



AI Agents That Protect Customer Loyalty

Diagnose and fix the supply chain
failures that erode it. At scale.

The Real Cost of a Supply Chain Failure Is a Customer Who Doesn't Come Back.

Enterprise supply chain teams already know how to fix split shipments, shrink, labor gaps, and stockouts. The challenge is doing it across thousands of sites, shipments, and SKUs before the failure erodes customer loyalty. Manual execution doesn't scale. Customer loyalty is what pays the bill.

71%

of consumers have switched brands at least once in the past year
(Salesforce, 2022)

63%

of consumers will switch to a competitor after just one bad experience
(Zendesk, 2025)

\$890B

in US retail returns in 2024, 16.9% of all retail sales
(NRF, 2024)

Loyalty-Eroding Failure Modes That Compound at Scale

Manual execution creates compounding failures:



Stockouts Events



Shrink & Loss



Labor Inefficiencies



Split Shipments



Excess Inventory

Beamup's AI agents diagnose and fix these failures continuously, at scale.

So customer loyalty holds.

How Beamup Protects Customer Loyalty at Scale

Beamup replaces manual analysis, spreadsheets, and reactive workflows with AI agents that diagnose and fix supply chain failures continuously **across thousands of sites, shipments, and SKUs.**

1 Activate AI Agents Around Business Goals

Configure the agent, set confidence thresholds, and define the loyalty signals you protect: NPS, repeat purchase, on-time delivery, dealer fill rate.

Fulfillment Execution Agent

Agent Status

ACTIVE

CONFIDENCE THRESHOLD



Low = more insights, higher noise. **High** = fewer insights, higher precision.

SUCCESS METRICS

OTIF %

Dock-to-Stock Time

Split Shipment Rate

Define KPIs this agent will optimize for.

2 AI-Generated Insights with Loyalty and Dollar Impact

Generate insights with automated dollar impact, loyalty signal impact, and confidence scoring. Your team works the highest-value failure classes first.

Fulfillment Insights

ID	SUMMARY	AGENT	FACILITY	VALUE	CONFIDENCE	STATUS
IN-2223	East Coast warehouse bottleneck causing 2-day delays on 18% of orders	Fulfillment Execution	F14	\$127,000	89%	Pending
IN-2237	Cross-dock inefficiency in West region increasing transit time by 1.5 days	Fulfillment Execution	F09	\$89,000	87%	Pending
IN-2245	Inventory accuracy discrepancies in high-velocity SKUs causing stockouts	Fulfillment Execution	F03	\$67,000	94%	Pending
IN-2256	Temperature fluctuations in cold storage causing 8% spoilage rate increase	Fulfillment Execution	F22	\$54,000	85%	Pending

3 Context-Rich AI Reasoning

Validate assumptions and follow the agent's reasoning trace. Every insight ships with a full explanation of how the agent got there.



Drivers to Validate

Help improve future confidence by validating these assumptions

Warehouse capacity is a primary constraint

high impact



Delays are concentrated in specific product categories

high impact



Weekend processing contribute to Monday bottlenecks

medium impact



Reasoning trace

How the agent arrived at this insight



Detected anomalous gap between order placement and warehouse scan time

↳ 3,421 orders with >48hr scan delay

4 Drive and Learn from Corrective Action

Convert recommendations into tasks. First run is human-validated. After approval, the same fix runs automatically the next time the same failure mode appears.



AI-Driven Resolution Strategies

Optimize Regional Fulfillment: Update shipment logic for Heavy/Bulky SKUs to be shipped from NYC warehouse to resolve capacity constraints.

Prioritize Heavy/Bulky SKU Flow: Update shipment SLA for High-Volume SKUs to prioritize categories currently facing the highest delivery delays.

Expand Weekend Processing: Increase Saturday/Sunday operational hours to eliminate recurrent Monday morning bottlenecks.



Tasks



Task 1: Route NYC-adjacent orders for SKU X to NYC Hub (Due: EOD).

Purpose-Built AI Agents for Loyalty Operations

Stockout Prevention Agent

Predicts and prevents stockouts on loyalty-critical SKUs.

- > 20% fewer stockouts on the SKUs customers come back for

Scope:

Stores • DCs • In-Transit

Excess Inventory Agent

Identifies and corrects excess inventory before it destabilizes delivery promises.

- > 20% less overstock, steadier loyalty signal

Scope:

Stores • Suppliers • DCs

In-Transit Agent

Detects in-transit losses and broken delivery promises across shipments.

- > Fewer broken promises, less margin lost to concessions

Scope:

In-Transit

Fulfillment Execution Agent

Resolves fulfillment issues by automating corrective actions end-to-end.

- > Seconds vs. hours of resolution time. Loyalty fixes run quietly

Scope:

End-to-End Fulfillment

Inventory Shrink Agent

Identifies theft and execution failures before they drain the loyalty budget.

- > Protected revenue, loyalty budget intact

Scope:

Stores • Warehouses • In-Transit

Split Shipment Agent

Detects and prevents split shipments that read as broken delivery promises.

- > Millions saved annually, fewer broken promises

Scope:

Planning • Suppliers • Execution

Results Driven by Automation

Enterprises using Beamup report:

Retail and D2C

+35%

on-shelf availability for the SKUs
customers come back for

20%

less overstock on slow movers that
quietly erode margin

20%

reduction in shrink and concessions
that drain the loyalty budget

Manufacturing

22%

less excess inventory blocking promise-
to-customer reliability

35%

fewer line-stopping stockouts that
break dealer and OEM trust

7%

increase in units per hour without
adding headcount

Customer Loyalty, Protected. [At Scale.](#)

Purpose-built AI agents for the supply chain failures that erode it.


11


Granted Patents

22

Countries deployed

Contact us

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