

Case Study: Delivery Scheduling with Time Windows

This case study illustrates a Delivery Scheduling (VRPTW) optimization workflow used for planning customer deliveries under strict time constraints. Each delivery location included a start and end time window, and vehicles were required to respect these constraints.

Key Features:

- Vehicle Routing Problem with Time Windows (VRPTW)
- Multiple driver scheduling with allowed waiting times
- Realistic constraints such as earliest arrival and latest delivery times
- Automatic generation of optimized daily delivery schedule
- Minimization of lateness, travel duration, and driver workload

This project highlights how G-OPT can help businesses manage delivery commitments, improve service quality, and reduce operational inefficiencies through intelligent scheduling algorithms.