SUPPLY CHAIN 4.0:

6 Ways Digital Transformation is Transforming the Supply Chain



Digital transformation is heralding the next era in supply chain management, in which suppliers and customers come together in entirely new ways, blurring the lines between the digital and physical worlds and erasing traditional organizational boundaries.

An overarching and unavoidable revolution, digital transformation is driven by the confluence of several different technological disruptions, including Big Data and analytics, unprecedented connectivity via machine-to-machine and human-to-machine interaction, 3-D printing, automation, artificial intelligence and augmented reality. The digitization of the supply chain promises to reduce inefficiencies and lower costs while improving flexibility—critical ingredients for boosting resiliency.

The pandemic's disruptive impact on global supply chains has heightened the need for organizations to focus on risk mitigation and increasing resiliency. By capitalizing on digital technologies and increasing real-time visibility into every part of the value chain, companies can more proactively identify areas of potential risk prior to an issue, or more quickly notice and respond to disruption.

The digital supply chain isn't just about risk mitigation. It can also be a source of competitive advantage, as every node in the supply chain is leveraged for business intelligence and greater collective benefit.



HERE'S A LOOK AT SIX WAYS DIGITAL TRANSFORMATION IS TRANSFORMING THE TRADITIONAL SUPPLY CHAIN.





3. Formation of the Digital Thread

The digital thread is a communication framework for sharing information to all data consumers upstream and downstream, creating a constant feedback loop. Beyond connecting data and systems, the digital thread requires the integration of workflows and people. Improved data communication will enable the whole product chain to become more responsive in terms of changes in design, manufacturing, volume, reworking and through-life service provisions. Ultimately, establishing this digital thread between suppliers, your organization and customers is the cornerstone of the evolution from supply network to integrated value chain, where suppliers and customers collaborate to achieve efficiencies and lower costs. The real value of the digital thread comes from better business intelligence and greater intimacy with supplier performance and customer behavior.



5. Evolving Customer Expectations

Many companies are reevaluating their distribution models as consumer shopping habits change. Today's customers have little tolerance for delayed or incorrect orders, meaning logistics and distribution—from warehousing to order fulfillment to shipping—must happen at lightning speed. As a result, some organizations are moving from direct store to centralized distribution and real-time inventory management, allowing order points to be less tied to warehouse inventory levels and more responsive to demand. As most customer transactions shifted online during the COVID-19 pandemic, companies are taking a cue from retailers and building their own e-commerce capabilities. Some business-to-business (B2B) organizations may even decide to shift to selling direct-to-consumer (DTC) and leverage retailers' strategies for improving their digital customer service capabilities. This includes creating digital order forms and online store fronts, allowing for remote communication with customers. By leveraging virtual or augmented reality tools, businesses can even offer simulations of facility tours and showcase new products or service offerings.



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