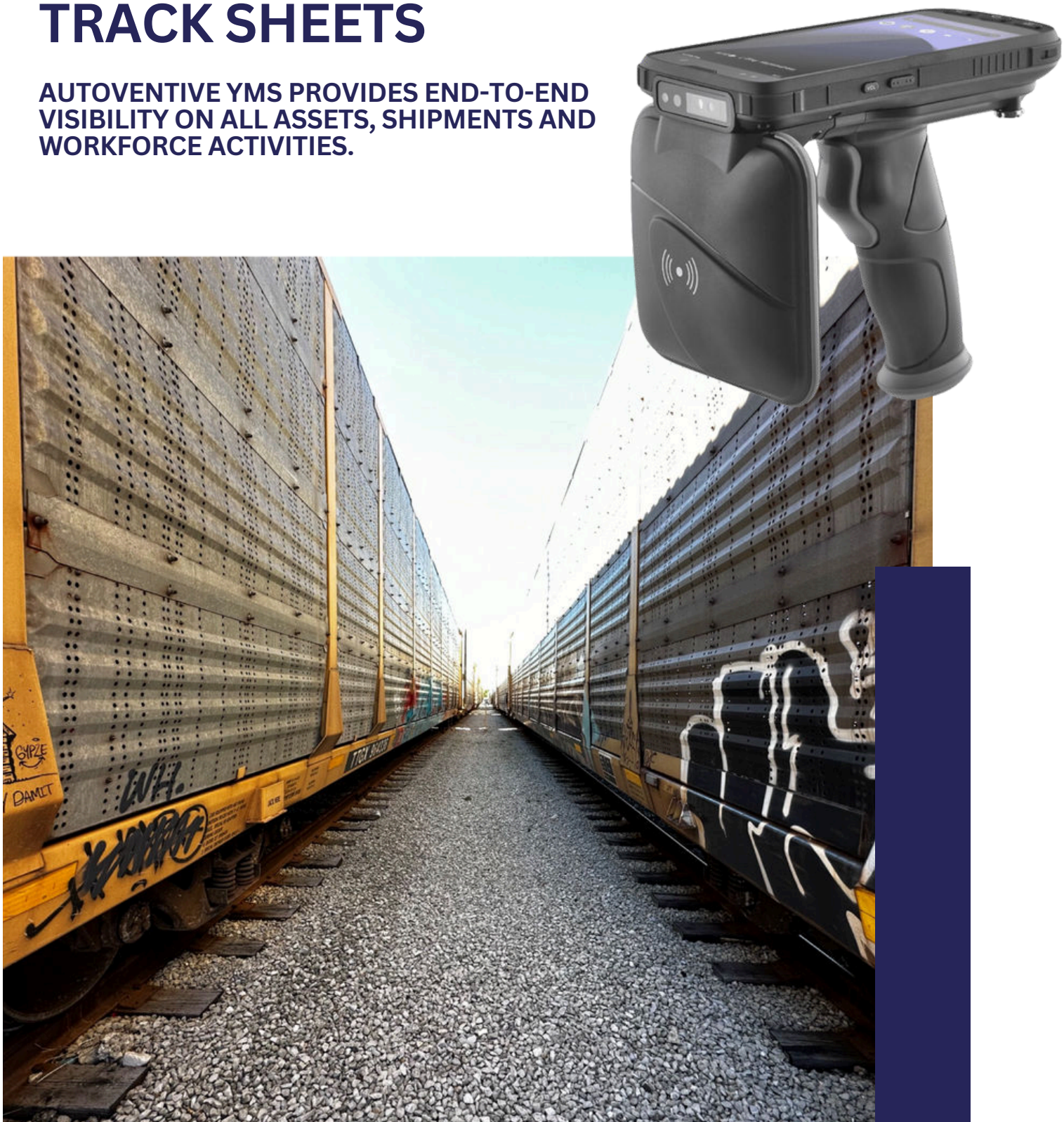
WHITEPAPER

ADVANTAGES OF USING AV TRACK SHEETS

AUTOVENTIVE YMS PROVIDES END-TO-END VISIBILITY ON ALL ASSETS, SHIPMENTS AND WORKFORCE ACTIVITIES.



Automating Rail Car Identification for Enhanced Efficiency and Safety at Ford Assembly Plants

AutoVentive deployed its YMS secure, cloud-based yard management solution at Ford's Ohio Assembly Plant in Avon Lake. YMS automates and optimizes critical processes with a telematics vehicle tracking system. The technology was needed to upgrade and optimize the identification process of rail cars used for transporting F250/F350 utility trucks. Traditionally, this identification process has been labor-intensive, prone to human error and potentially hazardous due to manual monitoring requirements.

Challenges with Legacy Systems: Before the YMS implementation, the identification of rail cars relied on manual inspection by personnel. This method was time-consuming and posed safety risks to the individuals responsible for monitoring. The reliance on human input introduced the possibility of errors and data discrepancies.

Deployment of YMS: To address these challenges, Ford's Ohio Assembly Plant integrated YMS solutions into their operations. This allowed their team to automatically identify and track rail cars, with data being transmitted to a dedicated application for further analysis and utilization.

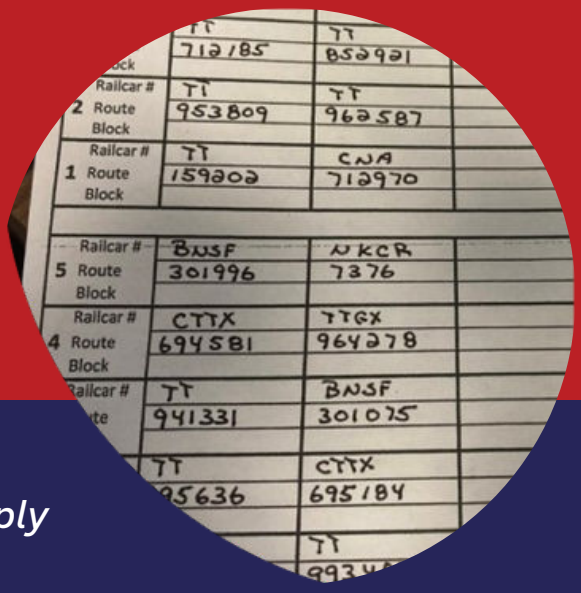
Conclusion: The deployment of YMS solutions for rail car identification represents a significant step forward in enhancing efficiency and safety within the Ohio Assembly Plant in Avon Lake. By replacing legacy systems with automated solutions, Ford demonstrates its commitment to innovation and operational excellence, paving the way for continued advancements in manufacturing processes.

AutoVentive Yard Management Systems

Tailored to meet the unique needs of your operation, YMS optimizes critical processes to increase efficiency, streamline workflow and seamlessly integrate with your existing systems.

What can AV Track Sheets help with?

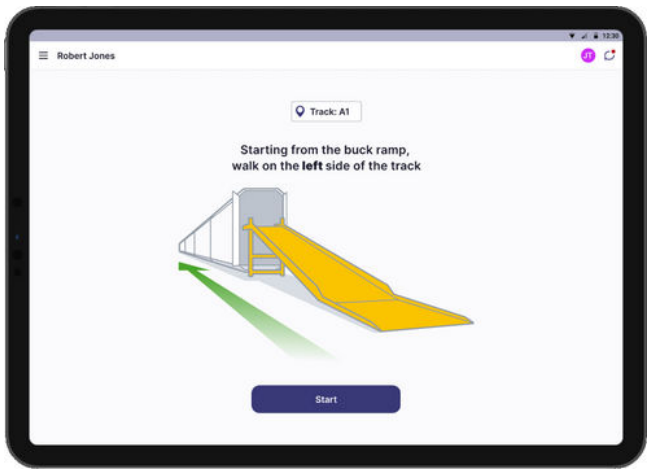
- **Electronically read rail car tags**
- **Automate electronic track sheets**
- **Eliminate manual errors**
- **Minimize failed rail car billing**
- **Minimize track sheet error charges**
- **Geolocation track position verification**
- **Comply with industry standards**
- **Headlight orientation**
- **Capture rail car seals**

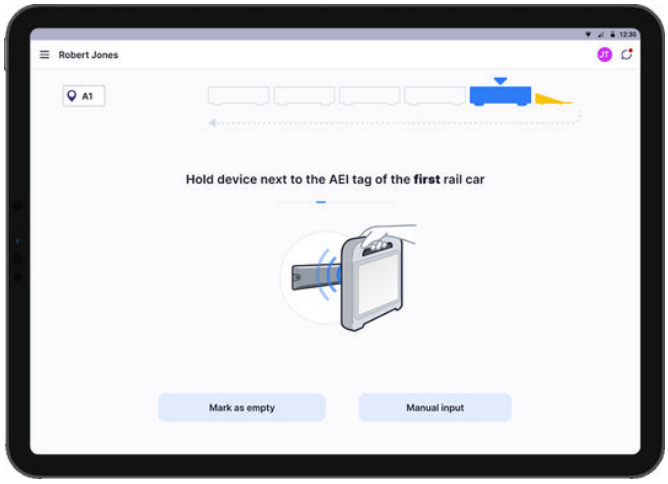


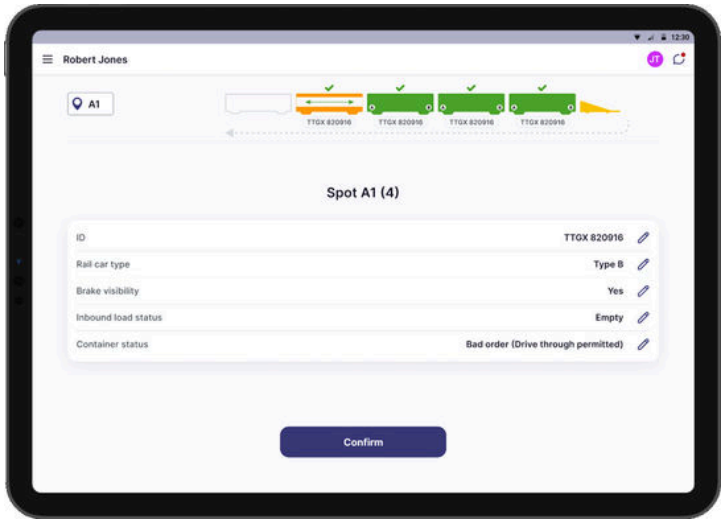
At AutoVentive, we aim to help your automotive supply chain operate as efficiently as possible.

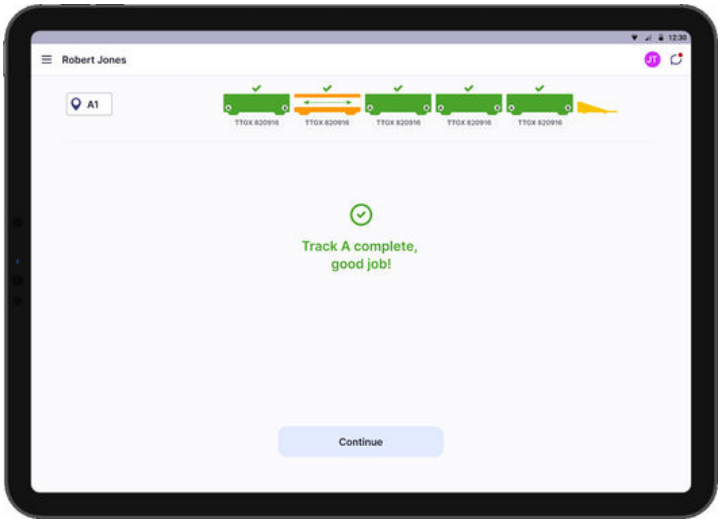
Advancing Automotive Logistics with Telematics Tracking

AutoVentive's YMS tracking system and technology helps Ford Motor Company identify where issues are happening and respond quickly.









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AV Track Sheet Features

AutoVentive's AV Track Sheets automate and expedite data flow, eliminating manual errors while adhering to industry and compliance standards.

Feature	What Does It Fix?
Handheld Rail Car AEI Scanning	**Eliminates manual human errors in misreading rail car identifiers.** **Elimates issues with graffiti and visibility .** **Cuts track sheet generation time in half.** **Umler integration pulls rail car type.** **Marks bad orders, including drive-through and non-loaders.** **Alerts to inbound embargoed rail cars and those marked for dismantle.** **GPS verification for track alignment.** **Features audio and vibration alerts.** **Integrated bar code scanner and camera for survey and inspections.** **Operator can scan safely from inside the vehicle.**
Automated Electronic Track Sheets	**Automated Track Sheets sent to vested parties upon completion.** **Electronic Track sheets saved for visibility and accountability.**
Geolocation Track Position Verification	**Conducts initial one-time geo audit of rail tracks.** **Guards against incorrect track alignment.** **GPS tracking verification for spotting, loading and dispatching.**
Switch Outs and Billing	**Electronic switch-out generation and management.** **Minimizes rejected switch outs.** **Electronic report seals and headlight orientation.**
Industry Standards	**Complies with current and emerging industry standards.** **Meets AAR Compliance Standards.** **Scans rail seals for cross-border shipments.**

About AutoVentive YMS

AutoVentive Yard Management Systems

- **AutoVentive YMS is a Web and Android application that leverages leading wireless, software and hardware technologies, providing end-to-end visibility and analytics on all assets, shipments and workforce activities.**

- **The system is hosted in the cloud and can be conveniently and securely accessed as web applications on any Internet-connected computer. It can also be co-hosted on client-owned servers.**

- **The system is compatible with Android devices built for the industry, such as the Zebra TC75 or L10. Rugged Android devices deployed among departments empower users with quick access to data and a simple, reliable means for inputting or updating information.**

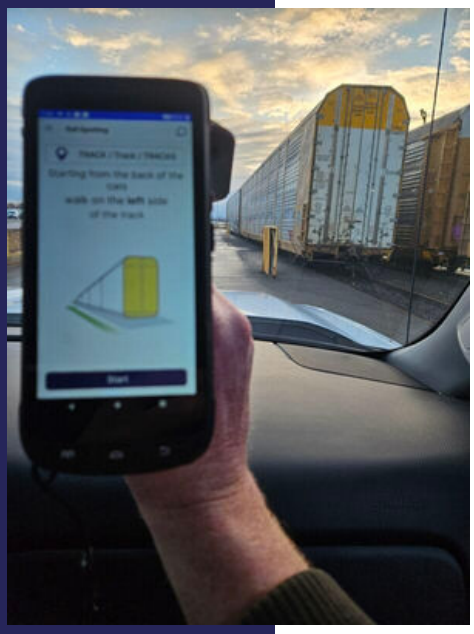
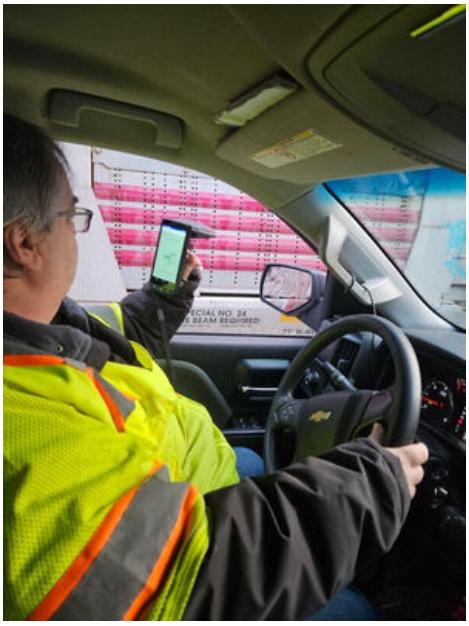
- **Users can facilitate communication for two-way data transfer between the web and handheld devices, bringing timely and actionable information to everyone in your organization.**

AutoVentive YMS is a secure, cloud-based yard management solution that automates and optimizes these critical processes within the automotive supply chain from the time it leaves the OEM production line until it reaches the dealer or final customer.

Electronic Track Sheet

Electronic Track Sheet

Closed on: Feb 25 2023 at 09:30 Rail Cars Spotted: 80

CTTX690078 Bi-level	TTGX710991 Bi-level	TTGX707230 Bi-level	TTGX993387 Bi-level	TTGX255317 Bi-level	BUCK 8W	BUCK 8E	TTGX980186 Bi-level	TTGX962052 Bi-level	TTGX695317 Bi-level	TTGX979027 Bi-level	TTGX988168 Bi-level
TTGX710835 Bi-level	TTGX981339 Bi-level	TTGX971615 Bi-level	NKCR8733 Bi-level	TTGX707710 Bi-level	BUCK 7W	BUCK 7E	TTGX988363 Bi-level	TTGX853483 Bi-level	TTGX851489 Bi-level	TTGX986453 Bi-level	TTGX978253 Bi-level
TTGX964889 Bi-level	TTGX254217 Bi-level	TTGX696475 Bi-level	BNSF302262 Bi-level	NKCR8738 Bi-level	BUCK 6W	BUCK 6E	TTGX707867 Bi-level	TTGX702574 Bi-level	TTGX978102 Bi-level	TTGX997112 Bi-level	TTGX967091 Bi-level
TTGX695219 Bi-level	TTGX995418 Bi-level	TTGX990563 Bi-level	TTGX698762 Bi-level	TTGX962600 Bi-level	BUCK 5W	BUCK 5E	TTGX700375 Bi-level	TTGX952247 Bi-level	TTGX978595 Bi-level	TTGX942824 Bi-level	TTGX983335 Bi-level
NS 171064 Bi-level	TTGX603930 Bi-level	TTGX853198 Bi-level	TTGX983759 Bi-level	TTGX941737 Bi-level	BUCK 4W	BUCK 4E	CN 710876 Bi-level	TTGX706909 Bi-level	TTGX693509 Bi-level	TTGX693669 Bi-level	TTGX704458 Bi-level
TTGX706987 Bi-level	TTGX987396 Bi-level	TTGX700949 Bi-level	TTGX254053 Bi-level	TTGX695520 Bi-level	BUCK 3W	BUCK 3E	TTGX160937 Bi-level	CNA 712481 Bi-level	TTGX997189 Bi-level	TTUX891036 Bi-level	TTGX942474 Bi-level
TTGX986274 Bi-level	TTGX965013 Bi-level	TTGX715571 Bi-level	TTGX987789 Bi-level	TTGX693444 Bi-level	BUCK 2W	BUCK 2E	TTGX988661 Bi-level	TTGX980942 Bi-level	TTGX716258 Bi-level	TTGX964843 Bi-level	TTGX975829 Bi-level
TTGX997436 Bi-level	TTGX696225 Bi-level	TTGX255940 Bi-level	TTGX705079 Bi-level	BNSF303194 Bi-level	BUCK 1W	BUCK 1E	CTTX694470 Bi-level	BNSF302211 Bi-level	TTGX693650 Bi-level	TTGX160761 Bi-level	TTGX702179 Bi-level
FF/RLA							FF/RLC				

PERMITS		PERMITS		BAD ORDERS / COMMENTS / CONCERNS
RAIL CAR NUMBER	PERMIT NUMBER	RAIL CAR NUMBER	PERMIT NUMBER