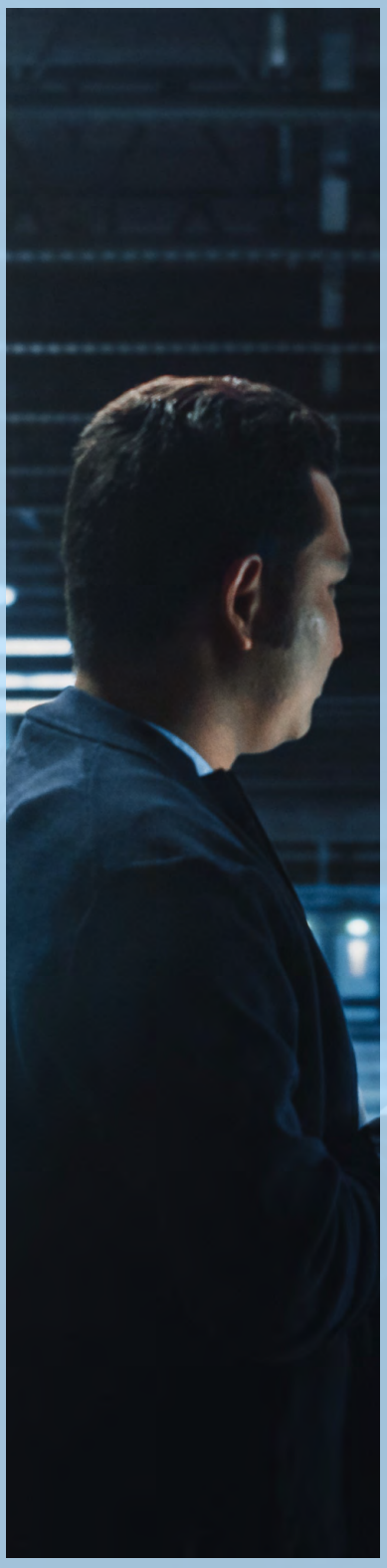
TRANSFORM UNCONNECTED ANALOG SUPPLY CHAIN INTO CONNECTED AUTONOMOUS ECOSYSTEM WITH INFOSYS SUPPLY CHAIN INTELLIGENCE CLOUD



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Many of established supply chains still follow a linear sequence, starting with Demand Shaping, Planning, Sourcing, Procurement, Production, Distribution, and Delivery. They are not efficient in handling fluctuations in Demand & Supply patterns caused by vulnerabilities of global market conditions, or evolving Omni channels. These linear supply chains lag in providing complete visibility on the impact of such fluctuations and are unable to respond in time to manage the ramifications proactively and dynamically.

Major challenges faced by a typical linear supply chain include:

- Delayed assessment on the bi-directional impact of breakdown in any leg of the supply chain.
- Missing unified view of the situation, and its accessibility at all touchpoints and channels.
- Supply disruptions – adjustments at each stage before the impact snowballs.
- Lack of flexibility in manufacturing process to maintain higher utilization and lower costs.
- Inadequate response to operational risks and events leading to productivity loss , delays in supply chain and inefficient inventory management.
- Enforcing and measuring sustainability across complex supply chains

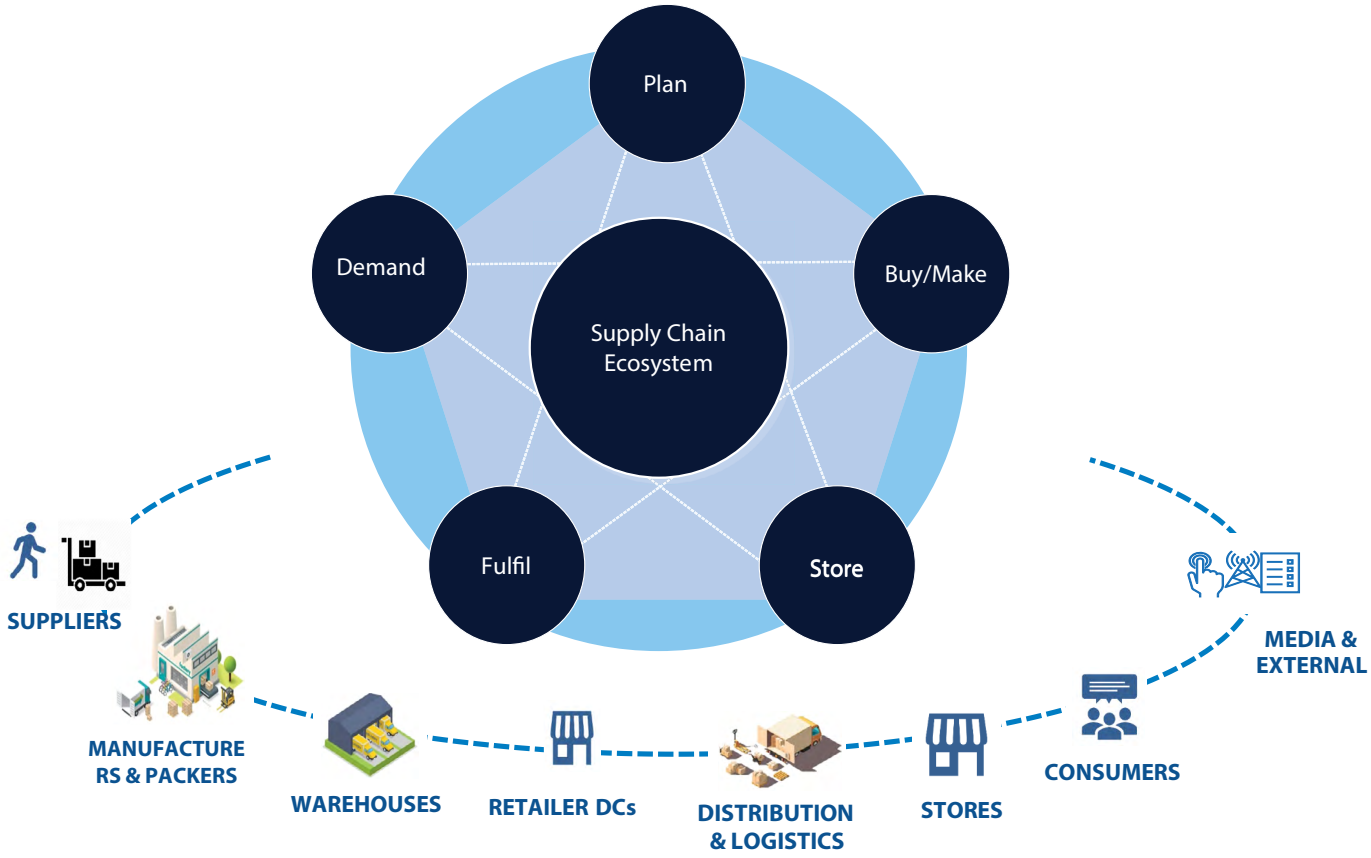
Infosys Supply chain intelligence cloud

Infosys' Supply Chain Intelligence solution helps realize a live, interconnected supply chain ecosystem, enabling interaction amongst all its participants including suppliers, manufacturers, distributors, logistics carriers, consumers, warehouses, retail outlets, and influencers like media and external stakeholders.

Embedded AI across the chain facilitates quicker optimal choices in the least time possible to respond to developing scenarios.

Infosys' proprietary "Autonomous Data Engineering Framework" will be used for pre-defined templates "to collect, curate, harmonize, and process data from sources," along with Google's existing Supply Chain ingestion templates. Google cloud-native services would be leveraged for data integration orchestration, and Vertex AI to train and operationalize the Machine Learning models.

Data Powered Interconnected Ecosystem to Realize an Intelligent Supply Chain which is more Responsive, Agile and Autonomous



Infosys' Supply Chain Intelligence Cloud solution brings together its best-of-breed offerings such as Cobalt, Equinox, and Trade Edge along with partner solutions to help transform the unconnected analog supply chain into a connected ecosystem. Below are some of the characteristics of the solution:

- Connect all supply chain entities, actors and interacting ecosystems on poly-cloud frameworks.
- Serve as a digital twin for planning, with end-to-end visibility across various touchpoints of the supply chain ecosystem.
- Synchronize planning and execution with event-driven and foresight-driven activation intelligence. Uses an autonomous decision orchestration layer that works alongside the supply chain intelligence graph.
- Assist in early decision making at operational touch-points by actively listening to the events in delivery chains, enabling a highly responsive business.
- Enable key stakeholders in making decisions with the help of persona-based decision board and simulative user experience UI.
- Enforce and measure sustainability Key Performance Indicators (KPIs) in the entire supply chain ecosystem.

Case studies

	Case study 1	Case study 2
 **Problem Statement**	A US-based Fortune 500 logistics and transportation service provider with approximately 400 facilities across the country. Help the carrier procurement representative (CPR) in negotiating procurement cost with potential carriers by providing accurate paid transport expense (PTE) for every spot load, considering lane and load attributes.	British retailer who specializes in products for expectant mothers and children and has suppliers across the globe. They were facing issues like unexpected delays in shipments for clothing division, they were constrained to keep higher safety stocks due to delays.
 **Solution**	• Developed a solution to dynamically predict price and to automate the negotiation process. • Provided scalable architecture to more than 3000+ lanes deployed using Azure Data Bricks.	• Prediction of pre-shipment (planning and production) and shipment delays using Machine Learning algorithm. • Building a hybrid model to predict the pre-shipment as well as total shipment delays.
 **Business benefits**	Improvement in the accuracy of transportation cost and bid win rate. • Improved Gross Margin per employee from $ 200 to $ 900 • Overall savings of 12 Million USD/ annum for client	• Shipment delay (up to 14 days) predictions with 88% accuracy. • Working Capital reduction of 10-12% by reducing safety stocks. • Ability to plan supplies better, thereby reducing the level of safety stocks as well as avoiding an 'out of stock' situation in stores.

For more information, contact askus@infosys.com

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