



# NYC Vision Zero Fleet Safety Forum

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October 25, 2022



# About the NTSB

AVIATION



MARINE



HIGHWAY



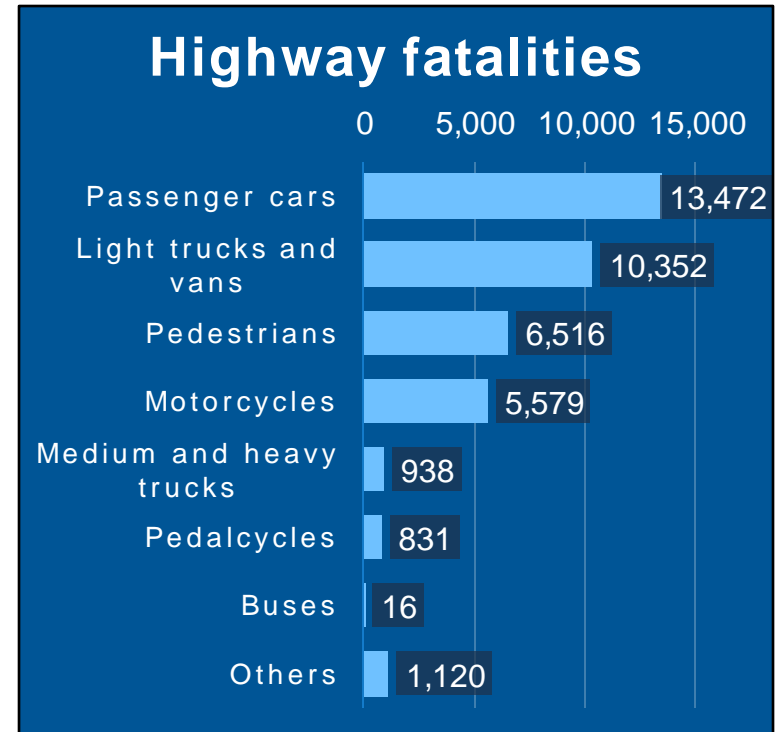
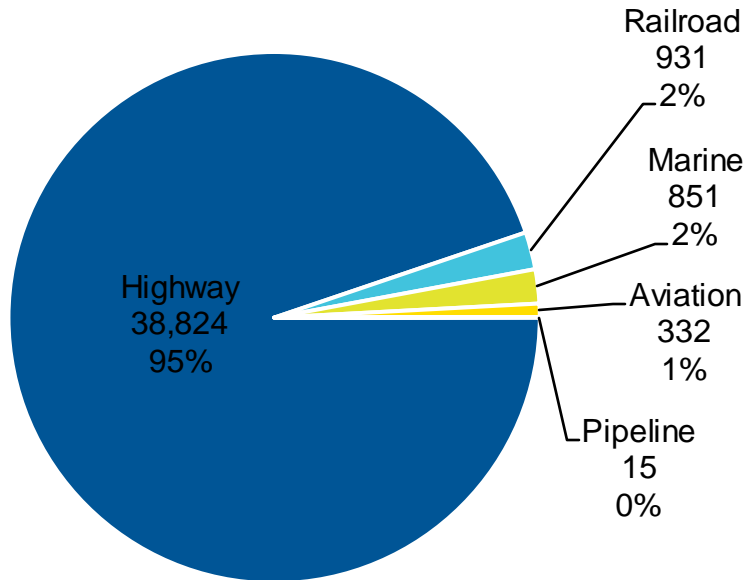
RAILROAD



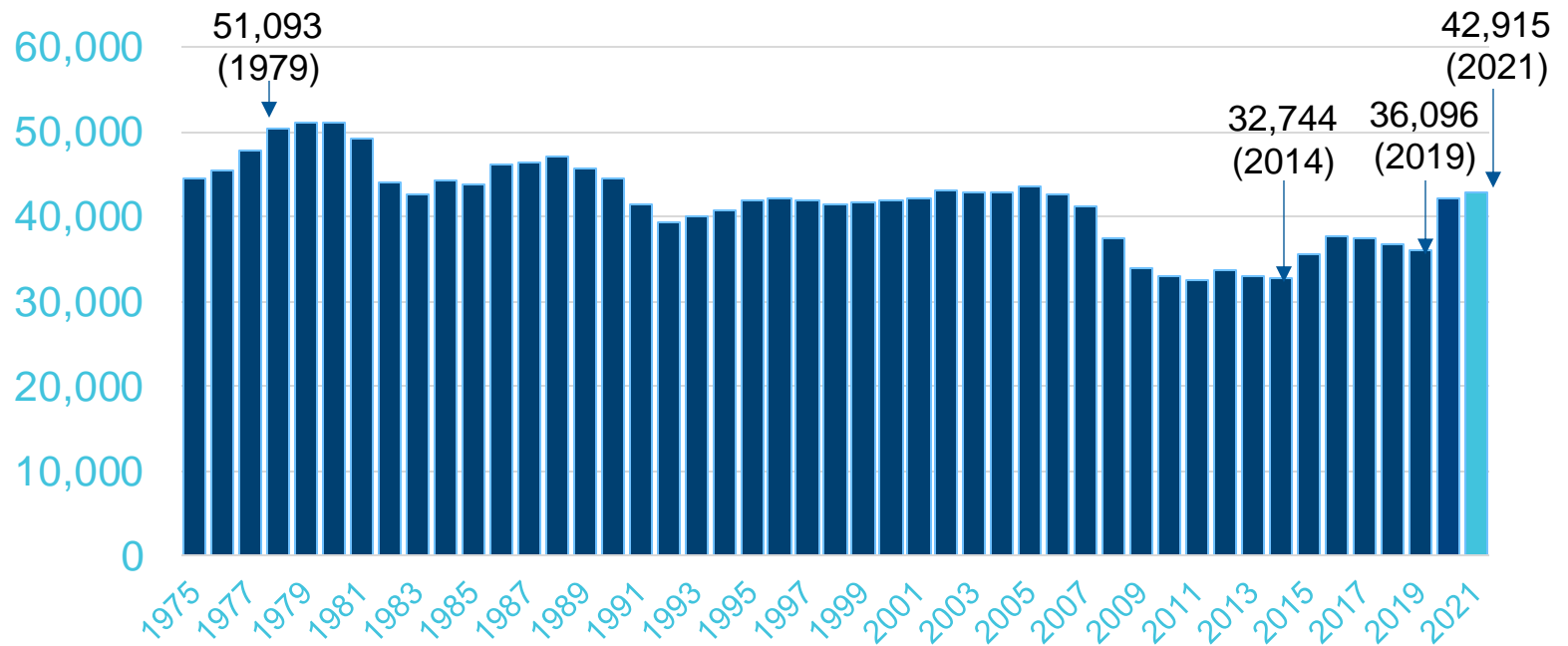
PIPELINE



# US Transportation Fatalities in 2020 – by Mode



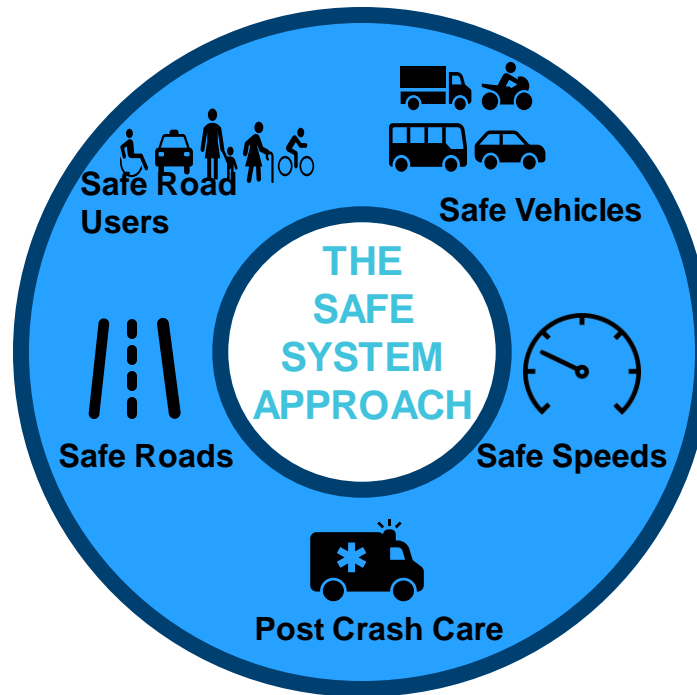
# Motor Vehicle Crash Deaths in the U.S. (1975-2021)



By the end of the first U.N. decade of action, in the U.S., we were losing 20% more of our loved ones to crashes in 2020 than in 2011.

42,915

# Elements of the Safe System Approach



# NTSB 2021-2022 Most Wanted List of Transportation Safety Improvements



## 2021-2022 NTSB MOST WANTED LIST OF TRANSPORTATION SAFETY IMPROVEMENTS

### AVIATION

Require and Verify the Effectiveness of Safety Management Systems in all Revenue Passenger-Carrying Aviation Operations  
Install Crash-Resistant Recorders and Establish Flight Data Monitoring Programs

### HIGHWAY

Implement a Comprehensive Strategy to Eliminate Speeding-Related Crashes  
Protect Vulnerable Road Users through a Safe System Approach  
Prevent Alcohol- and Other Drug-Impaired Driving  
Require Collision-Avoidance and Connected-Vehicle Technologies on All Vehicles  
Eliminate Distracted Driving

### MARINE

Improve Passenger and Fishing Vessel Safety

### RAILROAD, PIPELINE, AND HAZARDOUS MATERIALS


Improve Pipeline Leak Detection and Mitigation  
Improve Rail Worker Safety

NTSB 2021-2022


**MWL**  
MOST WANTED LIST



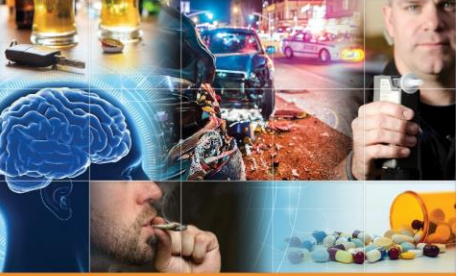
# NTSB Most Wanted List – Highway Safety Items



**NTSB 2021-2022**  
**MWL**  
**Protect Vulnerable Road Users through a Safe System Approach**




**NTSB 2021-2022**  
**MWL**  
**Implement a Comprehensive Strategy to Eliminate Speeding-Related Crashes**



**NTSB 2021-2022**  
**MWL**  
**Prevent Alcohol- and Other Drug-Impaired Driving**



**NTSB 2021-2022**  
**MWL**  
**Eliminate Distracted Driving**



**NTSB 2021-2022**  
**MWL**  
**Require Collision-Avoidance and Connected-Vehicle Technologies on All Vehicles**

## New York City, New York

- March 12, 2011, 5:38am,
- 15 people died and 17 others were injured



Source: The Journal News, Frank Becerra

# NTSB Safety Recommendations

To the National Highway Traffic Safety Administration:

- Develop performance standards for advanced speed-limiting technology, such as variable speed limiters and intelligent speed adaptation devices, for heavy vehicles, including trucks, buses, and motorcoaches. (H-12-20)
- After establishing performance standards for advanced speed-limiting technology for heavy commercial vehicles, **require that all newly manufactured heavy vehicles be equipped with such devices.** (H-12-21)

## Mt. Pleasant Township, Pennsylvania

- January 5, 2020, 3:30am, on the westbound Pennsylvania Turnpike near Mt. Pleasant Township, Pennsylvania
- 7 people died and 50 others were injured



Source: Pennsylvania State Police

# NTSB Safety Recommendation

To the Federal Highway Administration :

- Revise Section 2B.13 of the Manual on Uniform Traffic Control Devices so that the factors currently listed as optional for all engineering studies are required, require that an expert system such as USLIMITS2 be used as a validation tool, and **remove the guidance that speed limits in speed zones should be within 5 mph of the 85th percentile speed.** (H-17-27)

**AND**

**ZERO DEATHS AND SERIOUS INJURIES**



# NTSB Safety Investigation

We look at the roles of:

- **Humans**

Did the driver, operator, mechanic contribute to the accident or crash

- **Machines**

Mechanical failures, technology, management of the company

- **Environment**

Road design, weather





# Principles of the Safe System Approach



Humans Make Mistakes



Humans are Vulnerable to Injury



Responsibility is Shared



No Death or Serious Injury is Acceptable

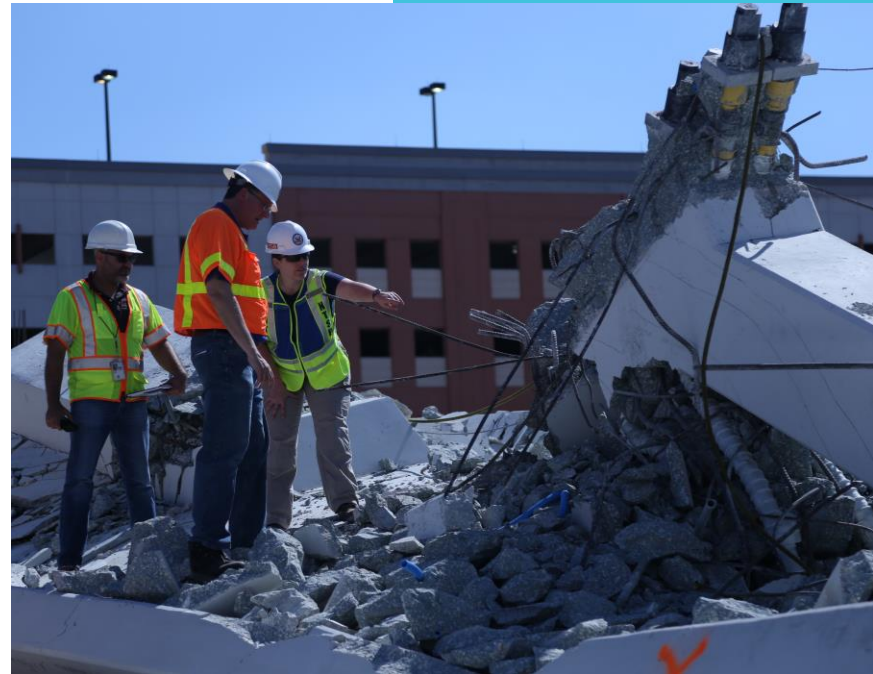


Safety is Proactive



# NTSB Safety Recommendations

We focus solely on safety; we make recommendations that when implemented will save lives.



IT'S ESTIMATED THAT 117 PEOPLE  
WILL DIE ON U.S. ROADS *TODAY*

WHAT WILL YOU CHOOSE?

## Contact Information

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