AUTO SCHEDULER

The Warehouse Decision Intelligence Platform

FOR CPG

Synchronizing Plant-Attached Warehouses

Optimizing Multi-Facility Flow

Maximizing Margins

CPG Logistics Has a Decision Overload Problem

High-velocity inventory, constant production schedule volatility, fluctuating retailer demands, and strict order fulfillment windows create a chaotic floor environment where static daily plans and standardized Warehouse Management System (WMS) rules break by mid-shift.

STATIC WMS PLANS SHATTER UNDER DISRUPTION

Traditional transactional systems (WMS, ERP, and MES) are excellent at recording inventory and processing discrete tasks, but they operate in data silos. They lack the capacity to dynamically coordinate real-time tradeoffs across manufacturing lines, available labor, dock scheduling, and off-site storage networks.
When a production line changes unexpected variants or an off-site shuttle lags, managers must fall back on manual firefighting—using spreadsheets, memory, and tribal knowledge to keep lines running and trailers moving.

A REAL-TIME DECISION LAYER ON TOP OF WMS, ERP, AND MES

AutoScheduler is the real-time Warehouse Decision Intelligence Platform that overlays seamlessly onto your existing WMS, ERP, and MES architecture. Acting as an operational brain and a WMS accelerator, it eliminates data blindness by unifying plant schedules, inventory locations, and carrier workflows.
The platform continuously models every operational constraint simultaneously, automatically orchestrating and executing the most efficient task plans for the next 24 to 36 hours.

THE EXECUTION CHALLENGE

4 Critical Challenges Facing CPG Warehousing

Production volatility, off-site shuttling, resource planning, and retailer compliance collide inside the same shift.

01

The Production-to-Warehouse Blindspot

Plant schedules change constantly due to raw material shifts, line constraints, or labor availability. When the attached warehouse cannot instantly adapt to these changes, staging areas freeze up, product lines stall due to delayed raw component delivery, and massive operational inefficiencies cascade across the campus.

02

Campus Inefficiencies & Off-Site Shuttling Waste

Due to space limitations at manufacturing facilities, CPG firms rely heavily on local network satellite warehouses. Suboptimal planning leads to excessive double-handling, expensive driver detention fees, and an over-reliance on "bring-backs"—unnecessarily shuttling finished goods from satellite locations back to the plant just to fulfill a single outbound load.

03

Time-Intensive & Error-Prone Resource Planning

Industrial engineers and site managers spend hours every single day manually piecing together complex workforce and task schedules. Because these manual efforts cannot account for multi-variable volatility in real time, they frequently result in unbalanced labor zones, high overtime expenses, and underutilized dock doors.

04

Hidden Margin Loss & Retailer Penalties

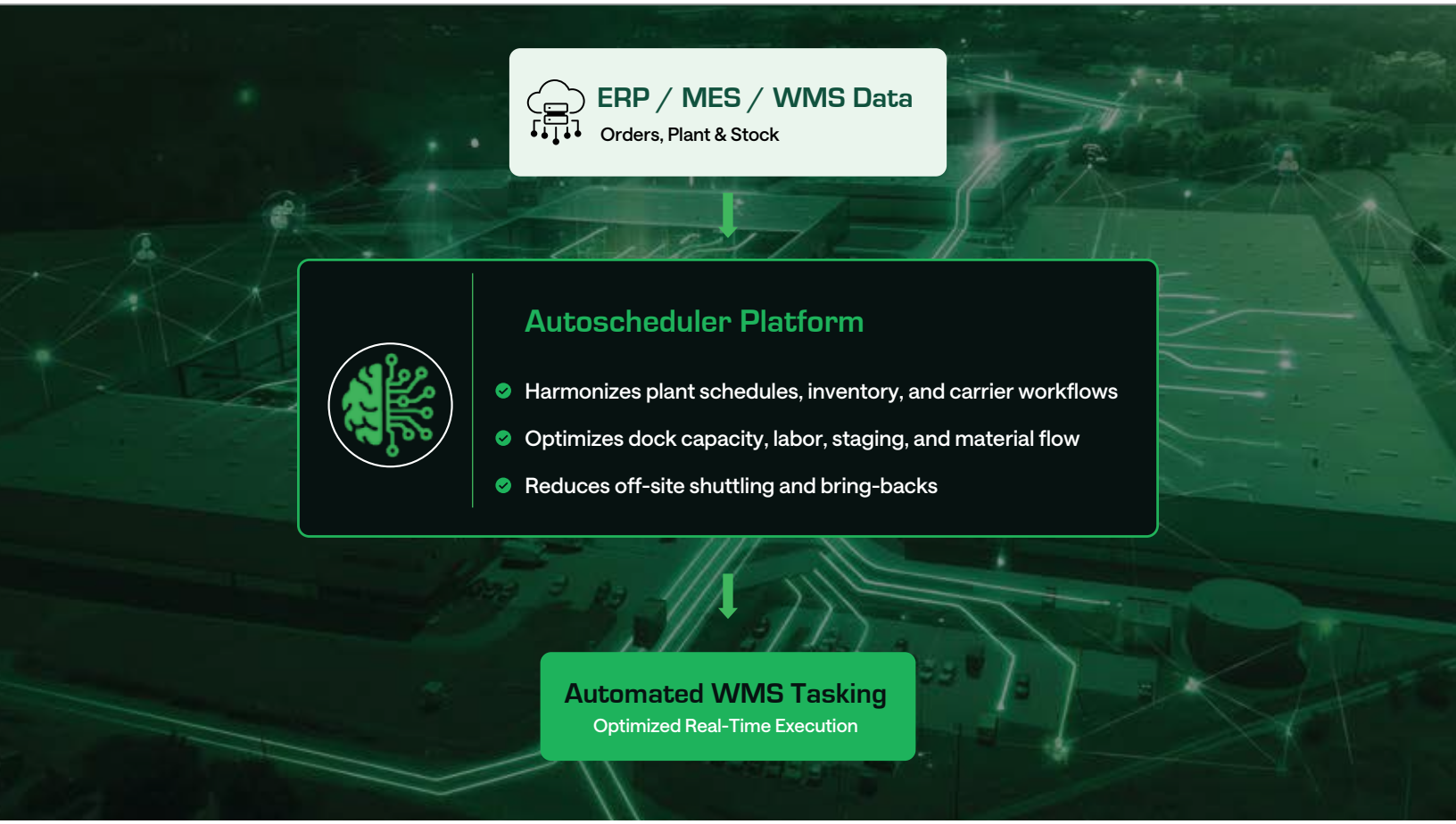
Siloed operational data makes it difficult to uncover underlying systemic layout inefficiencies. Disconnected logistics workflows heighten the risk of product cuts, order substitutions, late carrier departures, and missed shipments, directly triggering severe On-Time, In-Full (OTIF) non-compliance penalties from major retail buyers.

Real-time orchestration across plants, inventory, and carrier workflows.

HOW IT WORKS

System Harmonization & Cross-Campus Flow

AutoScheduler acts as a continuous optimization engine, replacing reactive firefighting with predictive, mathematically proven facility flow.



Decision Intelligence in Action

AutoScheduler creates a single execution truth across plant schedules, inventory locations, carrier workflows, and warehouse tasking.

Seamless Data Harmonization

Integrates siloed operational data streams into a single, unified analytical interface, giving corporate logistics, plant management, and site supervisors a singular source of execution truth.

Dynamic Constraint Optimization

Evaluates real-time constraints—including dock door capacity, current warehouse staging limitations, localized labor availability, and material tracking—to inject perfectly balanced work batches back into the WMS.

Intra-Campus Material Optimization

Intelligently balances direct-from-line dock shipments against satellite facility allocations, heavily cutting down cross-dock transit steps and maximizing campus trailer sequencing.

PROVEN IN GLOBAL MANUFACTURING FOOTPRINTS

Meaningful ROI from Predictable, Math-Driven Flow

AutoScheduler converts high-volume CPG warehouse complexes into predictive profit drivers without requiring disruptive system changes.

Strategic Performance Benchmarks

⇩ 50%	⇧ 30%	⇧ 12%	⇩ 40 - 60%	99%
Reduction in Plant Production Line Downtime	Increase in Peak Warehouse Throughput Capacity	Improvement in Direct Labor Productivity Utilization	Decrease in Daily Analyst Administrative Workload	On-Time Shipment (OTS) Reliability Metric Sustained

Enterprise Case Study: Procter & Gamble
Lima, Ohio Campus

The Environment

P&G operates a highly critical, massive manufacturing plant supported by 7 distinct nearby satellite warehouses, managing over 250 outbound truck shipments every day (85% drop-and-hook / 15% live loads). Manual scheduling and production line volatility caused severe campus travel overhead and constant product bring-backs.

The Transformation

AutoScheduler deployed its decision intelligence layer over P&G's existing transactional tech stack to harmonize production needs with distribution workflows.

$4M+ | **In audited total operational savings captured.**

⇩ 96% | **Reduction in Labor Scheduling Time**
Slashing daily workforce planning from 8 manual hours to a 20-minute automated review.

57% to 83.4% | **Direct-from-Plant Dock Shipments**
Drastically accelerating factory-to-customer order cycle speed.

⇩ 45.6% | **Reduction in Satellite Warehouse Bring-Backs**
Minimizing unnecessary double-handling and reducing intra-campus transport costs.

⇧ 30% | **Boosted Overall Throughput**
During a high-stakes inventory crunch without increasing network safety stock.

Meet the Warehouse Decision Agent
for CPG

Your entry point to the Warehouse Decision Intelligence Platform

AUTO SCHEDULER

Start Now