

Spotlight on Safety: Transit Rail Grade Crossings Webinar



September 21, 2023



U.S. Department of Transportation
Federal Transit Administration

Webinar Overview

This webinar will discuss transit rail grade crossing (RGX) safety, review related research on rail grade crossing designs, highlight trespassing research and discuss education, outreach and available resources.

Speakers

- FTA's Office of Transit Safety and Oversight
- FTA's Office of Research and Innovation
- Center for Urban Transportation Research (CUTR)
- MxV Rail
- Tri-County Metropolitan Transportation District of Oregon (TriMet)
- Operation Lifesaver, Inc. (OLI)



FTA Overview

Elliott Shepherd

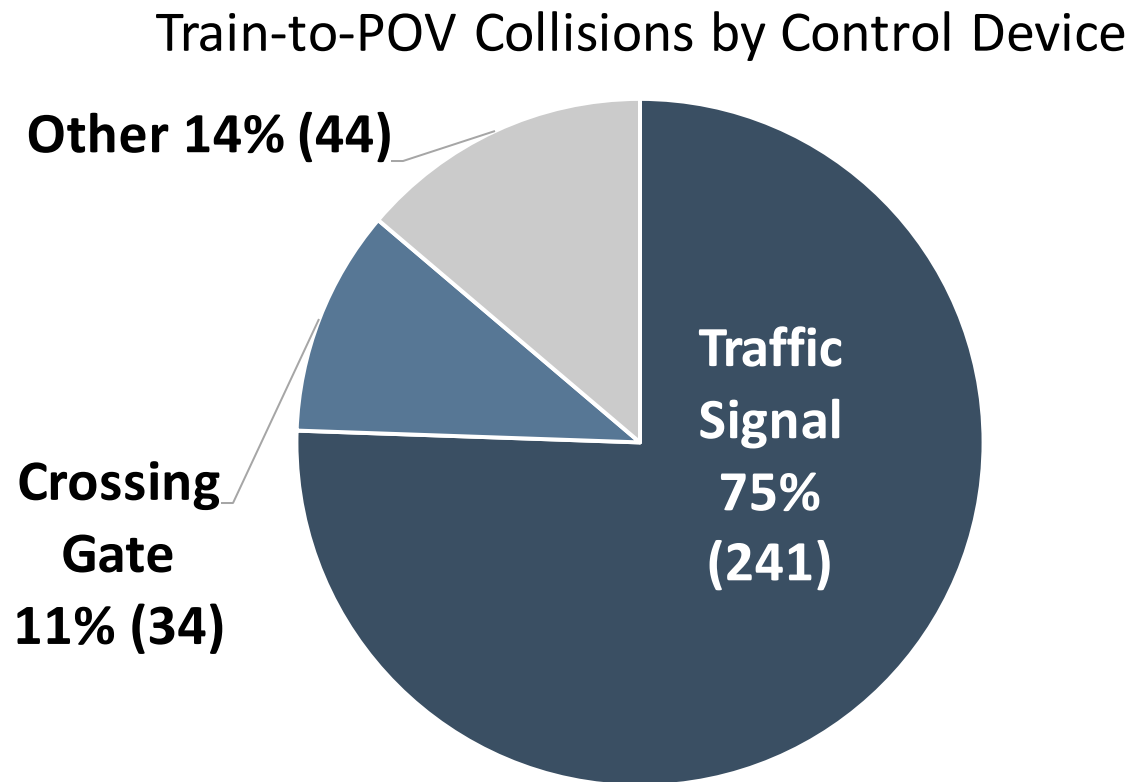
Chief, Program Operations Division

Office of Transit Safety and Oversight, Office of Safety Review



Train-to-Privately Owned Vehicle (POV) at Rail Grade Crossings (RGX) Analysis Findings

Analysis Sample 2020 – 2021: 319 Events With Investigation Reports Or Narratives



Source: National Transit Database



RGX Traffic Control Device Examples



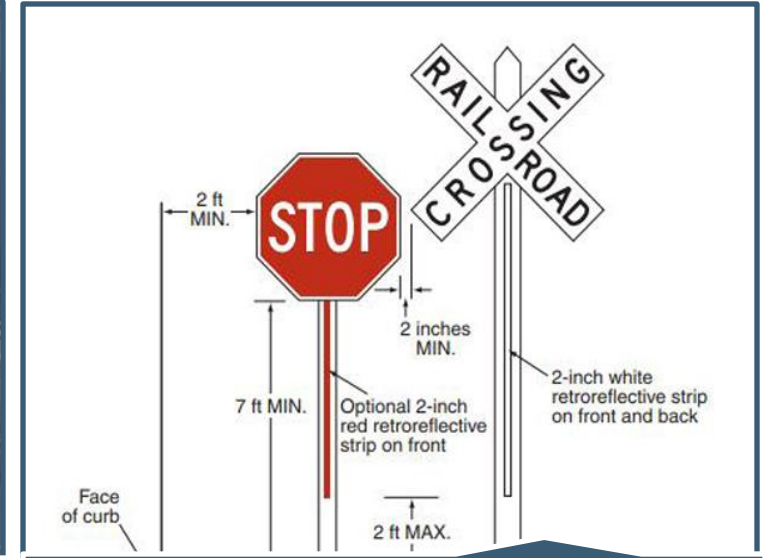
Street Running Traffic Signals

Source: DOT Highway-Rail Crossing Handbook



Rail Crossing Gates

Source: Google Earth



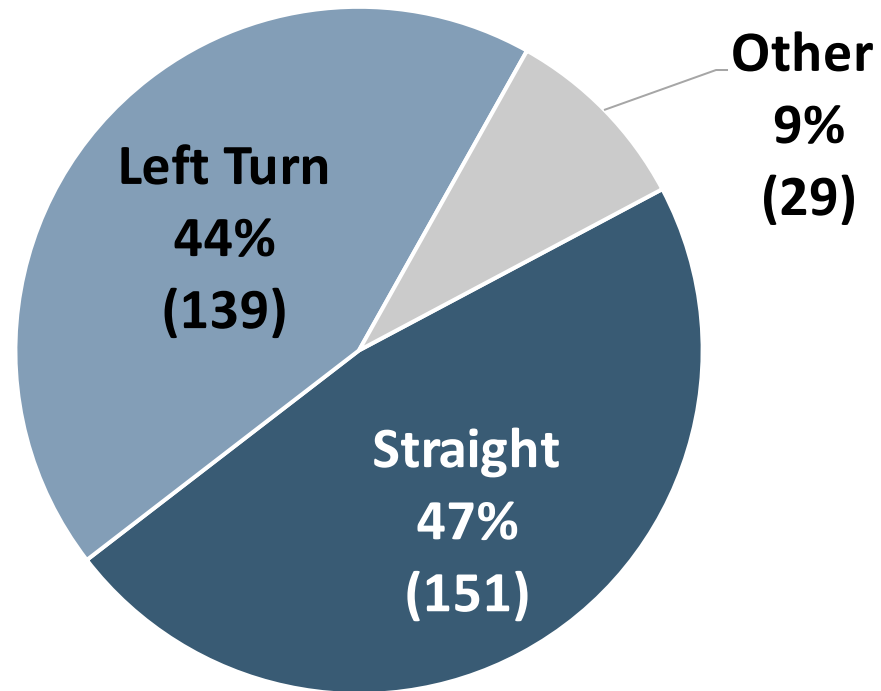
RGX Stop Sign

Source: DOT Highway-Rail Crossing Handbook

Train-to-POV at RGX Analysis Findings

Analysis Sample 2020 – 2021: 319 events with investigation reports or narratives

Train-to-POV Collisions by POV Direction



Source: National Transit Database



RGX Collision Control Examples



Transit Only Spaces

Location: San Francisco, CA



Rail Crossing Gates

Location: Los Angeles, CA



Bicycle and Pedestrian Only Spaces

Location: Portland, OR



RGX Safety Resources for Transit Agencies

Rail Grade Crossing Safety Resources for Transit Agencies



Rail Grade Crossing Safety Resources

FTA is raising awareness on this important safety concern and supporting the transit industry by providing data to analyze the current safety landscape and historical trends and resources to educate and inform the public.

Overview

Rail transit grade crossing (RGX) events, fatalities and injuries remain a concern in the transit industry. Most recently in 2022, there were a total of 592 grade crossing collisions that resulted in 19 fatalities and 133 injuries, based on data reported to FTA's [National Transit Database Data \(NTD\)](#). FTA is raising awareness on this important safety concern and supporting the transit industry by providing data to analyze the current safety landscape and historical trends and resources to educate and inform the public. This webpage includes rail grade crossing safety resources to assist transit agencies in making transit safer for all.

Rail Safety Week

[Rail Safety Week](#) is an annual observance event in mid-September spearheaded by [Operation Lifesaver, Inc.](#) (OLI) and rail safety partners across the U.S., Canada and Mexico. The goal is to raise awareness for multiple audiences on ways to Stop Track Tragedies. FTA has long supported OLI to spread this important safety message during Rail Safety Week and beyond.

What's New

Spotlight on Safety: Transit Rail Grade Crossings Webinar

This webinar will discuss transit rail grade crossing safety from both operational and public education and outreach perspectives. FTA will provide an overview and the Center for Urban Transportation Research and MxV Rail will highlight research on engineering aspects related to rail grade crossing safety, as featured in the FTA Standards Development Program Rail Transit Roadway and Pedestrian Grade Crossings Exploratory Report, and discuss trespassing research results. The webinar will also feature guest speakers from TriMet who will talk about their experiences with rail grade crossings and the non-profit, Operation Lifesaver Inc., who will discuss safety education and outreach to transit riders and available transit agency resources.

- Thursday, September 21 at 2 p.m. ET, [Register Here](#)

2023 Rail Safety Week Videos

- [2023 Rail Safety Week Videos](#)

Operation Lifesaver Safety Pledge

- [OLI Transit Safety Pledge](#)

Rail Safety and Resource Library

Click below to see list of resources



FTA Resources



Industry Resources



FTA Presentations



Data and Reports



<https://www.transit.dot.gov/RGX>



Available Resources

FTA Safety Advisory 22-04

Recommends transit agencies use suicide prevention signage best practices to reduce events and encourage mental health intervention
bit.ly/3VUBdPo

FTA Safety Bulletin 19-03

Includes Federal actions taken, data analysis and resources
<http://bit.ly/3A0wja6>

FTA Research

FTA Rail Transit Roadway/Pedestrian Grade Crossing Exploratory Report
<http://bit.ly/3ErldfJ>



RGX: Safety Project Overview

Raj Wagley

FTA Office of Infrastructure, Safety and Asset Innovation



Project Background

- In FY2016, FTA began Standards Development Program <https://www.transit.dot.gov/research-innovation/standards-development-program> to meet the requirements of Section 3020 of the FAST ACT
- FAST act required USDOT to
 1. Compile a Compendium of transit safety standards and protocols <https://www.transit.dot.gov/regulations-and-guidance/safety/compendium-transit-safety-standards>
 2. Review and evaluate existing safety standards <https://www.transit.dot.gov/sites/fta.dot.gov/files/docs/research-innovation/58291/fta-report-no-0103.pdf>
 3. Provide recommendations to FTA
- Standard Development Project performed literature review, data collection and industry stakeholder interactions to do a risk-based analysis and produced a list of safety issues for further research and safety standards development
- FTA worked with Center for Urban Transportation Research (CUTR) and MxV Rail to perform a project, titled 'Transit Rail Roadway/Pedestrian Grade Crossing' and produced the report <https://www.transit.dot.gov/sites/fta.dot.gov/files/2022-05/FTA-Report-No-0216.pdf> in May 2022



Report Highlights

- Objective:
 - Develop findings to reduce incidents and accidents at rail highway/pedestrian grade crossing,
 - Help develop safety standards
- Examples of findings:
 - No. of incidents at street intersection grade crossings 10x more than conventional rail grade crossings
 - Majority of transit agencies have more street intersections
 - Street intersections have more challenges and limitations
 - Most standards and recommended practices apply to rail grade crossings, not street intersections
 - New and emerging technologies are available that can improve grade crossing safety
 - Etc.
- Additional details will be provided by CUTR, MxV Rail and TriMet





(Courtesy of wlrn.org) Carl Juste / Miami Herald



(Source: Operation Lifesaver, Inc.)

Mitigation of Railroad Trespasser Fatalities and Injuries

Spotlight on Safety: Transit Rail Grade Crossings



(Courtesy of FRA, USDOT)

Achilleas Kourtellis, Ph.D.
Assistant Program Director
ITS, Traffic Operations and Safety



(Source: FLIR System)

Background

The U.S. Railroad System

775

Railroads

140,000

Route Miles of Track

209,000

At-Grade Railroad Crossings



5-Year Crossing Trends

Fatalities

262

(2014)

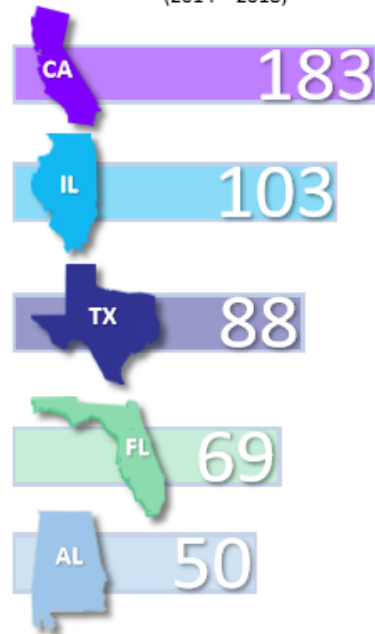


270

(2018)

3%

Top 5 for Crossing Fatalities (2014—2018)



5-Year Trespassing Trends

Fatalities

470

(2014)

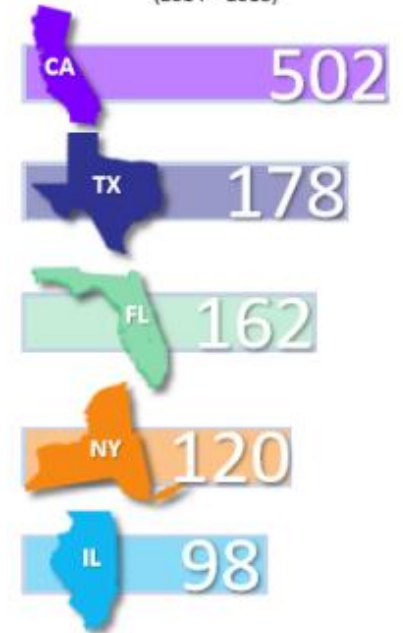


570

(2018)

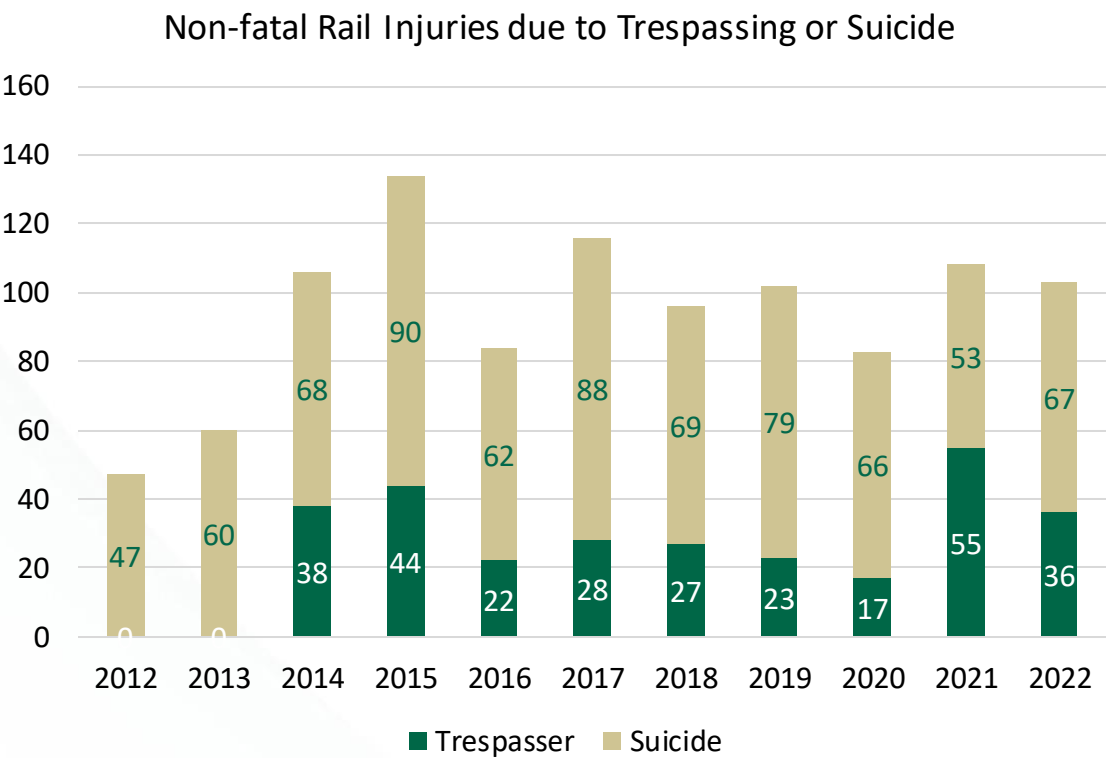
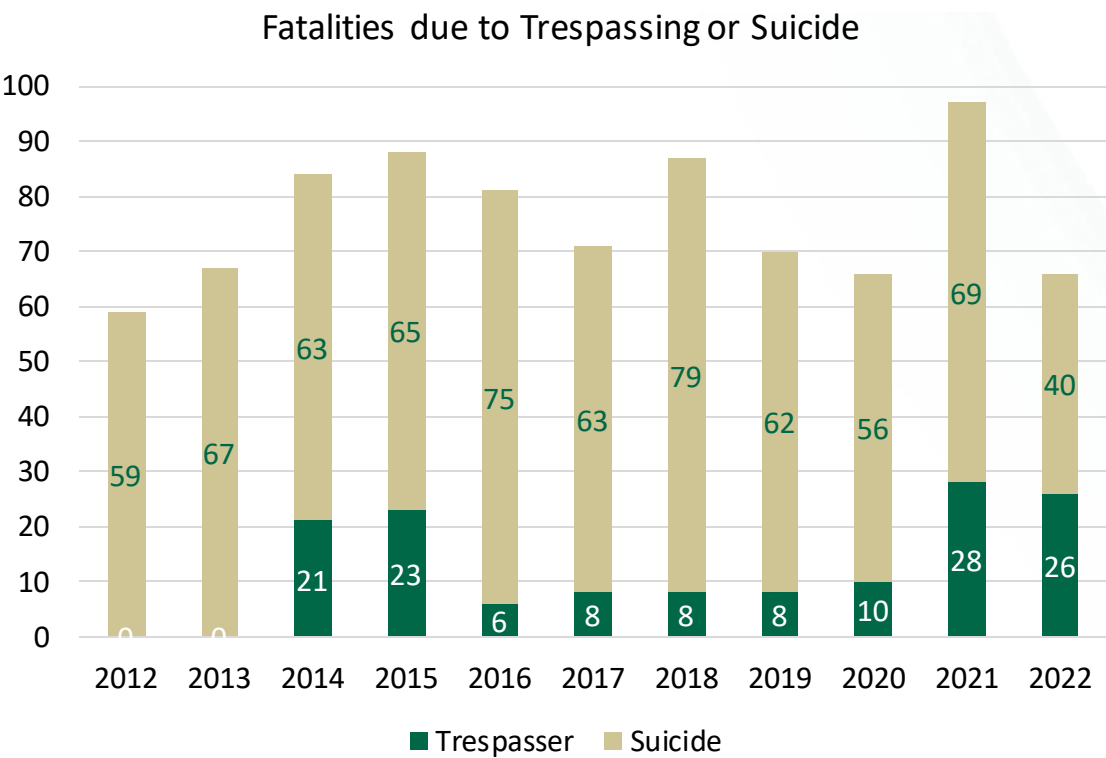
21%

Top 5 for Trespassing Fatalities (2014—2018)



Source: FRA – Railroad Crossing Safety and Trespass Prevention

Trend of Trespasser Fatalities and Injuries



Source: FTA, <https://data.transportation.gov/Public-Transit/Major-Safety-Events/9ivb-8ae9>
Data includes only rail modes (HR, LR, MG, YR, SR, CC, IP) and the following measures: pedestrians walking along tracks, pedestrians crossing tracks, pedestrians not in crosswalk.

Statistics of Railroad Trespassing Fatalities

- Based on the analysis of FTA's NTD data from 2012 to 2022, transit rail fatalities due to trespassing account for **15%** of all transit rail fatalities.
- Based on the analysis of FTA's NTD data from 2012 to 2022, transit rail fatalities due to suicide account for **40%** of all transit rail fatalities.



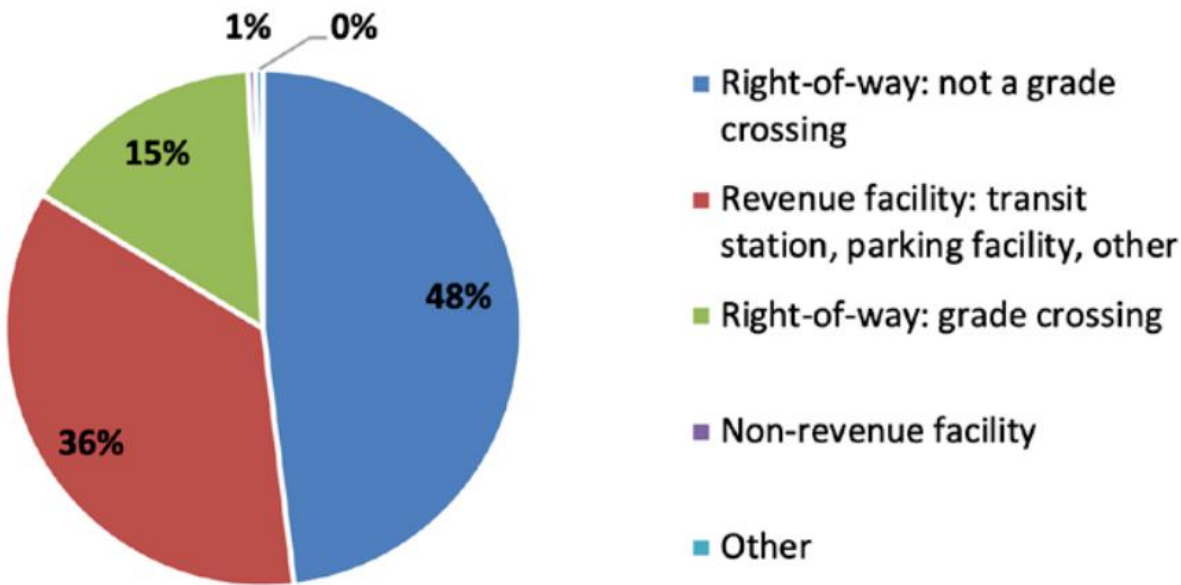
Suicide vs. Trespasser fatality percentage by location

Suicide fatalities by location type for RTAs, 2011–2019



Source: NTD Safety and Security Time-Series Data

Trespasser fatalities by location type for RTAs, 2011–2019



Source: NTD Safety and Security Time-Series Data

Effective and Promising Practices

- **Fencing** railroad ROW especially at trespassing hotspot locations using cameras for monitoring
- Installing **no trespassing signage** at strategic locations
- Conducting **community educational outreach** activities via collaboration with Operation Lifesaver, rail safety campaigns, and targeted campaigns to vulnerable populations.
- Including **training for rail operators** on how to properly handle various trespassing scenarios



(Courtesy of restrail.eu)

Fencing at hotspot locations

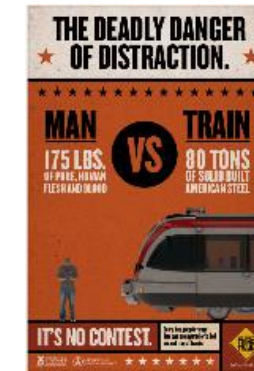


Mid platform fencing



(Source: TrainBoard.com)

No Trespassing sign



Operation Lifesaver educational campaigns



Training for rail operators

Effective and Promising Practices (Cont'd)

- Deploying **See Say** or similar apps to encourage trespassing reporting
- Collaborating with **rail transit police or local law enforcement agencies** to respond to reported trespassing
- Installing **flashing lights at train stations** to indicate train arrival and warn people
- Using **audible bells** at train stations to indicate train arrival and warn people
- Applying **technologies** to detect trespassers



MARTA See & Say Apps



Response of local law enforcement to reported trespassing



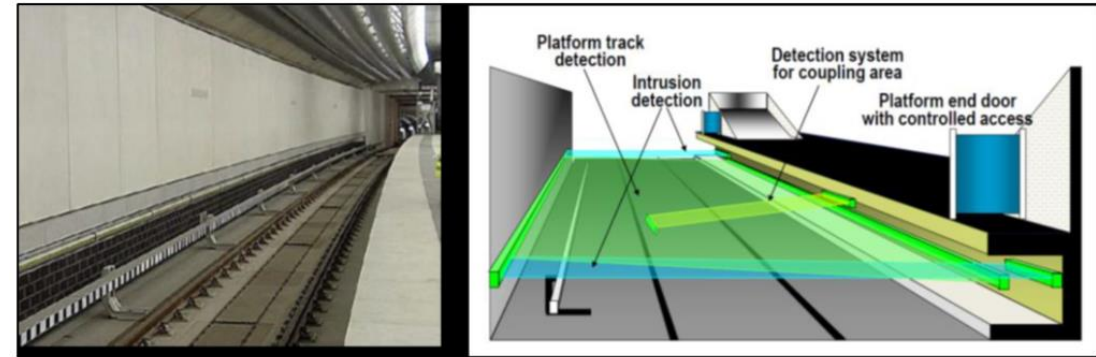
Flashing lights at a METRO station to warn train arrival



Audible bell used at Houston METRO stations to warn train arrival

Existing Technology Applications Identified for Trespassing Detection and Prevention

- Guideway Intrusion Detection Systems
- Anti-Trespass Guards or Grids
- Infrared and Thermal Detection
- Buried Sensors



Optical and RF sensor-based Guideway Intrusion System, Nuremberg, Germany



Thermal detection using FLIR thermal camera



Trespasser detection – anti-trespass grids



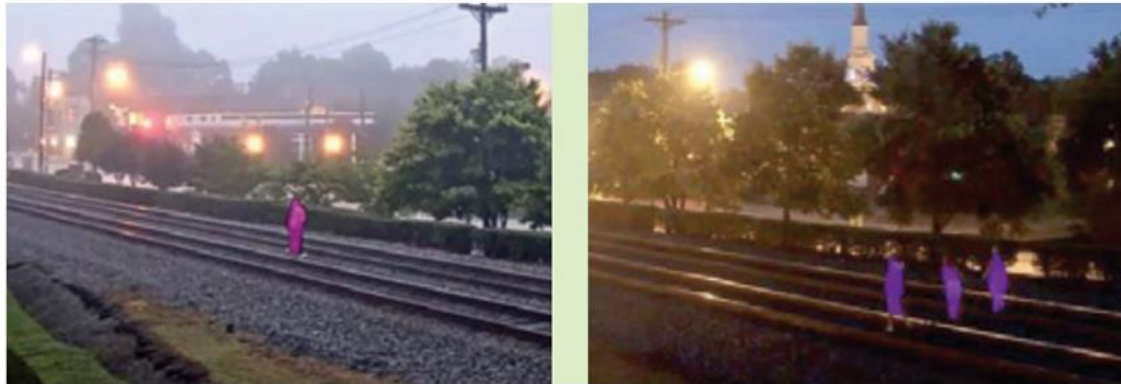
Trespasser detection using a fiber-based sensor device

Emerging Technology Applications Identified for Trespassing Detection and Prevention

- Applications of AI and Video Analytics on Trespasser Detection
- Unmanned Aircraft Systems (UAS) - Drones
- Long-Range Radar Applications



Trespasser detection – aerial drones

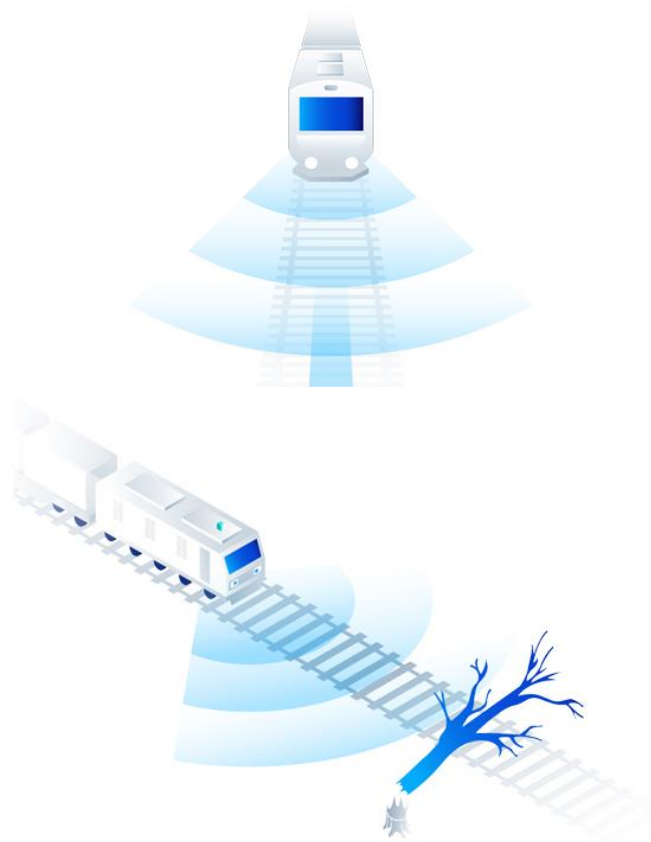


Trespasser detection – obstruction on railroads using AI-based detection algorithms

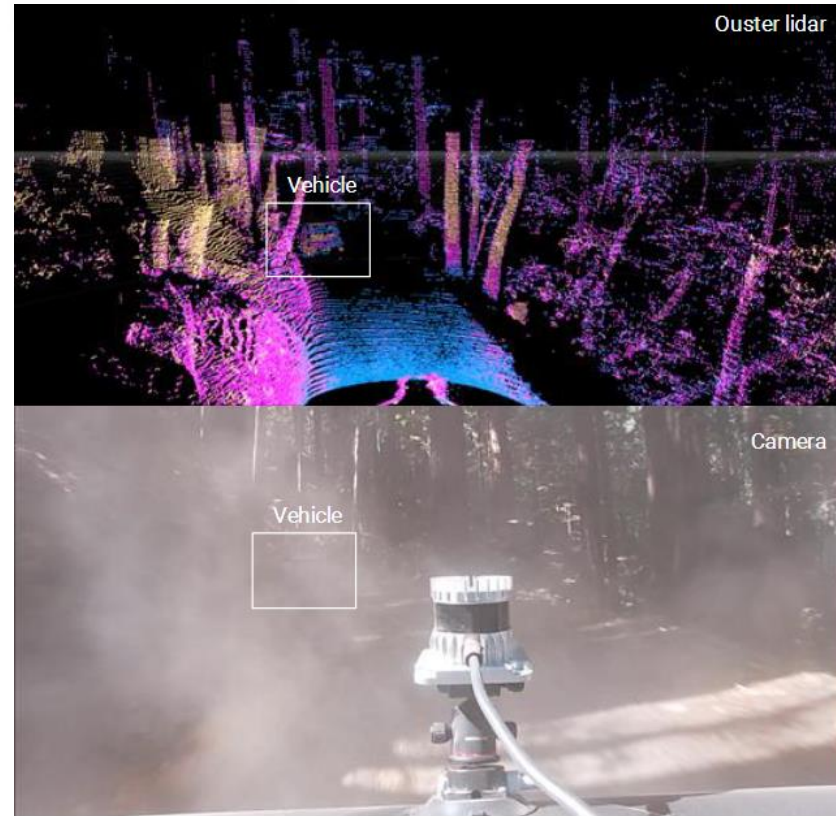


Trespasser detection – long range radar

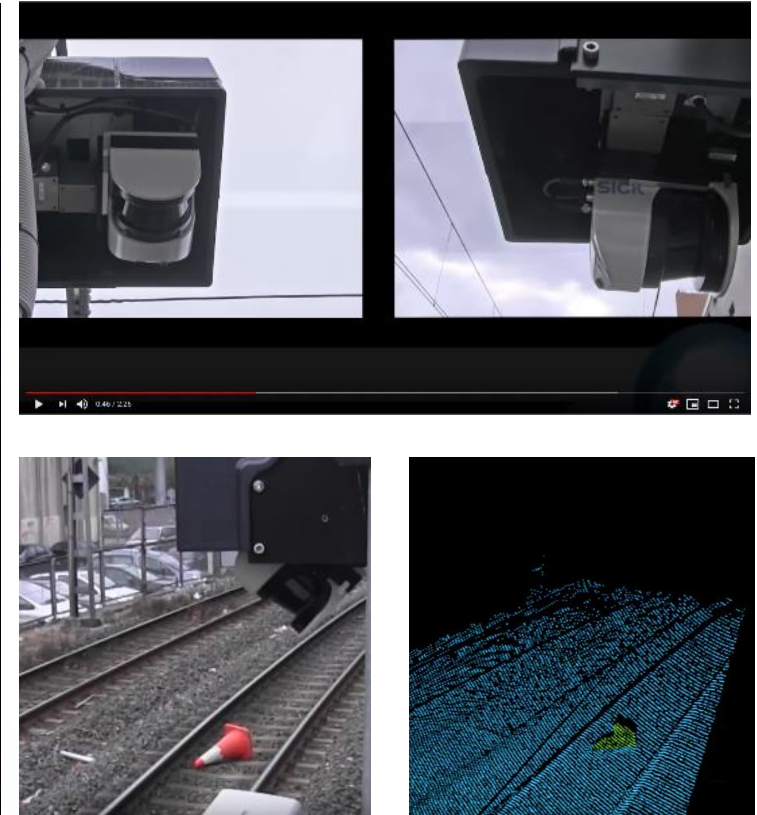
Emerging Technology Applications Identified for Trespassing Detection and Prevention (Cont'd)



Source: 4Sight™ Lidar for Rail (Aeye)



Source: Ouster Lidar



<https://www.youtube.com/watch?v=JGw6QpYShgY>

Source: IK4-TEKNIKER

Onboard Detection Systems



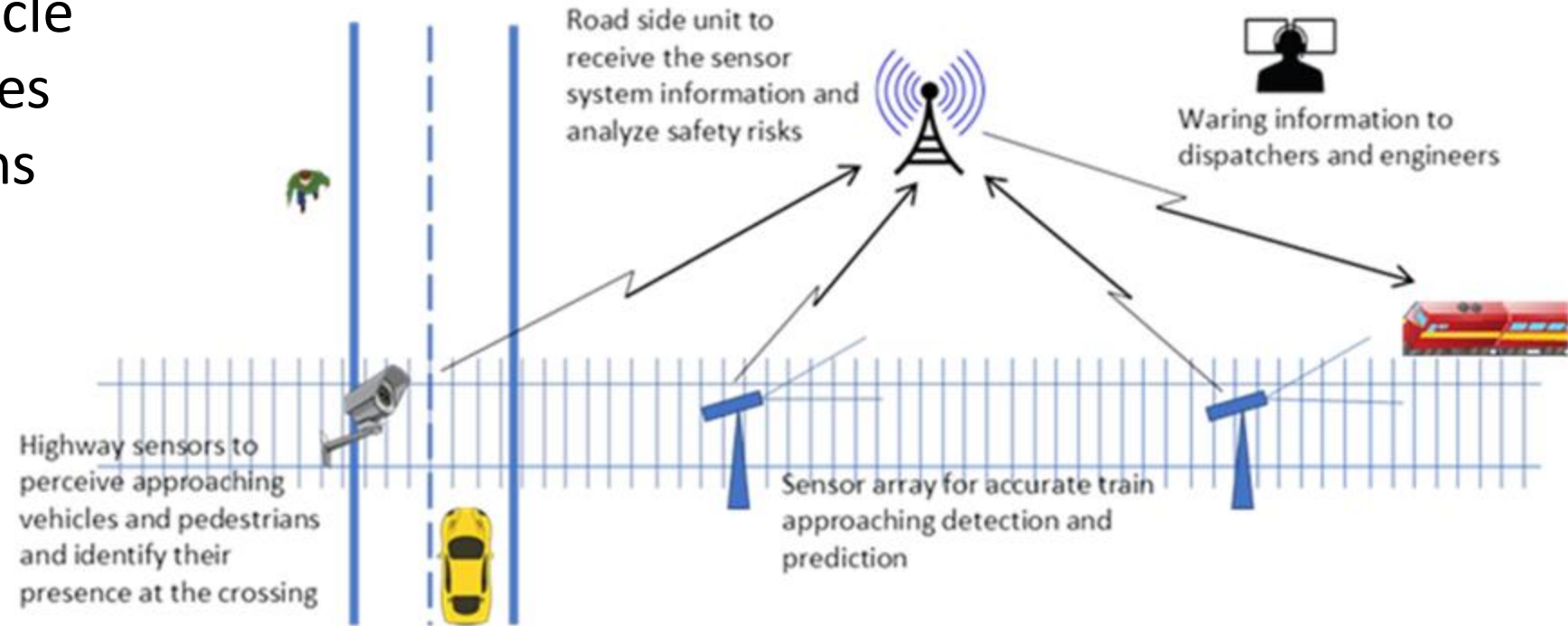
On-board detection system - Rail Vision



Onboard detection system – SeeFar

Emerging Technology Applications Identified for Trespassing Detection and Prevention (Cont'd)

- Connected Vehicle (CV) Technologies and IoT solutions



(Source: USF)

General illustration of highway and grade-crossing sensors on train arrival

Thank you



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Rail Transit Roadway and Pedestrian Grade Crossings Exploratory Report

Duane Otter / Ben Bakkum / Dingqing Li

FTA Grade Crossing Webinar
September 21, 2023



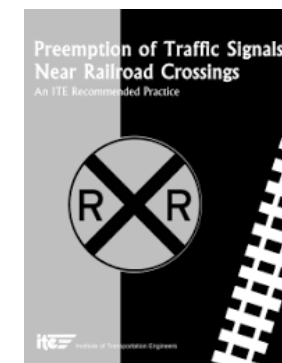
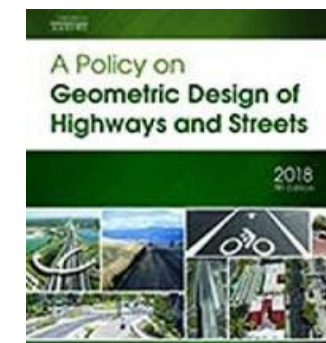
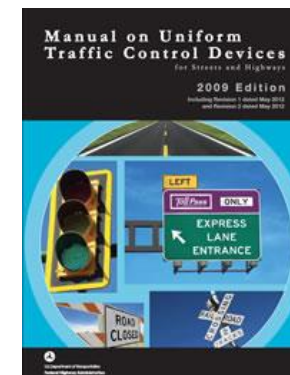
Rail Transit Roadway and Pedestrian Grade Crossings

- Overview of presentation
 - highlights from study
 - Literature review
 - Survey results
 - Case studies findings
 - Summary



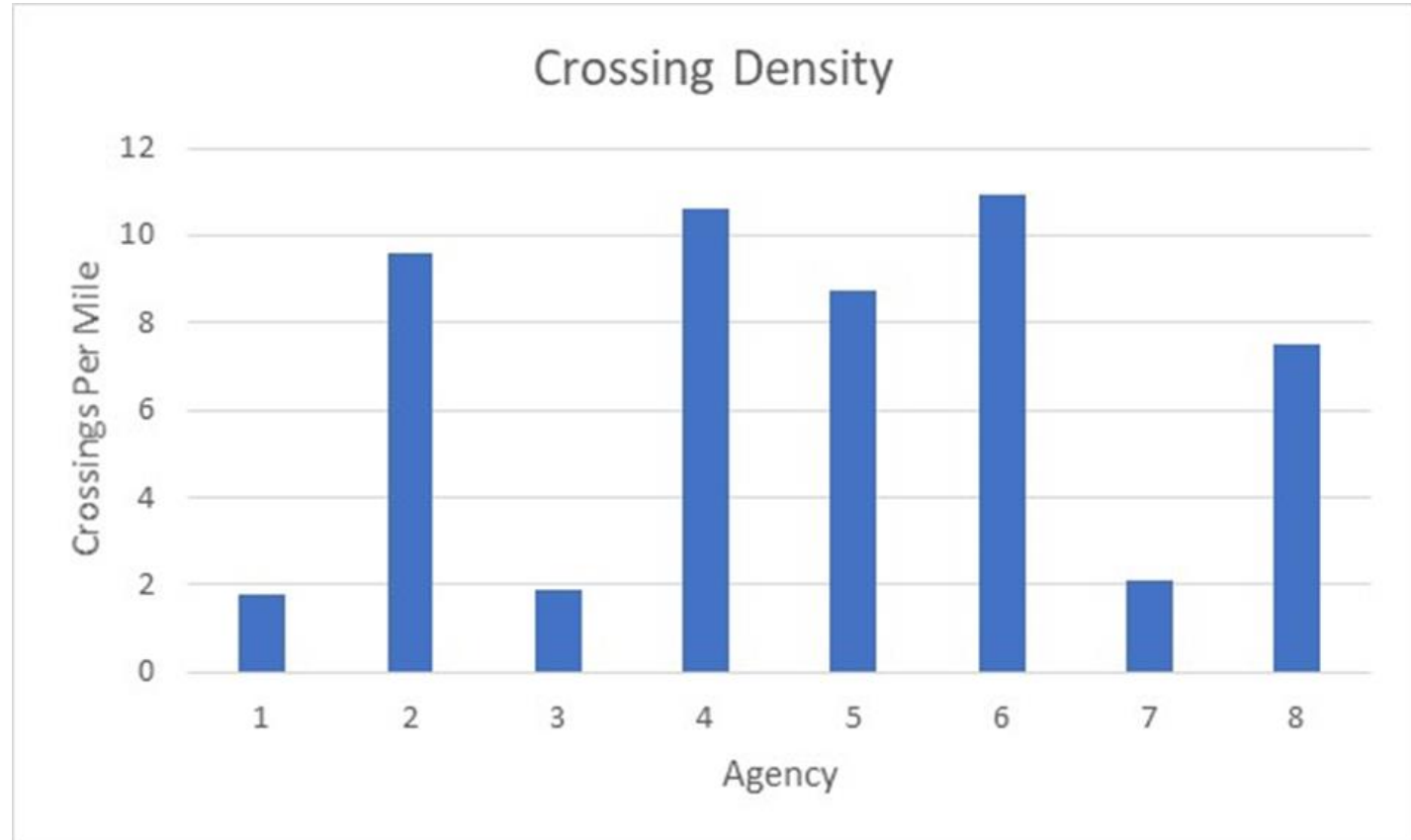
Grade Crossing Guidance Documents & Agencies

- Manual on Uniform Traffic Control Devices (MUTCD)
- 49 CFR Parts 234 (FRA) and 222 (Quiet Zones)
- Highway-Rail Crossing Handbook (FHWA & FRA)
- AASHTO “Green Book”
- ITE – Preemption of Traffic Signals Near Railroad Crossings
- AREMA C&S Manual Vol 1, Section 3
- APTA Rail Transit Grade Crossing Documents
- NACTO Transit Street Design Guide
- State DOTs and PUCs



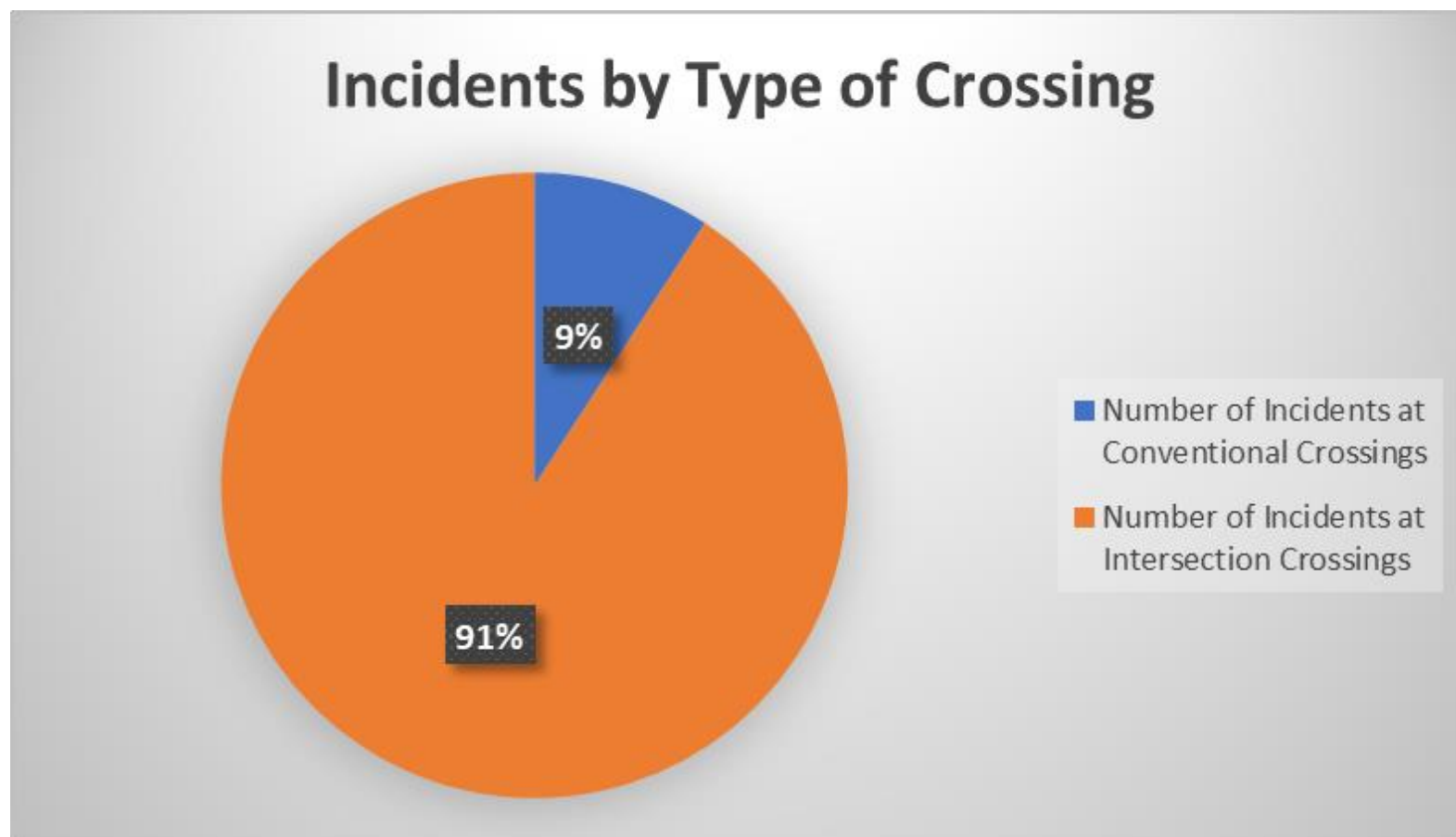
Industry Survey – Network Information

- More crossings per mile for agencies with a significant portion of routes as street running.
- Much fewer crossings per mile for agencies with significant portion of routes on dedicated right of way.



Conventional vs Street Intersection Crossings

- Data from over 1100 incidents over 5 years, 6 agencies



Case Study Experience: Some general findings

- All visited agencies have some street running in their light rail operations
- Challenging areas:
 - Left turns across tracks
 - Right turns across tracks
 - Transitions from street running to dedicated right of way
- Dynamic signage used by all visited agencies
- 4-quad gates common on 2 of 4 agencies visited

Conventional vs Street Intersection Crossings

- Many differences



Street Intersection Crossings

- Conventional vs Street Intersection crossing incidents not separated in NTD data
- Street intersection crossings are limited in terms of engineering solutions
- Significant paperwork & bureaucratic burden for agencies



Conventional vs Street Intersection Crossings

- Engineering challenges for street intersection grade crossings
 - Traffic running parallel to rail in addition to crossing the rail
 - Motor vehicles turning across tracks
 - Traffic signals and dynamic signs instead of flashing lights, gates, and bells



Conventional vs Street Intersection Crossings

- Engineering limitations for street intersection grade crossings
 - Limited in terms of traffic islands, bollards, etc.
 - Limited in terms of pavement treatment and markings
 - Shared lanes present additional challenges
 - Bar signals typically needed for transit



Pedestrian Crossing Treatments

- Example: Pedestrian treatment at corner with station
- Flashing lights and gate arms
- Swing gates
- Pavement treatment
- Signage and fencing
- Dynamic signs



Problem Behavior – Motorists and Pedestrians

- Driving around gates
- Trapped by gates
- Motor vehicles merging into shared lanes ahead of LRVs
- Stalled vehicles
- Improper turns
- Trying to beat gates/trains



Remediation Methods

- Methods used to address both motorist and pedestrian problem behaviors include:
 - Quad gates, swing gates, gate skirts
 - Channelization devices
 - Photo-enforcement with stiff fines (word gets around)
 - Fencing and anti-trespass devices
 - Dynamic signage
 - Supplemental warning systems
 - WAZE smartphone app (?)

Craig McDonald
Director, Safety and Environment
TriMet Risk Ranking Tool
and Data Validation for
Grade Crossing Safety

FTA Safety Research Demonstration (SDR)
Cooperative Agreement Project

TriMet is using video analytics along part of its rail alignment in Portland, Oregon, to better understand at-grade crossing risks and incidents.

Purpose of Project:

- **Develop a grade crossing safety Risk Ranking Tool.**
- **Share guidelines for using Video Analytic Data in risk ranking.**
- **Video analytics software**

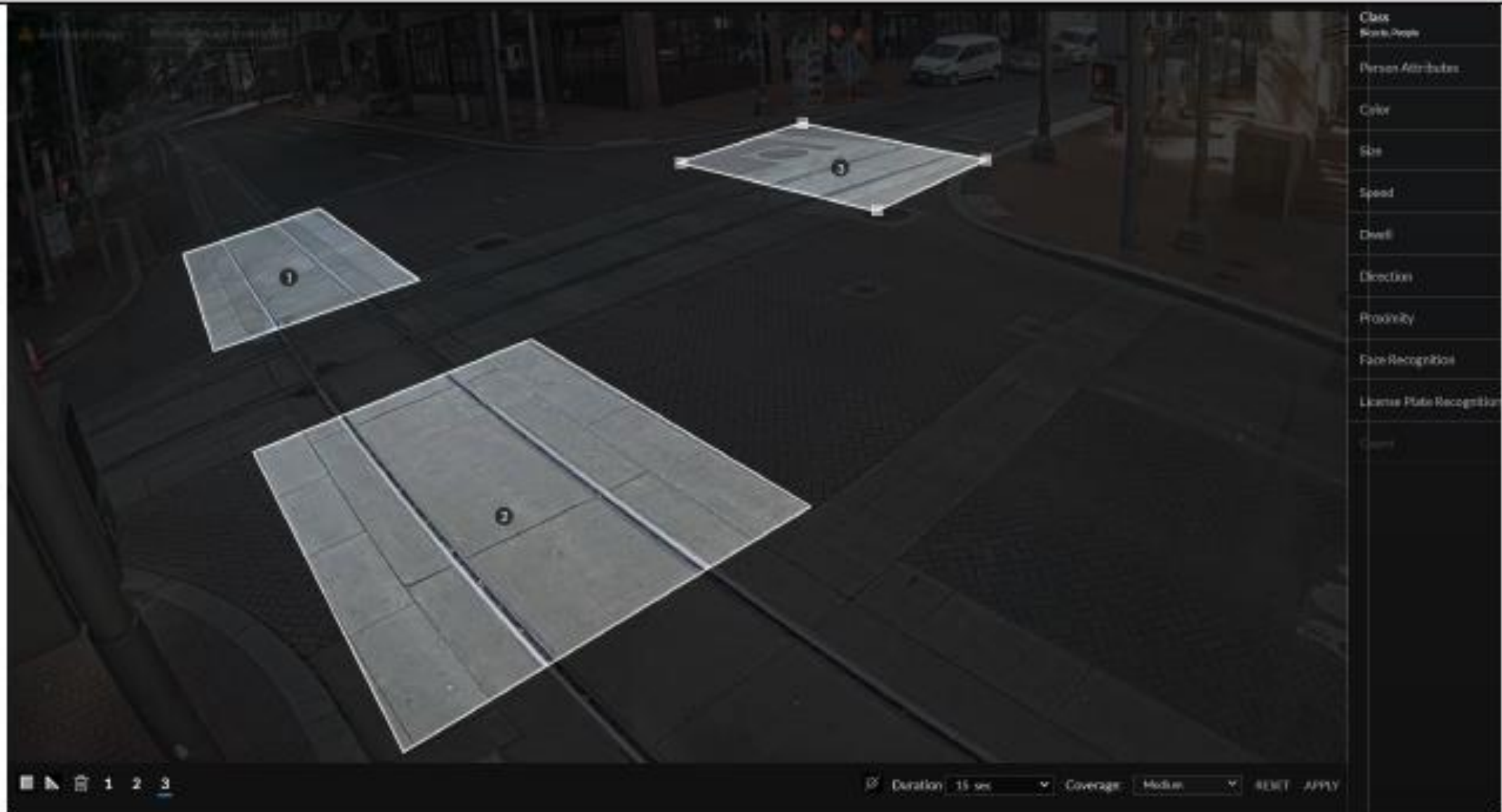
July 2021-June 2025

CAMERA VIEW



CAMERA LOCATION

RULE – PEDESTRIAN DWELL



The screenshot displays the TRIOMET software interface for analyzing pedestrian dwell times. The main view shows a street scene with three rectangular areas highlighted by white rectangles and numbered 1, 2, and 3. These areas represent dwell zones for pedestrians. The interface includes a sidebar on the right with the following options:

- Class
- Block People
- Person Attributes
- Color
- Size
- Speed
- Dwell
- Direction
- Proximity
- Face Recognition
- License Plate Recognition
- Count

At the bottom of the interface, there is a control bar with the following elements:

- Duration: 15 sec
- Coverage: Medium
- RESET
- APPLY

RULE – VEHICLE DWELL

162ND08 – 162ND AVE TRANSIT STATION

CAMERA VIEW




CAMERA LOCATION



2nd Cam 8
Archived image

Refresh image from VMS

- Class
People, Bicycle
- Person Attributes
- Color
- Size
- Speed
- Dwell
- Direction
- Proximity
- Face Recognition
- License Plate Recognition
- Count

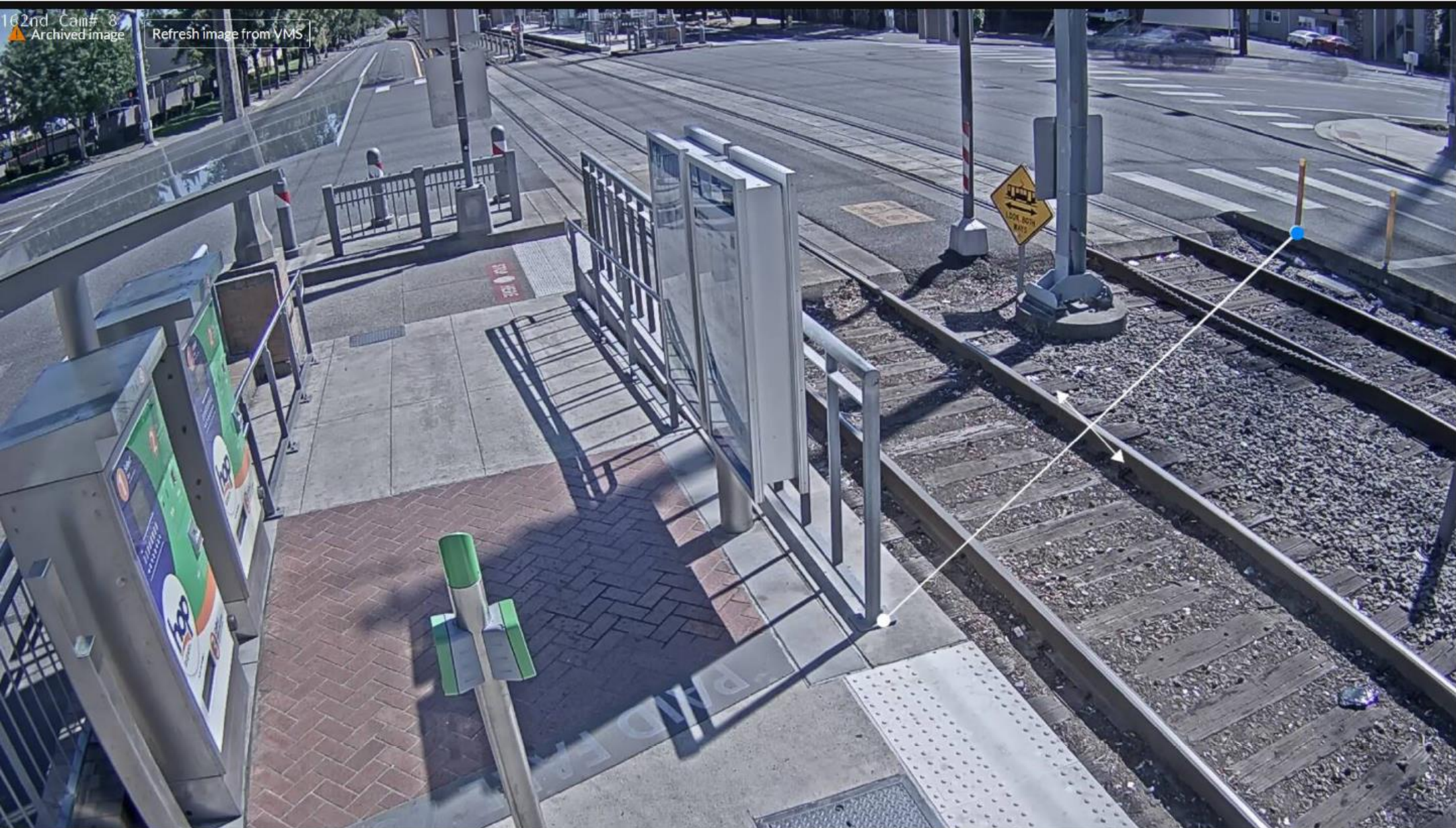
 1

Duration 10 sec

Coverage: Medium

RESET

APPLY



Class
People, Bicycle
Person Attributes
Color
Size
Speed
Dwell
Direction
Proximity
Face Recognition
License Plate Recognition
Count

Tolerance: Normal

File Home Insert Page Layout Formulas Data Review View Acrobat Tell me what you want to do...

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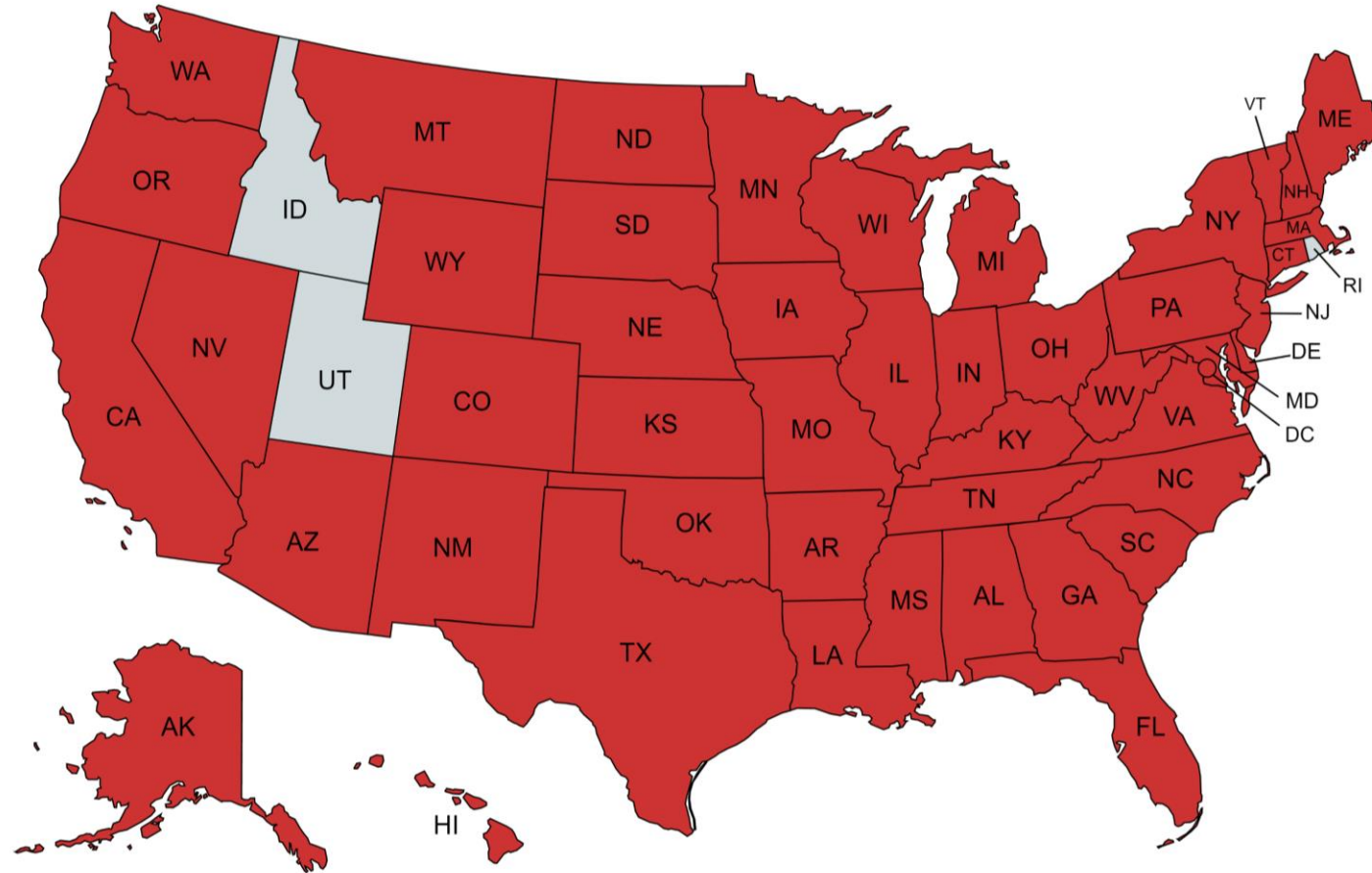
Operation Lifesaver, Inc. and Transit Safety

Spotlight on Safety: Transit Rail Grade Crossings Webinar

Rachel Maleh
Executive Director



Operation Lifesaver Programs – 47 States and DC



How OLI Partners with FTA and Transit Agencies

- OLI works with FTA to provide annual Competitive Transit Safety Public Awareness grants to transit agencies
- Through other FTA grants, OLI also develops free resources and assets for transit agencies to use in public safety outreach efforts



Competitive Grant Awards
Announcement



Materials in English
and Spanish

Competitive Rail Transit Safety Education Grants



U.S. Department
of Transportation
**Federal Transit
Administration**



Brightline Digital Ad

- Latest round of grants are going to **8 transit agencies in 6 states (FL, MA, NY, NC, TX and VA)**
- Thank you to APTA and FTA partners for your ongoing support!
- **Total of over \$140K** in grant funds from FTA for rail transit safety education and public awareness efforts



Transit Assets: 3 PSAs in English and Spanish



Safety Around Streetcars and Light Rail

<https://vimeo.com/738767009>



Rail Transit Crossing Safety

<https://vimeo.com/738766138>



Safety at Rail Transit Stations

<https://vimeo.com/738764633>

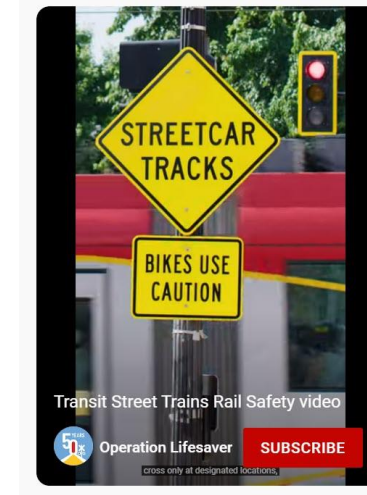
Transit Assets: Transit Posters



Social Media Graphics



- Additional transit safety social media graphics
- Eight short excerpts of the video Public Service Announcements (PSAs) in English and Spanish for social media posting



Video PSA Excerpts for Social Media Channels

Transit Assets: Brochure, Kids' Coloring and Activity Books

- Transit brochure in English and Spanish
- Coloring Book and Kids Activity Book



Kids' Coloring Book,
Activity Book

New Transit Safety PSA for kids

OLI's safety mascot, ST3, teaches kids how to stay safe as transit riders!



Find it at: oli.org/info/kids

Transit Rail Safety Pledge

Transit Rail Safety Pledge

- Pre-Readers
- Ages 6-12
- Adults



Thanks for taking the pledge.
Together, we can #STOPTrackTragedies.

Share to:



Every 3 Hours in the US a person or vehicle is hit by a train.

TRANSIT TRAINS CAN TRAVEL OVER 100 MPH.
Make safe choices around tracks and trains.

[Click for More Info](#)

Look both ways.

TRAINS ARE QUIETER AND FASTER THAN YOU THINK.

Stay off the tracks. Cross only at designated crossings.

[Click for More Info](#)

SEE TRACKS? THINK TRAIN!®

STAY BEHIND THE PAINTED OR RAISED MARKINGS.

Always expect a train. Observe all warning signs.

[Click for More Info](#)



MY TRANSIT SAFETY PLEDGE

First Name Last Name

Took the Operation Lifesaver Transit Safety Pledge on [DATE].

I pledged to:

- Always make safe choices and model safe behavior around tracks and trains.
- Stay alert, keep my eyes up and wait behind the yellow line and raised markings.
- Never retrieve anything dropped on the tracks. I will notify transit personnel.
- Avoid distractions and always expect a train.
- Always walk my bike/scooter/skateboard.

Transit safety is important to me, my friends and my community.

 **OPERATION
LIFESAVER®**
Rail Safety Education
www.oil.org

Rail Safety Week – Transit Safety Thursday

Rail Safety Week - September 18-24, 2023

- Sept. 21 theme - Transit Safety Thursday
- Sept. 22 theme - #RedOutForRailSafety Day



Video Message 2023 - FTA
Deputy Administrator Veronica
Vanderpool



Video Message 2023 - FTA
Associate Administrator for
Transit Safety & Oversight
Joe DeLorenzo

Rail Safety Week – Red Out for Rail Safety, 9/22

It's not too late to join us!

- Send #RedOutForRailSafety photos to news@oli.org



RTA Louisiana



DC Streetcar



Rio Metro Rail Runner
Express

SAVE THE DATE: Rail Safety Week - Sept. 23-29, 2024

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Q&A



Thank you!



<https://www.transit.dot.gov/TSOWebinars>





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