



Case Study

LTI's Connected Port:

Digital transformation of pit-to-port operations for a major mineral port operator

The client operates a mineral port, handling approximately 10 million tons of mineral per annum.



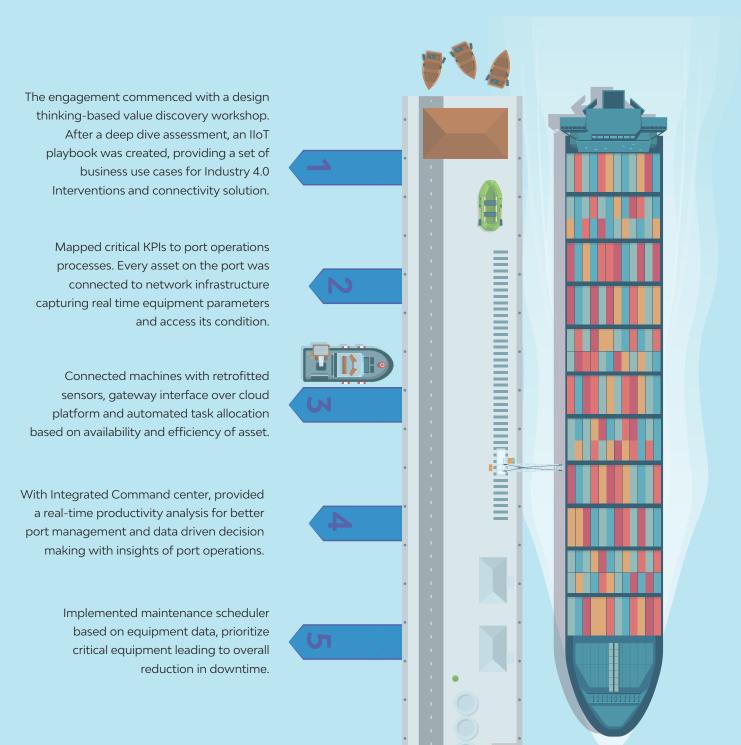
A set of challenges identified based on a discussion with various business function stakeholders were:

- Low asset utilization due to lack of asset monitoring locomotives, grabber, dumpers, barges, and other critical equipment.
- Lack of real-time information on material movement from mine to port and port operations due to which every stakeholder worked with estimations, lowering productivity.
- No visibility of work order execution through the supply chain.
- Non optimal use of mobile and fixed asset leading to poor fuel efficiency adding to high cost of operations.
- No correlation of driver behavior with asset condition and maintenance schedule.



LTI Solution

LTI leveraged IoT device sensorization and remote connectivity expertise to deliver radical digital transformation of the mineral port by collating multitude of loosely connected assets with Connected Ports Solution. With adoption of 4G network, the equipment spread across the mineral port were connected and real-time visibility led to optimized operations resulting in cost savings. The cloud-based solution is scalable capable of onboarding new devices, handling bulk data in real-time for analytics and forecast events. This equipped the management to make data-driven decisions.



Business Benefits

The digital transformation and the new command centre provided:





Improved
Equipment
utilization and
reduced downtime



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