



# EXCEL -SUPPLY CHAIN PROJECT

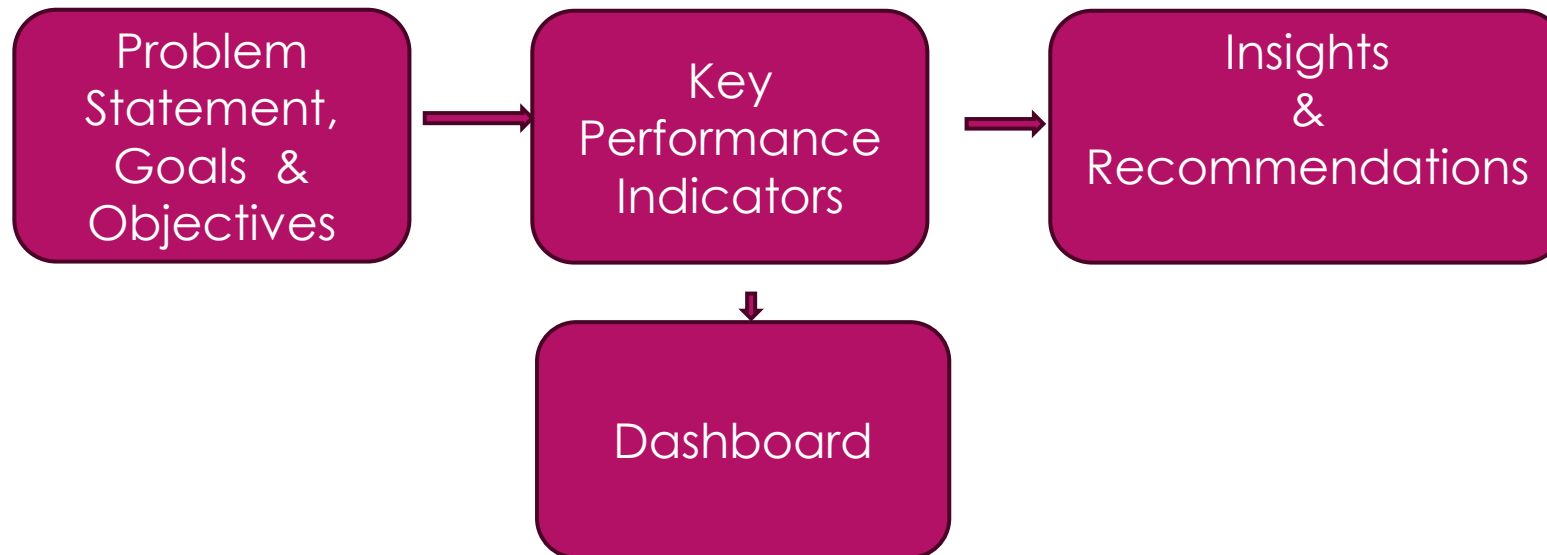
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# INVENTORY DISRUPTION COMPREHENSIVE ANALYSIS REPORT

2<sup>ND</sup> Quarter June 2025 Intervention Report

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# Problem Statement, Goals & Objectives

## Problem Statement

The company suspect some products are frequently going out of stock or being manually adjusted — but we don't know which ones or why.

## Inventory Analysis Goals

Identify products with frequent stockouts or manual adjustments and help improve inventory planning.

## Objectives

- ❑ Analyse Inventory logs
- ❑ Spot patterns in Stockouts and Manual Adjustments
- ❑ Highlight the products most Affected

# Key Performance Indicators

Total  
Adjustment  
s Manual  
452

Total  
Stockouts  
109

Most  
Disrupted  
Category  
114

Most  
Disrupted  
Supplier  
208

# Insights & Recommendations

## Insights

1. Total Manual Adjustments accounting for 452:

Products like Toys&Games (91 counts), Office Supplies (86), and Craft supplies (68) show high manual adjustment counts. This indicates frequent corrections to inventory records, possibly due to system errors, data entry issues, or physical stock mismatches.

## Recommendations

1. Reinforce inventory Standard operating procedures (SOPs) with warehouse staff to ensure consistent logging of stock changes.

# Insights & Recommendations

## Insights

2. Total Stockouts of 109 were recorded. Instances where product stock fell to zero, signaling poor inventory planning or unexpected demand surges.
3. Top recurring disrupted products include Anderson-Wagner and Nelson Doll. Score 210 appears in both stockout and manual adjustment top 5 lists.
4. Specific categories (e.g. Toys & Games and office supplies) are more disrupted. Office supplies experience the most frequent disruptions, possibly due to high usage rates or unreliable supply cycles.

## Recommendations

2. Implement minimum stock thresholds and auto-alert systems to proactively restock before stock runs out.
3. Audit these SKUs to check for potential forecasting issues or human error in stock entry.
4. Prioritize planning and replenishment strategies for high-risk categories. Improve Inventory Buffer for Office Supplies stock levels and periodic restocking checks.

# Insights & Recommendations

## Insights

5. Certain suppliers like Washington Thomas & Sons and Anderson Wagner Group are linked to more disrupted products.
6. Inconsistent inventory adjustments without supporting sales activity.
7. Stockout Share by Supplier: Similar suppliers dominate both stockout and adjustment metrics, reinforcing which supplier relationships may need auditing or review.

## Recommendations

5. Review supplier performance, delivery timelines, and fulfillment accuracy.
6. Introduce audit logs requiring reasons for manual adjustments and manager review.
7. Audit and Evaluate Supplier Performance by conducting a performance review of high-disruption suppliers



# Insights & Recommendations

## Insights

8. Inventory Manual Adjustments by Supplier Name: Washington Thomas & Sons (37%) and *Anderson-Wagner Group* (22%) dominate in manual adjustments, indicating operational inefficiencies or frequent re-verification.

## Recommendations

8. Strengthen Supplier Receiving and Validation Processes for these supplier names.

# Patterns in Stockouts and Manual Adjustments

## Insights

- A. Top-Contributing Products: *Anderson Wagner Organizer's* products recorded the highest number of manual adjustments (79 times).
- While *Li Evans Yarn Skein* and *Nelson Doll* Score 210 also appeared in both top 5 manual adjustments and stockouts, indicating repeated disruptions in stock handling or forecasting.

## Recommendations

- A. Audit Top 5 SKUs for forecasting issues or data entry inconsistencies.

# Patterns in Stockouts and Manual Adjustments

## Insights

- B. Recurring Stockouts: The same few SKUs experience frequent stockouts (e.g., *Anderson-Wagner Organizer*, *Li Evans Yarn Skeim*, Nelson Doll score 210), suggesting they are either understocked or over-demanded.
- These disruptions may indicate poor demand forecasting or inadequate reorder levels.

## Recommendations

- B. Set automated alerts for frequently adjusted SKUs to trigger early investigation.

# Patterns in Stockouts and Manual Adjustments

## Insights

- c. Category Impact: *Office Supplies*(109) ,*Toys & Games* (114), and *Craft supplies* (87) were the most disrupted categories.
  - o These may need higher safety stock levels or better order cycle reviews.

## Recommendations

- c. Refine inventory planning models for Office Supplies and Toys categories.

# Patterns in Stockouts and Manual Adjustments

## Insights

- D. Supplier Trends: Suppliers like Anderson-Wagner Group (22%) and Washington Thomas & Sons (37%) account for the largest share of manual inventory corrections.
- This implies potential supply chain inconsistencies or data entry errors tied to specific vendors.

## Recommendations

- D. Review supplier performance, especially those driving most disruptions



# Inventory Disruption Dashboard

supplier\_name

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Total Adjustments Manual

452



Total Stockouts

109



Most Disrupted Category

114

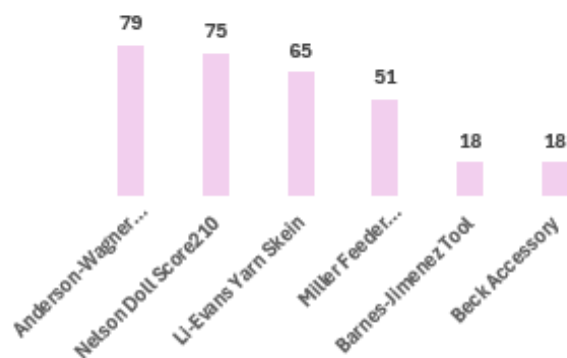


Most Disrupted Supplier

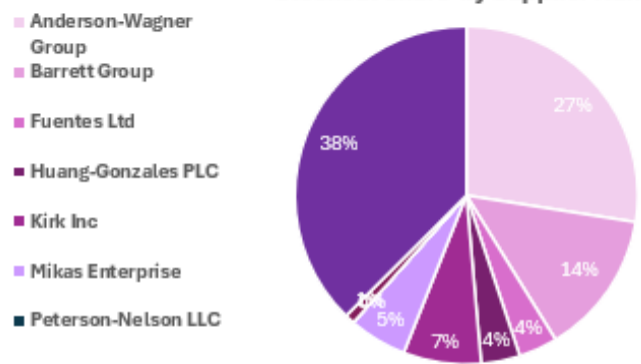
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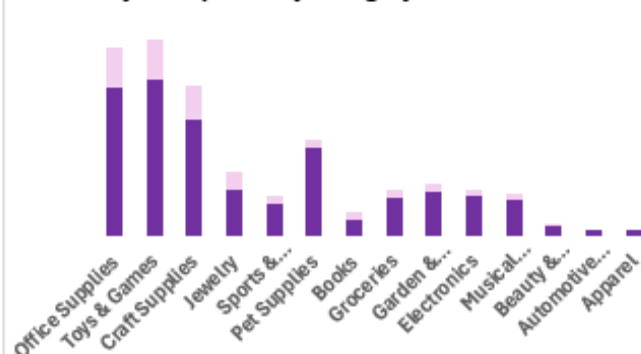
Top 5 Products by Manual Adjustmet



Stockout Share by Supplier Name



Inventory Disruptions by Category



count\_inve...

0

1

2

3

stockout\_co...

2

4

18

3

5

22

Inventory Manual Adjustment by Supplier name



Top 5 Products by Stockout

