SUCCESS STORY

Translytics

Inventory Optimization

For a Global Chemicals & Consumer Goods Leader

Document Type
Case Study Report

Date
22/07/2025

Version
1.0

Leading Producer of Adhesives & Hair Care Products

DOCUMENT TYPE
Chemicals & Consumer Goods

SCALE
Global Presence

LOCATION
India

Sector Focus: High SKU count, seasonal demand shifts, supplier variability, and inventory cost management.

Executive Summary

After implementing SAP-driven S&OP and MRP, a global chemicals and consumer goods company experienced a surge in excess and obsolete inventory with minimal visibility into root causes. Translytics' AI-powered Inventory Optimization Engine mapped processes, detected anomalies, and suggested targeted corrective actions—resulting in reduced inventory levels, lower carrying costs, and improved service reliability.

₹35 L	+15%	20–30%	+12%
Monthly Saved	Stock Turnover Ratio	Carrying Cost Savings	Fulfillment Reliability

Challenge

The company struggled with:

Excess Inventory

- High levels of obsolete and slow-moving stock
- Increased warehousing costs and working capital burden
- Poor visibility into demand-driven planning

Supplier Performance Gaps

- Long lead times from unreliable suppliers
- Limited corrective levers in the planning cycle
- Frequent firefighting to meet demand

Business Impact

- High operational costs due to bloated inventory
- Stock imbalance caused service-level disruptions
- Reduced agility for new product launches

Solution provided by: Translytics

AI-Powered Inventory Optimization & Root Cause Analysis

Contact Information

+91 84849 87425
info@translytics.io

Translytics

Solution

Translytics Inventory Optimization Engine

AI-driven analytics for excess inventory control and cost reduction.

Root Cause Analysis

- Identified drivers of excess stock
- Automated anomaly detection in inventory patterns

Recommendation Engine

- Suggested corrective actions for stock rebalancing
- Enabled proactive procurement alignment

Decision-Support Layer

- AI-assisted dashboards for inventory positioning
- Predictive alerts for abnormal trends

Impact & Results

Qualitative Improvements

- Reduced inventory risk and carrying costs
- Improved stock visibility across RM and FG
- Enhanced demand responsiveness & service levels
- Optimized inventory positioning for better flow

Annual Impact Projection

₹3.4 Cr	13%	+17%	+18%
Saved Annually	Inventory Reduction	Stock Turnover Ratio	Fulfillment Reliability

Technology & AI Implementation

AI & Machine Learning Components

- Inventory risk scoring
- Forecast bias cleansing
- Root-cause diagnostics for slow movers
- Automated alert triggers

Integration & Platform Features

- ERP connectivity for RM & FG tracking
- Centralized dashboard for KPIs
- Real-time anomaly alerts
- Customizable decision-support interface

Future Enhancement Roadmap

Phase 2: Multi-Tier Inventory Optimization

Include supplier and distributor-level stock balancing

Phase 3: Dynamic Safety Stock Calculation

AI-driven buffer adjustments for seasonal variability

Phase 4: Sustainability Metrics Integration

Track and optimize CO_2 footprint of inventory holding

Solution provided by: Translytics

AI-Powered Inventory Optimization & Root Cause Analysis

Contact Information

+91 84849 87425
info@translytics.io