

CASE STUDY

Connected Worker for 10,000 Workers on Global EPC Provider Construction Site

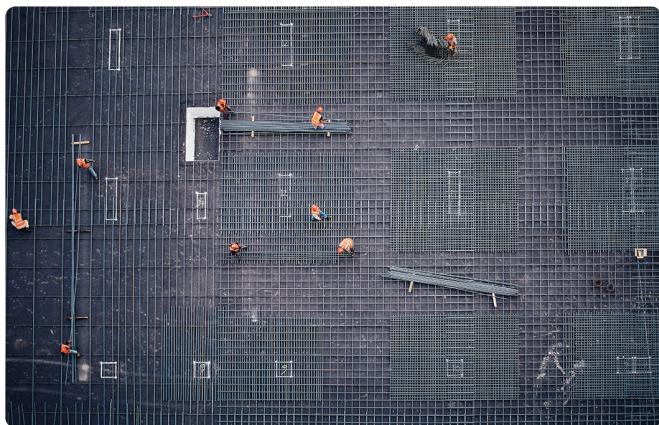


Key Challenge

In this case study, we examine how a client managed a workforce of over 10,000 employees and subcontractors in a large, 1 square kilometer fabrication yard in the United Arab Emirates. The site's complex layout, harsh conditions, and constant changes posed significant challenges. Managing such a dynamic environment required innovative solutions to ensure efficient operations and worker safety. This background introduces the application of Real-Time Location Systems (RTLS) to streamline operations and enhance safety in demanding construction settings.

Solution

Litum's RTLS solution leveraged Ultra-Wideband (UWB) technology for precise location tracking, seamlessly integrating with the client's HR systems to enhance timekeeping, payroll, and safety compliance. Sophisticated monitoring and alerts addressed safety risks like free-fall incidents and unauthorized area access, while a business rule engine and workforce management dashboard provided actionable insights and analytics to support decision-making.



Features



Automated Time and Attendance: Streamlining the logging of employee hours directly into the system



Safety Monitoring: Including emergency buttons and detection systems for falls and immobility, crucial for rapid response in accident scenarios



Workforce and Resource Monitoring: Real-time tracking of employee locations and assignments, along with resource tracking and allocation for ongoing projects



Payroll Integration: Automating the calculation and processing of payroll based on accurate work time data

Results

The deployment enhanced safety and operational efficiency significantly. By integrating real-time alerts and wearable safety devices, the client eradicated work-related accidents, ensuring an uninterrupted workflow and on-time project delivery. This proactive safety approach, coupled with optimized resource allocation and the reduced accident-related costs led to

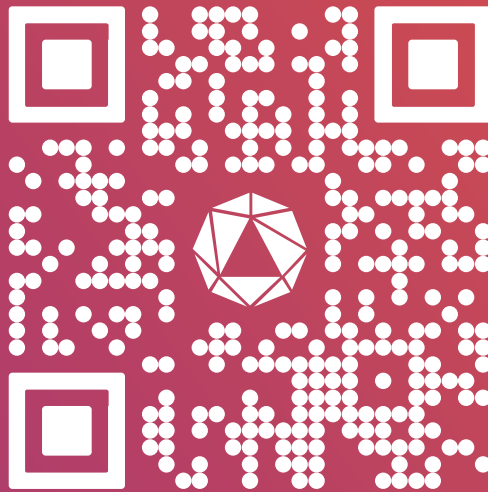
over \$1 million in savings within the first year.

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