

CASE STUDY

Forklift Safety and Efficiency for a Fortune 500 Automotive Manufacturer



Key Challenge

A Fortune 500 automotive manufacturer faced operational inefficiencies with its extensive fleet of forklifts within a 500,000 square foot section of their Mexican plant. The challenge was to enhance asset management, optimize routing, and reduce operational costs while maintaining a high standard of safety and compliance within a fast-paced and strictly scheduled environment, which posed significant risks for accidents and inefficiencies.

Solution

Litum deployed a comprehensive RTLS solution to address these challenges. By integrating Ultra-Wideband (UWB) technology, the system ensured accurate routing and efficient utilization of forklifts. The solution featured an automated route optimization function that utilized historical and real-time movement data to dynamically adjust forklift paths to minimize travel times and prevent bottlenecks. Moreover, the RTLS solution offered extensive data analytics capabilities, providing detailed reports on vital metrics.

Features



Real-Time Tracking: Continuously monitors forklift locations, enhancing operational adjustments and forklift visibility



Automated Route Optimization: Uses real-time and historical data to dynamically optimize forklift paths, reducing travel times and improving efficiency



Safety and Collision Alerts: Issues proactive warnings to prevent potential collisions, significantly enhancing forklift safety



Idle Time Monitoring: Identifies and analyzes idle periods to reduce unnecessary energy consumption and improve efficiency



Load Status Identification: Monitors whether forklifts are loaded or unloaded, aiding in task prioritization and load balancing



Customizable Operational Dashboards: Features adaptable dashboards that provide essential metrics and insights for informed decision-making



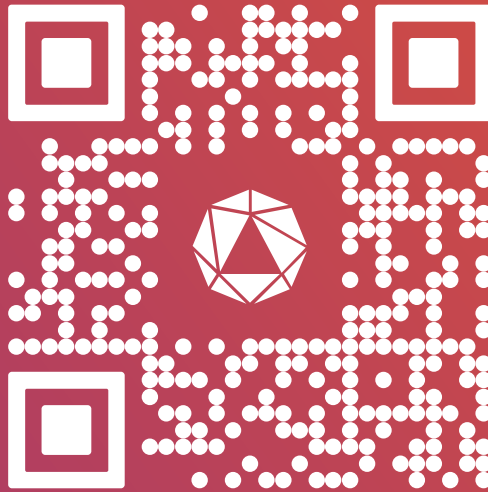
Data Analytics and Reports: Offers detailed reports on efficiency, safety, and asset utilization to support ongoing improvements

Results

Litum's deployment resulted in a significant boost in forklift utilization, with the client's operational efficiency

improving by 35-55%.

The solution also significantly improved safety within the facility, leading to a substantial reduction in incidents and fostering a safer working environment.



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