FMCSA's Advanced Technology Division Update

TRB Truck and Bus Technology Subcommittee
Jeff Loftus, Chief, Advanced Technology Division



U.S. Department of Transportation

Federal Motor Carrier Safety Administration









FMCSA's Advanced Technology Division

• Purpose:

 to identify, develop, test, and support deployment of innovative solutions to reduce large truck and bus crashes.

Priority Areas:

- Advanced Driver Assistance Systems (ADAS) Research
- Automated Driving Systems (ADS) Research
- Roadside Safety Enforcement Technology Research
- Innovative Technology Deployment (ITD) Grants

ADAS Research

- ADAS Crash Analysis via Onboard Safety Monitoring (OBSM) Report – Coming soon!
- Heavy Duty Truck ADAS Testing
- TechCelerate Now
 - Phase I Report Coming soon!
 - Phase II Launch





OBSM interface with multiple camera views and data channels



Truck AEB testing with reusable "soft car" global vehicle target

ADS Research

FMCSA Automated CMV Evaluation (ACE) Program

How will public entities interact with ADS-equipped commercial motor vehicles (CMVs)?

- Test various use cases
- Refine best practices
- Support standards development
- Inform regulatory activities













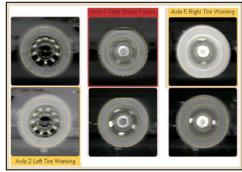


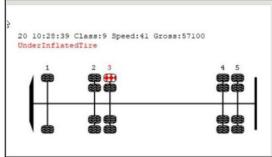
2020

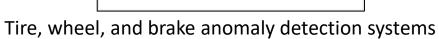
Roadside Safety Enforcement Technology Research

- Level VIII Electronic In-Motion Truck Inspections Field Test
- Tire and Wheel Safety Screening Systems
- Safety Belt Compliance Systems















Safety belt compliance systems

ITD Grant Program Funds Innovative Safety Solutions



ITD empowers States to apply cutting-edge technology to the challenge of improving highway safety and efficiency







The ITD Grant Details

\$43 Million Dollars Annually

- No State funding match required
- Applications due in April
- https://www.fmcsa.dot.gov/itd



2023 PRIORITIES

- 1) Core Compliance
- Safety Information Exchange
- E-credentialling
- E-screening
- 2) Work Zone Notification
- 3) Federal Out of Service Detection
- 4) Vehicle Out of Service Order Detection
- 5) Truck Parking
- 6) Improve Data Quality
- 7) Electronic Inspection
- 8) Enhanced Data Sharing

Thank you!



Jeff Loftus

Chief, Advanced Technology Division Federal Motor Carrier Safety Administration

202-385-2363

Jeff.loftus@dot.gov