



WAREHOUSE INVENTORY OPTIMIZATION

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COMPANY & PROBLEM OVERVIEW

RapidGroceries is a fast-growing online grocery delivery company with regional warehouses. Despite rising demand, the company is facing operational bottlenecks, including:

- Order delays
- Customer complaints about stockouts and incorrect deliveries
- Increasing warehouse storage and labor costs

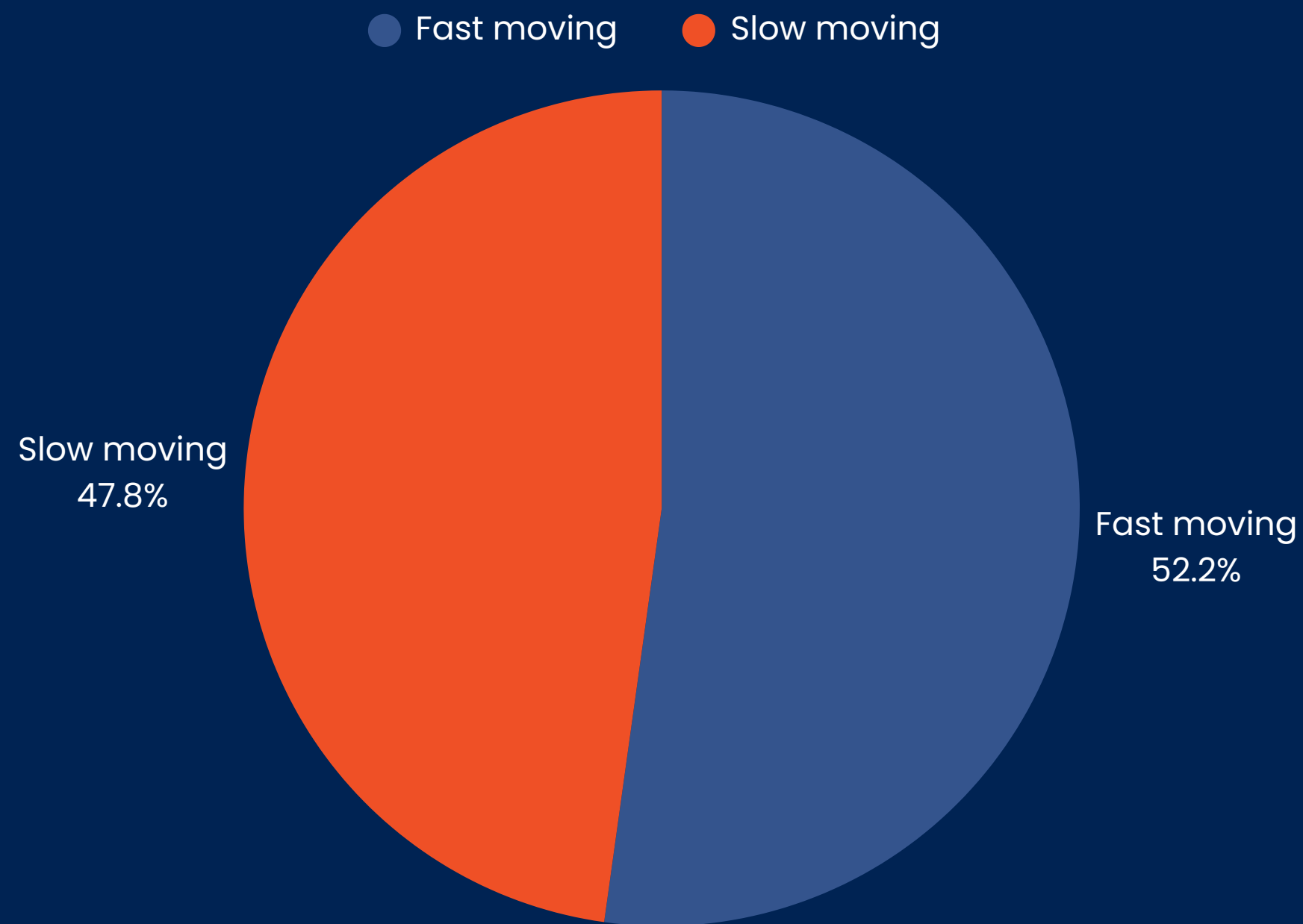
These issues point to growing inefficiencies in inventory and warehouse operations, potentially limiting scalability and profitability.





SYMPTOMS & PAIN POINTS

- Delivery delays across regions
- Customer complaints about wrong/missing items
- 25% increase in labor costs in 6 months
- Stockouts and space waste from poor SKU handling



DATA-DRIVEN INSIGHTS

- 51.6% of orders experienced stockouts
- Labor overtime rose by 25% in the first 4 months of the year
- 47.8% of inventory are slow-moving SKUs
- Fulfillment time varies up to 2x across warehouses

ROOT CAUSES

Static reorder points not adjusting to real demand

Poor warehouse layout
= long picking times

Manual labor allocation
= over-reliance on overtime

Poor demand forecasting accuracy and no consideration for seasonality

Lack of ABC classification
(no prioritization of inventory)

Items were not being stored based on picking frequency

RECOMMENDED SOLUTIONS

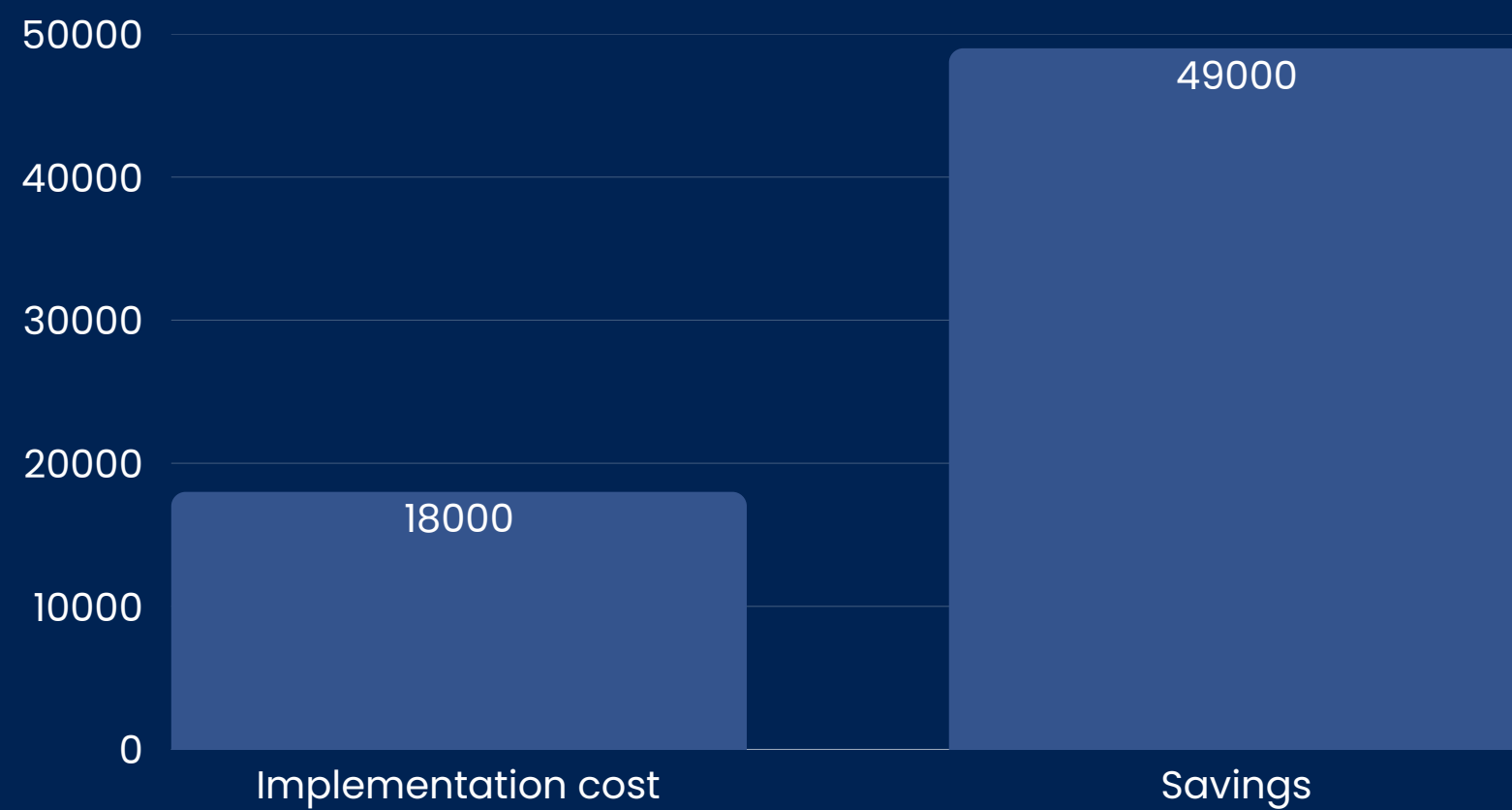
🧠 AI-based forecasting system for demand accuracy

🚚 Redesign warehouse zones for faster picking

🕒 Smart labor scheduling tool to optimize shifts



FINANCIAL CASE



■ ROI: 2 months



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KPI DASHBOARD PREVIEW

Track fulfillment speed, stock health, and labor efficiency in real time.

KPI 1:
Stockouts

KPI 3:
Inventory
Turnover

KPI 2:
Labor Cost

KPI 4:
Fulfillment
Time





IMPLEMENTATION PLAN

- Phase 1: Pilot (3 weeks)
- Phase 2: Evaluate (2 weeks)
- Phase 3: Scale to all warehouses (3–5 weeks)



CALL TO ACTION

Requesting stakeholder approval to begin pilot and secure funding for solution implementation

LET'S OPTIMIZE. LET'S DELIVER BETTER

Juliet Ofoegbu, Business Analyst

- Warehouse Optimization Strategy for RapidGroceries:
Increasing Efficiency & Reducing Costs

THANK YOU

FOR YOUR ATTENTION