower: Network-wide perpetual inventory, material availability, and capacity

Multi-Echelon Inventory Optimization (MEIO): Multi-party, multi-tier, multi-node inventory management

Lean Plan for Every Part (PFEP): Integrated material flow across procurement, production, and delivery

Demand-Driven Logistics & Dynamic Routing: Re-optimize milk runs and JIT fulfillment in response to shifting priorities

Multi-Site Collaborative Demand/Supply Match: S&OP of node-specific flow chokepoints for parts and finished goods

Carrier & LSP Collaboration: Integrated logistics planning, optimization, scheduling, tendering, and settlement

Demand & JIT Materials Management: Cross-channel forecast, propagating needs upstream to plants and suppliers

Order Promising & Dynamic Allocation: Rules-based to reflect shifting demand, supply, and cycle times

Chain of Custody (CoC) & Recall Management: End-to-end traceability across nodes, modes, and inventory form

Aftermarket Parts & Spares Management: Reverse logistics and disposition for returns

Scenario Planning & Risk Framework: Simulations with cascading impact due to change

“To unlock the full potential, companies need to deploy an AI-powered learning system that is integrated across functions. This system makes decisions based on enterprise-wide and external data and continuously learns from the outcomes to improve performance.”

BOSTON CONSULTING GROUP

DANA CASE STUDY

\$10.2B provider of powertrain components
125 plants in 31 countries. 13 aftermarket DCs. 51 ERPs.
1,000+ suppliers. 13,000+ customers. 150 carriers.

CHALLENGES & OPPORTUNITIES

Need a system of orchestration across data silos, systems, and supply base. Reduce excess safety stock used as a buffer to variability and poor visibility. Create lean processes to coordinate materials, production, logistics, and demand flows. Reduce transport spend and improve asset utilization.

BENEFITS REALIZED

- Product-specific material flows with moving chokepoints
- Auto-propagate for 1000s of parts back to suppliers
- Cut inventories 31%, 5-10% more in key segments
- Reduced expediting and shipment frequency
- Increased freight and production asset utilization



Whether you need to streamline workflows across functions or with network partners, contact us to learn more about how to get started.

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