



Case Study

Connected Workforce Solution Improves Productivity and Real-Time Project Visibility for a Global Construction Conglomerate



Client

The client is an India-based multinational engineering and construction company that caters to all core sector industries and infrastructure projects with capabilities spanning the entire gamut of construction, including civil, mechanical, electrical, and instrumentation engineering.



Challenges

- ▶ Lack of systematic means of tracking and monitoring the attendance and productivity of a large workforce of 300,000+ personnel
- ▶ Non-stringent access control measures, leading to safety and security violations
- ▶ Tedious and time-consuming process of filling paper-based daily checklists for the workforce
- ▶ No granular visibility on project progress at the job/sub-contractor levels



LTI Solution

- ▶ Developed an RFID (re-usable, retrofitted to helmet)-based zone tracking system that enables attendance logging and productivity measurement through skillset-workstation mapping, providing real-time alerts to sub-contractors and station managers on idle resources
- ▶ Automated team allocation to activities, based on WBS and activity-specific skillset requirements
- ▶ Ensured appropriate access control for the workforce through zone tracking, restricting access to hazardous zones, and material and tool collection zones, with alert triggers for security violations
- ▶ Developed a mobile-based platform for the workforce to fill workplace related checklists, triggering safety instructions based on workplace condition inputs such as altitude/depth, loading/unloading requirements, closeness to fuel stations, and hazardous zones
- ▶ Provided real-time dashboards on workforce productivity and job progress visibility for engineers and project managers



Business Benefits

6%
improvement in workforce productivity

Enhanced security through digital access control mechanisms

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