

Trespass Prevention: A Hazard Management Approach



2012 FTA/FTA ROW Fatality and Trespass Prevention Workshop
St. Louis, MO
August 14, 2012

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Outline

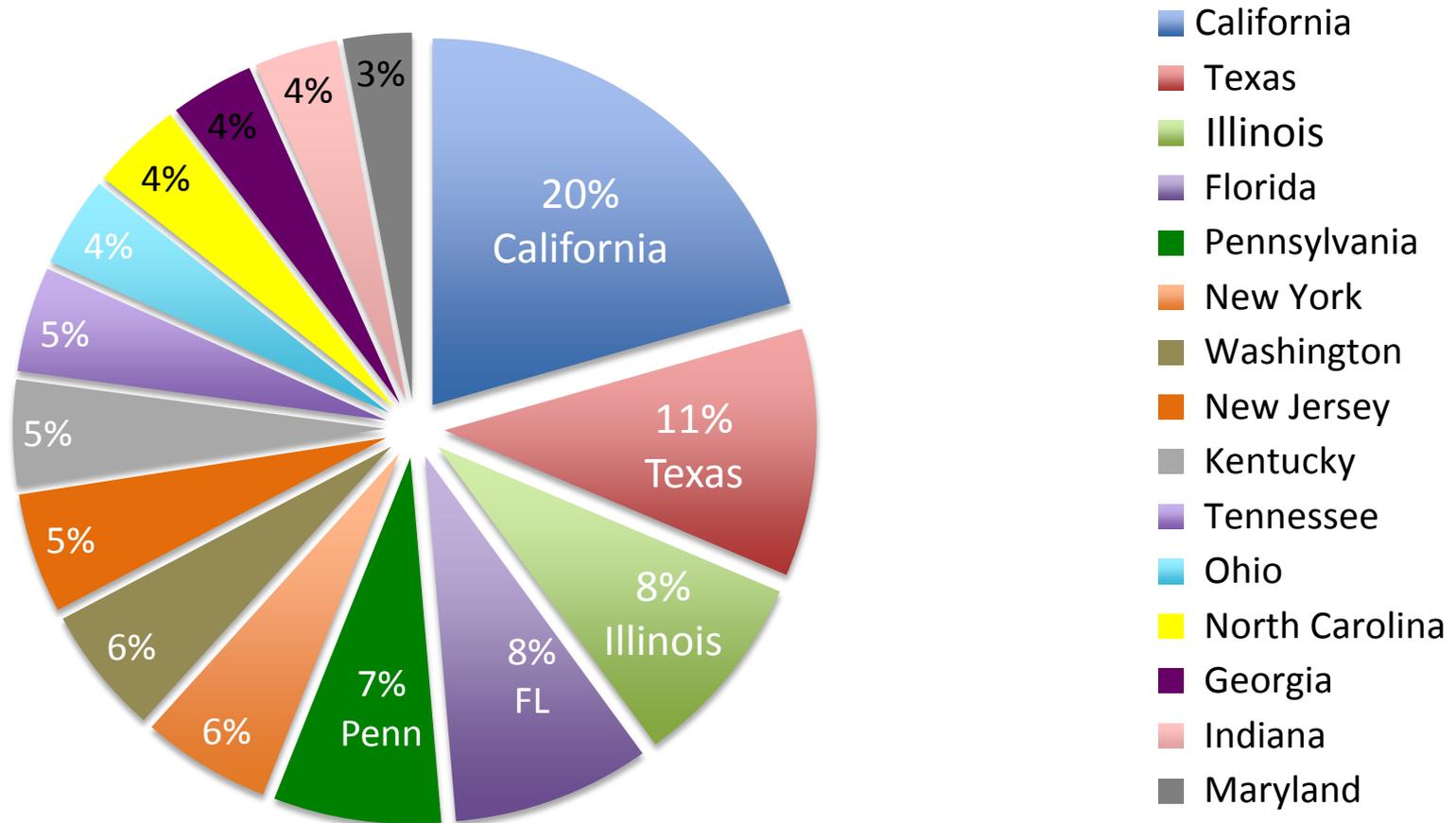
- Trespassing Awareness
- Addressing Trespassers
 - Engineering
 - Education
 - Enforcement
- Part 659 Hazard Management Approach
- Doing our Part





Trespassing Awareness

CY2011 Trespassing incidents by Top-15 States



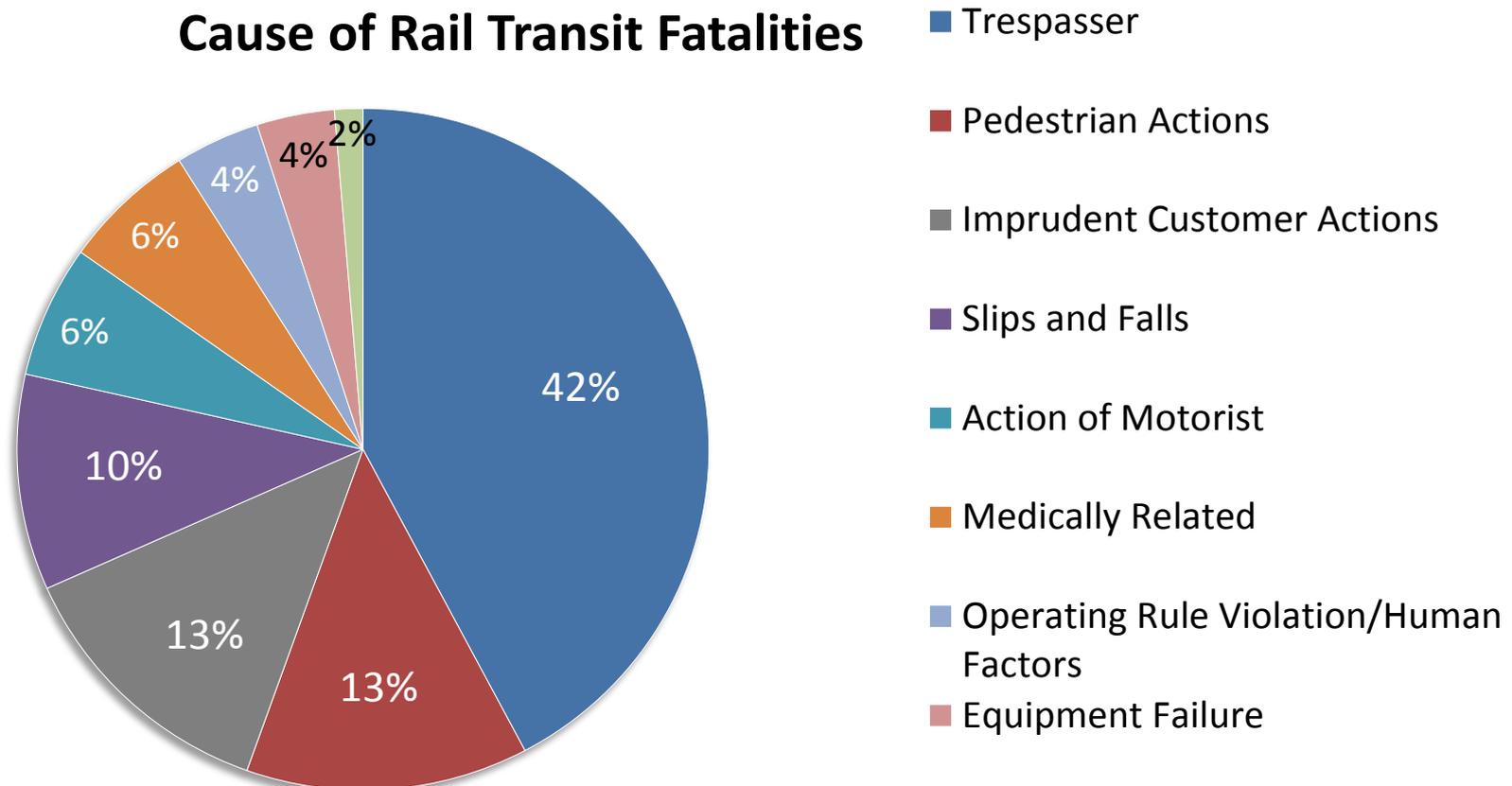
427 Rail Transit & Freight Trespassing Fatalities in 2011



Trespassing Awareness

- Trespassing incidents #1 cause of rail transit fatalities (excluding suicides)

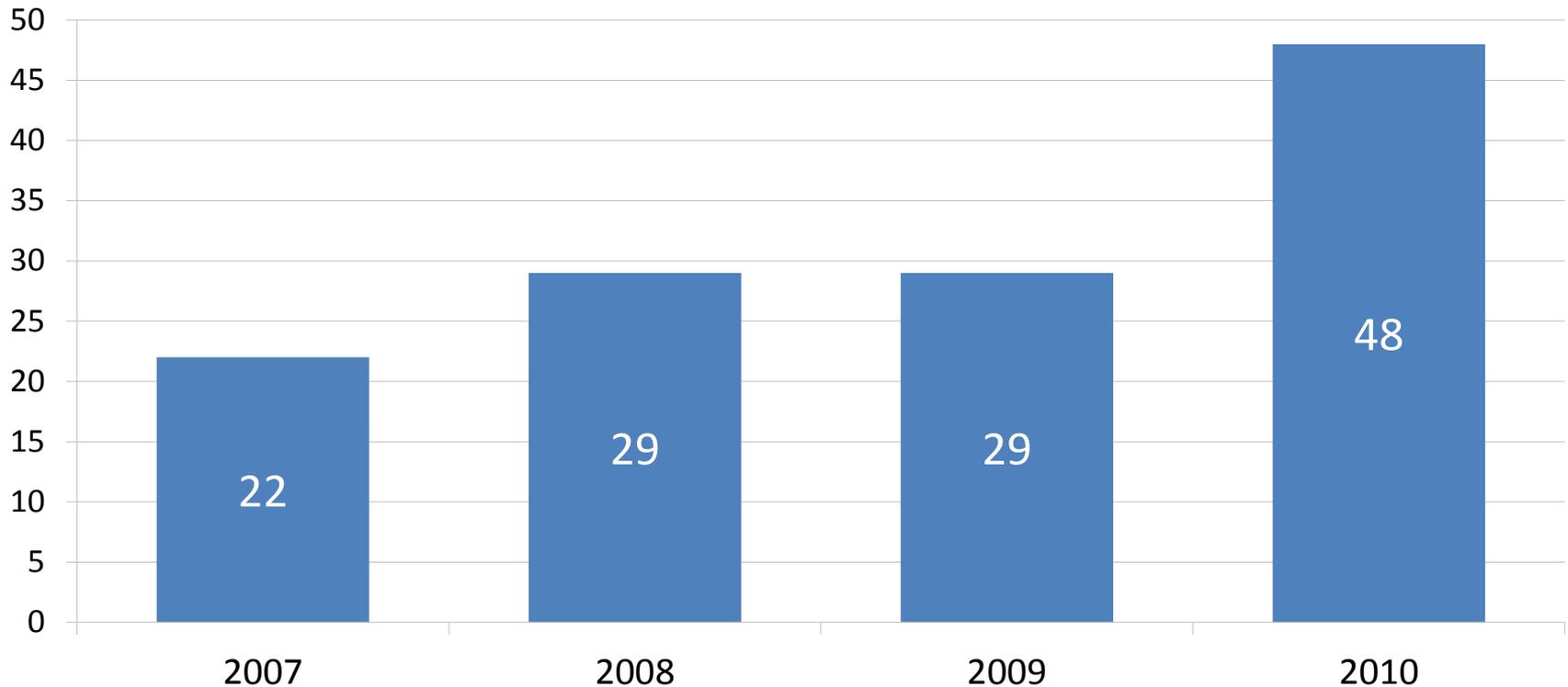
Cause of Rail Transit Fatalities





Trespassing Awareness

Rail Transit Trespassing Incidents



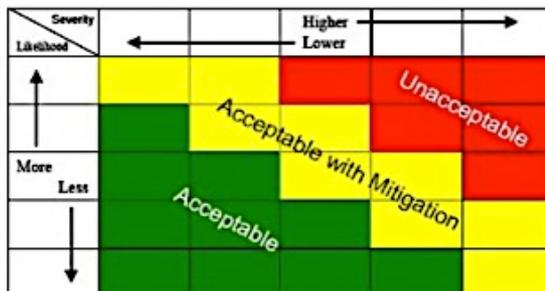
66% Increase in Rail Transit Trespassing Fatalities in 2010

Trespassing Incidents & Fatalities are Increasing!

Addressing Trespassers

Engineering

- Hazard Management
 - Preliminary Hazard Analysis (PHA) for new projects
 - PHA for new developments near existing alignments
 - Guidance: [FRA Collision Hazard Analysis Guide – Commuter and Intercity Passenger Rail Service \(2007\)](#)



Addressing Trespassers

Engineering

- Design Criteria

- Hazard analysis needs to be ongoing process
- Mitigations from (ongoing) analysis needs to be included in design criteria and/or procedures
- Consider operations and industry best practices to support analysis



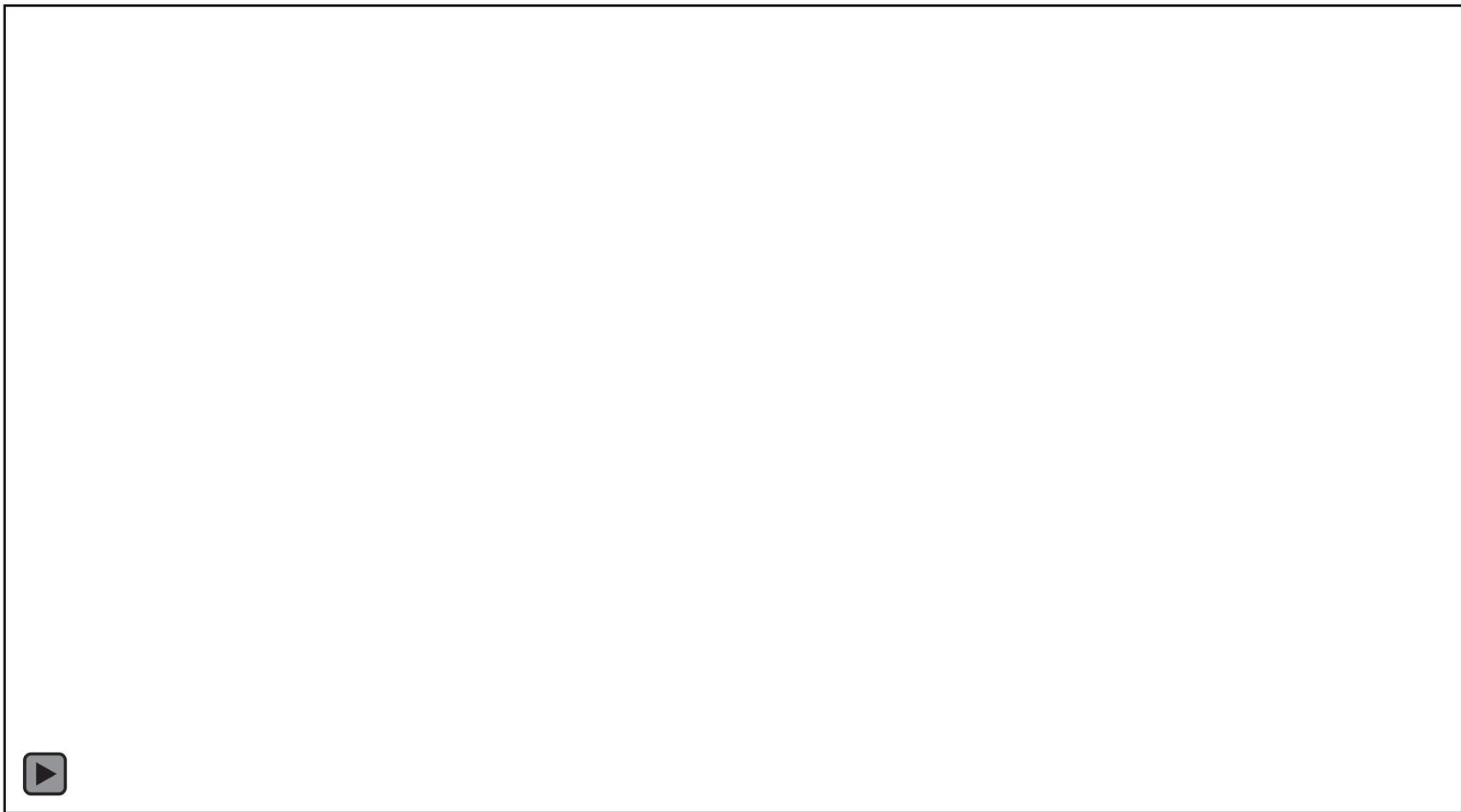
Addressing Trespassers

Education

- Internal (within Agency)
 - Learn & understand your trespassing environment (trend incidents and near misses)
- External (Public)
 - Prioritize and CONDUCT public outreach
 - Consider partnering with experts (OLI)



Addressing Trespassers





Addressing Trespassers

Enforcement

- Report Concerns
 - Work with frontline employees (“eyes and ears”) to report common trespassing locations
- Target Enforcement
 - Work with security to best address problem
- Follow-up on Concerns
 - Verify the problem is resolved and document effective practices



Part 659 – Hazard Management Approach



Part 659 requirements

- “ongoing communication and coordination relating to the identification, categorization, resolution, and reporting of hazards to the oversight agency”

In Other Words

- State (Oversight Role) and Agency work together to develop a hazard management program responsible for:
 - Identifying trespassing concerns
 - Reporting and logging trespassers concerns
 - Prioritizing the trespassing concerns
 - MITIGATE trespassing concerns



Doing Our Part

Understand your Environment

- Study trespass concerns for root-cause, and mitigate that root-cause
 - Example: Trespassers short-cut across tracks for school access, work with school for discipline support.
 - Guidance: [FRA Rail Trespasser Fatalities – Developing Demographic Profiles](#)

Safety Culture

- Get buy in on trespassing measures from entire agency (Top-Bottom & Bottom-Top)