



Case Study

Worker Safety Solution for Largest Engineering & Construction Company in India

Client

The client is largest engineering & construction company in India. It constructs water supply network, operate and maintain on build, own, operate and transfer basis.

Business Challenges

- With expanding operations, the client wanted to ensure complete industrial safety and injury prevention by driving PPE regulations compliance to ensure safe operations and avoid near miss incidents.
- Delayed response time in case of incidents due to lack of real-time alerts to facility manager.
- Lack of zone wise safety monitoring and no compliance adherence tracking system to ensure worker safety on the construction site.
- No evaluation of historical incident leading to repeated events of near misses.



LTIMindtree Solution

LTIMindtree Worker Safety Solution is a computer vision @Edge & video analytics-based solution ensuring worker safety with compliance monitoring and providing alerts. The edge-based solution detects safety compliance breach in real time and raises alerts for timely interventions.

HSE manager are notified in case of any aberration enabling faster response to ensure safe environment.

Solution Highlights



Implemented AWS Computer Vision @Edge solution for monitoring workforce, tailgate detection, identification of hazardous scenarios and noncompliance to safety regulation



The solution included machine learning model with continuous processing of video feed from camera that enabled continuous workforce safety monitoring and real-time alerts in case of noncompliance



Provided a centralized dashboard for site managers and security supervisors, with a single screen view of multiple sites providing a comprehensive list of incidents and escalation matrix for timely corrective actions



Workplace insights for multiple construction sites wise safety score and safety compliance performance report enabling data driven decisions by site in-charge to mitigate risks

Business Benefits



100% safety compliance with continuous monitoring of **30000+ personnel**



Reduced fatality rates with increased visibility and faster response time



Increased accountability with incident reports that can be reviewed to identify hazards, allowing for safety suggestions and timely corrective action



Automate inspection and round-the-clock worksite monitoring

About LTIMindtree

LTIMindtree is a global technology consulting and digital solutions company that enables enterprises across industries to reimagine business models, accelerate innovation, and maximize growth by harnessing digital technologies. As a digital transformation partner to more than 700 clients, LTIMindtree brings extensive domain and technology expertise to help drive superior competitive differentiation, customer experiences, and business outcomes in a converging world. Powered by 82,000+ talented and entrepreneurial professionals across more than 30 countries, LTIMindtree — a Larsen & Toubro Group company — combines the industry-acclaimed strengths of erstwhile Larsen and Toubro Infotech and Mindtree in solving the most complex business challenges and delivering transformation at scale. For more information, please visit <https://www.ltimindtree.com/>.