

iExecute

Adaptable and Self-learning
Supply Chain execution



Industry Needs

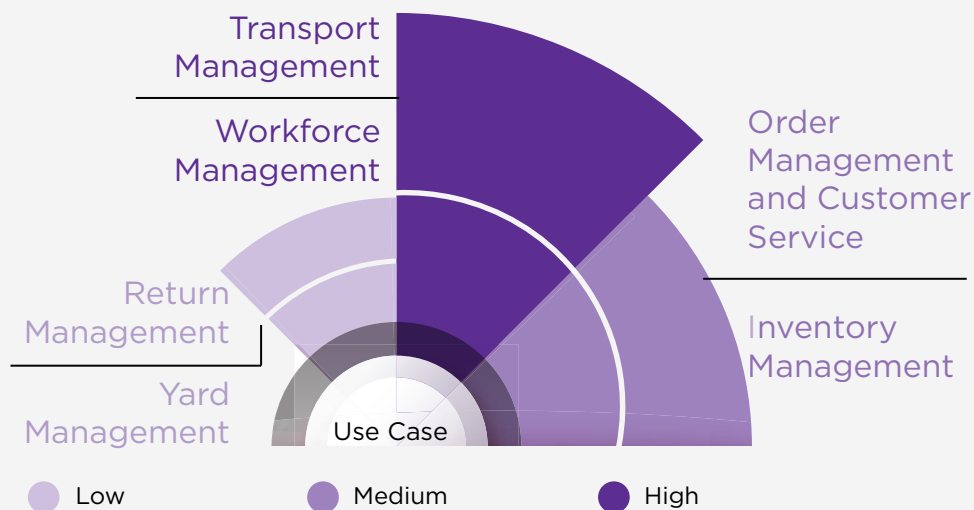
Cost pressures and changing market dynamics are the two constants for the Retail and Consumer Packaged Goods (CPG) companies. Ensuring that their supply chain execution systems adapt to the dynamics requires modernization of the core applications. Modern off-the-shelf products understand this requirement hence, have heavy focus on data and analytics enabling cognitive capabilities.

But modernization of supply chain execution systems has a long implementation and change management cycle time, necessitating large scale capital investment. Hence, companies are looking at alternate approaches like incremental transformation where they apply data and analytics to high impact use cases keeping the core systems unchanged.

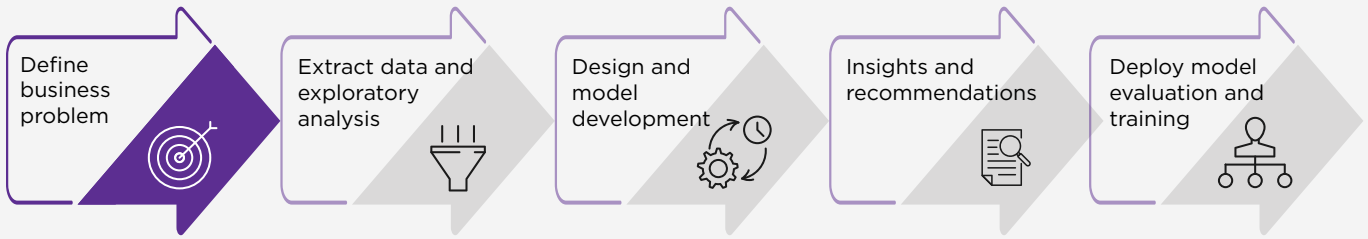
Our Solutions

With decades of experience in working with leading retail and CPG companies, HCL has created a repository of use cases across the supply chain execution areas where application of data and analytics can generate considerable impact. Areas such as transportation and workforce management have even higher potential to leverage data.

Potential for AI/ML based on improvements



We can work with you to prioritize the use cases, create business cases, set up the data science infrastructure, and design the appropriate roll-out strategy based on your digital maturity.



Sample use cases below.

Use case	KPIs improved	Prediction problem	Target variable
Predict driver churn so that good drivers can be retained and training cost reduced	<ul style="list-style-type: none"> Labor cost Training cost Employee satisfaction 	Predict probability of a driver leaving	Probability of leaving
Predict dock waiting time for a trailer so it can be slotted at the right place and/or prioritized to avoid detention/demurrage charges	<ul style="list-style-type: none"> Order cycle time Detention and demurrage 	Predict the waiting time of a trailer arriving in the DC	Wait time
Predict dynamic safety stock at the SKU level so that sales loss due to excessive or inadequate safety stock levels can be avoided	<ul style="list-style-type: none"> Sales 	Predict required safety stock level	Safety stock value
Predict items that have high probability of inventory discrepancies so that cycle count can be targeted toward risky items, and effort is not lost inventorying low- risk items	<ul style="list-style-type: none"> Inventory shrinkage Productivity 	Predict a risk level of item to have inventory issues	Risk probability score
Predict the labor demand for inbound dock operations accurately at shift level so that right level of labor can be planned	<ul style="list-style-type: none"> Productivity Order cycle time 	Predict total quantity to be received at PO line level	Quantity received

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#CPGbyHCL



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