wipro

Intelligent Intralogistics Mobility Platform
Smart Warehouse and Distribution Center Automation

Introduction

Automation in supply chain operations is about identifying and automating repetitive tasks – from loading/unloading, sorting, inspection and repackaging, to data entry. Manual operations go hand in hand with human errors resulting in delays, improper time & resource management, low productivity, and damage to inventory. Wipro's Intelligent Intralogistics Mobility platform applies autonomous technology to create efficient supply chains, cut costs and adapt to the new standard operating procedure brought in by the pandemic. The system applies artificial intelligence to assist in planning, scheduling, simulation, and work management to drive efficient utilization of labor and resources.

Key Takeaways

- Optimize your supply chain, cut costs, improve transparency, and adapt to the new norm of contactless operations
- Leverage the power of artificial intelligence to a automate tasks from inventory counting to simulation and planning

Autonomous technology applied to automate routine labor-intensive operations such as inventory counting, monitoring and yard operations

Key Benefits

Cost benefits
- Cut down on labor costs and down time with autonomous technology
- Redirect staff to critical high value activities
- Reduce losses due to inventory shrinkage and damage
- Increase velocity of operations

Improved transparency
- Automate inventory monitoring and counting operations with drones and smart algorithms
- Efficient location of stock to replenish pick lines
- Accurate quantity and location data for inventory
- Real time inventory monitoring

Applicable across multiple sectors such as Consumer, Healthcare, Retail, and Logistics among others
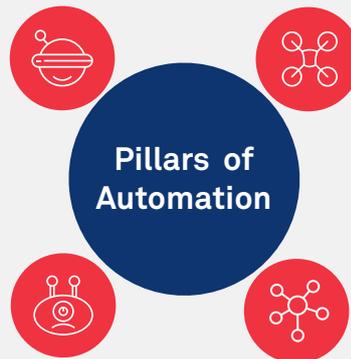
Feautres

Autonomous Mobile Robots
- Fully autonomous robots designed for human co-working in constrained environments
- Robust sensor fusion, perception, localization, and path planning derived from the technology powering self driving cars

Computer Vision
- Robust solutions for accurate environment sensing and monitoring
- Supports both well-lit and low light perception using multiple sensors including cameras (RBG, thermal, fisheye etc.), LiDAR and RADAR

Pillars of Automation

Drones
- Automate time-consuming manual processes of inventory counting, reconciliation and health check with drones
- Partner enabled solution to navigate multiple drones in GPS-denied environments

Smart Algorithms
- End-to-end consultative approach to automate niche applications and custom tasks such as inspection, sorting, defect handing, and repackaging