Major Consumer Foods Manufacturer Sees Productivity Boost With AutoScheduler and FourKites

Site Productivity Increased by 28%

Site Details

- 1.5M square foot building
- 35-50 outbound shipments per day
- 35-50 inbound receipts per day
- Site has 75% drop loads and 25% live loads, which becomes less favorable with volume and seasonality
- 190 operating doors across two usable sides of the building
- Food products all have a limited shelf life
- Loose case pick and claw layer operations

Challenges

Multiple factors are driving the need for the AutoScheduler solution:

- Decrease in labor availability and reliability resulting in extended periods requiring overtime >10%
- An overall increase in volatility in volume planning/forecasting
- Increased complexity of customer asks, including an increase in date-specific order parameters
- Volatility in transportation adherence to scheduling
- An increase in operational complexity resulted in site leadership needing to spend more hours on the floor
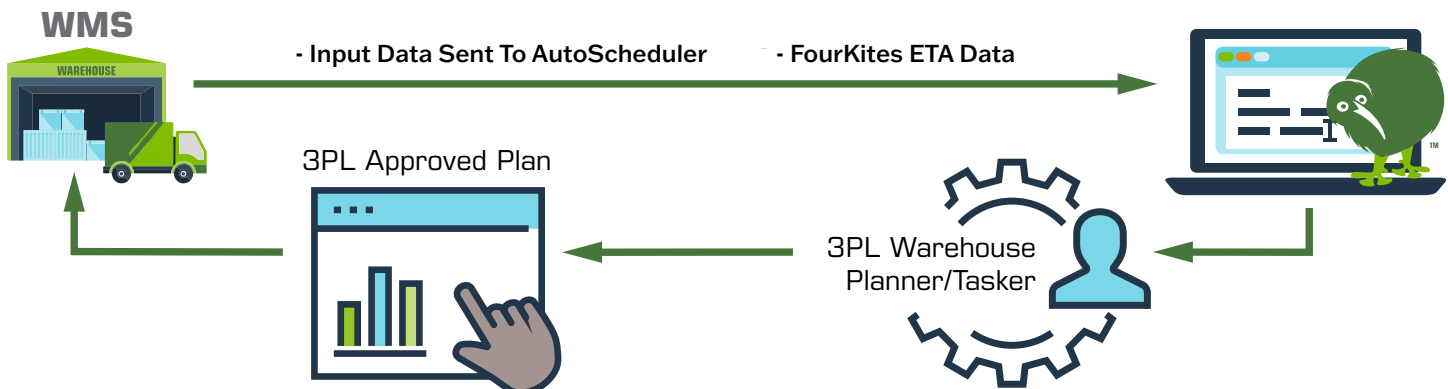
AutoScheduler.AI Implemented Solution

AutoScheduler with AutoPilot was implemented, meaning that updated data was sent to the AutoScheduler system every 15 minutes from both the WMS and FourKites ETA data to determine when trailers would arrive. A new "plan" was then created by AutoPilot every hour, detailing how many personnel were needed across all tasks and when they should be executed.

This plan was pulled back into Blue Yonder to automate the following processes on "AutoPilot" mode:
- Waving
- Allocation
- Cuts
- Work Release
- Work Priorities

Additionally, decision support information was presented to key site stakeholders on items such as:
- Slotting
- Door Assignments
- Staffing Recommendations
    - When they were overstaffed
    - When they were understaffed
    - Which tasks to assign personnel for non-directed work

WMS

WAREHOUSE

- Input Data Sent To AutoScheduler   - FourKites ETA Data

3PL Approved Plan

3PL Warehouse Planner/Tasker

Key Point: Avoiding duplication of data in multiple screens.

Key Point: Planner buy-in is key for adoption. AutoScheduler gives them the 'power' and ability to troubleshoot.
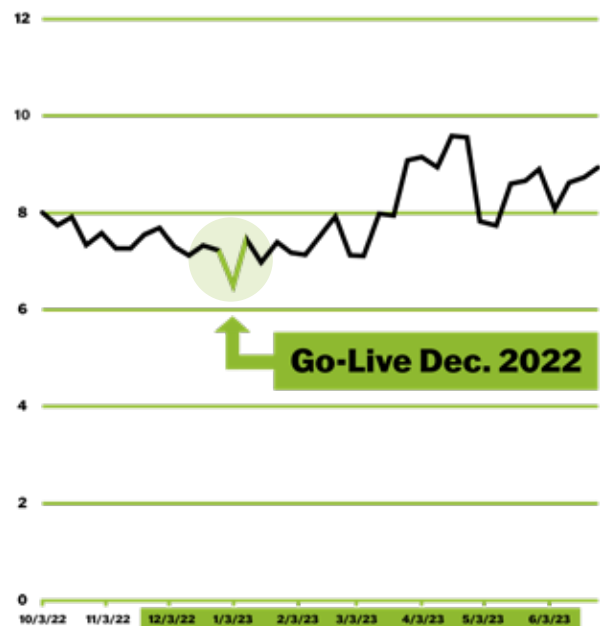
Case Study Multinational Consumer Foods Manufacturer

Success Metrics

- The AutoScheduler implementation allowed the tasking team to free up as much as 80 hours per week to offset tasks that had shifted to Team Leads and Supervisors.
    - This was accomplished by implementing the simplified plan approval, waving, and allocation process in AutoScheduler.
    - Automatic cuts management reinforced this reduction.
- The site saw an increase in productivity per headcount of 28% since both solutions were implemented, and shift leadership was able to return to employee and performance functions.
- A reduction in office staff turnover was seen year over year.
- The site maintained the >99% controllable case fill customer expectation.
- Cross-dock percentage >5% was consistently achieved.

Site Productivity Before & After AutoScheduler

Go-Live Dec. 2022

| | 10/3/22 | 11/3/22 | 12/3/22 | 1/3/23 | 2/3/23 | 3/3/23 | 4/3/23 | 5/3/23 | 6/3/23 |

autoSCHEDULER™

FOURKITES