

Understanding the problem statement:

Clients: Supply Chain Team of a Fortune 500 Client

- There are two main Distribution Centers (DCs), and we are moving to third-party logistics (3PL) providers to
 - Increase speed of deliveries
 - Decrease split-shipments
 - Lower shipping costs
- There are two main aims of 3PLs
 - Reduce shipping distance and reduce split-shipments
- There are three types of Shipments
 - Type-1 non-split shipment from closest 3PL (most preferred)
 - Type-2 non-split shipment from non-closest 3PL (acceptable)
 - Type-3 split shipment (least preferred)

Task

- Conduct root cause analysis (RCA) on factors that contribute to a Type-3 shipment
- Propose approaches that can be taken to reduce Type-3 shipment

Approach

- Thoroughly **understand the problem** and list down questions that may apply for the Supply Chain Science Team
- Define understanding of the problem in a structured manner with the help of a **Current State - Gap - Future Desired State** Approach
- For root cause analysis, with a **design thinking** approach, list down the likely hypotheses that can help contribute to solve the problem
- List down the data, tools and technologies that can be used to solve this
- Based on overall understanding, propose the possible solutions to the problem
- Revisit the approach based on client feedback, insight and availability of data

Applicant

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