

Planning and Fulfillment

Supply chain optimization for an interconnected global network



Many companies are transforming their linear, sequential supply chain into digital supply networks (DSNs)—interconnected, open systems of supply operations that can more readily incorporate ecosystem partners and dynamically respond to changing customer behaviors. Within DSNs, synchronized planning and fulfillment is a series of capabilities that leverages the constant flow of data from throughout the supply network to continuously and accurately plan production to match actual demand and rapidly deliver exceptional service at an optimal cost to serve. This constant collaboration between supply and demand creates a more dynamic, flexible, and efficient supply network that becomes an increasingly integral part of strategic planning and decision making and a primary value driver of an elevated customer experience.

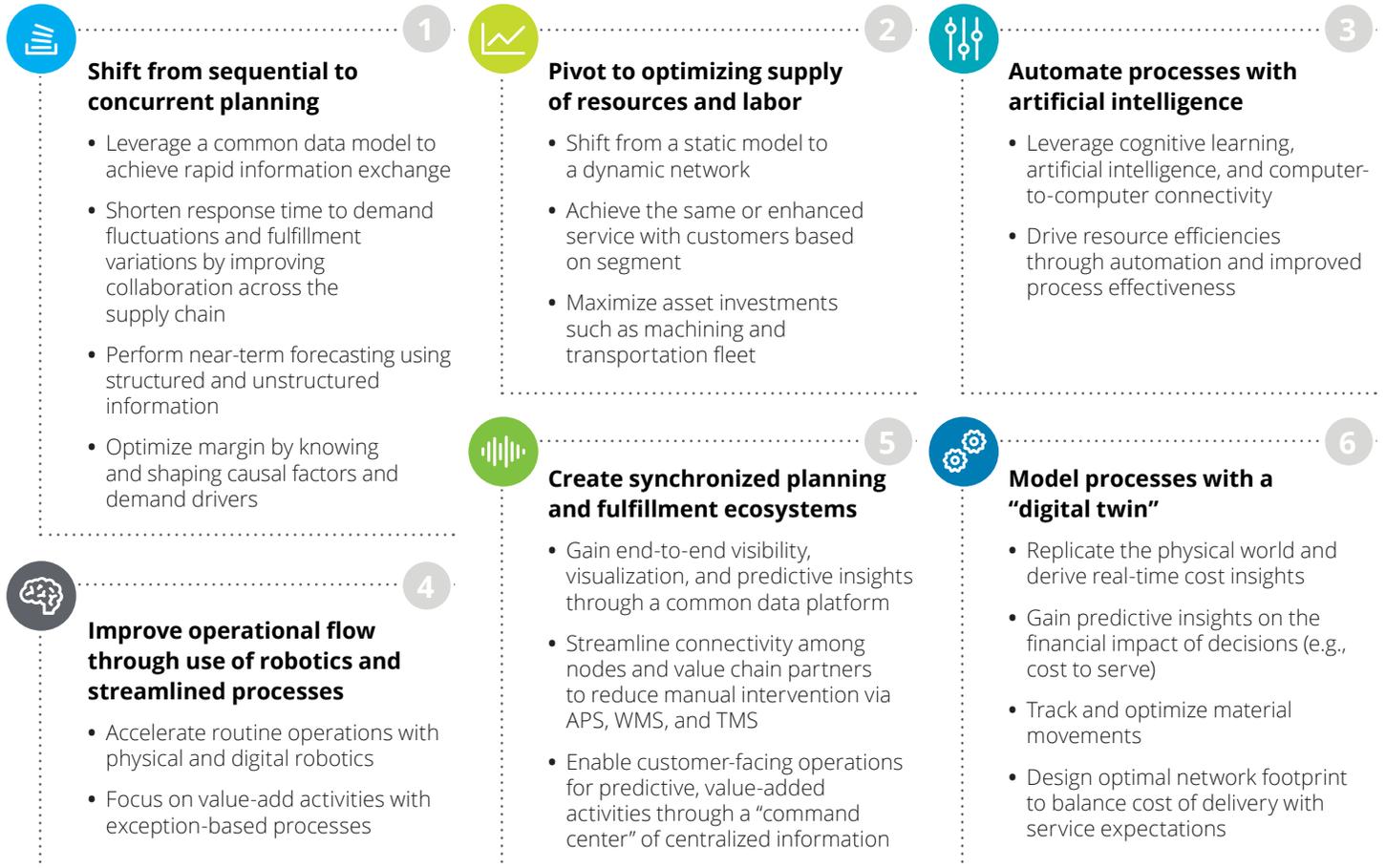
Drivers of change

As customer expectations become more sophisticated, the demand for the swift delivery of individualized products and services increases. Organizations are looking to more agile and connected supply chains to meet the needs of all value chain partners while simultaneously delivering on heightened customer expectations. Advances in technology—including cloud computing, artificial intelligence (AI), the Internet of Things (IoT), and robotics—enable highly responsive DSNs that orchestrate continuous collaboration between supply and demand, planning and fulfillment, and expectations and customer satisfaction.

A synchronized planning and fulfillment strategy can help facilitate the end-to-end planning, production, and distribution of products and services. Armed with this strategic roadmap, organizations can more readily evolve their supply chain capabilities to make fulfillment personal, commerce seamless, technology invisible, and trust automatic.

Six steps to synchronized planning and fulfillment

A synchronized planning and fulfillment strategy can help your business reconfigure its supply chain planning and fulfillment ecosystem, allowing your organization to continually optimize. In this way, synchronized planning and fulfillment orchestrates supply chain efficiency, helping to streamline and accelerate core processes while delivering insights that drive smarter decisions.



Orchestrating the benefits of efficiency

Synchronized planning and fulfillment can help your organization achieve ongoing efficiencies and cost savings in a variety of ways.

Renewing a focus on value as stakeholders are often more supportive as the value of improvements becomes well-defined and impactful

Reducing human interventions, and being always on through AI-driven workflows

Enabling continuous and real-time feedback between financial and customer-satisfaction targets, synchronized demand and supply-planning models, automated fulfillment capabilities, network and transport models, and AI-driven decision engines, helping to accelerate insights

Enhancing supply chain processes through machine learning, digital-physical interactions, and automation

Driving new forms of business value by unlocking capabilities and offerings for new customer segments

How Deloitte can help

Deloitte's Planning & Fulfillment practice offers leading-class experience and technological-innovation capabilities that help senior executives—including COOs, CFOs, and supply chain leaders—identify and realize new value from their supply networks. Our operational know-how, digital technologies, advanced analytics capabilities, and industry-specific hybrid solutions help businesses create more efficient, flexible, and responsive value chains. Additionally, we help improve operations, product, and material flow across the breadth of the value chain to create greater supply network synergy and value. Here's how we do it:

Assess the maturity of your current operations to inform the strategy and implementation plan and to create a roadmap to breakthrough planning and fulfillment capabilities.

Capability assessments

- Network assessments
- Product-flow assessments
- Inventory assessments
- Warehouse operations assessments
- Transportation assessments

Strategy and roadmap definition

- Logistics and distribution
- Transportation strategy
- Network and product-flow strategy
- Inventory optimization
- Integrated business planning
- Omnichannel fulfillment
- Customer-fulfillment strategies



Develop and implement processes and technology to optimize end-to-end operations and total enterprise value.

- Warehouse operational improvement
- Control tower
- Sales and operations planning optimization
- Integrated business planning
- Transportation management
- Warehouse management
- Omnichannel fulfillment
- Supply chain planning optimization
- Supply network optimization

Manage data analysis, automate processes, and deliver insights that support day-to-day operations, freeing your business to focus on strategic imperatives that advance the business.

- Continuous improvement of warehouse operations
- Control tower operation and optimization
- Omnichannel fulfillment optimization
- Integrated business planning
- Continuous improvement of distribution network
- Continuous transportation optimization

Synchronized planning and fulfillment is enabled by disruptive technologies that provide the computing power, insights, and capabilities required for continuous collaboration.



Cloud computing

Cloud computing provides the computational power necessary to efficiently drive the digital-fulfillment process.



Artificial intelligence

Using pattern recognition and algorithms to interpret data and translate it into real-time insights, AI simplifies tactical planning and automates much of the decision making.



Internet of Things

Smart sensors can be embedded in various devices to transform data into insights that can, in turn, drive improvements in digital fulfillment.



Robotics

Both virtual and physical robotics, including RPA, drive the automatic completion of tasks based on specific directions.

Let's talk

Learn more about how your business can benefit from the new world of interconnected, concurrent, and always-on planning and fulfillment processes. We're here to help.

Rafael Calderon

Principal
Deloitte Consulting LLP
+1 404 631 2567
rcalderon@deloitte.com

Piyush Sampat

Principal
Deloitte Consulting LLP
+1 816 802 7327
pisampat@deloitte.com

Deloitte.

This document contains general information only and Deloitte Risk and Financial Advisory is not, by means of this document, rendering accounting, business, financial, investment, legal, tax, or other professional advice or services. This document is not a substitute for such professional advice or services, nor should it be used as a basis for any decision or action that may affect your business. Before making any decision or taking any action that may affect your business, you should consult a qualified professional adviser. Deloitte Risk and Financial Advisory shall not be responsible for any loss sustained by any person who relies on this document.

As used in this document, "Deloitte Risk and Financial Advisory" means Deloitte & Touche LLP, which provides audit and risk advisory services; Deloitte Financial Advisory Services LLP, which provides forensic, dispute, and other consulting services; and its affiliate, Deloitte Transactions and Business Analytics LLP, which provides a wide range of advisory and analytics services. These entities are separate subsidiaries of Deloitte LLP. Please see www.deloitte.com/us/about for a detailed description of our legal structure. Certain services may not be available to attest clients under the rules and regulations of public accounting.