WELCOME TO OUR SUPPLY CHAIN PROJECT

Data analysis project

presented for DEPI

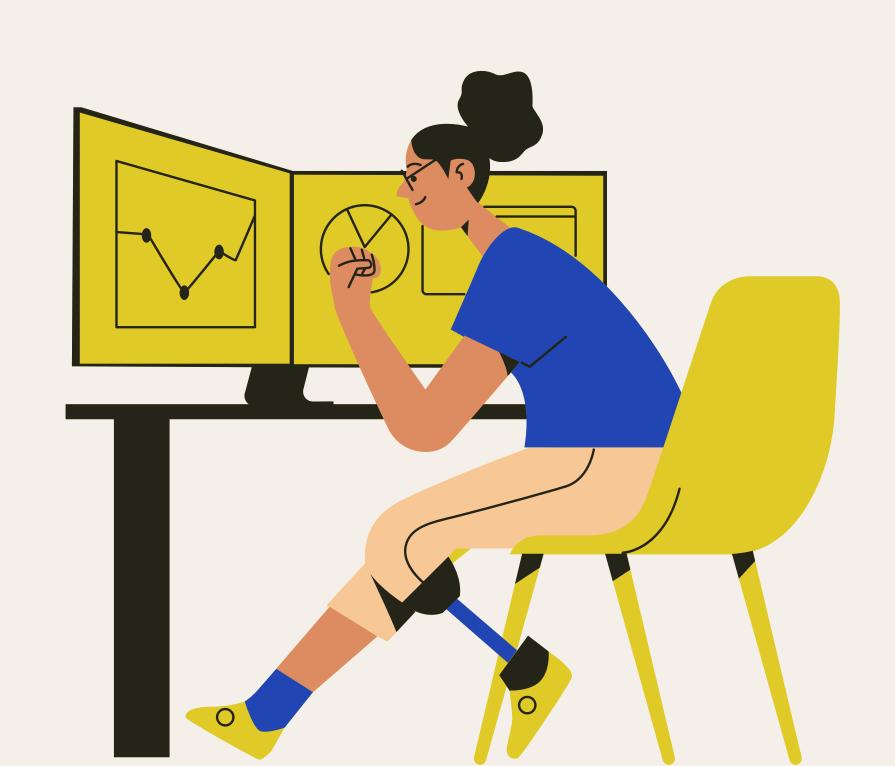
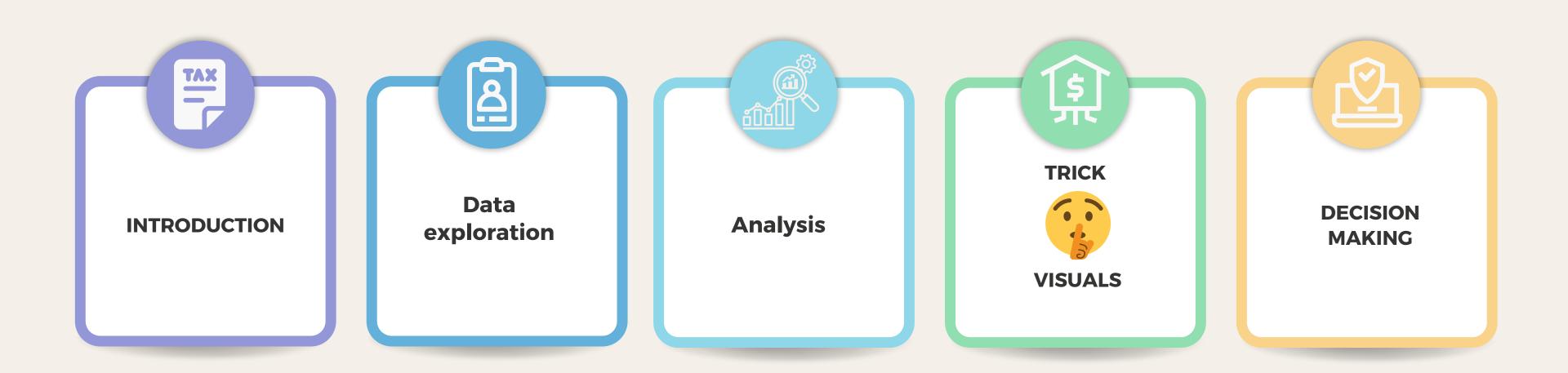
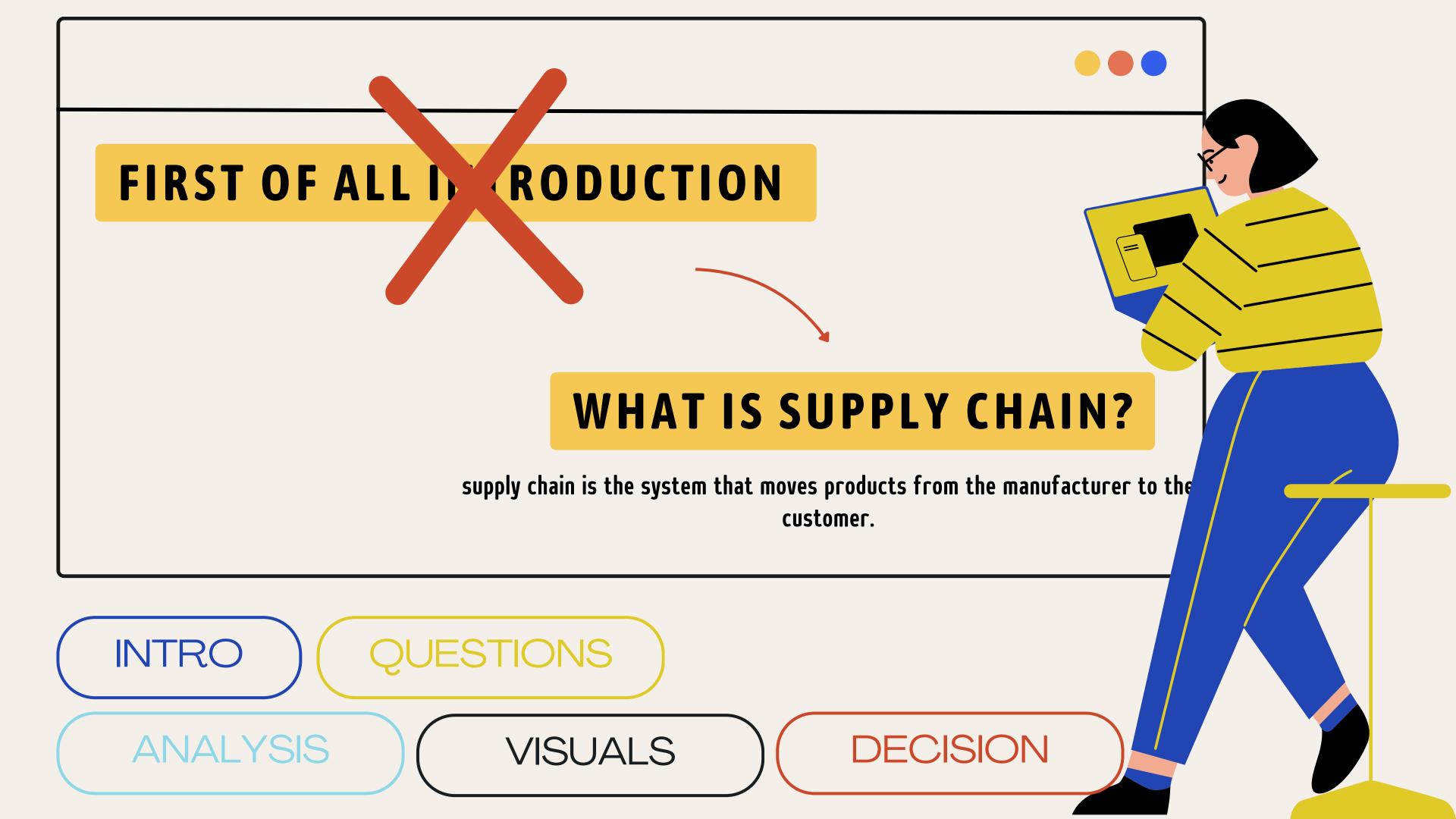


TABLE OF CONTENT





1-INTRODUCTION

Efficient supply chains are vital for business success, and data analysis plays a crucial role in optimizing them.

This project focuses on analyzing supplier performance, inventory management, production efficiency, and logistics to identify inefficiencies, improve decision-making, and reduce costs.

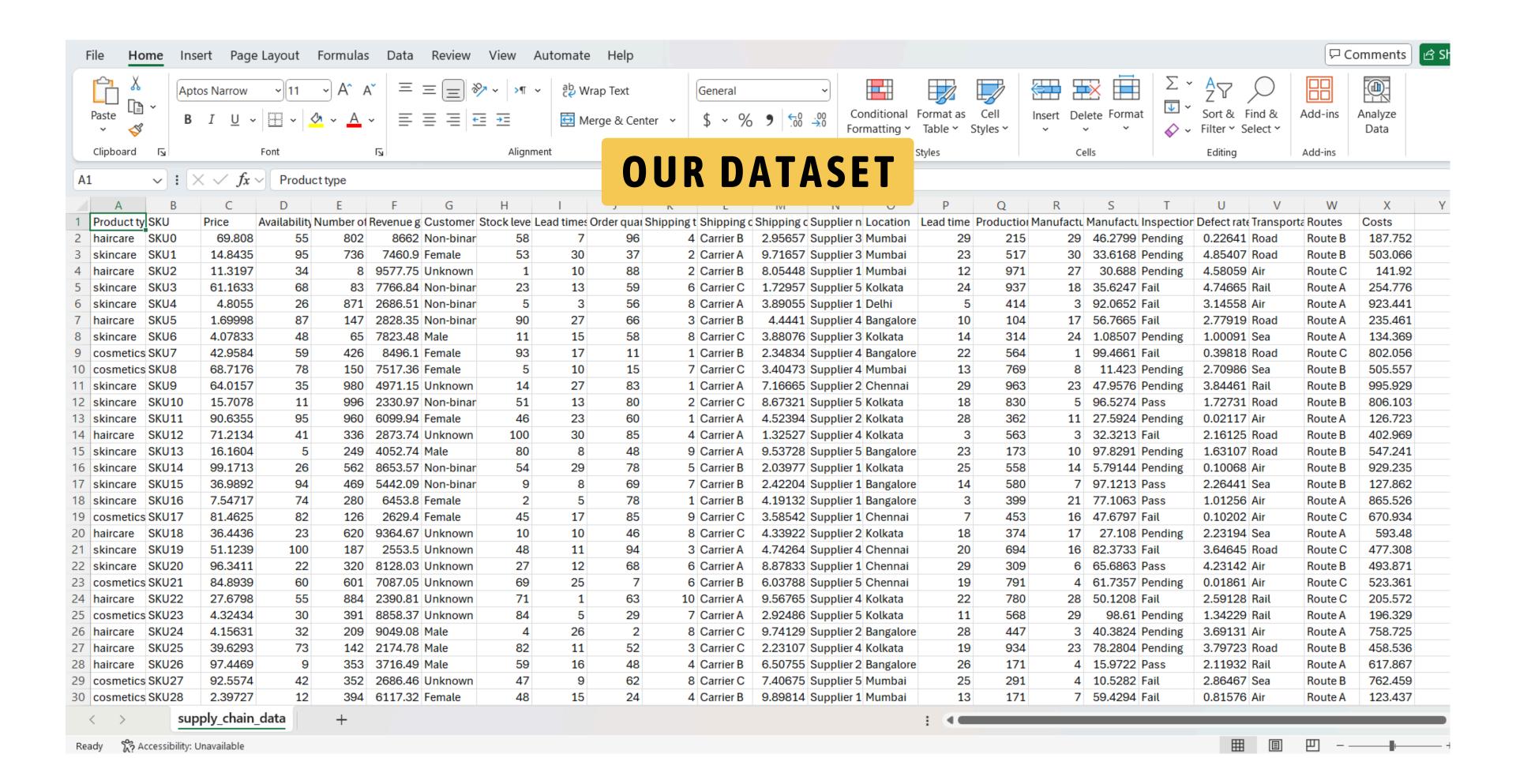
The insights gained will help [Company/Industry] streamline operations and enhance overall supply chain performance.

QUESTIONS

ANALYSIS

VISUAL

DE





Availability per Order Quantity



2Defect rate per supplier



3
Most supplier facing issues



Cost/Routes
Relation



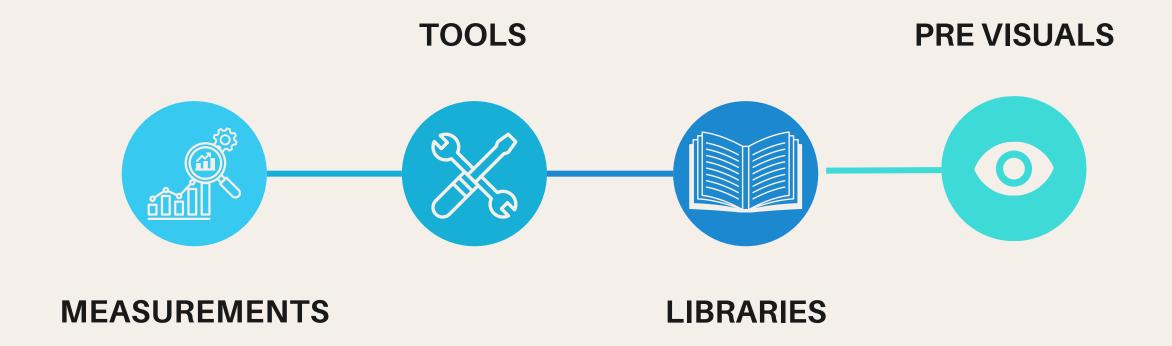
5BEST SHIPPING
METHOD`

2-MAIN QUESTIONS

ANALYSIS

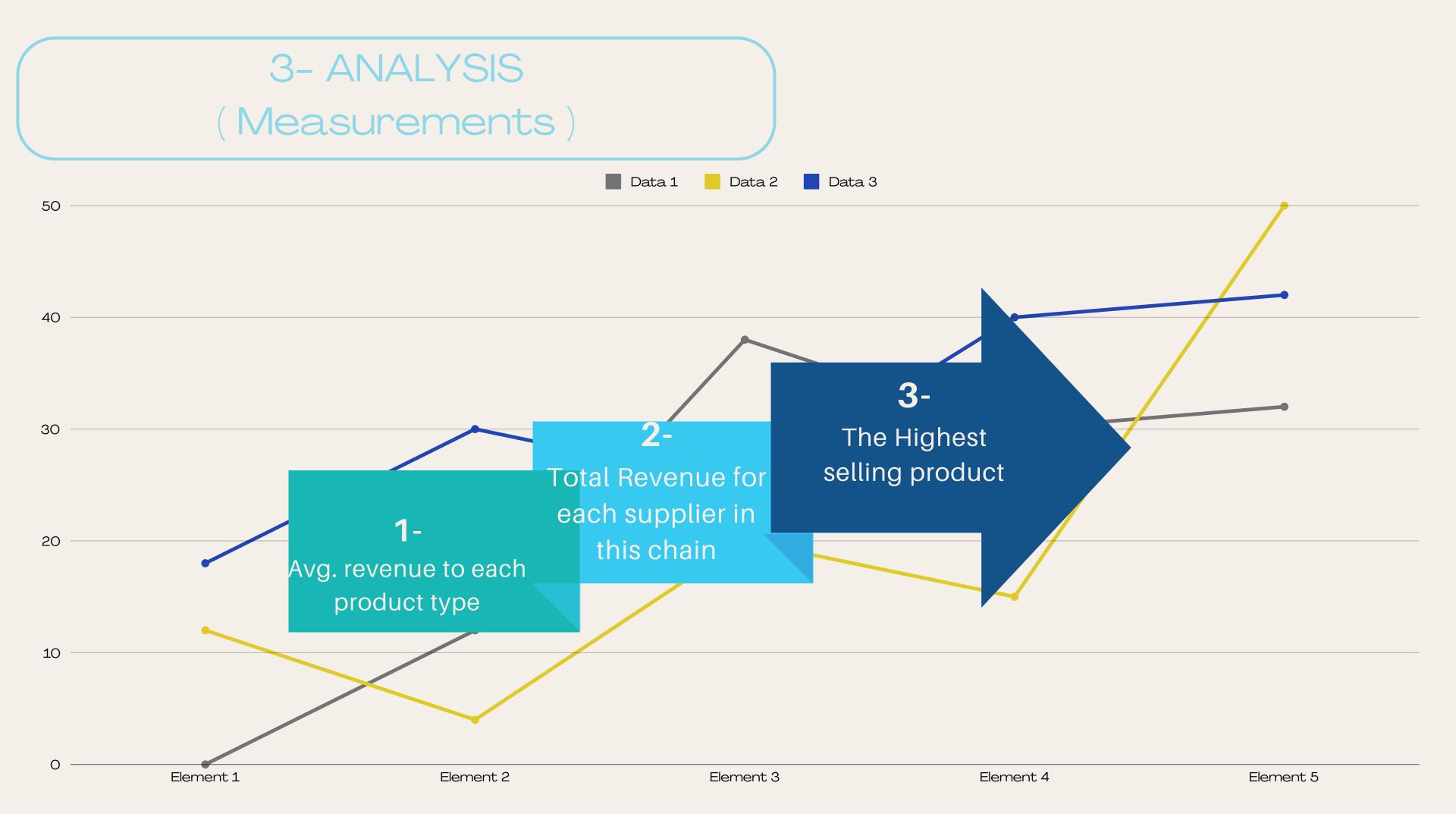
VISUALS

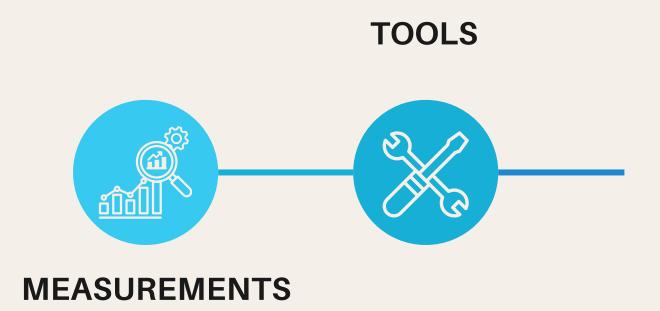




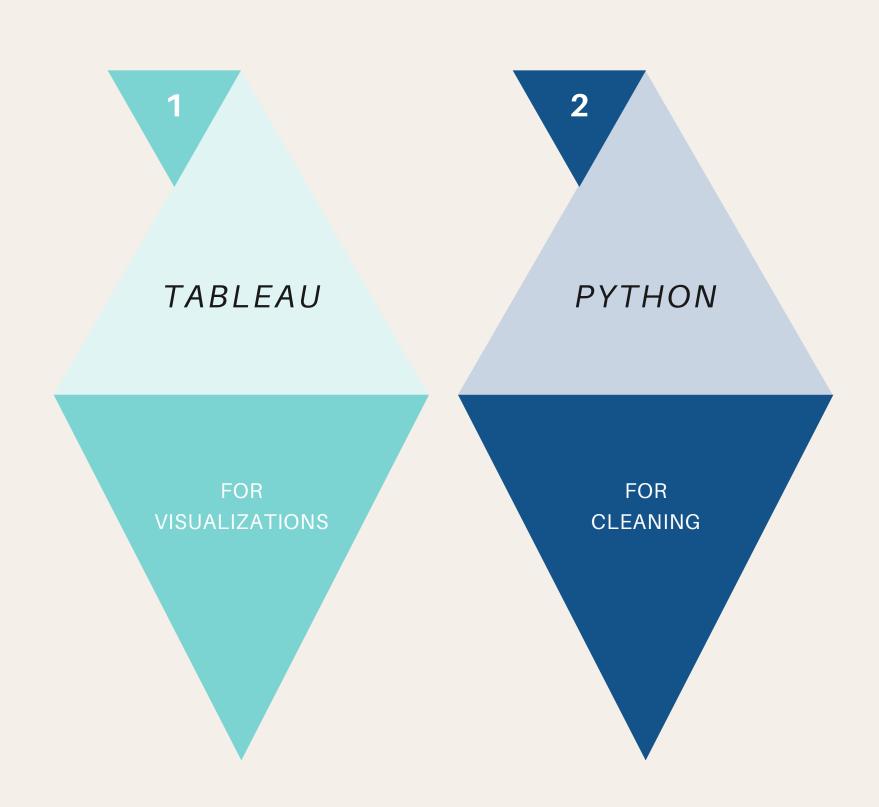


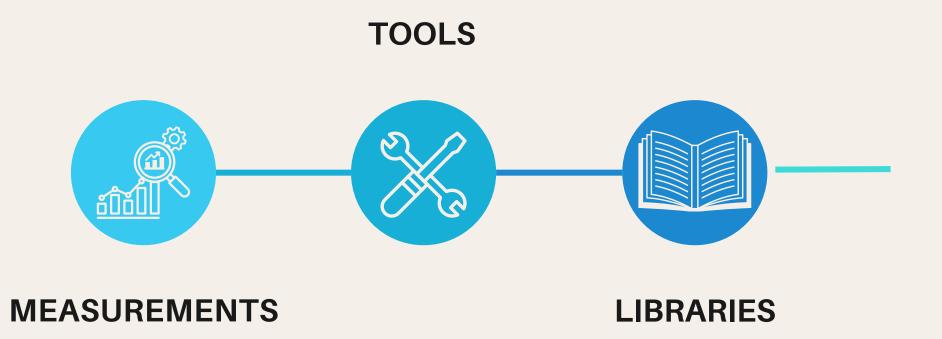
MEASUREMENTS



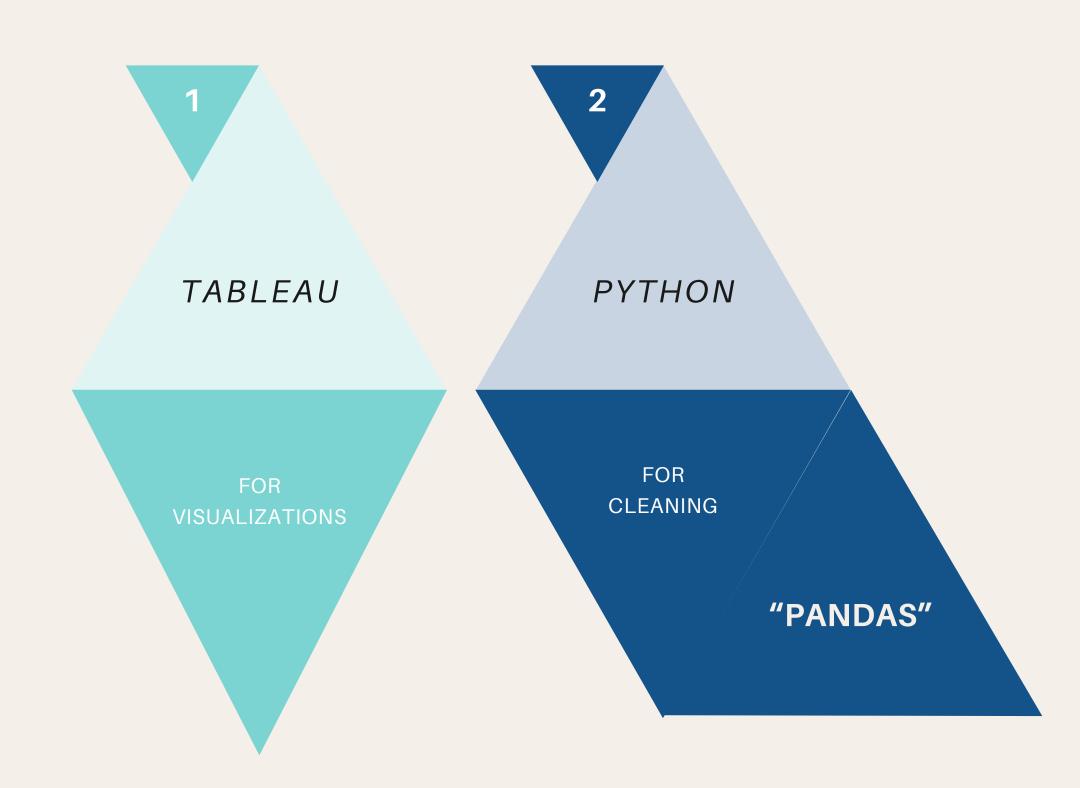


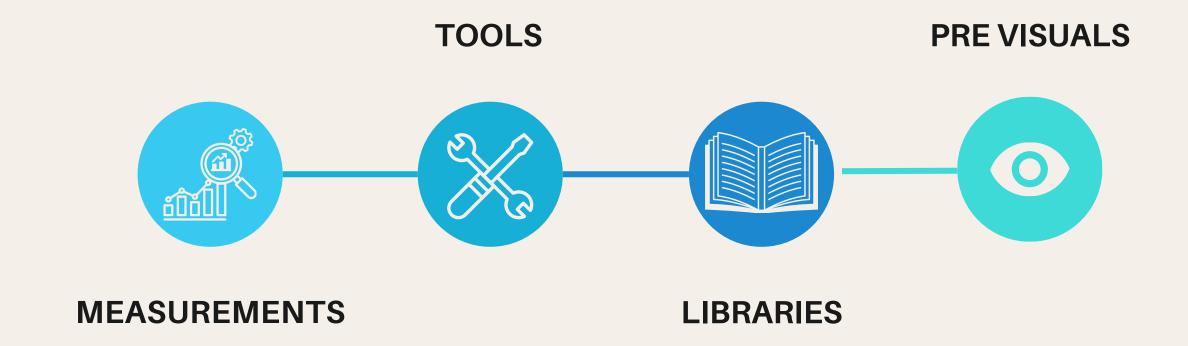
3-ANALYSIS (TOOLS)





3-ANALYSIS (LIBRARIES)





3-ANALYSIS (Pre Visuals)



Doability of the production



Relationship between Cost & Location



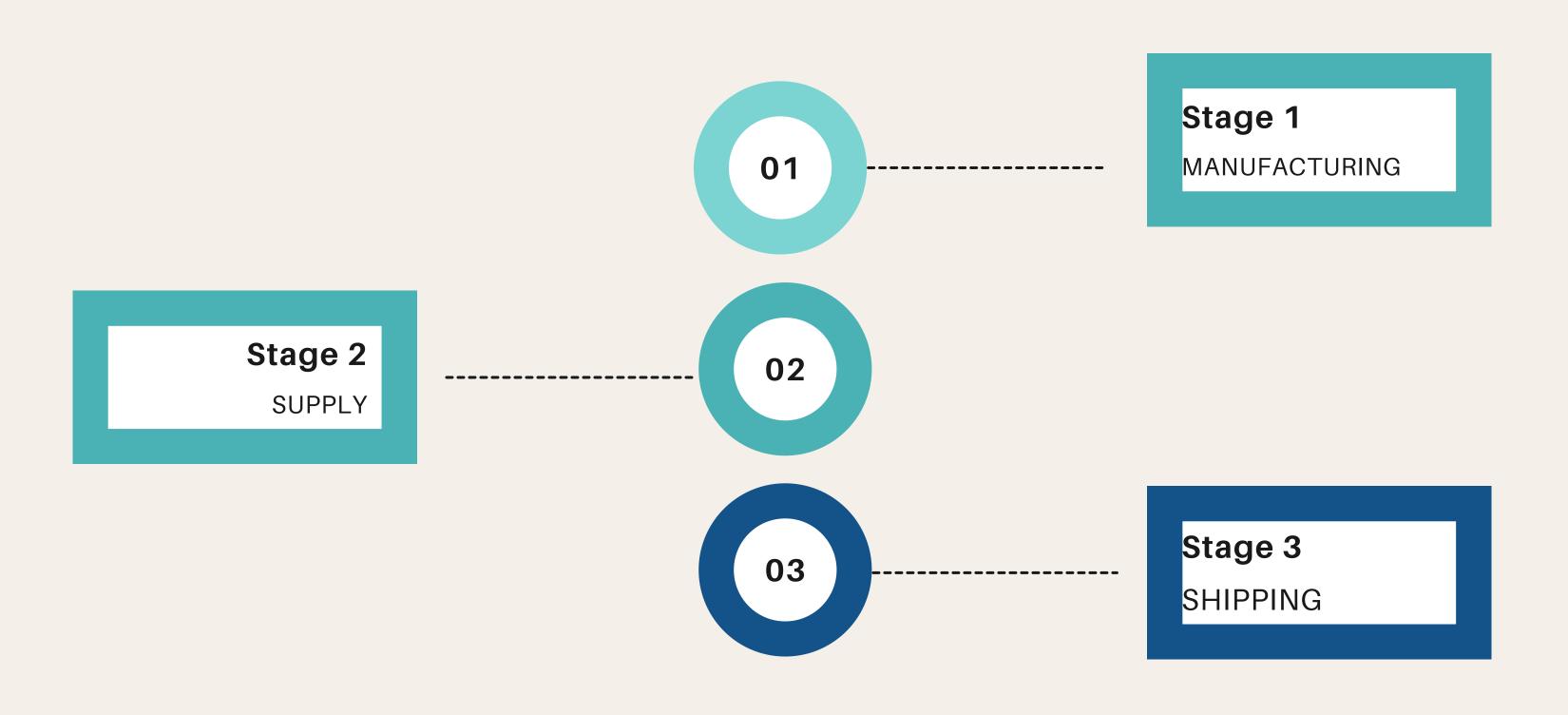




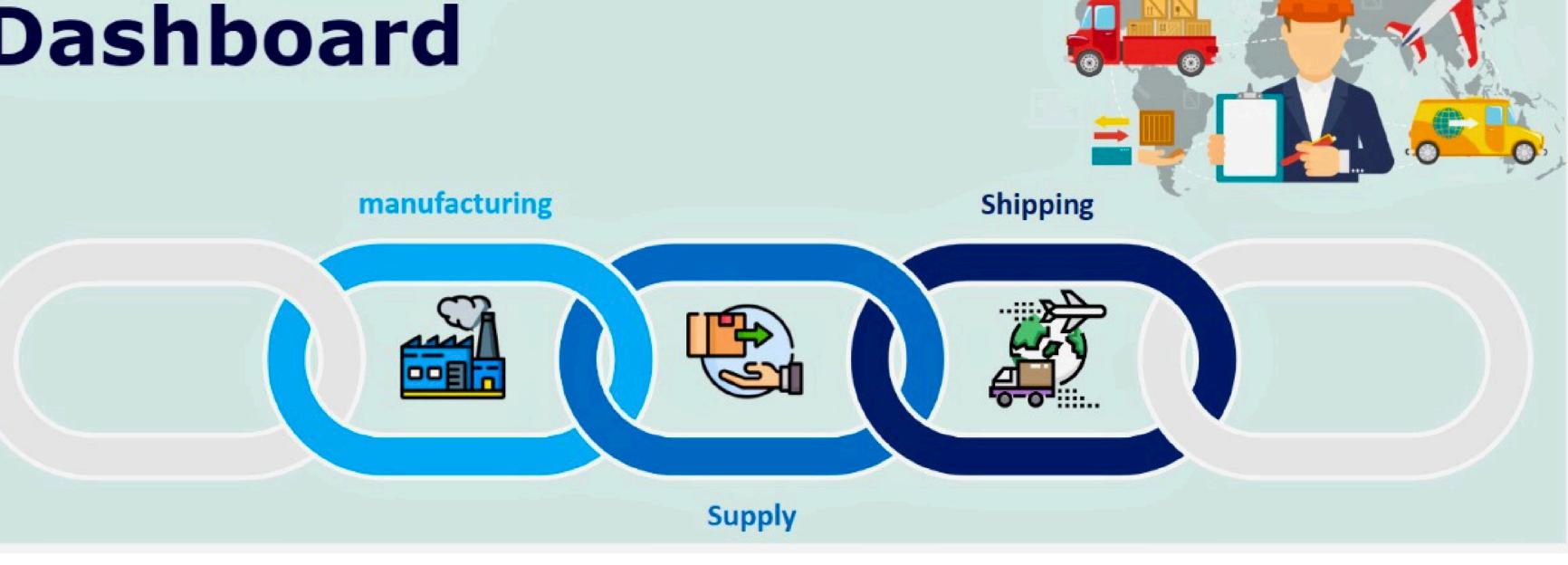
See if the order is most of the times ordered to Delhi and is stored in chennai instead of delhi etc.

4-VISUALS Stage 2 o GUESS THE TRICK 3 Stage 3 Stage 1

4-VISUALS



Supply Chain Dashboard



4-VISUALS



Stage 1

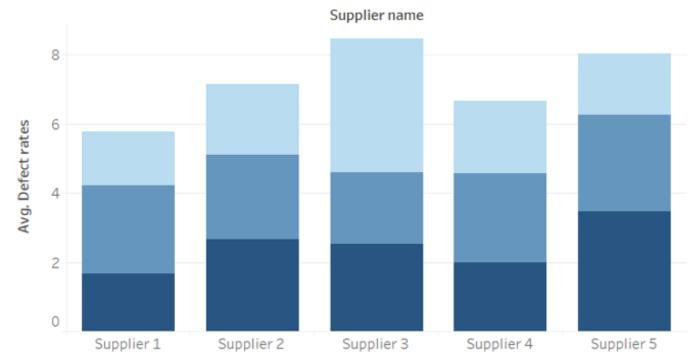
MANUFACTURING



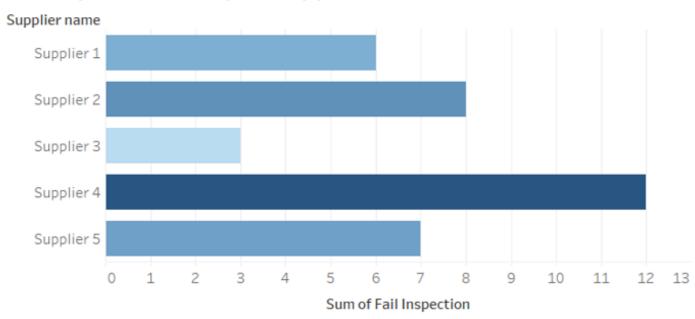
Manufacturing Dashboard



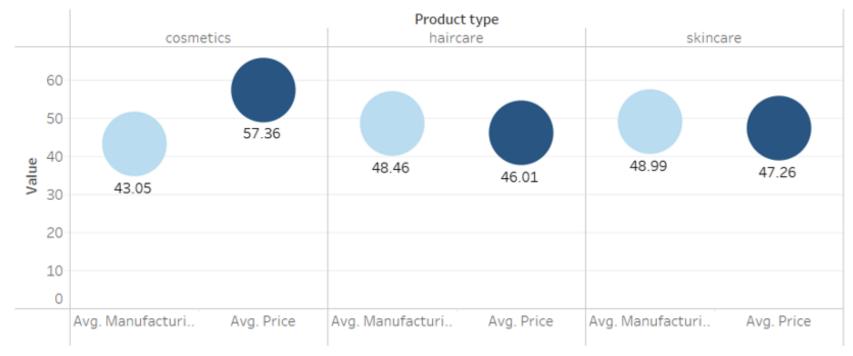




Fail Inspection rate per Supplier



Avg. Manufacturing Cost vs. Selling Price for each product



Manufacturing Cost & Lead Time for each Supplier



Location

- (AII)
-) Bangalore) Chennai
- O Delhi
- Kolkata
- Mumbai

Product type

- (AII)
- ocosmetics
 haircare
- skincare

Supplier name

- (AII)
- Supplier 1
- Supplier 2
- 0 0 11 0
- Supplier 3
- Supplier 4
- Supplier 5

Supplier name

- Supplier 1
- Supplier 2
- Supplier 3
 Supplier 4
- Supplier 4

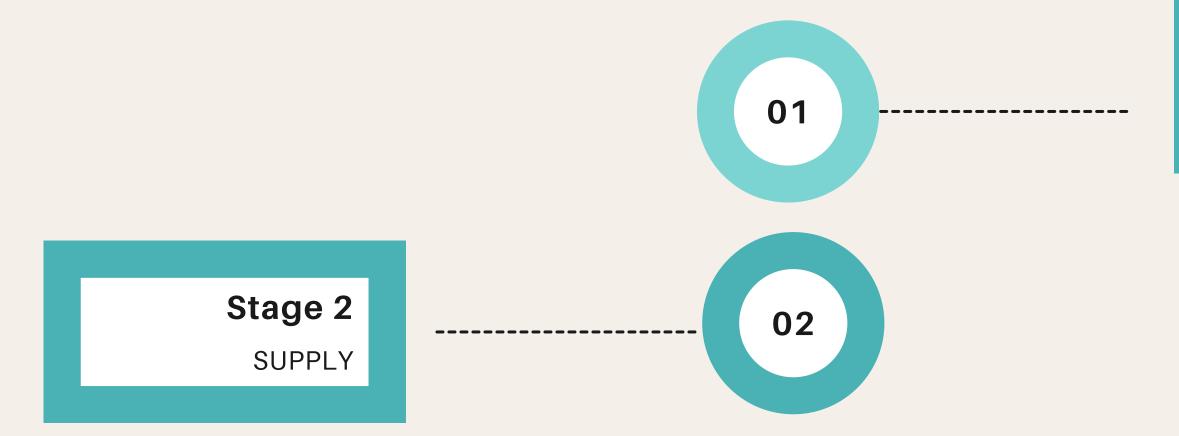
Product type

cosmetics
haircare
skincare

Sum of Fail Inspection

3

4-VISUALS



Stage 1

MANUFACTURING

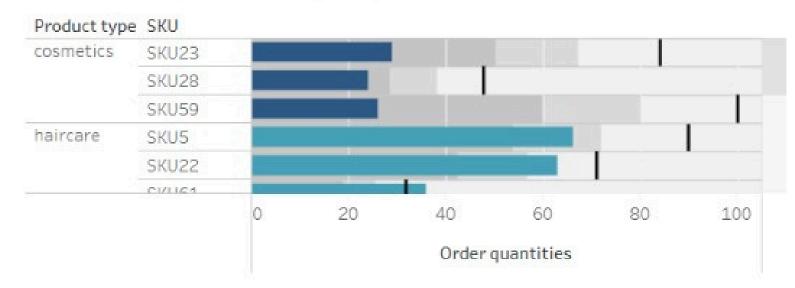


Supply Dashboard



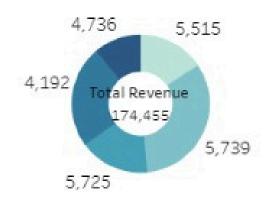
Home

Stock Levels for each product



cosmetics Product type haircare





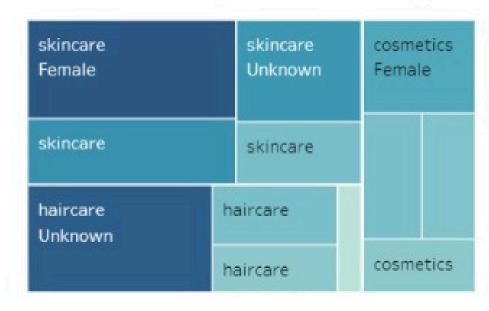
Production Volumes vs. Order Quantities for each Product



skincare



Products sold per customer type



Location

- (AII)
- Bangalore
- Chennai
- O Delhi
- Kolkata
- () Mumbai

Supplier name

- (AII)
- O Supplier 1
- O Supplier 2
- O Supplier 3
- O Supplier 4
- O Supplier 5

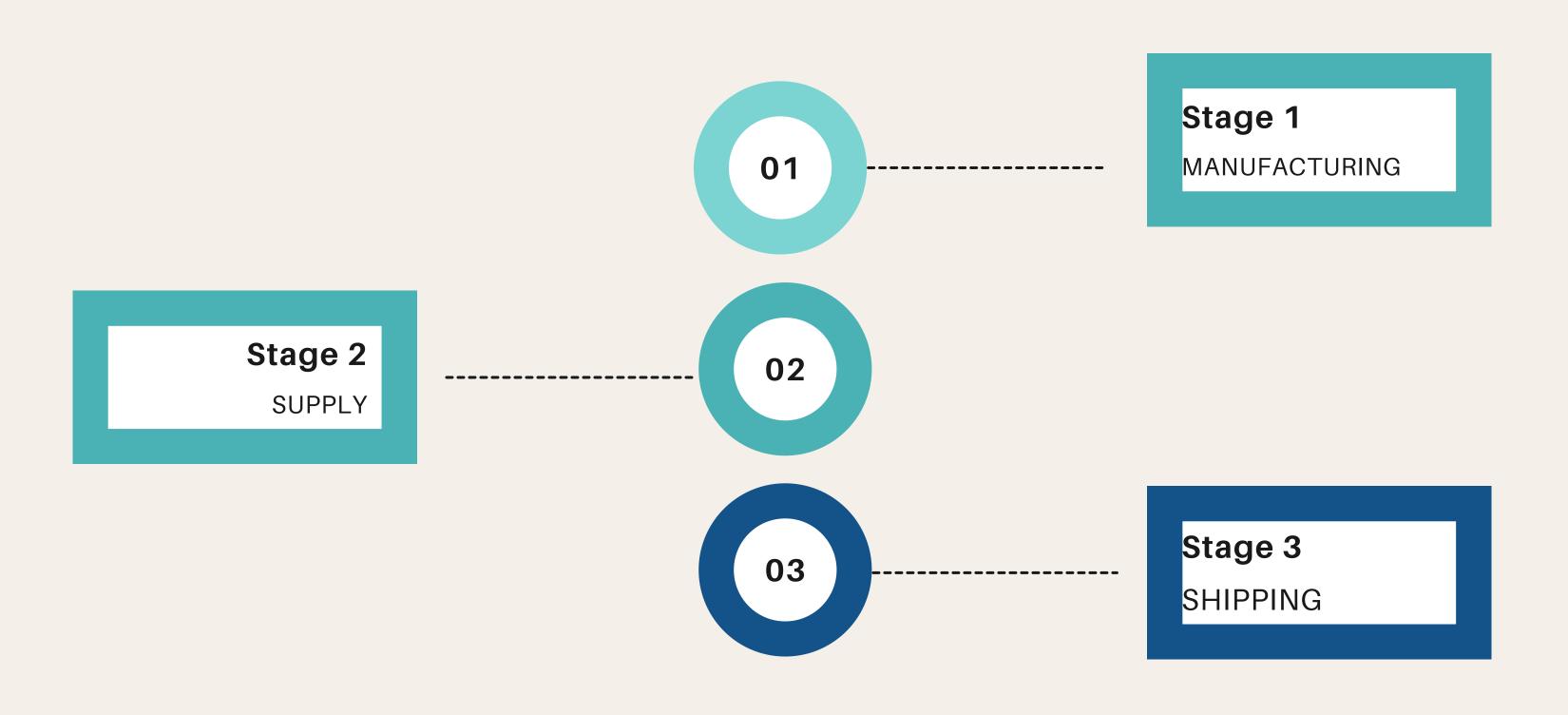
Product type

- (AII)
- () cosmetics
- O haircare
- skincare

Number of products s



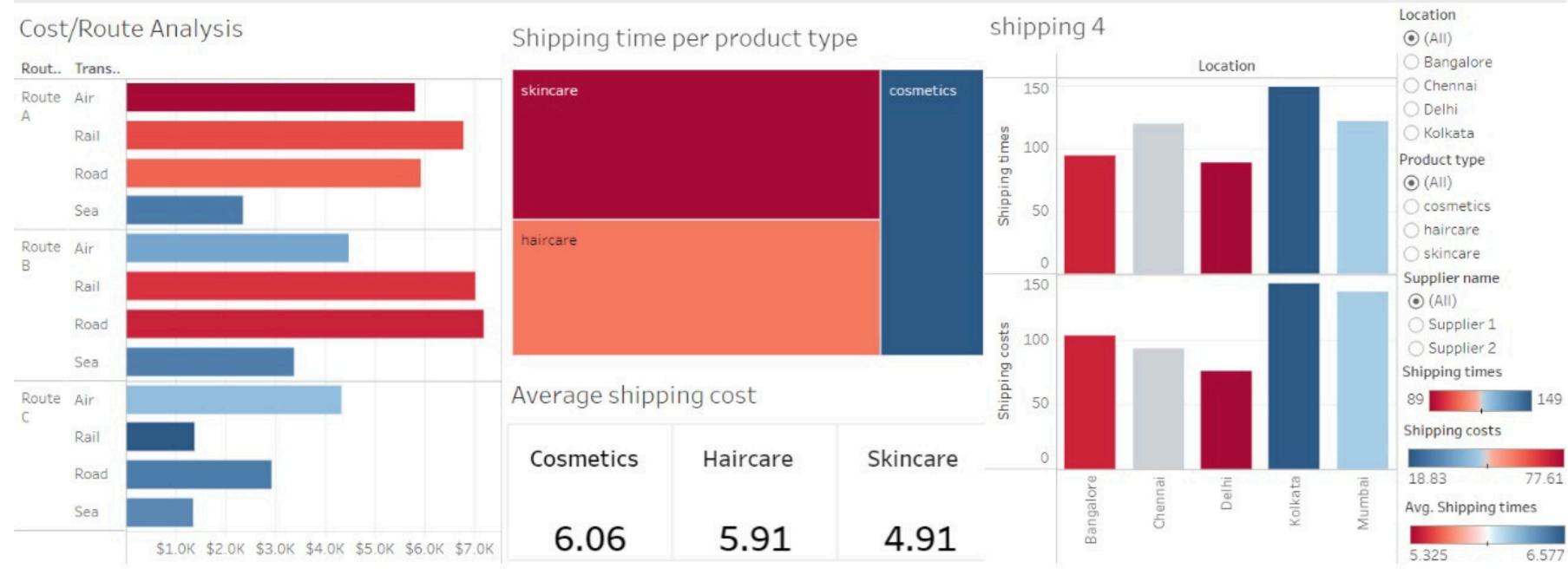
4-VISUALS





Shipping Dashboard





5-DECISION MAKING

STAGE 1



CHALLENGES

Addressing these challenges was essential for ensuring accurate insights and reliable recommendations

STAGE 2



RECOMMENDATIONS

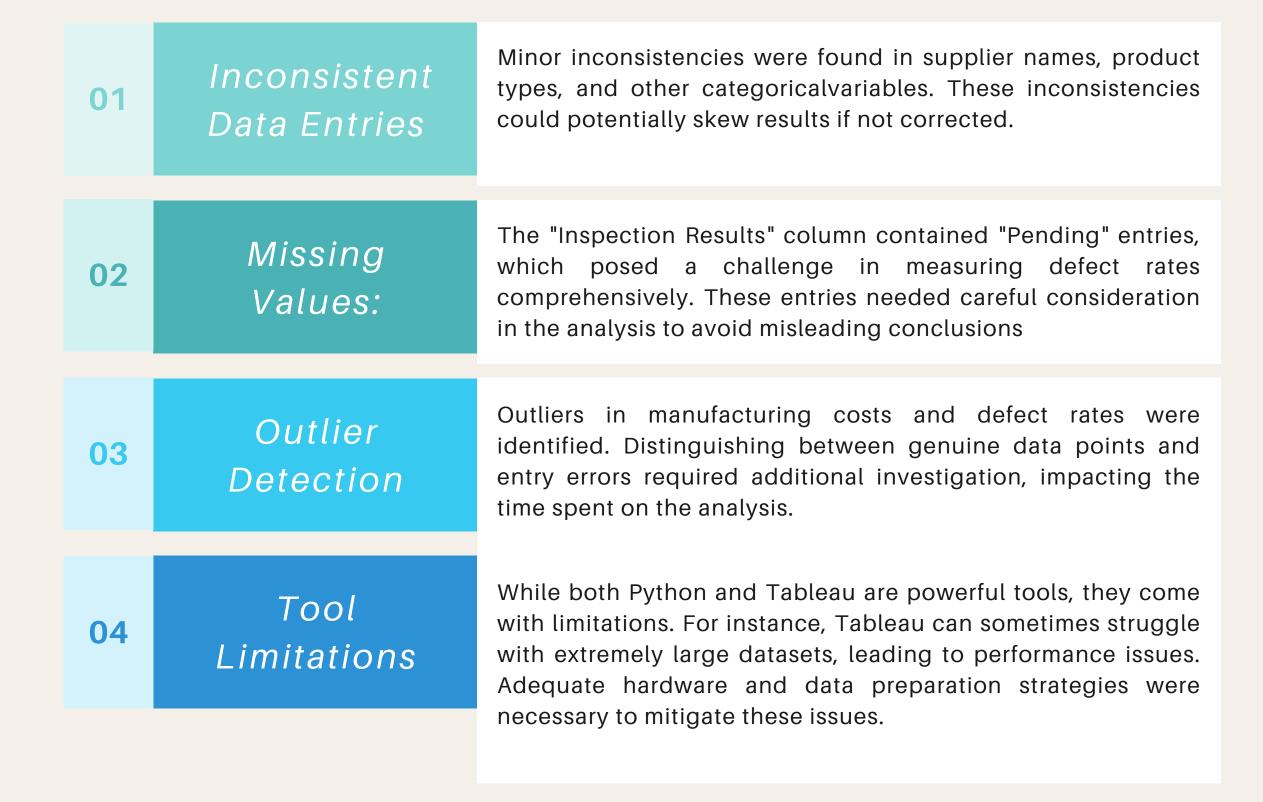
Based on the comprehensive analysis conducted through the dashboards and the insights gained, several actionable recommendations can be made to enhance supply chain performance:

5-DECISION MAKING

CHALLENGES

Addressing these challenges was essential for ensuring accurate insights and reliable recommendations

STAGE 1



5-DECISION MAKING

Recommendations

Based on the comprehensive analysis conducted through the dashboards and the insights gained, several actionable recommendations can be made to enhance supply chain performance:

STAGE 2

A review of shipping practices is advised to reduce costs, Optimize possibly by renegotiating carrier contracts or exploring alternative routes. Using more cost-effective transport modes Shipping Costs could yield significant savings. Suppliers with high defect rates should undergo quality Supplier improvement initiatives like workshops or stricter inspections. 02 Performance Diversifying the supplier base can reduce risks from reliance Management on underperforming suppliers. Robust inventory management, such as just-in-time systems, is Enhance Inventory 03 essential for aligning stock with demand, reducing excess Management inventory, and ensuring availability of high-demand products. To address inefficiencies in geographic disparities, relocate Improve inventory closer to key markets, such as moving products for Geographic Cost 04 Delhi from Chennai, to optimize logistics and cut Efficiency transportation costs.

