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Transforming Supply Chain from "Excel Hell" into a Predictive AI Engine

How a global consumer goods company built a reusable, governed foundation for replenishment, forecasting, shortage management, and waste control.

99.7%
Efficiency gain in replenishment

$1.7M
Annual gross benefit

500%+
First year ROI in waste-control

AT-A-GLANCE

Company: Global Consumer Goods Manufacturer

Industry: Consumer Goods

Department: Supply Chain & Procurement

HQ / Location: Columbia

Scale: 6,000 employees in 14 countries

Challenge

At a global consumer goods manufacturer, planners relied on fragmented spreadsheets and manual SAP queries to forecast demand and balance inventory. Forecasting took weeks, replenishment required day-long cycles, shortages were detected after stockouts occurred, and waste tracking depended on paper forms—driving delays, errors, and avoidable financial losses.

Use Cases Transformed Into AI-Native

With UnifyApps, the company unified planning, execution, and exception management into a reusable, AI-Native supply chain engine:

Product Replenishment

BEFORE
12-hour bi-weekly Excel and SAP validation cycles

AFTER
Automated balancing engine running in 5 minutes

$ COST
Two days lost per cycle; delayed decisions

✓ BUSINESS IMPACT
99.7% efficiency gain and real-time visibility

AI-Powered Short Term Forecasting

BEFORE
Weeks of manual forecasting and gut-feel adjustments

AFTER
AI forecasts generated in minutes via Snowflake

$ COST
Reactive inventory decisions and missed signals

✓ BUSINESS IMPACT
Faster, data-driven planning at scale

Shortage and Coverage Management

BEFORE
Reactive shortage detection after stockouts

AFTER
Real-time shortage detection with USD impact modeling

$ COST
2–3% revenue loss from delayed response

✓ BUSINESS IMPACT
Proactive rerouting and inter-center transfers

Waste Control Management

BEFORE
400+ daily paper forms with 15–20% errors

AFTER
Digital platform with instant capture and validation

$ COST
$50K+ fines and $200K+ payment delays annually

✓ BUSINESS IMPACT
500%+ ROI and near-zero data errors

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Scalable, Reusable Foundation

Shared demand, inventory, logistics, and waste data enabled reuse across forecasting, replenishment, shortages, and compliance.

Integrations Used

SAP (ERP & Supply Chain)

Snowflake (Data Lake)

SharePoint & Excel (Legacy Data)

APE (Assembly Process Engine)

Rapid deployment, No ERP replacement

UnifyApps delivered payback in 2–4 months.

Previously traditional transformations took years.

The core capabilities behind AI-Native transformation

Unified AI platform

Integrated data, workflows, and AI in one execution layer

Reusable architecture

Shared integrations that cut the build cost for new use cases

Model-agnostic AI

Embedded AI without locking into a single model

Built-in governance

Auditability and controls included from day one

Low-code delivery

Faster builds with smaller teams—without sacrificing reliability

Master Agents & App Catalog (MAAC)

Explore 200+ Production-Proven AI Agents Across Finance, HR, Supply Chain, Sales & IT

Explore Use Cases →

About UnifyApps

UnifyApps is the AI Agent and App Builder for the enterprise that empowers organizations to transform into AI-Native enterprises. The AI OS platform connects systems of record, knowledge, and activity, enabling enterprises to turn stalled GenAI pilots into scalable, production-grade solutions.