NESTLÉ INDIA CONSULTING

Strategic Recommendations — Oct 17, 2025 — 15% cost savings

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## Executive Summary



Problem: Demand spikes up to 30%; Logistics costs +15% (~₹500 Cr waste)



Solution: LSTM forecasting (MAPE ~7%) Plus LP & VRP for inventory and routing



Impact & Recommendations: 15% cost savings (~₹75 Cr), 95% service Operational: 15% buffer, 25% Q4 prestock





#### Problem Statement

- Demand swings: +30% spikes / -25% dips across SKUs.
- Logistics & inventory pressure: 20% delivery delays;
   14–20% overstock; costs up 15%.
- Objective: Achieve 15% cost reduction while maintaining 95% service level.



#### Approach — Data & Forecasting



 Data: 590 rows (Kaggle + internal sources); recent 30% uplift captured in features.



 Model: LSTM achieving 7% MAPE versus SARIMAX at 12% MAPE on holdout.



 Output: 6-month SKU × store forecasts with weekly refresh and automated retrain.









### Approach — Optimization

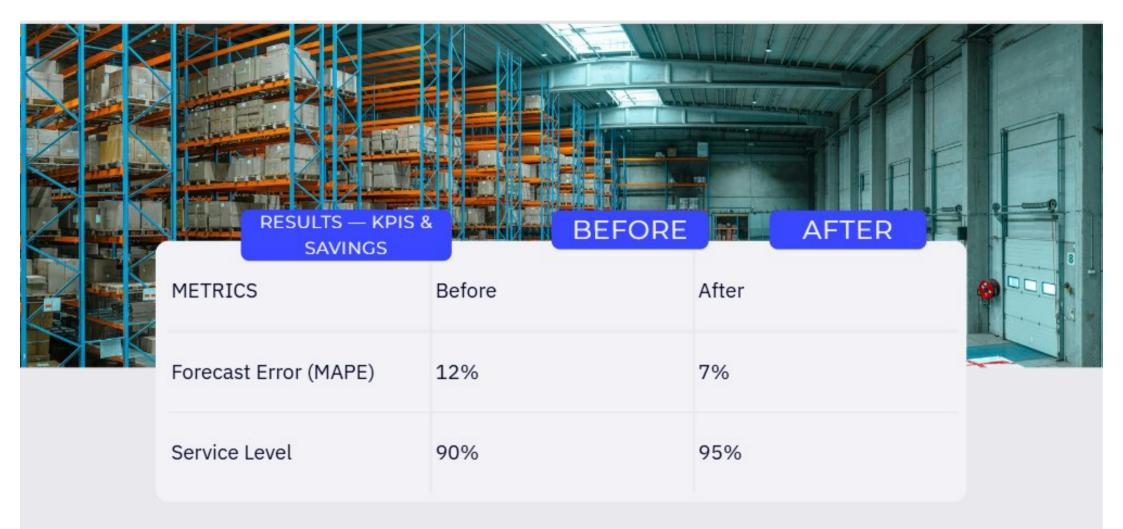


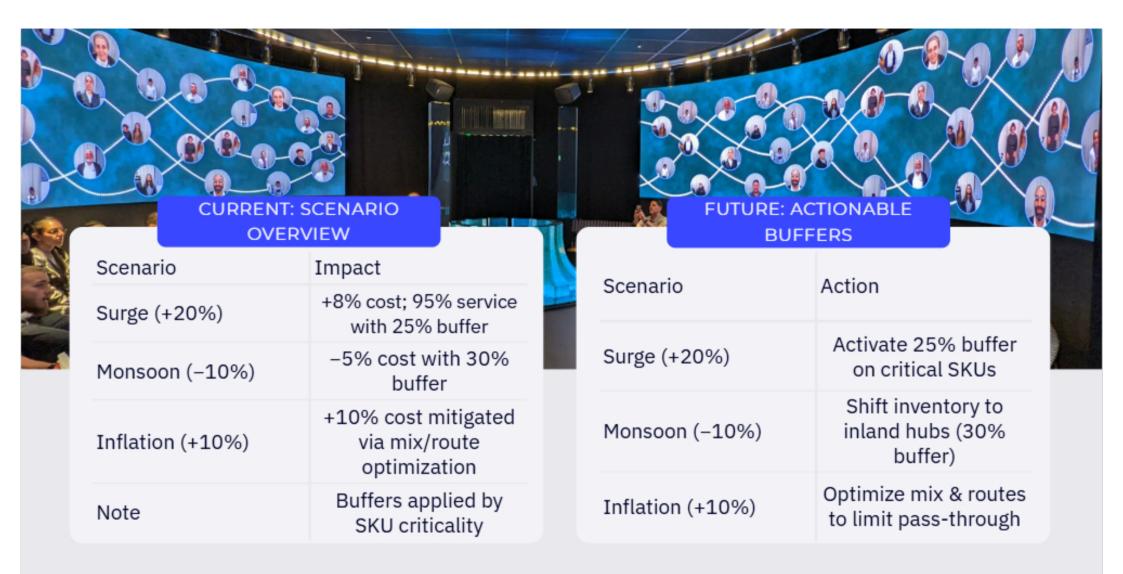
Inventory LP — 15% safety buffer; approximately 50% reduction in holding costs.



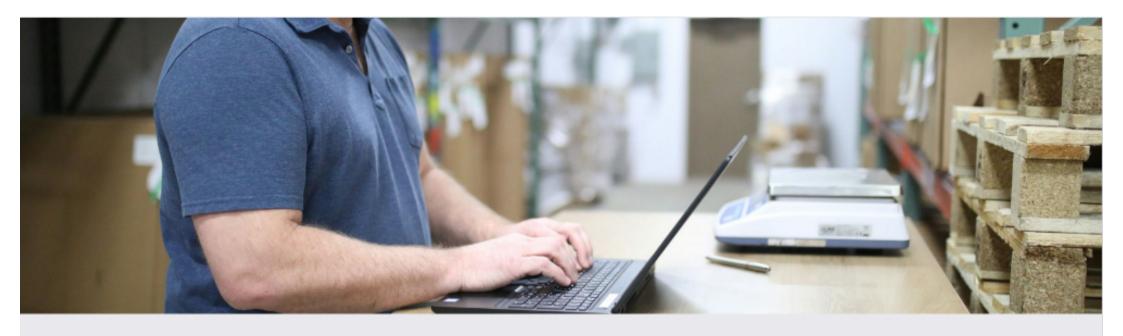
- Routing VRP/LP multi-hub design delivering ~10% scale efficiencies.
- Stress testing +8% surge scenarios mitigated using buffer policy.







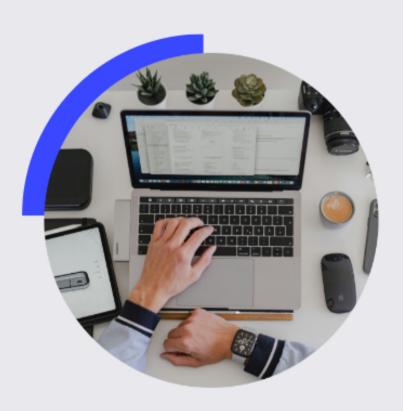




# Recommendations — Inventory

- Deploy LSTM forecasting for the top 5 categories; ~20% fewer stockouts.
- Set EOQ with a 15% safety buffer (₹300 Cr scope).
- Pre-stock 25% in Q4 to cover festive demand surges.







#### Recommendations — Routing



- Adopt multi-hub VRP to consolidate deliveries and reduce routing inefficiencies; target ~10% logistics savings (≈₹100 Cr).
- Launch a what-if planning dashboard for dispatch teams to simulate demand surges and re-route in real time.



 ESG: implement route optimization and load consolidation to achieve ~5% reduction in waste and emissions.



#### Roadmap & Risks



 0–3 months: Pilot LSTM + EOQ in two regions; establish baseline KPIs and data pipelines.



 3–6 months: Deploy multi-hub VRP and interactive dashboard; deliver user training and change management.



 Risks & ROI: address data gaps and integration challenges; projected ROI < 6 months with ~₹10 Cr capex.

