## OPERATIONS SCHEDULING PROBLEM AT LOBLAW DISTRIBUTION CENTRE

## Problem Definition

The Loblaw's Distribution Centre (DC) has outdated operations with ineffective downtime and an inflexible scheduling of labour. Loblaw's is also seeking to build a business case for expanding capacity.

## Project Objectives

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Determine the labour hours required to meet retailer demand.

Design potential shift configuration schedules.
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Discover a better way to redistribute volume across the week
Determine which dock doors the trailers should be assigned to.
Initial Conditions
Shift Configuration


Current Employee Schedule


63 Total Workers 2377.5 Scheduled Hours 1968.2 Actual Hours
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Methods \& Analysis

Purpose
Evaluate worker schedules and dock door assignment plans Input
Worker schedules, job process durations, routing heuristics, Vehicle
Traffic percentage, number of cases worked, time completed, and worker productivity.
Benefit
Validate proposed solutions (schedules, dock door plan).

## Results \& Implementation



