



AUTOMATE YARD OPERATIONS

TRANSFORM OPERATIONS AT YARDS & TERMINALS

Yards play an important role in the rail network. Separating and sorting freight wagons and building new outbound trains are central to delivery performance. With over 50% of wagon volume passing through yards, these transportation nodes impact departure performance, cycle time, and operational efficiency. Yet, today, much of the work being done in yard operations is manual and inefficient.

Wabtec's four-step framework for yard automation provides a phased approach to optimizing yard operations. Spanning decision support, inventory management, asset movement, and condition monitoring, it enables railroads to jump in at any step and drive immediate transformational improvements in yard operations.

33%

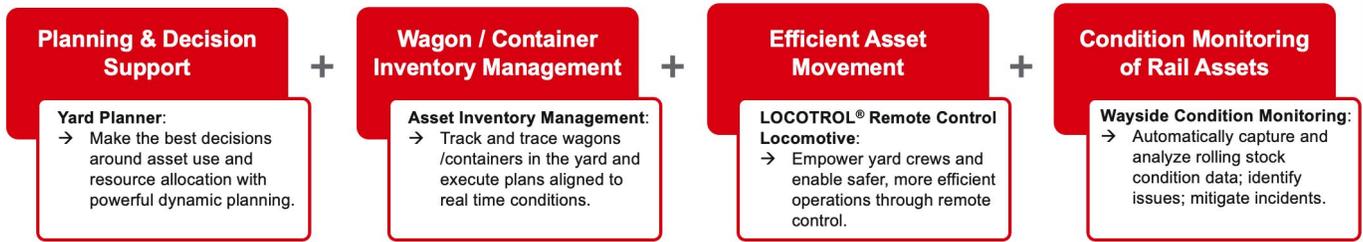
Reduction in average
yard crew size

44%+

Average reduction in
administration and planning



AUTOMATING YARD OPERATIONS



SOLUTIONS & CAPABILITIES

Yard Planner

- Generates optimized wagon processing plan
- Dynamically re-plans tasks every 2 minutes
- Considers all inbound traffic for the next 12 hours

Asset Inventory Management

- Tracks and traces wagons in the yard
- Integrates wagon ID detection without AEI
- Combines high performance edge devices with scalable cloud analytics

LOCOTROL® Remote Control Locomotive

- Provides remote control of heavy haul locomotives in rail yard or main line
- Integrates with hump control
- Supports both conventional and DP trains

Automated Inspection Analytics

- Condition monitoring of train components
- Combines machine vision with remote sensing technology and AI-driven analytics
- Algorithms tailored to inspection requirements

BENEFITS & OUTCOMES



Increase Productivity

Reduce rework. Automate administrative and planning tasks. Enable a single operator to remotely control a locomotive. Reduce manpower for switching operations. Streamline inspections.



Expand Visibility

Enable real time wagon and container status.



Increase Yard Velocity

Eliminate information flow bottlenecks for improved asset cycle time.



Increase Service Performance

Reduce wagon dwell. Improve on-time departure and trip plan compliance.



Improve Asset Reliability & Availability

Identify defects sooner and preempt component failure issues.

CONTACT

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