

# How a Regional Grocery Operator Achieved 18% Inventory Accuracy Improvement and 12% Shrink Reduction with Real-Time Supply Chain Visibility

Reporting → Descriptive Reporting & Real-Time Dashboards

## At a Glance

### The Problem

- Inventory data 24–48 hours stale across both DCs
- Two DC systems and three POS platforms not connected
- Shrink and phantom inventory invisible until month-end
- Out-of-stock events only surfaced after store manager escalations

### The Solution

- Unified real-time inventory visibility layer
- Sub-30-minute data refresh across both DCs
- Automated anomaly detection on stock movements
- Role-specific KPI dashboards (DC, category, ops level)

### The Result

- 18% inventory accuracy improvement in 10 weeks
- 12% shrink reduction in Year 1
- 22% reduction in out-of-stock incidents
- 40% improvement in planner decision time

## Business Context

A regional grocery operator running 75 stores across a single territory faced a growing gap between what their systems showed and what was physically on shelves and in distribution. With 12,000+ active SKUs spanning ambient, chilled, and frozen categories, planners were making restocking decisions on data that was 24 to 48 hours old — a lag that, at grocery margins, has an outsized impact.

The shrink was going undetected until month-end reconciliation. Phantom inventory was inflating reorder points. Out-of-stock incidents only surfaced after store managers escalated complaints — by which time the lost sale had already happened. For a business operating on thin margins with no visibility buffer, this invisible cost was becoming structural.

## Client Profile

### Industry:

Food & Beverage

### Geography:

North America — Single Region

### Scale:

75 stores, 2 Distribution Centres

### Revenue:

\$280–450M annual revenue range

### SKUs:

12,000+ active SKUs (ambient, chilled, frozen)

## The Challenge In Depth

The business was running two separate DC management systems, three POS platforms, and a legacy ERP syncing overnight. No single system held a complete, current picture — and the consequences of that gap were playing out daily across the store network.

- **Data Latency:** 24–48 hour batch cycles meant planners were ordering against yesterday's numbers — generating an estimated 12% out-of-stock rate during high-velocity promotional windows.
- **Undetected Shrink:** Perishable shrink across produce, dairy, and bakery was invisible in real time; losses only surfaced at monthly stock counts when corrective action was weeks too late.
- **Phantom Inventory:** Items showing as in-stock on the system but physically absent were inflating replenishment triggers, resulting in systematic over-ordering estimated at \$300–500K annually.
- **No Network View:** Without a unified picture across both DCs, inventory imbalances — excess at one location while the other ran short on the same SKUs — went undetected and unresolved for days.

## Our Approach

### 1. Building a Single Inventory Truth Across Both DCs

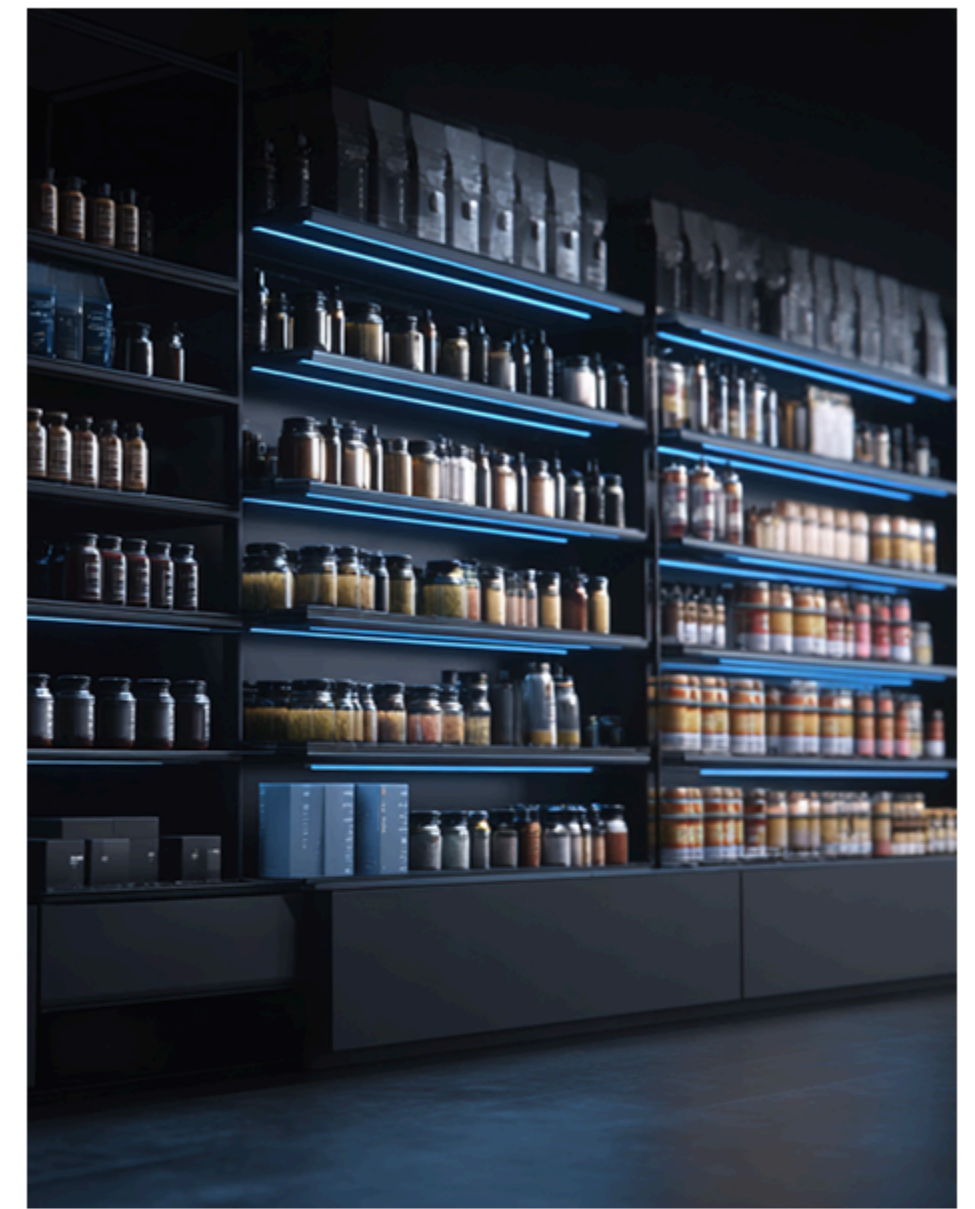
Axlian implemented a unified real-time visibility layer consolidating both DC management systems, three POS platforms, and the ERP into a single source of truth. Data refresh cycles moved from overnight batch to sub-30-minute updates, closing the planning blind spot that persisted across the entire store network.

### 2. Anomaly Detection That Flags Problems Before They Become Losses

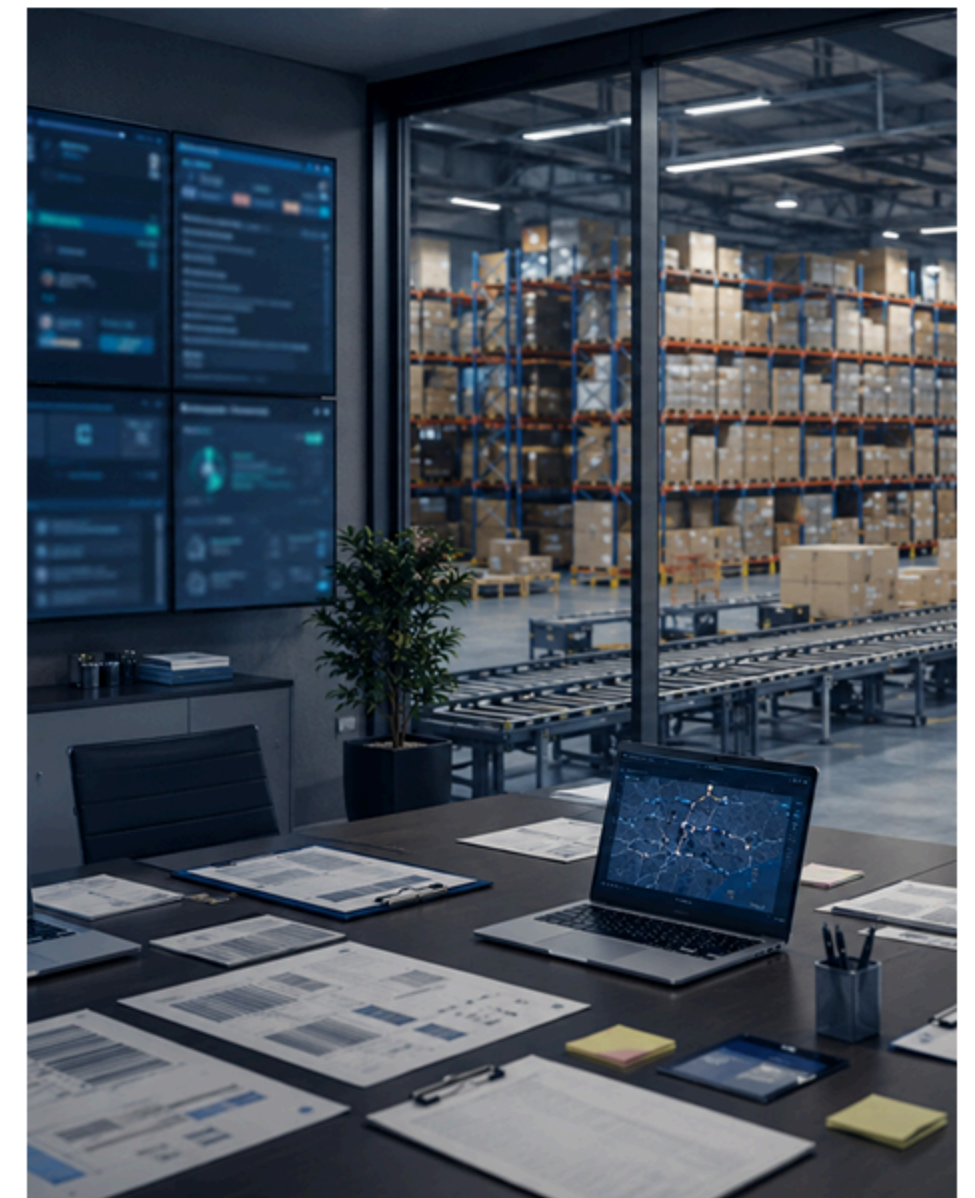
Statistical baseline modelling automatically flagged inventory movements deviating from expected patterns — early indicators of shrink, phantom inventory, or fulfilment errors. Planners received same-day alerts enabling immediate investigation rather than month-end discovery. In the first four weeks, over 200 anomaly events were detected and resolved that would previously have gone unnoticed until the next stock count.

### 3. KPI Dashboards Built for How Planners Actually Work

Rather than generic reports, role-specific dashboards were built for DC managers, category planners, and the ops leadership team. Decision latency dropped from days to hours across all planning levels — freeing planners from manual exception management and returning time to proactive category work.



Replenishment on demand, delivered timely using our platform



## Results and Impact

Within ten weeks of deployment, inventory accuracy improved 18% — the highest level the business had recorded since opening its second DC. Year-one shrink reduction of 12% translated to approximately \$380K in recovered margin. Out-of-stock incident rate saw a 22% improvement, directly lifting basket completion rates. Planners, freed from manual exception firefighting, redirected 40% of their working time to proactive category planning.

## What Happened Next

- **Weeks 1–10:** Real-time visibility layer deployed across both DCs and all 75 stores; sub-30-minute data refresh achieved.
- **Month 4:** Anomaly detection thresholds tuned to category-specific shrink patterns; false positive alert rate reduced significantly.
- **Month 6:** Supplier visibility extended to top 20 vendors, enabling collaborative replenishment planning on high-velocity SKUs.
- **Currently:** Evaluating demand forecasting integration to close the loop between real-time visibility signals and automated replenishment triggers.

**18%**

Inventory Accuracy Improvement (10 Wks)

**12%**

Shrink Rate Reduction (Year 1)

**22%**

OOS Incident Reduction

**40%**

Planner Decision Time Improvement

# axlian

Axlian helps retail teams make faster decisions, reduce inventory costs, eliminate stockouts, and protect margins; so retailers never fall behind.