Driving Change: Ohio's Role in Deploying Freight Truck Automation

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Ohio Conference on Freight

Driving Change: Ohio's Role in Deploying Freight Truck Automation

70 TRUCK AUTOMATION CORRIDOR

Ohio DriveOhio

INDIANA DEPARTMENT OF TRANSPORTATION INDOT

DriveOhio

OUR VISION:

Advance smart mobility to improve
SAFETY, MOBILITY, AND ACCESS
for the people of Ohio

OUR MISSION:

ADVANCE THE ADOPTION of connected & automated technology

ADVOCATE FOR POLICIES that establish smart mobility standards

PREPARE FOR THE PIVOT to alternative fuels

DEVELOP a robust workforce

OUR WHY:

Crashes by Severity and Year

Severity	2020	2021	2022	2023	2024	2025
Fatal	1,154	1,244	1,180	1,150	1,077	455
Serious Injur..	5,925	6,405	6,163	6,059	6,148	2,857
Minor Injury ..	32,438	35,170	33,458	32,670	32,822	16,505
Injury Possib..	25,963	28,202	26,327	25,170	24,446	12,035
Property Da..	180,349	198,658	198,381	187,574	186,604	98,459
Total	245,829	269,679	265,509	252,623	251,097	130,311

Smart mobility on the ground, in the air, everywhere

NATIONAL LEADERSHIP – ITS America Emerging Tech Committee

ITS AMERICA

Collaboration of roadway authorities and the private sector to advance AV technology and standards

NATIONAL LEADERSHIP – AV Pooled Fund Study

AUTOMATED VEHICLE
POOLED FUND STUDY

Collaboration of State DOTs and the AV industry to advance deployment and safety

NATIONAL LEADERSHIP – AASHTO CAV Community of Practice

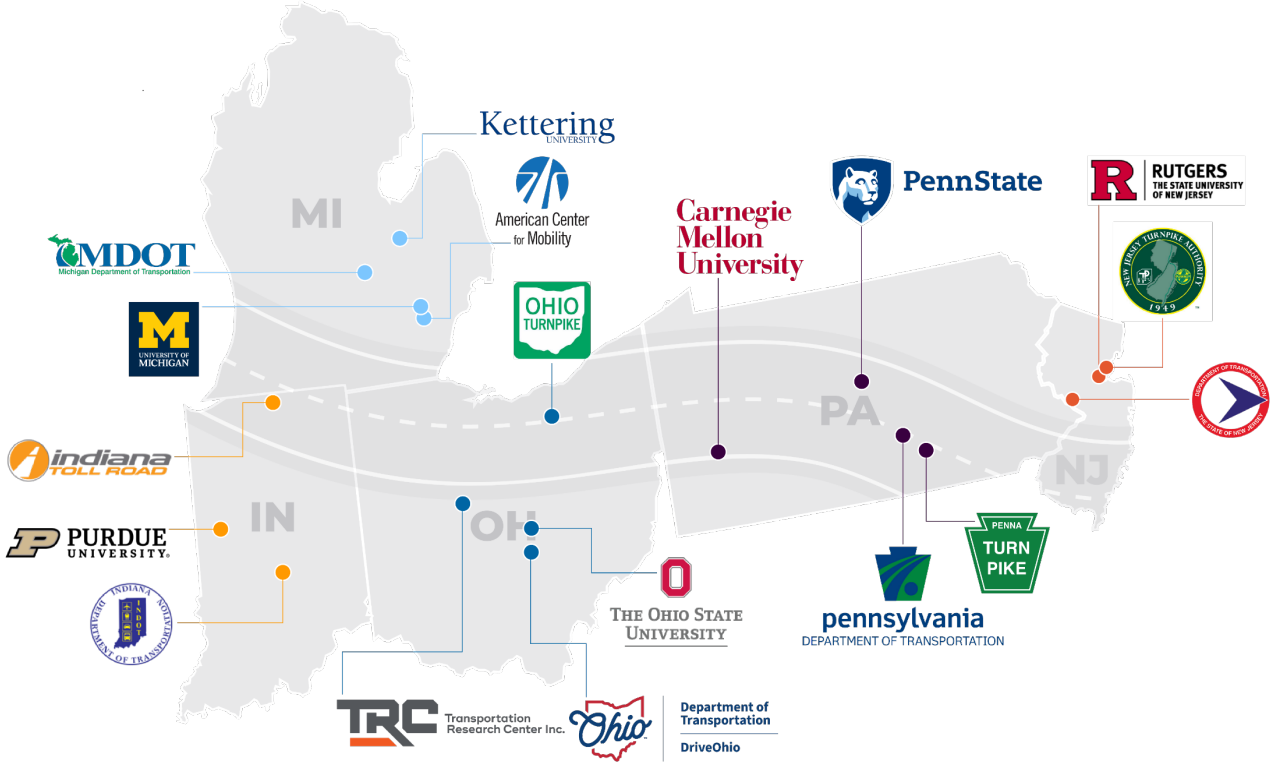
Collaboration of State DOTs working to coordinate research that will advance transportation safety and mobility using AVs

Regional LEADERSHIP – MAASTO CAV Committee

Collaboration of Midwest State DOTs working to coordinate research that will advance transportation safety and mobility using AVs

Regional LEADERSHIP – MAASTO and ETC

Regional Leadership - SMART BELT COALITION



Foster collaboration between states involving research, testing, policy, etc. in innovative transportation technology

AUTOMATED:
ON THE GROUND

DriveOhio

DriveOhio

Rural Automated Driving Systems

What We Built and Tested

SAE LEVEL 2™

SAE LEVEL 3™

TRUCK AUTOMATION CORRIDOR

INDIANA DEPARTMENT OF TRANSPORTATION
INDOT

Ohio
DriveOhio

Deployment of TRUCK AUTOMATION

- Private Sector pilot and adoption of automation on public roadways
- Truck automation technologies
  - Platooning
  - Level 2 automation
  - Level 4 automation

Platooning Deployment Team

Abbi Failla
Executive Vice President
EASE Logistics

EASE

+

KRATOS®
READY FOR WHAT'S NEXT™

ABOUT EASE

Our focus on continuous improvement elevated us from a small brokerage to a full-service logistics leader. But what hasn't changed is our highly responsive and personalized customer service model.

We know every innovation unlocked, every problem solved, and every second saved can help our customers, carriers and communities thrive. We're committed to delivering success 24 hours a day, 365 days a year, because we know that getting it right makes all the difference.

OUR MISSION

TO EARN YOUR TRUST.

OUR VISION

AN ENTIRELY DIFFERENT APPROACH TO LOGISTICS. WHERE HUMANITY AND TECHNOLOGY DRIVE.

THE EASE DIFFERENCE

- **Innovative customer experience with 2 minute responses, and 15 minute quotes**
- **Faster decisions with advanced in-house data analytics**
- **GPS tracking enables 96%+ shipment visibility rate**
- **Proprietary AI agent, AMMI, provides real-time visibility and predictive insights**

FORTUNE statista AMERICA'S MOST INNOVATIVE COMPANIES 2023 — #1 IN TRANSPORTATION

Inc. 5000 2018 | 2019 | 2020 | 2021 | 2022

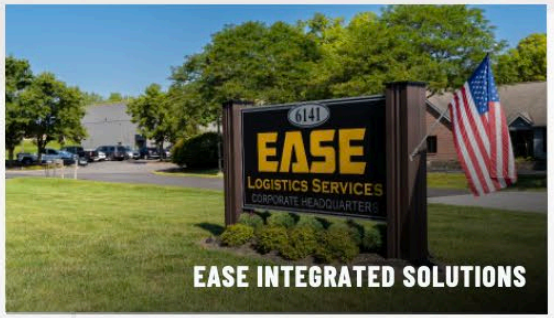
TOP 100 3PL PROVIDER 2022

TOP 2023

Top Carrier DESCARTES MacroPoint 2025

EASE FACILITIES

EASE LOGISTICS CENTER



EASE INTEGRATED SOLUTIONS

EASE MARYSVILLE WAREHOUSE

EASE LOGISTICS CENTER

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INDIANA DEPARTMENT OF TRANSPORTATION INDOT

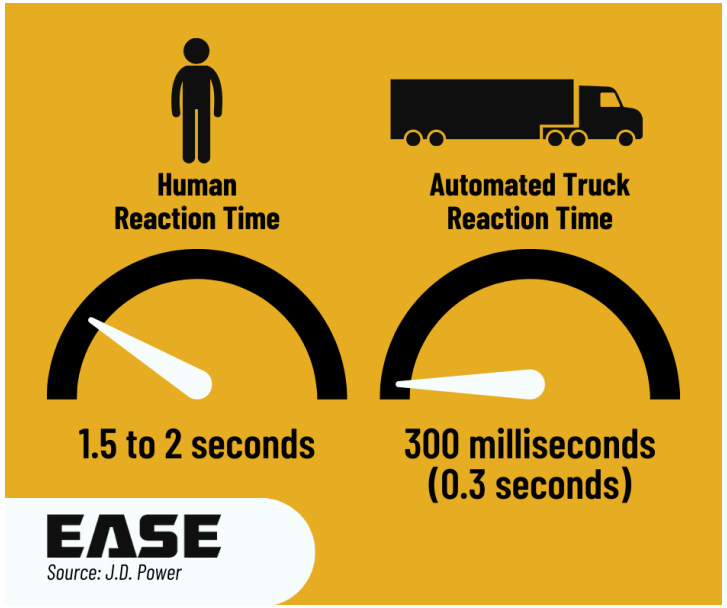
70 TRUCK AUTOMATION CORRIDOR

Why?

- Why is EASE participating in this demonstration?
- Why platooning to start?
- Why does this matter for Ohio and the logistics industry?

Safety

- Automated trucks react faster than humans, though a human driver remains behind the wheel.

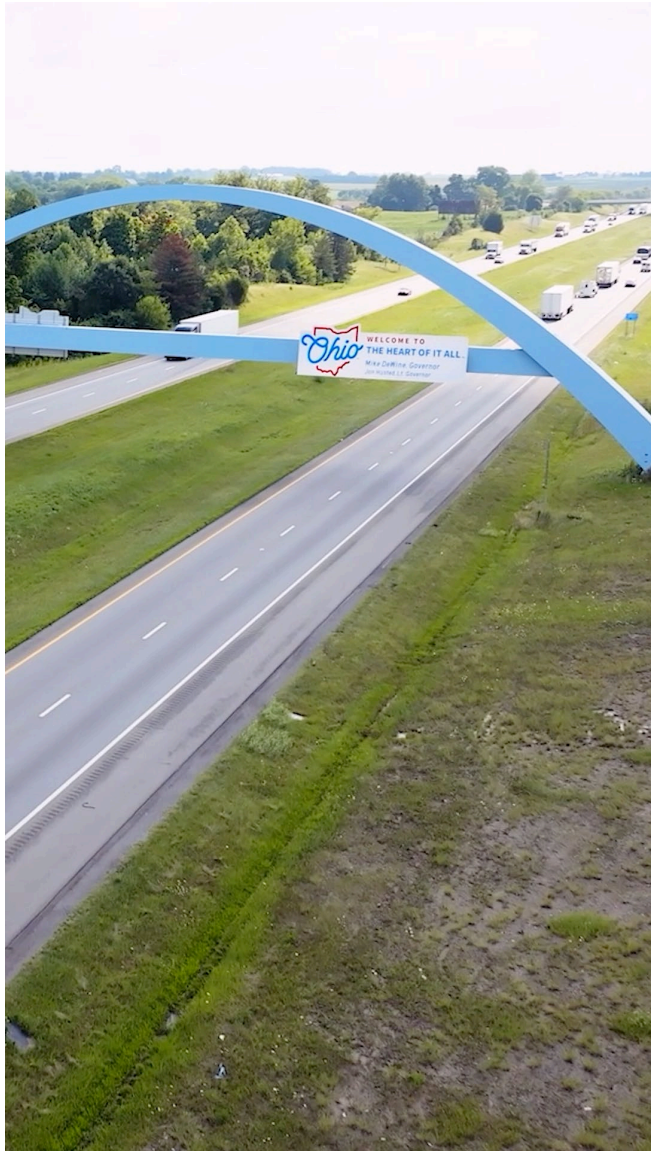


Route

- A 356-mile round-trip path with 63% of the journey occurring on the I-70 corridor and eligible for data collection
- Trucks will run one trip per day, due to hours of service regulations
- Deployment dates, March 2025 to May 2026

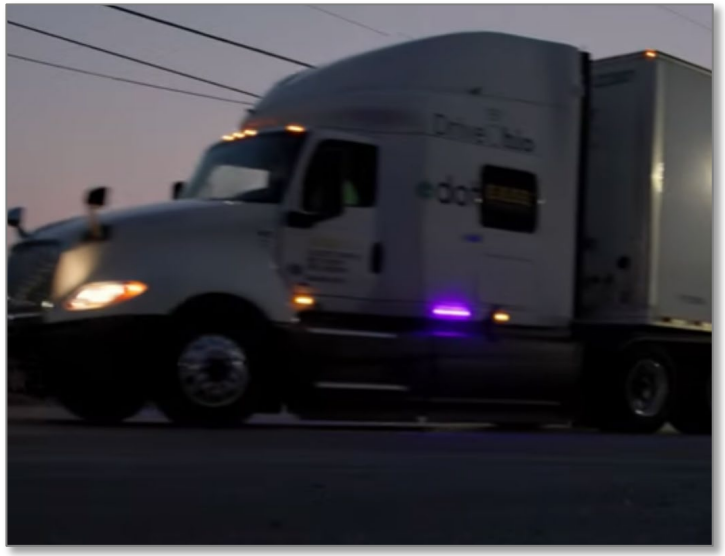
Identifying Project Vehicles

Platooning vehicles are outfitted with a project-specific trailer wrap



Identifying Project Vehicles

Platooning vehicle cabs are equipped with purple “chicken lights” which are illuminated when vehicles are in platooning mode



2025 Platooning Stats

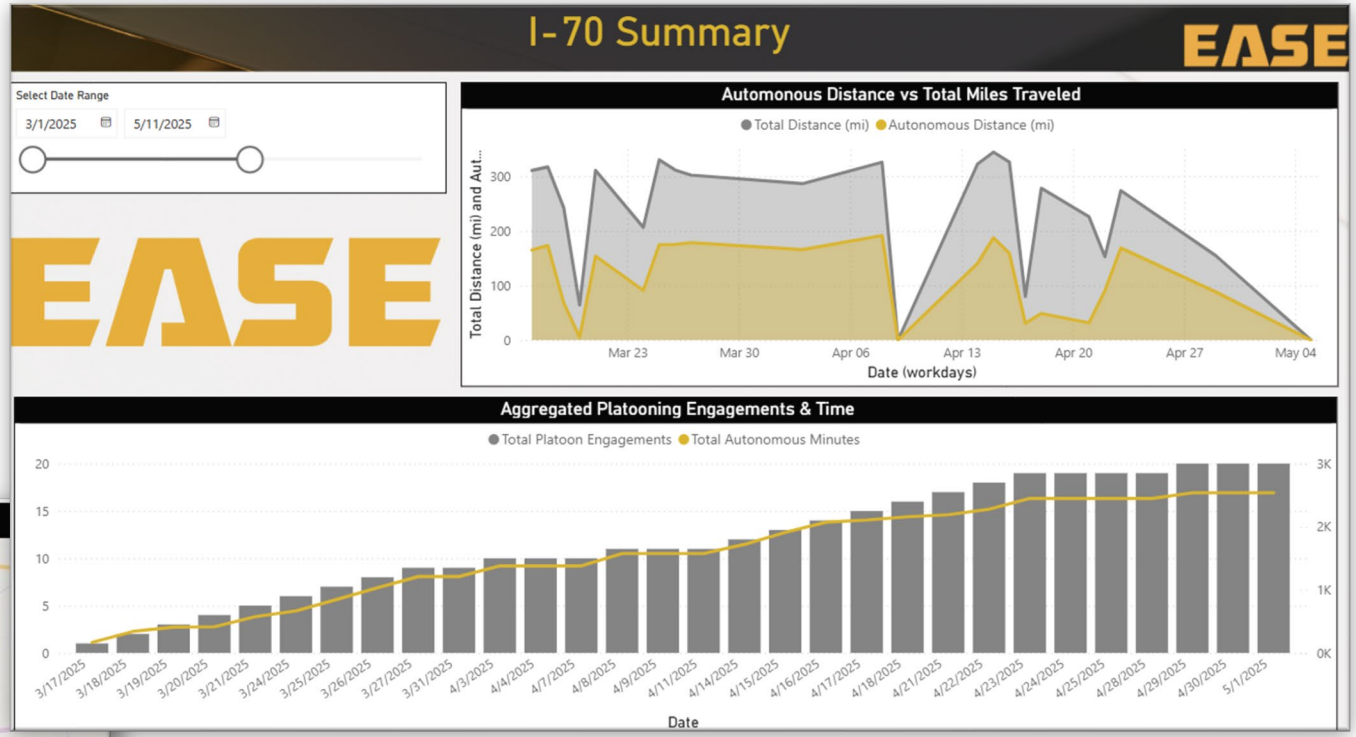
- To date the trucks have engaged in over 2,700 platooning miles.
  - Almost equivalent to driving the length of the United States coast to coast!
- Drivers have close to 50 hours of live platooning run time along the I-70 corridor.
- When the trucks are on routes, almost 50% of the miles of the total the trip are being platooned.
- Platooning improves fuel efficiency, increasing average MPG from 7.86 to 8.88.

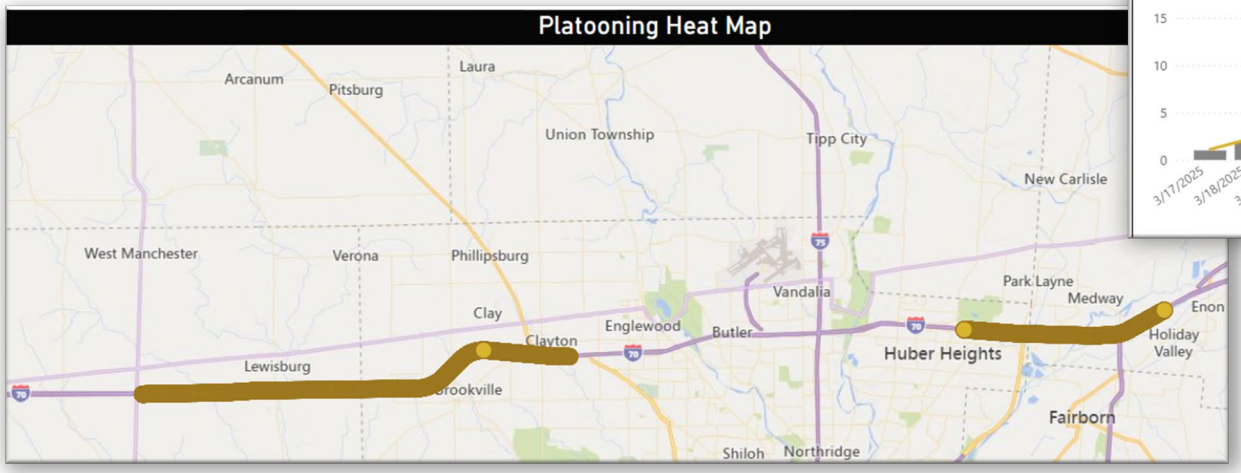
PLATOONING - AVERAGE MPG	NO PLATOONING - AVERAGE MPG
8.88 MPG	7.86 MPG

(Note, Routes over 50 miles are considered for analysis)

2025 Platooning Stats (cont.)

EASE customized Power BI Reports summarize and track project milestones.





Questions?

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https://drive.ohio.gov/programs/av-cv/70-truck-automated-corridor
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