



Advancing CMV Safety: FMCSA Research Portfolio Highlights- FMCSA Office of Research

Northeast CMV Safety Summit, November 14, 2024



U.S. Department of Transportation
Federal Motor Carrier Safety Administration

Agenda

- **Overview of FMCSA's Office of Research**
- **High-Profile Programs and Projects**
 - Applied Research
Driver and Carrier Safety
 - Advanced Technology
Vehicle and Inspection Technology
 - Analysis
Information Dissemination, Data Quality, and Program Effectiveness
 - Crash Data Analytics
Crash Causal Factors Program
- **Research Intersections, Collaboration, and Engagement**
- **Q&A**

Snapshot of the CMV Industry

813,844 REGULATED CARRIERS OPERATING IN THE UNITED STATES IN 2022

954,119
BUSES REGISTERED IN 2022

14.3 MILLION
LARGE TRUCKS REGISTERED IN 2022

- 3.2 million combination trucks
- 11.1 million straight trucks

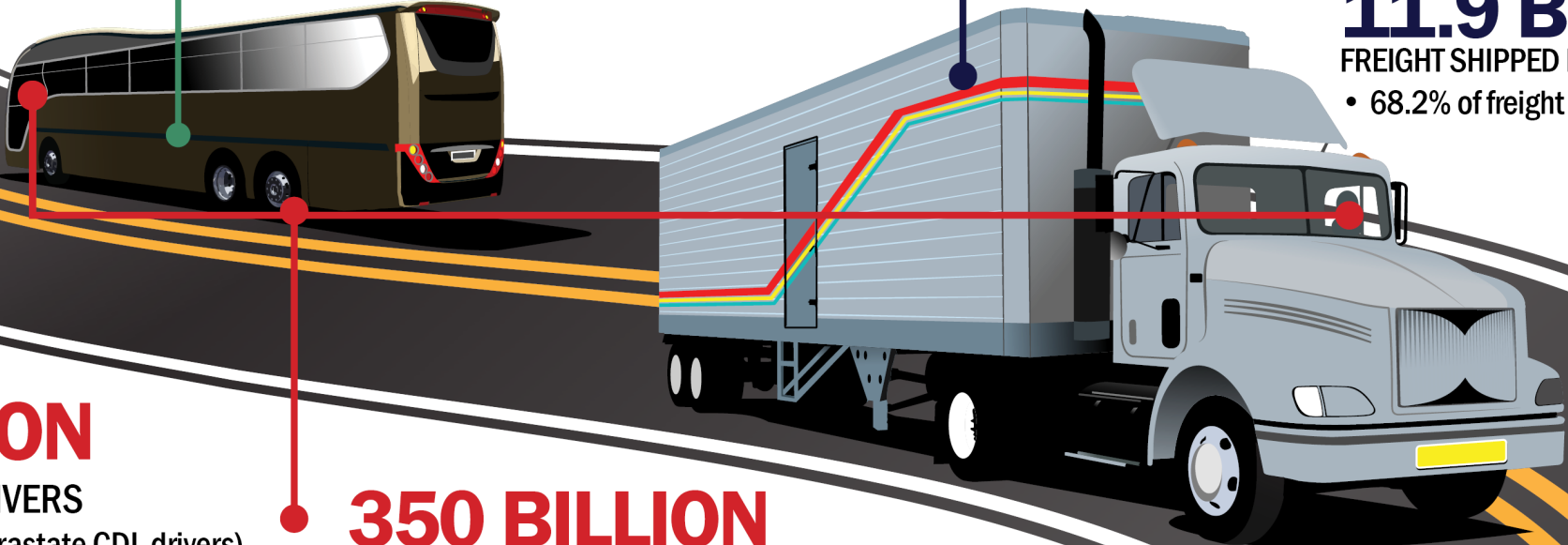
11.9 BILLION TONS
FREIGHT SHIPPED BY TRUCKS IN THE U.S. IN 2022

- 68.2% of freight in the U.S. is moved by truck

7.2 MILLION

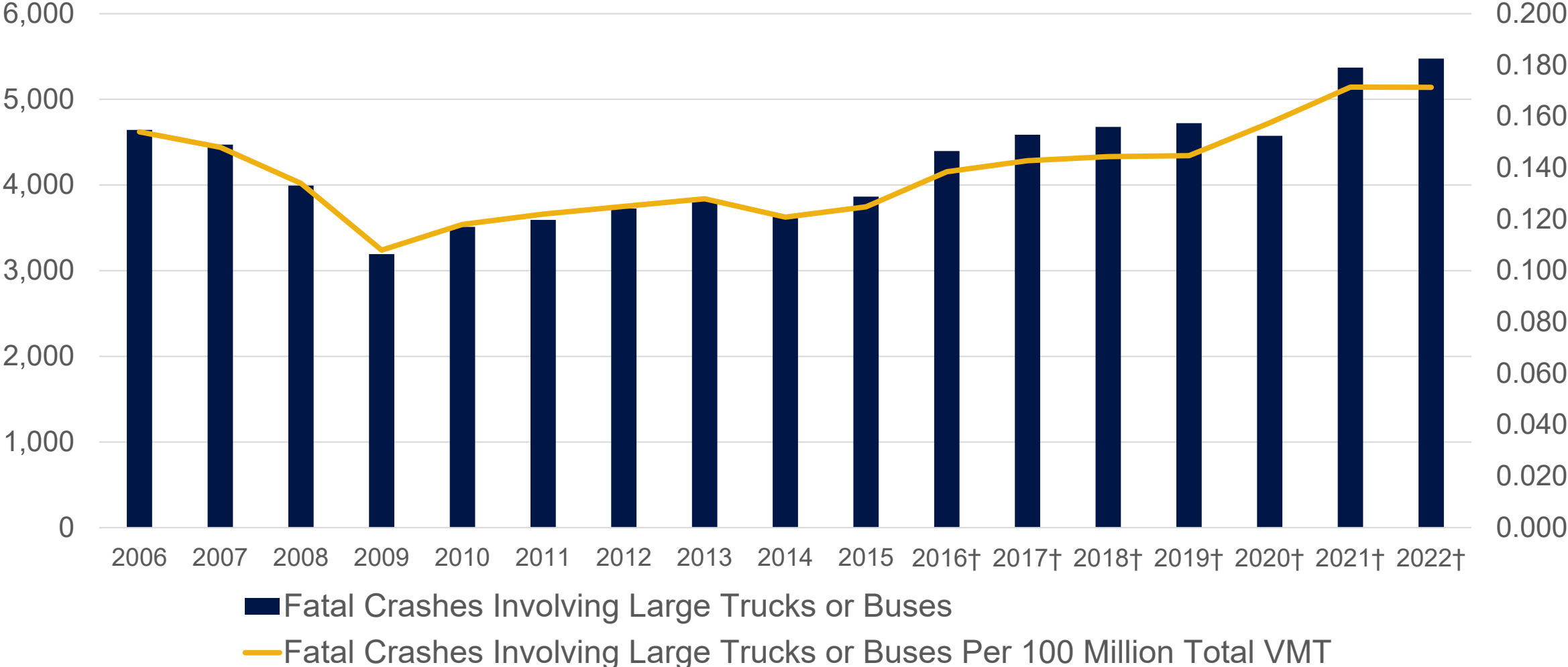
REGULATED CMV DRIVERS
(Interstate drivers and Intrastate CDL drivers)
AS OF 2022

350 BILLION
VEHICLE MILES TRAVELED IN 2022



CMV Fatal Crashes & the CMV Fatal Crash Rate (2006 – 2022)

Fatal Crashes Involving Large Trucks and Buses and the Fatality Rate (2006 – 2022) - FARS Data



Office of Research

Mission: Reduce the number and severity of CMV crashes and enhance the efficiency of CMV operation by providing data, producing statistics, and conducting studies, as well as identify, testing, and supporting technology transfer activities and deployment of CMV safety technologies.

FOCUS AREAS



Driver Safety



Carrier Safety



Vehicle Safety



Understanding What's Happening Now

Analyze data to support safety-based decision making



Exploring New Possibilities

Research and test to identify new solutions and adapt to changes

FMCSA's Office of Research

