

FTA Safety Updates

Bus Safety Data Trends, Transit Worker Assault Prevention and the Road Ahead

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U.S. Department of Transportation Federal Transit Administration

Presentation Overview

- State of Bus Transit Safety & Bus-to-Person Collisions
- Protecting Transit Workers from Assaults
 - Responses to FTA's Special Directive Required Actions Regarding Transit Worker Assault
- Expanded Assault Reporting <u>NTD Safety and Security</u> <u>Reporting Changes and Clarifications</u>
- Bus Operator Compartment Redesign
- Cybersecurity
- Fall 2022 Unified Regulatory Agenda
- Safety Committees & Role in Safety Management Systems

State of Bus Transit Safety



Source: National Transit Database (NTD)

FY 2022 data are preliminary.

Data as of: May 2, 2023 *Bus Transit Vehicles

Bus-to-Person Collisions Overview

Description

- Bus-to-Person Collisions focuses on safety events involving bus collisions with people at stations, bus stops, intersections, and publicly accessible roadways
- This analysis defines "person" as pedestrians, bicyclists, and people utilizing micromobility

Challenges

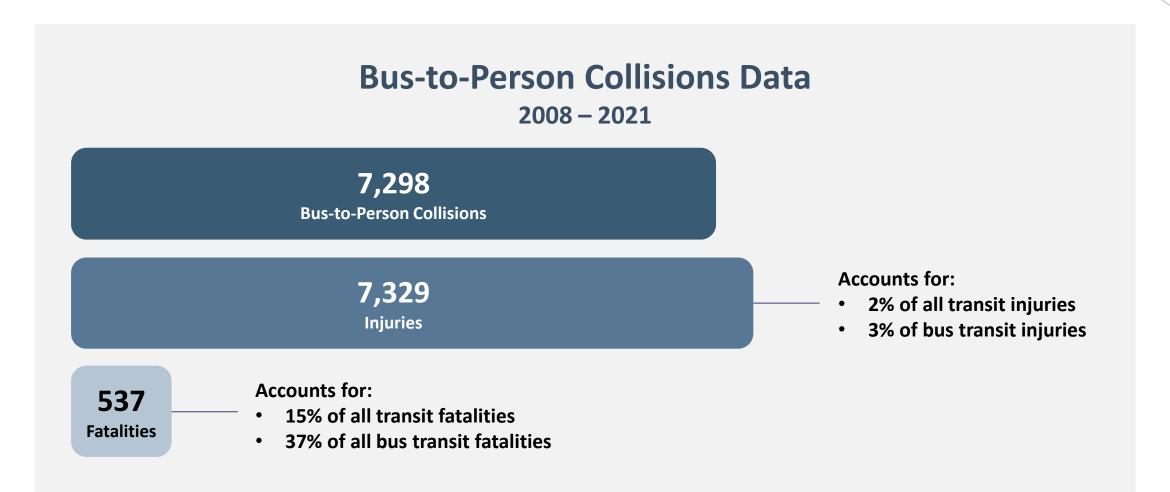
- Bus design features can obscure the field of view
- Streetscape features can obscure the view of operators
- Operators must have situational awareness of both exterior and interior surroundings



Applicable Legal Framework

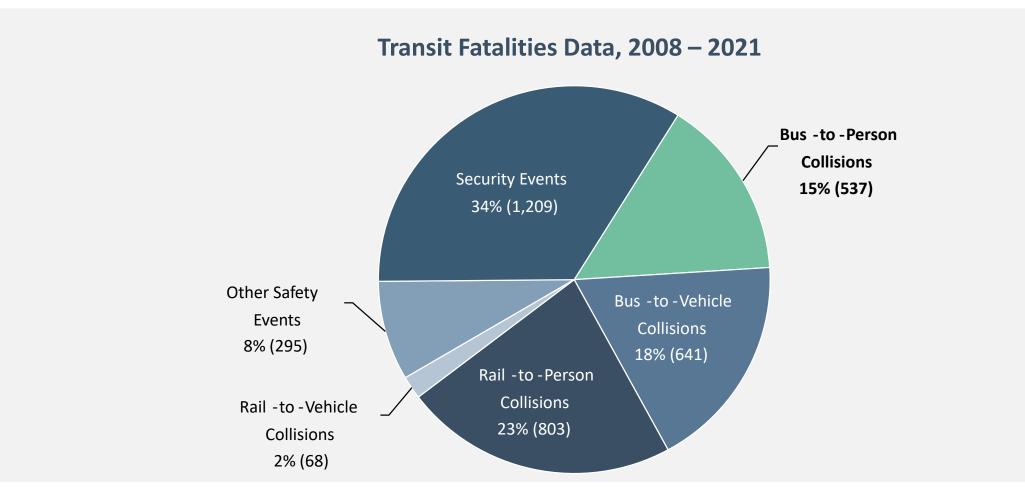
• The Bipartisan Infrastructure Law amended Section 5329 of title 49, United States Code by adding that public transportation agencies take into consideration "innovations in driver assistance technologies and driver protection infrastructure, where appropriate, and a reduction in visibility impairments that contribute to pedestrian fatalities"

Bus-to-Person Collisions NTD Data



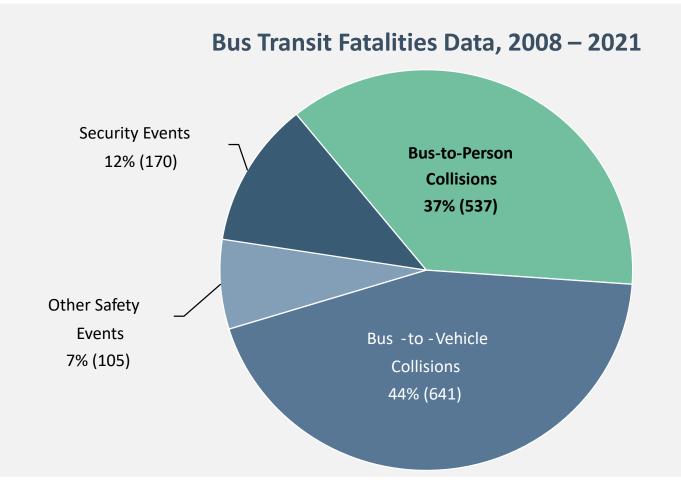


Transit Fatality Data



Source: National Transit Database (NTD), 2008-2021

Bus Transit Fatality NTD Data

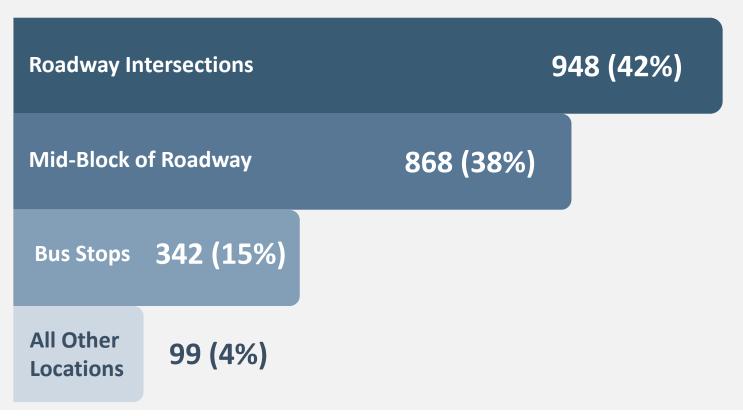






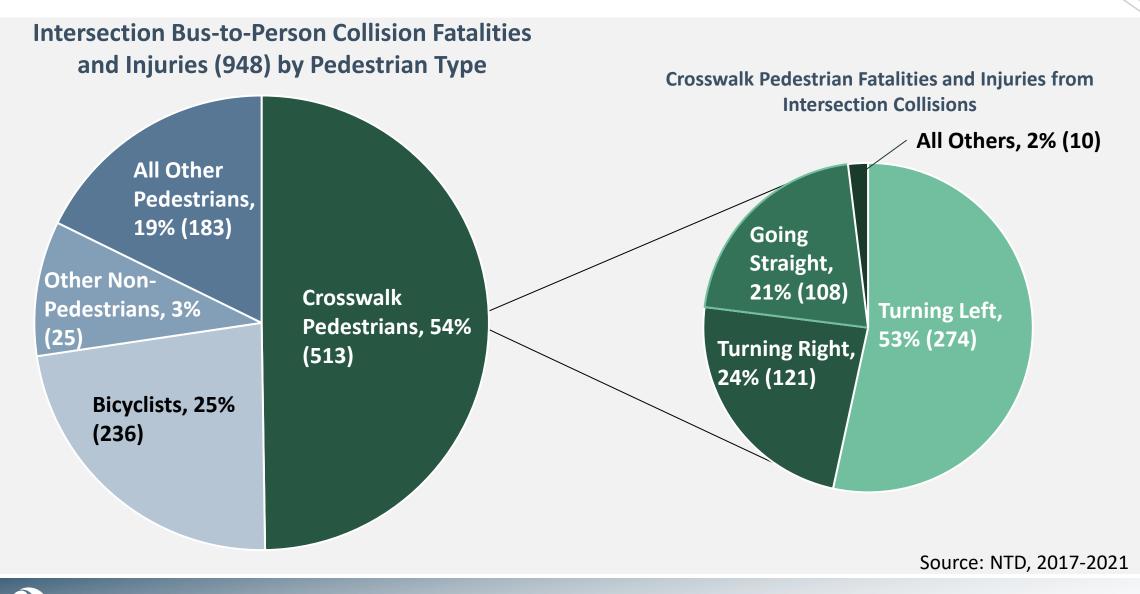
Bus-to-Person Collisions by Location

Bus-to-Person Collisions by Location 2017 – 2021

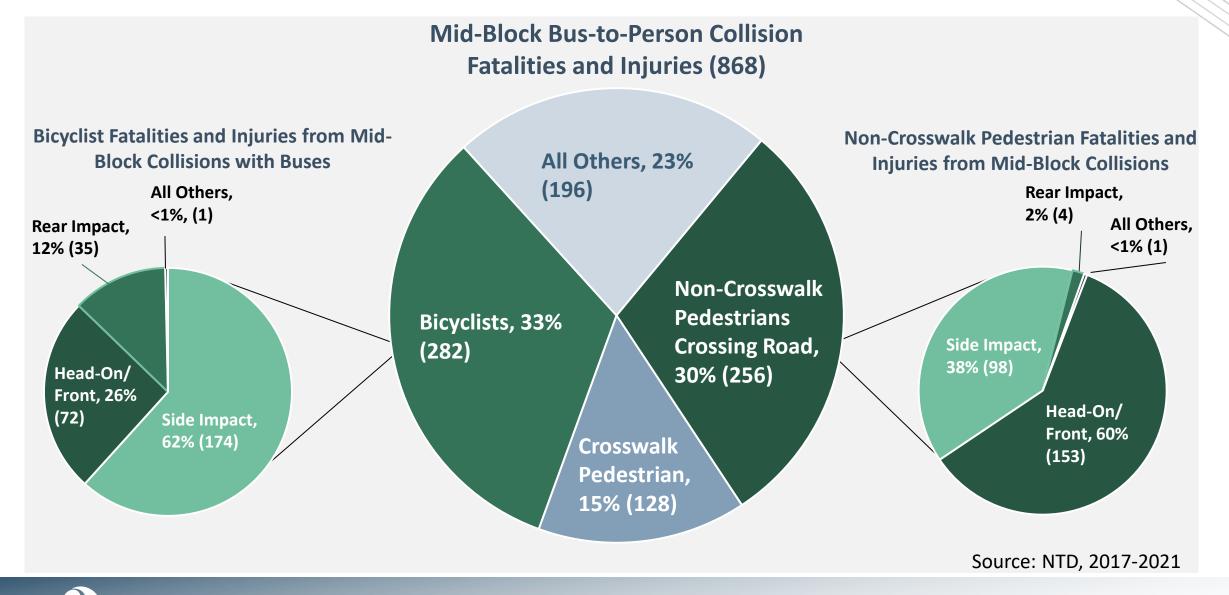


Source: NTD, 2017-2021 (new location field added in 2017)

Roadway Intersection Collisions



Mid-Block of Roadway Collisions



Safety Advisory 23-1 Overview

- Distribution: Published in the Federal Register
- Effective Date: September 19, 2023
- Audience: Agencies that provide bus service
- **Overview**: Recommends transit agencies that provide bus service...
 - Consider mitigation strategies to reduce busto-person collisions
 - Identify specific hazards that may cause or contribute to bus-to-person collisions, assess the associated safety risk, and implement appropriate mitigations to reduce the likelihood and severity of those collisions



Special Directives: Required Actions Regarding Transit Worker Assault

Special Directives issued on October 4, 2022 to nine transit agencies who reported 79% of assaults on transit workers to the NTD between 2016-2021.

General	Agency contact information and Agency Safety Plan (ASP)
Safety Risk Assessment	Has agency performed safety risk assessment related to transit worker assault?
Safety Risk Mitigations	Has agency implemented safety risk mitigations to address transit worker assault risk, such as operator area protective barriers? If yes, status and available data on effectiveness?

Safety Risk Assessment

In Progress: 1 agency

Completed after issuance of Special Directive and prior to submission of response to FTA: **1 agency**

Planned for 2023: **3** agencies Completed prior to issuance of Special Directive: 4 agencies

Safety Risk Mitigations

Safety Risk Mitigation	# Agencies	Complete	In Progress
Operator Area Protective Barriers	9	5	4
De-Escalation Training Program	8	6	2
Video and Audio Surveillance	8	7	1
Policing Strategies	7	7	-
Operating Procedures and Training	6	6	-
Emergency/Silent Alarms	6	6	-
Automatic Vehicle Location	4	4	-
Communication Devices and Protocols	4	4	-
Public Awareness Campaigns	3	3	-
Surveillance/Penalty Signage	3	2	1

Safety Risk Mitigation Monitoring

Eight agencies provided information on monitoring mitigation effectiveness.



One agency described key performance indicators relating to transit worker assault.



Seven agencies described monitoring the effectiveness of all mitigations layered together rather than each individual mitigation.

Six agencies described using post-event analysis and reviews to monitor mitigation effectiveness.



One agency described using feedback on training as a mechanism to support mitigation effectiveness.



Expanded Assault Reporting

Federal Register Notice: NTD Safety and Security Reporting Changes andClarificationspublished February 2023

Before NTD Updates	After NTD Updates
• FTA collected only transit worker assault data that qualified as major events from full reporters to NTD	 FTA will collect all transit worker assaults data for major and non-major events
 Major events involve one or more fatalities or injuries requiring medical transport 	 Non-major transit worker assaults will be collected in a summarized format

When do changes take	Full Reporters	Small Reporters
effect?	CY 2023	NTD report year 2023

Bus Operator Compartment (BCP) Program

- In October 2020, FTA awarded \$1.6M in competitive grant funds to:
 - International Transportation Learning Center (ITLC) to redesign a transit bus compartment to improve safety for operators. FTA award was \$1M.
 - New Orleans Regional Transit Authority (NORTA) to study the addition of shields and barriers on its bus fleet to protect bus operators. FTA award was \$.6M.
- FTA held a public listening session in June.
- FTA is issuing a second NOFO, which will focus on offering state of the art safety, convenience, and comfort.



Cybersecurity Review Area for FTA's Triennial Review

- In Fiscal Year (FY) 2022, FTA added the Cybersecurity Section as a review area to the Triennial Review Contractors Manual.
- Review is to ensure that recipients certified in the Transit Award Management System (TrAMS) develop, maintain and execute a written plan for identifying and reducing Cybersecurity risks.





Eligible Cybersecurity Expenses

While cybersecurity costs are not directly addressed in FTA's authorizing legislation, they are allowable under various FTA programs in areas such as:

- Operating Assistance
- Crime Prevention and Security Projects
- State of Good Repair

Any costs associated with an award, including cybersecurity costs must be:

• Allowable, Reasonable, and Allocable

Applicability of the Cost Principles

- Uniform Guidance under 2 CFR part 200 Subpart E Cost Principles General Provisions
- Subawards that are contracts are subject to the FAR Federal Acquisition Regulations Part 31 – Contract Cost Principles and Procedures



Cybersecurity Assessment Tool for Transit (CATT)



Cybersecurity Assessment Tool for Transit (CATT): Self Assessment Package



FTA published an open-source PDF based CATT tool on February 10, 2023, <u>Tool</u>

 Assists small and mid-sized transit agencies in self-assessing their cybersecurity preparedness

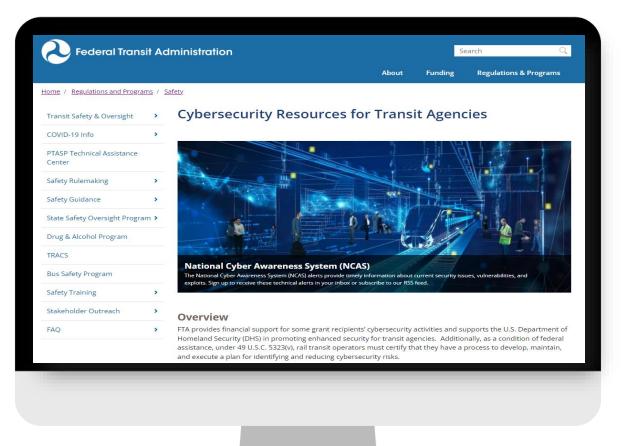
CATT has three primary components

- \circ Data collection form
- Resulting report produced given data input from transit agency
- Resource guide on how to begin practices

FTA's Cybersecurity Resources

https://bit.ly/3AQQWqe





Fall 2022 Unified Regulatory Agenda

Publication Date: January 4, 2023

Public Transportation Agency Safety Plans (PTASP)	 Incorporates new requirements established through the Bipartisan Infrastructure Law
State Safety Oversight (SSO)	 Introduces changes to clarify State Safety Oversight Agencies' (SSOA) oversight responsibilities and authority to conduct inspections
Rail Transit Roadway Worker Protection (RWP)	• Establishes minimum baseline standards and risk-based redundant protection requirements
Transit Worker Fitness for Duty	 Asks questions about establishing minimum standards related to transit worker fitness for duty
Public Transportation Safety Certification Training Program (PTSCTP)	• Amends training curriculum to reflect new requirements and training course information

Large Urbanized Area Providers

- Safety Committee
- Safety risk reduction program
- Safety Performance Targets for safety risk reduction program
- Safety training for maintenance employees

Small Urbanized Area Providers

• Cooperation with frontline transit worker representatives on Agency Safety Plan development

Proposed Changes to PTASP

Rail Transit Agencies

- Clarification of PTASP applicability
- Policies and procedures regarding State Safety Oversight Agency risk-based inspection
- Any policies and procedures for Roadway Worker Protection the agency has issued

All Transit Agencies

- New and updated definitions
- Clarification regarding PTASP certification
- Transit worker assaults, near-misses, unsafe acts and conditions in an employee safety reporting program
- Infectious disease guidance from CDC or a State health authority
- Continuous Improvement Extended to Small Public Transportation Providers
- De-escalation training

What BIL Says About Safety Committees

Agencies serving an urbanized area with a population of *fewer than* 200,000 must:

• Develop their ASP in cooperation with frontline employee representatives

Agencies receiving Section 5307 funding and serving an urbanized area with a population of **200,000 or more must:**

- Establish a Safety Committee compliant with 49 U.S.C. Section 5329(d)
 - Safety Committees must consist of an equal number of frontline employee representatives and management representatives
- Ensure their ASP is compliant with new PTASP requirements

Safety Committees & Role in SMS

Implement and Support an Agency's Safety Management System

Identify and recommend risk- based mitigations or strategies necessary to reduce the likelihood and severity of consequences identified through the agency's safety risk assessment	were	Establishing safety performance targets for the risk reduction program	Review and approve the Agency Safety Plan
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