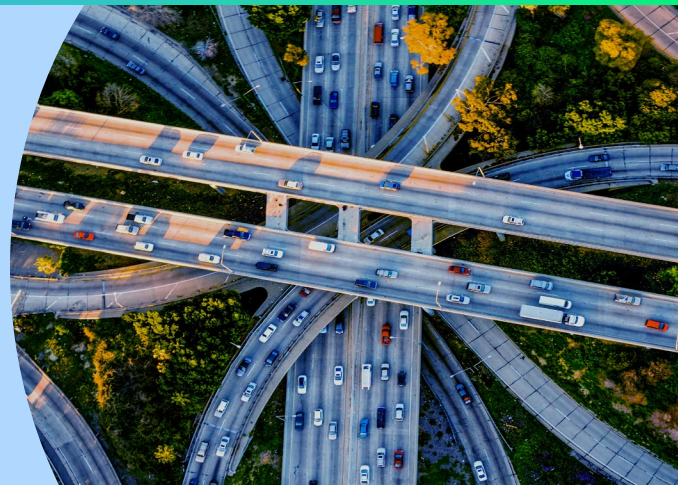


Navigating transportation efficiency with Route Optimization

Transportation is a central focus for many industries seeking timely, cost-efficient, and environmentally sustainable deliveries. Fuel expenses alone can account for up to 30% of operating costs.¹ Route optimization minimizes mileage to reduce operating costs by finding the most direct travel paths.

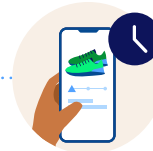


Common transportation challenges



Inefficient route schedules which increases fuel and labor costs

Driving empty miles increases overall transportation expenses



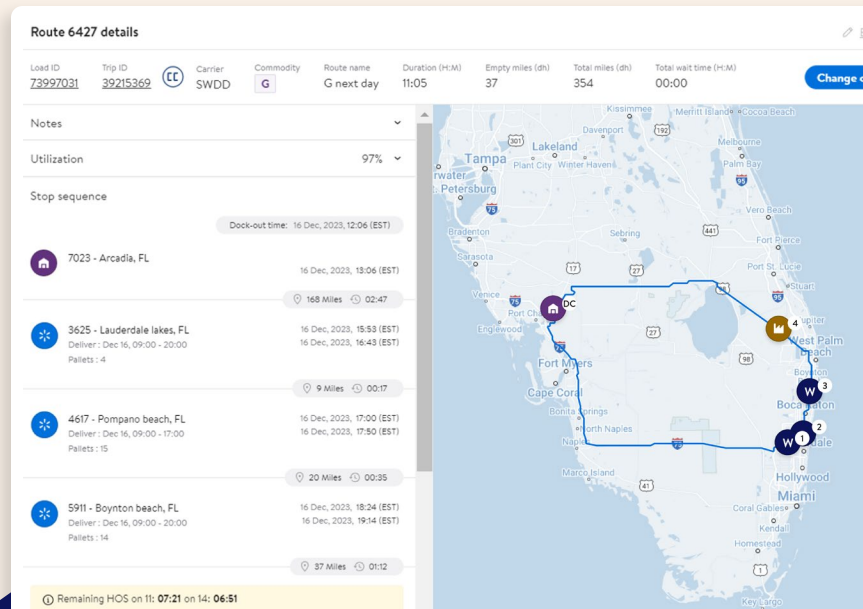
Untimely deliveries results in dissatisfied customers and lower brand loyalty

Neglect of cold chain integrity jeopardizes product quality and regulation compliance



Boost profits with advanced Route Optimization including:

- Advanced algorithms using Artificial Intelligence (AI) and Machine Learning (ML) for zero touch, error-free routing
- Reduce empty miles for higher cost savings and greener footprint
- Enhance customer services with timely deliveries and tracking
- Facilitate strategic planning with simulation tools
- Real-time response to rapidly address disruptions
- Data analytics for informed decision-making
- Stacking rules for perishables to prevent waste in transit



¹ American Transportation Research Institute. "An Analysis of the Operational Costs of Trucking: 2023 Update." June 2023

A success story

Franz Edelman Award

With Route Optimization, Walmart avoided 94 million pounds of CO² by eliminating 33 million unnecessary miles driven and optimized routes to bypass 108,000 inefficient paths. In 2023, Walmart was recognized for Operations Research excellence through the Franz Edelman Award for Route Optimization.



Unpacking the benefits of Route Optimization



Optimize trailer loading

Efficiently load trailers based on delivery stops to maximize space, comply with cold chain grocery regulations, and preserve product quality



Streamline backhaul scheduling

Intelligently plan return trips and optimize resource utilization for enhanced logistics so your trailer is never empty



Minimize disruption impacts

Manage unforeseen events, ensuring minimal disruptions and maintaining operational continuity



Reporting at a glance

Comprehensive insights, including detailed analyses of trailer utilization for efficient logistics oversight and decision-making



Enable multi stop route mapping

Optimizes efficiency with automated route mapping for multiple stop deliveries considering time, location and other constraints



Maximize cost reductions

Leverage optimal routes, eliminating empty trailers, and optimizing miles traveled to help reduce impact on the bottom line and boost environmental sustainability



The power of zero-touch logistics

Route Optimization, powered by AI and ML, is your zero-touch companion in transportation logistics, ensuring efficiency, cost-effectiveness, and adaptability for a seamless network.

- Automated route planning without human intervention
- Optimized trailer utilization and exception management
- Scalable and adaptable to changing demands