

Final Project – Proposal

Group Name: DKH3_DATA2_G1

Team Number: 182

Project Title: Supply Chain Performance analysis

Team Members:

1. Nora Gamal Tawakel
2. Fatma Ahmed ElDesoky
3. Tokka Hassan Bedir
4. Esraa Ebrahim Saleh
5. Batool Ayman Mohamed

1. Project Overview

The project aims to design and develop a comprehensive Power BI analytics solution for monitoring and optimizing Supply chain.

It integrates data from manufacturing, inventory & supply, logistics & transportation, and Consumer to deliver data-driven insights for improving plant reliability, operational efficiency, and cost control.

2. My Role and Responsibilities

Name	Responsibilities
Nora Gamal Tawakel	Clean raw data using. Data exploration and pre-processing Team leader manufacturing and Consumer KPIs and charts.
Fatma Ahmed ElDesoky	Inventory& supply KPIs and charts. documentation
Esraa Ebrahim Saleh / Tokka Hassan Bedir	logistics & transportation KPIs and charts.
Batool Ayman Mohamed	Consumption KPIs and charts.
All Team members	Design and Visualization

3. Tools and Techniques Used

Power BI, DAX, Data Visualization, Report Design by Power Point.

4. Stakeholder Analysis – Supply Chain Project

1) Key Stakeholders

Internal Stakeholders:

Manufacturing – Warehousing – Transportation – Sales – Quality – Finance – Top Management

Stakeholder	Influence	Interest	Category
Manufacturing	High	High	Keep Close
Warehousing	High	High	Keep Close
Transportation	Medium	High	Keep Informed
Sales	High	High	Keep Close
Finance	Medium	Low	Monitor

3) Stakeholder Roles Across the Supply Chain

Manufacturing: Ensures product availability and production quality.

Warehousing: Manages stock levels and supports efficient order fulfilment.

Transportation: Executes delivery plans and impacts customer satisfaction.

Sales: Connects with market demand and communicates customer needs.

4) Communication Plan

Weekly meetings: Manufacturing – Warehousing – Transportation

Monthly reports: Top Management – Finance

Customer feedback: After each delivery/sales cycle

5. Key Achievements / Contributions

- Improved data accuracy by cleaning and validating dataset.
- Created a dynamic dashboard that summarizes key metrics.
- Supported the team in preparing the final presentation and report.

6. Lessons Learned / Reflection

This project improved my analytical thinking, teamwork, and ability to transform data into actionable insights.