



## Case study

Equipment Health Monitoring Solution and **Predictive Maintenance Improves Asset Utilization** for a Global Construction Conglomerate



# Client

The clie nt is an India-based multin ational engineering and construction company that caters to all core sec tor indu stries and infrastructure projects with capabilities spanning the entire gamut of construction, including civil, mechanical, electrical, and in strume notation engineering.

### 🖻 Challenges

- ▶ High in stances of unplanned equipme nt downtimes, resulting in p roject execution del ays.
- Sub-o ptimal utiliz ation of ass ets, leading to reduced OEE.
- No real-time insights on vehicle reliability to take corrective actions for asset performance maximization.

### LTIMindtree Solution

- Sensori zed the entire fleet of 35,000+ ass ets leveraging ThingWorx pl atform, enabling collection of real-time equipme nt pa ram eters such as oil p ressure, fuel levels, and fuel consum ption to proactively take corrective actions.
- Enabled real-time visibility of idle ass ets for sub- contractors and o ptimal ass et utilization through seamless ass et reque sts and alloc ation through a mobile applic ation.
- Devised condition-based health moni toring system to moni tor critical ass et pa ram eters.
- Depl oy ed Mosaic Things on Azu re to statistically predict b reakdowns through analysis of utilization l evels and per forman ce pa ram eters over time.
- Developed real-time dashboa rds to moni tor equipme nt utiliz ation, availability and per forman ce —persona -specific views for enginee rs, servi ce enginee rs, deale rs, and servi ce stations.

# Business Benefits

### 10-12%

imp roveme nt in ass et utiliz ation through real-time tracking.

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