**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-part 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-closes 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 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, understanding and availability of data

**Applicant**

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