**Wabtec**
*CORPORATION*

# ASSET INVENTORY
# **MANAGEMENT**

## AUTOMATE ASSET TRACKING IN YARDS & TERMINALS

Knowing the status of wagons and containers in the yard is critical to delivery performance. And yet at many rail yards, the process to track cargo is manual and inefficient – directly increasing cycle time and cost.

Asset Inventory Management is a powerful computer vision system that utilizes artificial intelligence-enabled video images to track and trace wagons/containers in the yard and allows railroads to execute plans in response to real-time conditions.

Built for challenging railroad operational environments where speed and scale are crucial, it takes yard execution to the next level through high performance edge computing combined with cloud-based analytics and enterprise integration.
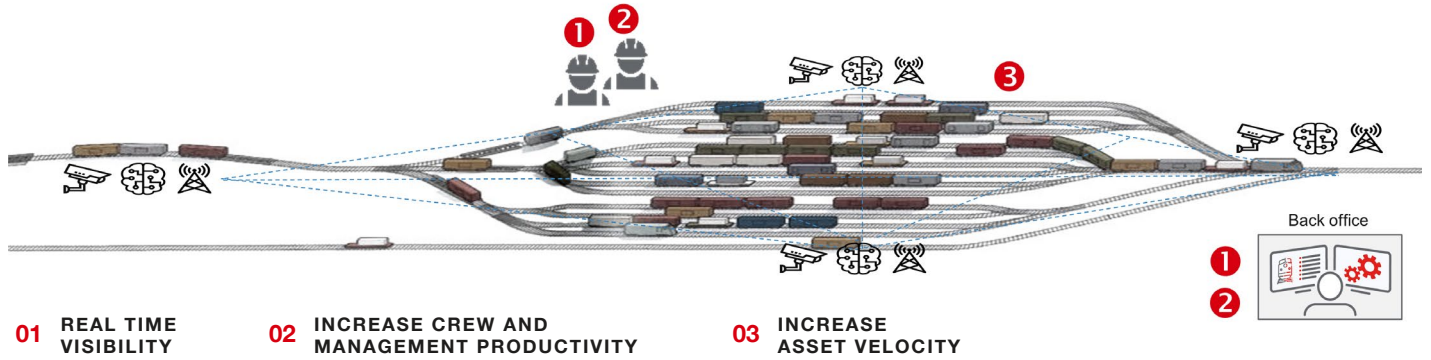
# 5

Patents filed

# 2

Years in development by Wabtec's Advanced Technology Lab

## TRANSFORMING YARD OPERATIONS



**01** REAL TIME VISIBILITY

**02** INCREASE CREW AND MANAGEMENT PRODUCTIVITY

**03** INCREASE ASSET VELOCITY

## TECHNOLOGY COMPONENTS

**Cameras**
Off-the-shelf cameras, low cost, interchangeable with exiting hardware.

**Edge Computing**
Real-time processing, NVIDIA graphics processing units (standard equipment), IoT connectivity.

**Artificial Intelligence Models & Algorithms**
Deep learning OCR, asset track & trace, operational statistics, movement alerts.

**Connectivity**
Rajant Kinetic Mesh, yard/terminal wide connectivity multi-node connectivity, data synchronization for analytics, modular / API integration, integration with back-end systems, such as TMS.

**User Interface**
Yard manager console, mobile integration, dashboards, reports, alerts, SMS, text messages.

## BENEFITS & OUTCOMES

**Increase Crew & Management Productivity**
Reduce time spent looking for information. Automate administrative and repeatable tasks.

**Expand Visibility**
Real time wagon and container status

**Increase Asset Velocity**
Eliminate information flow bottlenecks for improved asset cycle time.