

## 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.