

# Smart Inventory

Real-time Stock Availability Management  
and Automated Replenishment Using IoT  
Supply Chain Optimization



# CLIENT BACKGROUND

A leading energy utility company with large warehouses for storing and distributing tools and supplies to multiple service centers for the day-to-day maintenance and operations of energy transmission and distribution was tracking and managing its inventory and stock levels using manual methods. They are required to manage more than 1000 SKUs across the supply chain, with millions of inventory to track. The manual methods have significantly reduced productivity and slowed service operations, directly impacting the CapEx & OpEx.

# SOLUTION

- Reducing the manual effort, human errors, and time of the supervisors in restocking the inventory by automating the entire process with the N-Smart solution
- Real-Time insights on tracking the inventory to reduce the loss of revenue through pilferage or loss of goods
- Accuracy in the availability of the inventory stock
- Dynamic reporting to track and manage the inventory
- Handling exceptions with stock assignments

# CHALLENGES

- **Inventory replenishment** - The need for constant stock availability will cause depletion at various times of the year as the demand fluctuates.
- **High cost of goods sold (COGS)** - Inventory costs have the most significant operating expenses for companies as they are fixed costs that do not vary with sales volume or transaction value.
- **The problem of accuracy** - Accuracy is the key to streamlining business operations. Accurate records of all the inventory supplies and stock availability effectively streamline the service operations.
- **Reduce pilferage** - The cost of lost inventory, replacing the missing inventory, and restoring the supply chain has a significant impact on both CapEx & OpEx.

# OUTCOME

- 53% increase in the accuracy of the inventory records with data automation
- 25% reduction in CapEx loss
- 30% increase in delivery reliability by tracking supply flows
- 20% Increase in Operational performance and productivity
- 48% decrease in manual efforts for verification and activity response