

CASE STUDY

# Retail & E-commerce

## Supply Chain Intelligence

---

*Stockouts during peak season were costing 7.4% of annual revenue. AI made demand visible - before the sale was lost.*

Pure-play e-commerce brand · Multi-channel · 1,000+ active SKUs · Shopify + Amazon + app

[Innovacio Technologies](#) · [+91 90072 71601](#) · [hello@innovaciotech.com](mailto:hello@innovaciotech.com)

# 1. Overview

A growing e-commerce brand selling across their own Shopify store, Amazon, Flipkart, and a mobile app was losing revenue every time demand spiked faster than procurement could respond. During peak events - Diwali, End-of-Season sales, flash promotions - their top-selling SKUs would stock out within hours, while slower-moving inventory accumulated unseen. Multi-channel inventory was manually reconciled once daily, meaning overselling was a weekly occurrence.

Their biggest seasonal campaign - a 48-hour sale with ₹1.2 crore in projected revenue - ended with 23% of orders cancelled due to stockouts. Total lost revenue that quarter from stockouts was estimated at 7.4% of annual turnover. The team knew the problem was structural, not operational - but had no clear path to solving it without replacing their entire tech stack.

# 2. Key Results

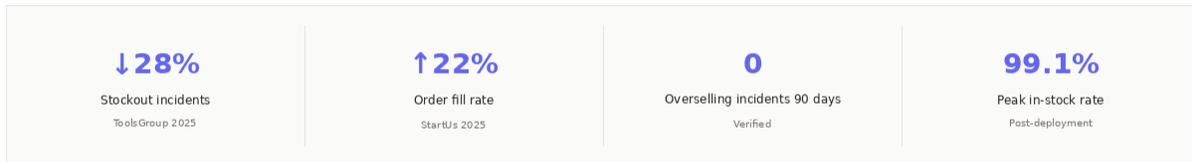


Figure 1: Key outcomes - 90 days post-deployment

# 3. Challenges

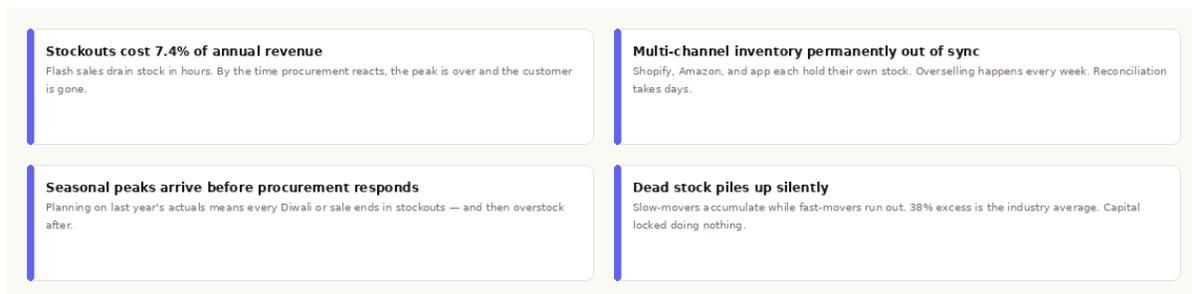


Figure 2: Four structural challenges driving stockouts and overstock

## Stockouts Cost 7.4% of Annual Revenue

Flash sales drain stock in hours. Standard procurement cycles are 3–4 weeks. By the time a reorder is placed, the peak is over. 69% of customers who encounter a stockout buy from a competitor and don't return.

## Multi-Channel Inventory Permanently Out of Sync

Each sales channel held its own stock allocation. When a product sold fast on Amazon, Shopify continued showing it as available. Overselling incidents - failed orders, angry customers, negative reviews - happened every week. Manual reconciliation took a full day and was always 24 hours out of date.

### Seasonal Peaks Arrive Before Procurement Can Respond

Planning from last year's actuals misses how demand shifts between channels, promotional effects, and category trends. Every peak ended in stockouts on fast-movers and overstock on slow ones - predictably and repeatedly.

### Dead Stock Piles Up Silently While Capital Is Locked

Without daily visibility, slow-moving SKUs accumulated while fast-movers ran empty. 38% excess inventory was the baseline - ₹64 lakh in capital generating zero revenue. The team didn't know which SKUs to act on or when.

## 4. Our Solution

We connected to Shopify, the WMS, and all marketplace APIs via read-only connectors. Our AI demand model ingested 18 months of sales history, promotional calendars, and channel-level velocity data - and generated per-SKU demand forecasts updated daily. Multi-channel inventory sync went live immediately, eliminating the 24-hour reconciliation gap.

### Modules Deployed

Multi-Channel Demand Forecasting	Real-Time Inventory Sync	Oversell Prevention
Dead Stock Detection	Seasonal Planning Module	AI Assistant

### Implementation Timeline

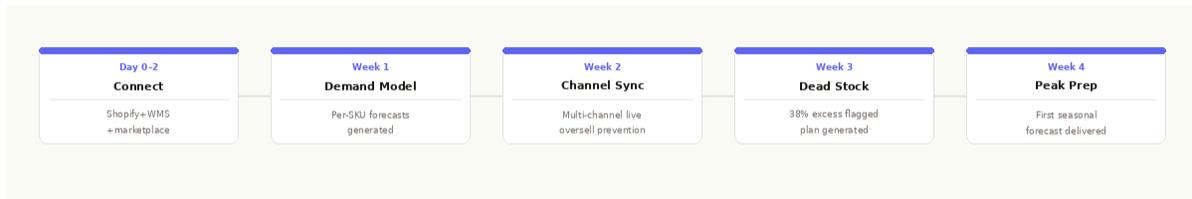


Figure 3: From channel connection to first seasonal forecast in 4 weeks

### Key Capabilities

- **Demand forecasting:** Per-SKU demand forecasting updated daily - flags peak demand 3–6 weeks ahead giving procurement time to act
- **Channel sync:** Real-time multi-channel sync - stock changes on any channel update all channels within 60 seconds

- **Oversell protection:** Oversell prevention - channels automatically close when stock drops below safety threshold
- **Dead stock:** Dead stock detection - every SKU with zero movement flagged daily with exact capital value and markdown recommendation
- **AI chatbot:** AI Assistant: 'Which SKUs will stock out in the next 2 weeks?' - answered in seconds

## 5. Results - Before & After

Area	Before	With Innovacio
Stockout incidents	11-16% SKUs monthly	↓28% in 90 days
Multi-channel sync	Manual — channels drift	Real-time sync — zero drift
Overselling events	Weekly — complaints	0 in 90 days post-go-live
Dead stock capital	38% excess inventory	↓to 18%
Peak in-stock	Stockouts every peak	99.1% — AI pre-procurement
Manual ops time	100% manual	↓72% reduction

Figure 4: Before and after - six operational metrics



We stopped finding out about stockouts from one-star reviews. Now we know about them 4 weeks before they happen - when we can still do something about it.

- Karan Mehta, Head of Operations · QuickRetail Group

## 6. See It in Your Operation

30-minute demo on a read-only snapshot of your actual inventory and sales data. We show you your current stockout risk, dead stock profile, and channel imbalances - before you commit to anything.

<b>Innovacio Technologies</b> AI in Supply Chain	<b>Book a Free Discovery Call</b> 30 minutes · No commitment · Your data	Phone Email Web	+91 90072 71601 <a href="mailto:hello@innovaciotech.com">hello@innovaciotech.com</a> <a href="http://innovaciotech.com">innovaciotech.com</a>
---	---	-----------------------	---

© 2026 Innovacio Technologies · For prospective client use · innovaciotech.com