

RETAIL

Store inventory auto-replenishment for a global convenience chain

Store managers spend hours on ordering across ~2,500 SKUs. Wexa built and delivered a working replenishment app that forecasts demand and moves stock from the nearest store or distribution center.

~2,500

SKUs per store modelled

1–2 h

per day manager time targeted for release

2 × 3 × 4

pilot design: stores × categories × weeks

CLIENT

Global convenience-store chain

REGION

US / global

WHEN

2025

ENGAGEMENT

Solution build

WEXA COMPONENTS

Tables • transaction-triggered process flows • custom UI

The challenge

- Manual ordering and stock balancing per store
- Stock-outs on fast movers, waste on fresh food
- Supplier exceptions handled by email

What Wexa built

- ✓ Tables for DC stock, store inventory, transactions and transfer requests
- ✓ Transaction-triggered process flows
- ✓ Auto-replenishment from the nearest store or DC; manager confirm or override
- ✓ Custom web application deployed on Wexa

How it runs on Wexa

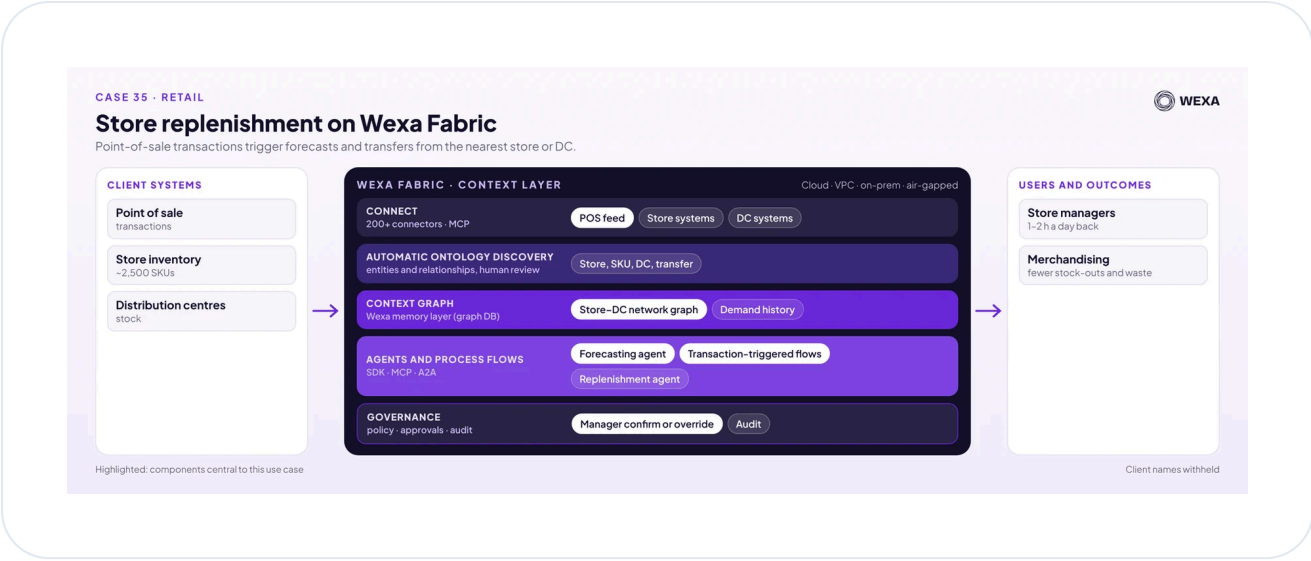


FIGURE How this use case runs on Wexa: client systems connected, ontology discovered, context graph in the Wexa memory layer, agents and process flows, and governance. Highlighted components are central to this use case.

Solution workflow



FIGURE Replenishment loop: point-of-sale data → AI forecasting → auto-orders → manager confirmation.

Results

MEASURE	BEFORE / WITHOUT WEXA	WITH WEXA
Manager time on ordering per store per day (100 stores)	1.5 hours	15 minutes
Annual cost of the process	\$1.4M	\$225K
Time to implement the AI solution	6 months	4 weeks
AI build cost (one-time)	\$480K	\$30K

MEASURE	BEFORE / WITHOUT WEXA	WITH WEXA
AI operating cost per year (models, infrastructure, upkeep, platform)	\$312K	\$166K
Total AI cost in year 1	\$792K	\$195K

WITH WEXA

\$959K

net annual value to the client after Wexa's
own operating cost

6x

faster to implement

47%

lower AI operating cost

\$597K

less AI spend in year 1