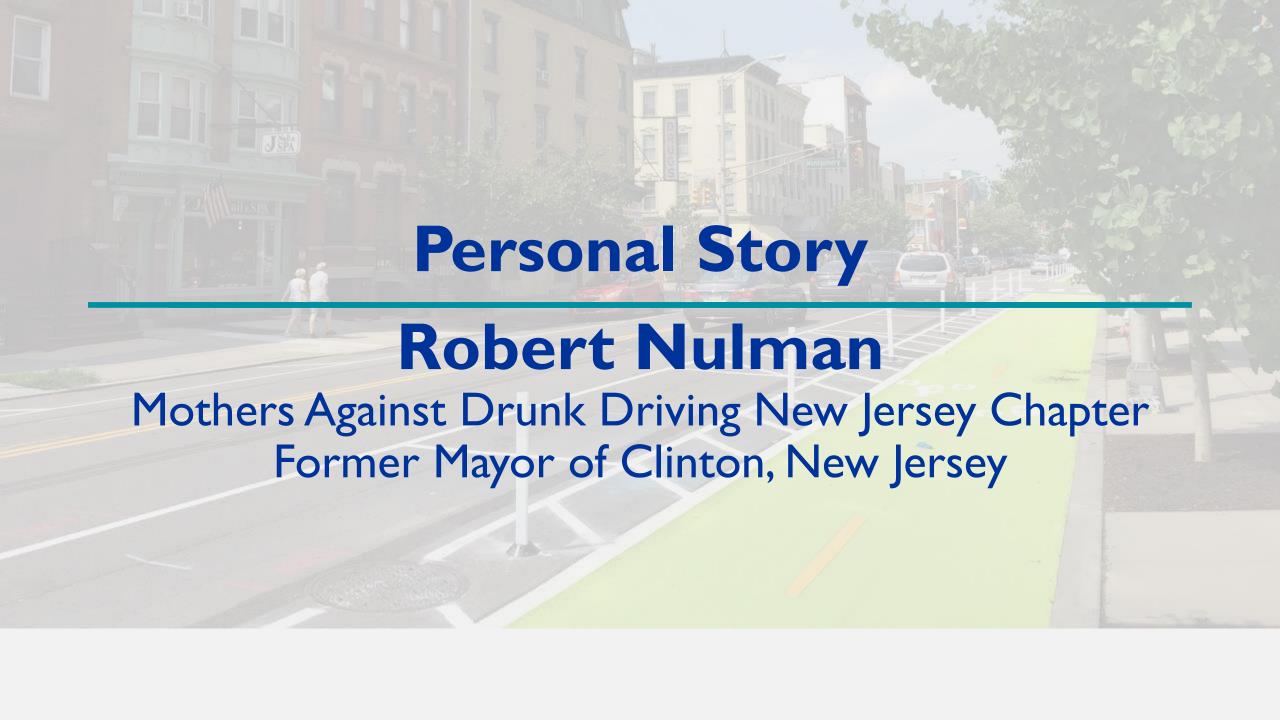
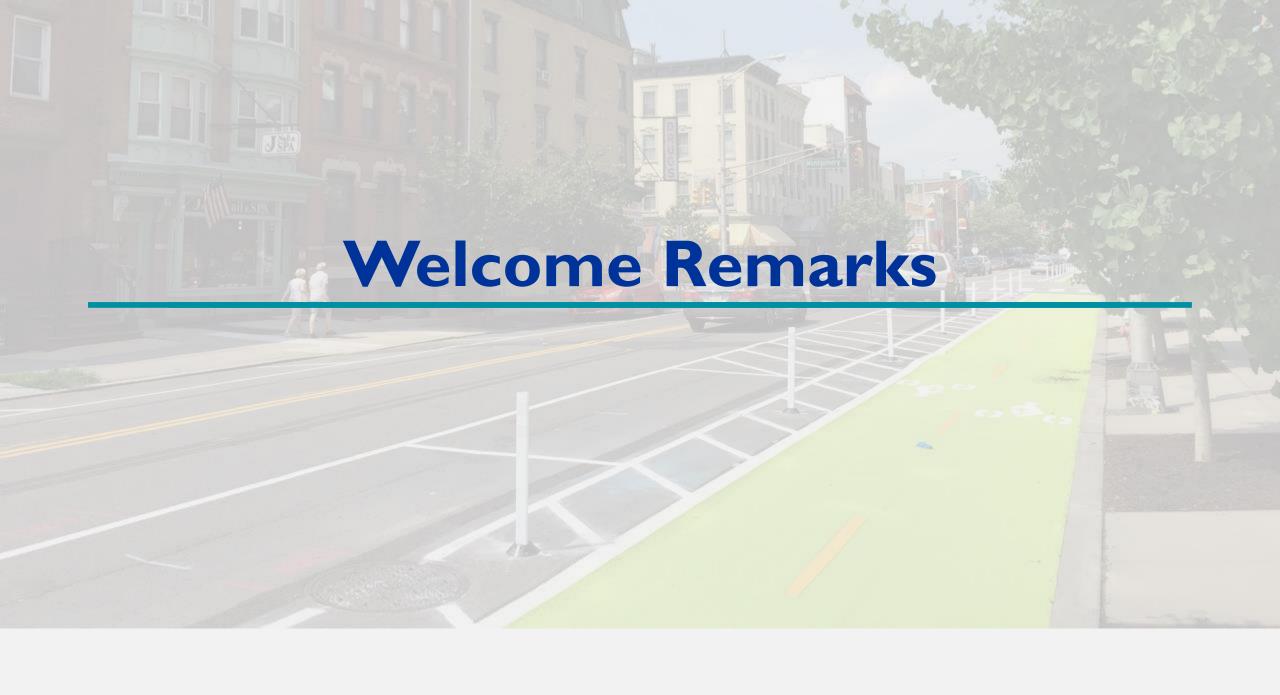


Date: November 15, 2019





LOG IN NOW

Later in this meeting, we will be using a live-polling tool to get your input. Please follow the directions below to log-in now.

- 1. Use your phone's browser to navigate to: PollEV.com/2020SHSP
- 2. Answer the question:

What do you think is the most significant road safety issue in New Jersey?

Sign into WiFi:

Network: Welcome-to-TCNJ

Username: guest2587

Password: jujemeby



What is a Strategic Highway Safety Plan?

iis

The SHSP is a five-year plan to drive down fatalities and serious injuries on all public roads.

Encompassing:



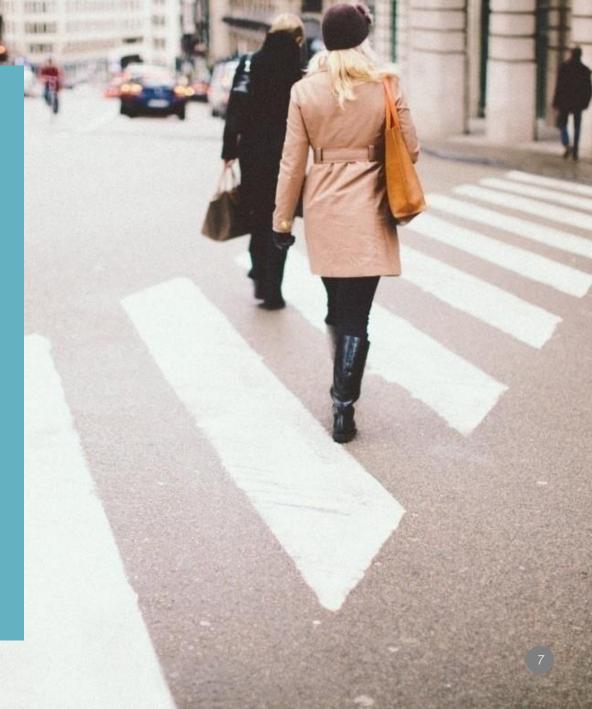








- We need to work together to reach towards zero deaths
- Better coordination to integrate many separate safety initiatives
 - Zero Death Initiatives
 - State/regional/local initiatives
 - Health Initiatives
 - Education Initiatives
- Speak with a unified voice to the public
- Federal requirement







What is an Emphasis Area?

An Emphasis Area is a safety-related focus area which will require:



to be achieved over the next five years.

Strategic Highway Safety Plan Approach

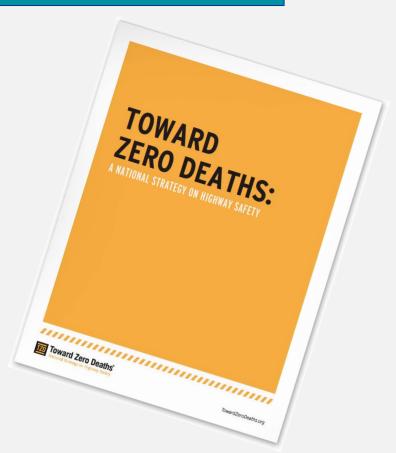


Towards Zero Deaths – <u>A National Strategy on Highway Safety</u>

"The TZD plan outlines something everyone can do - on a personal level or professional level – that will contribute to saving lives on our roads."

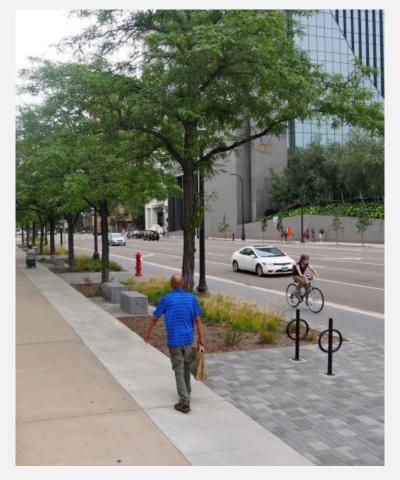
Six Focus Areas

- Safer Drivers and Passengers
- Safer Vulnerable Road Users
- Safer Vehicles
- Safer Infrastructure
- Enhanced Emergency Medical Services
- Improved Safety Management



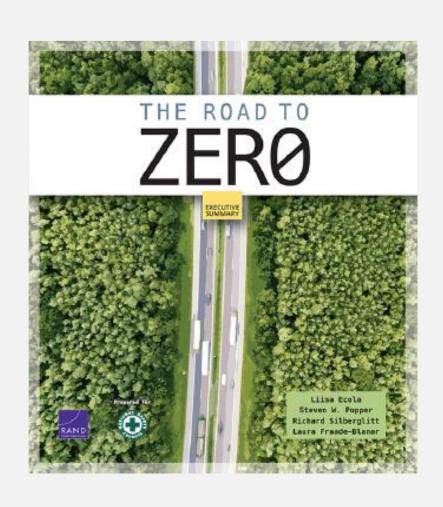
What is Vision Zero?

- A strategy to eliminate all traffic fatalities and severe injuries
- Acknowledges that traffic deaths are largely preventable
- Data driven
- Typically engages public and elected officials
- In US, has been used mostly at City level



Source: Ryan Anderson, City of Minneapolis

Road to Zero



Double Down

on What Works

Accelerate

Technology

Prioritize

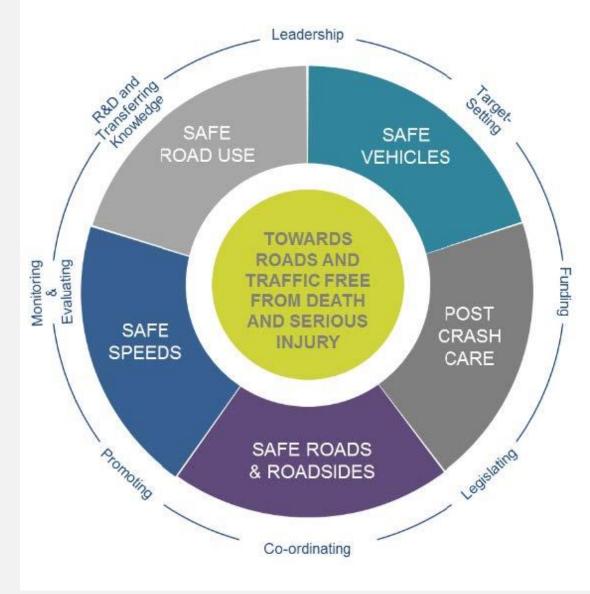
Safety

Safe System Principles

- Zero deaths and serious injury
- People make mistakes
- Shared responsibility
- Limited human tolerance to crash forces
- Solutions can be found across all pillars

Other elements

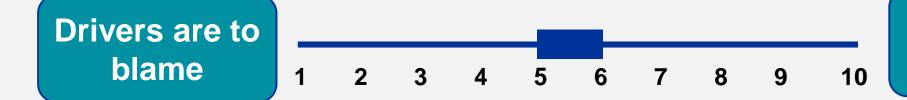
- Proactive approach
- Focus on fatal and serious injuries
- A vision directs interim strategies



Source: Safe System Factsheet - Royal Society for the Prevention of Accidents https://www.rospa.com/rospaweb/docs/advice-services/road-safety/roads/safe-system.pdf

Culture shift – where are you on the journey?

- Blame drivers → Shared responsibility
- All crashes → Focus on fatal and serious injury
- React to crashes → Proactive identification of risk
- Individual pillars → System

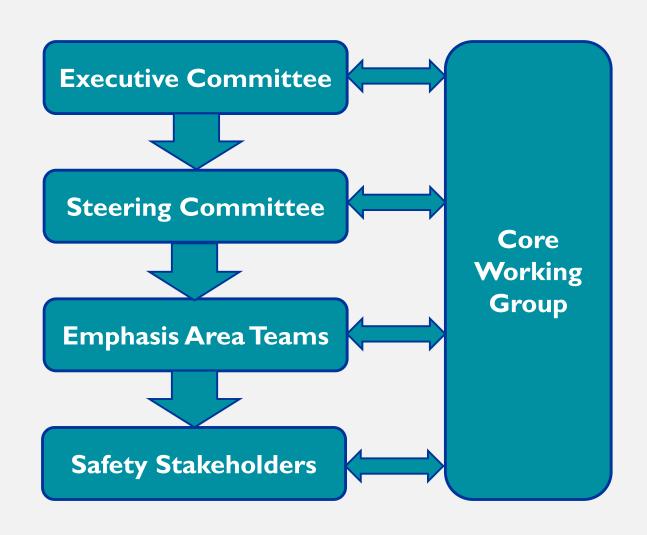


Shared responsibility





SHSP Roles and Responsibilities



SHSP Executive Committee

- NJDOT Commissioner, Chair
- DHTS Director, Vice Chair
- Governor's Office Representative
- MVC Chair and Chief Administrator
- State Police Superintendent
- Department of Health Commissioner
- Department of Education Commissioner
- Association of Counties President

- State League of Municipalities President
- State Association of Chiefs of Police President
- Federal Highway Administration New Jersey Administrator
- National Highway Traffic Administration Region 2 Administrator
- Federal Motor Carrier Safety Administration New Jersey Division Administrator

Steering Committee

Emphasis Area Teams

Safety Stakeholders

Executive Committee's Role

SHSP Development



Visible executive support



Ensure resources are available



Approve

- Performance Goals
- Emphasis Areas
- Strategies and Action Plans
- SHSP Implementation Plan
- SHSP Report

SHSP Implementation



Periodic review/evaluation of SHSP's effectiveness



Approve changes to the SHSP

Steering Committee

Emphasis Area Teams

SHSP Steering Committee

| Federal | State | County / Regional | Municipal | Non- Profit |
|---|---|--|---|----------------------|
| Federal Highway Administration National Highway Traffic Safety Administration Federal Motor Carrier Safety Administration | NJDOT NJ Division of Highway Traffic Safety NJ State Police NJ Transit NJ Turnpike Authority NJ MVC NJ Department of Banking and Insurance NJ Department of Health NJ Department of Education | Metropolitan Planning Organizations NJ County Engineering / Safety Professionals | Municipal Engineering / Safety Professionals Law Enforcement | AAA Mid- Atlantic |

Steering Committee's Role

SHSP Development



Assist in recruiting stakeholders



Provide input



Safety Summit agendas



Stakeholder engagement



Recommend

- Performance Goals
- Emphasis Areas (EA)
- EA Area Team Leaders
- EA Strategies and Action Plans
- SHSP Implementation Plan

SHSP Implementation



Monitor progress of implementation



Periodic review of SHSP performance and recommend changes

Emphasis Area Teams

- Each team will include a mix of safety stakeholders.
- Each team will have a leader.
- Teams to be determined once Emphasis Areas are established.
- Teams will focus on one or more crash contributors.









Steering Committee

Emphasis Area Teams

Safety Stakeholders

Emphasis Area Teams' Role

SHSP Development



Develop Goals and Objectives



Prioritize Strategies



Develop Action Plans







Education



Response

SHSP Implementation



Champion Action Plan Implementation

NJ 2020 SHSP Development Process

Finalized



Do you have any questions or comments?

Join by Web



- 1 Go to PollEv.com
- 2 Enter 2020SHSP
- Respond to activity

Join by Text



- 1 Text **2020SHSP** to **22333**
- 2 Text in your message





DELAWARE STRATEGIC HIGHWAY SAFETY PLAN: TOWARD ZERO DEATHS













Secretary Jennifer Cohan

November 15, 2019

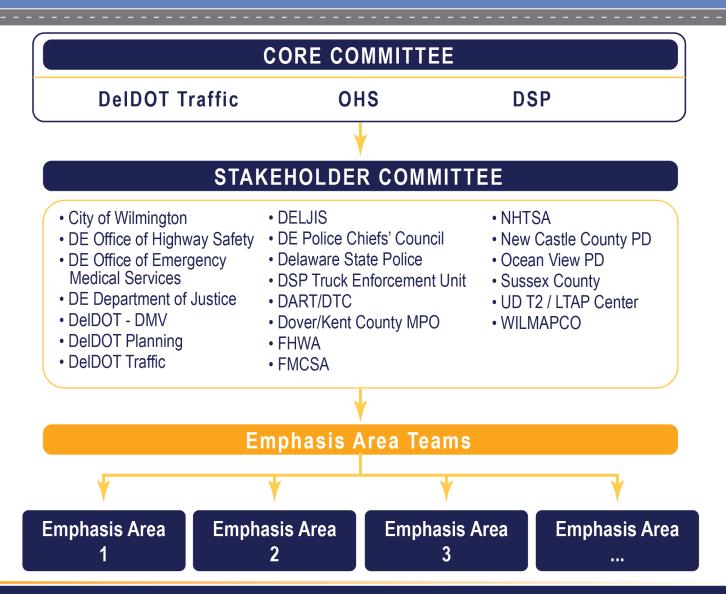
What is an SHSP?

- Comprehensive transportation safety plan with a goal of reducing highway fatalities and serious injuries on all public roads
- Establishes consistent statewide goals, objectives, emphasis areas, priorities, and countermeasures with stakeholders and other transportation plans
- Makes effective use of State, regional, and local crash data and determines priorities based on crash data
- Addresses engineering, management, operation, education, enforcement, and EMS





Stakeholder Involvement





2015 SHSP Mission & Overall Goal Statements

MISSION

The Delaware Strategic Highway Safety Plan: Toward Zero Deaths aims to eliminate fatalities and serious injuries on Delaware's roadways through a multi-agency approach that utilizes education, enforcement, engineering and emergency medical service strategies.

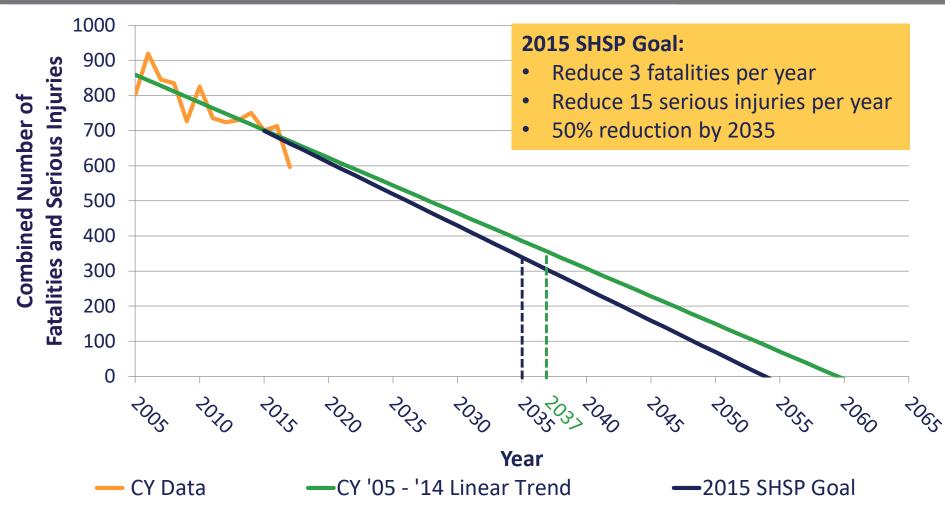
OVERALL GOAL

The goal of the Delaware Strategic Highway Safety Plan: Toward Zero Deaths is to achieve a reduction of at least 3 fatalities and 15 serious injuries annually and continue to reduce the total number of fatalities and serious injuries to achieve at least a 50 percent reduction by 2035.



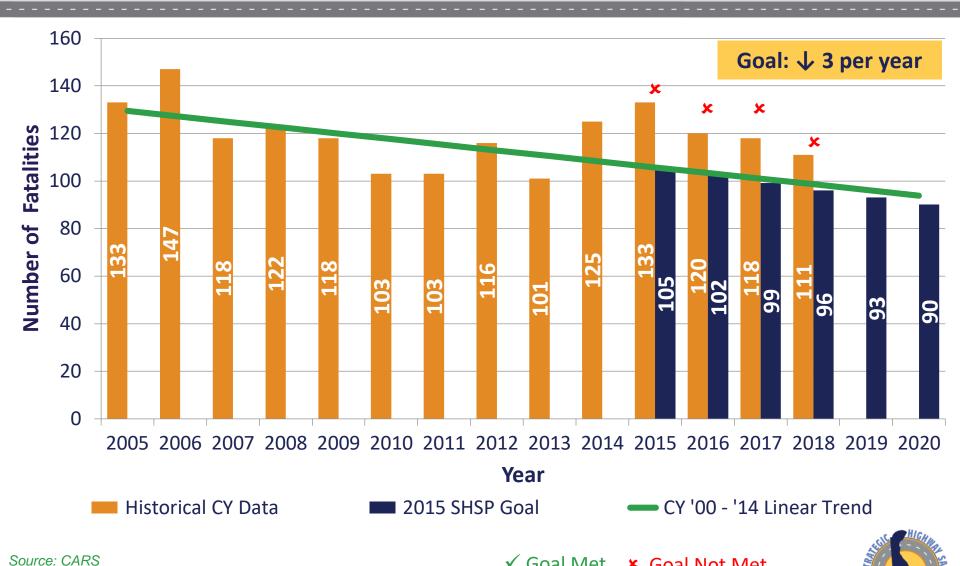
2015 SHSP Overall Goal

(Combined Fatalities & Serious Injuries)





Number of Fatalities





2018/2019 Fatalities

(as of 11/8/19)

| | 2019 | 2018 | YOY % Change | 2018 Total |
|----------------------|------|------|--------------|------------|
| Total Fatalities | 116 | 92 | +26% | 111 |
| Pers | | | | |
| Vehicle Occupants | 65 | 55 | +18% | 64 |
| Pedestrians | 25 | 16 | +56% | 24 |
| Bicyclists | 7 | 5 | +40% | 6 |
| Motorcyclists | 19 | 16 | +19% | 17 |
| Crash I | | | | |
| Curve Related | 15 | 16 | -6.3% | 17 |
| Roadway Departure | 39 | 39 | 0% | 43 |
| Intersection Related | 34 | 24 | +42% | 28 |
| Median Crossover | 2 | 3 | -33% | 3 |
| Wrong Way | 0 | 4 | -100% | 5 |
| Work Zone | 5 | 3 | +66.7% | 5 |

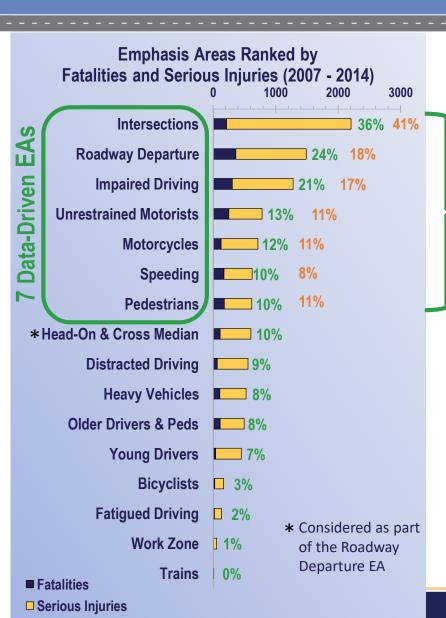
Source: OHS and DelDOT based on analysis of CARS and fatal crash notices; Current year count is unofficial and could rise as fatal investigations are completed



Emphasis Areas



Delaware's 2015 SHSP Emphasis Areas (EA)



% of Total Fatalities & Serious Injuries

Account for 94% (91%) of fatalities and 81% (75%) of serious injuries

(2007 – 2014 data)

(2015 - 2017 data)



Intersections



Improving the Design and Operation of Highway Intersections

Goal: Reduce the combined number of intersection-related fatalities and serious injuries by 35 every 5 years (7 per year) to achieve the overall goal of a 50 percent reduction by 2035.



Roadway Departure



Reducing the Frequency and Severity of Roadway Departure Crashes

Goal: Reduce the combined number of fatalities and serious injuries in roadway departure crashes by 20 every 5 years (4 per year) to achieve the overall goal of a 50 percent reduction by 2035.



Impaired Driving



Reducing Impaired Driving

Goal: Reduce the combined number of impaired driving fatalities and serious injuries by 20 every 5 years (4 per year) to achieve the overall goal of a 50 percent reduction by 2035.



Unrestrained Motorists



Goal: Reduce the combined number of unrestrained motorist fatalities and serious injuries by 10 every 5 years (2 per year) to achieve the overall goal of a 50 percent reduction by 2035.



Motorcycles



Increasing Motorcycle Safety and Awareness Goal: Reduce the combined number of motorcycle fatalities and serious injuries by 10 every 5 years (2 per year) to achieve the overall goal of a 50 percent reduction by 2035.



Speeding



Speeding

Goal: Reduce the combined number of speeding fatalities and serious injuries by 10 every 5 years (2 per year) to achieve the overall goal of a 50 percent reduction by 2035.



Pedestrians



Making Walking and Street Crossing
Safer

Goal: Reduce the combined number of pedestrian fatalities and serious injuries by 10 every 5 years (2 per year) to achieve the overall goal of 50 percent reduction by 2035.



Implementation Highlights

- Improved crash data systems (All)
- Improved study of countermeasures (All)
- Modified Hazard Elimination Program site selection process (Intersections)



- Compact roundabouts (Intersections)
- Electronic Red Light Safety Program (Intersections)
- Connected & Autonomous Vehicles (Intersections, etc.)
- High friction surface treatment (Intersections, Road Departure)
- Median guardrail (Road Departure)



Implementation Highlights

- Mumble strips (Road Departure)
- Safety message program (Various)
- Speed limit policy (Speeding)
- Road/Pedestrian Safety Audits (Pedestrians)

Rapid Flashing Beacons / Median Refuge Islands

(Pedestrians)

Barriers / Fencing (Pedestrians)

Road Diets (Pedestrians, etc.)





Next Steps

Strategic Highway Safety Plan

- Continue to implement roadway departure countermeasures
- 2019: SHSP Core Agencies (DelDOT, OHS, DSP) initiated 2020 SHSP development
- Spring 2020: Crash data review
- September 2020: Adopt 2020 SHSP



Thank You



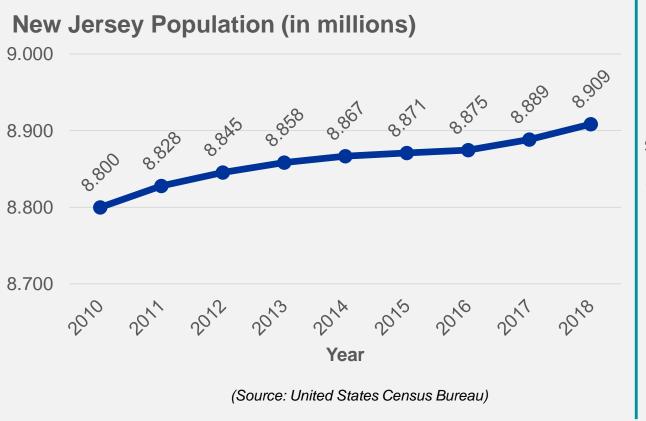


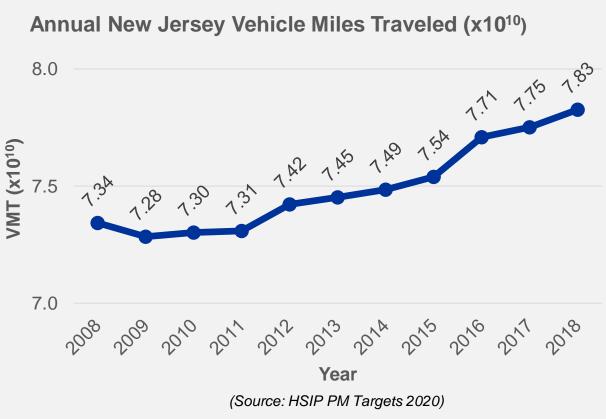
What do you think is the most significant road safety issue in New Jersey?





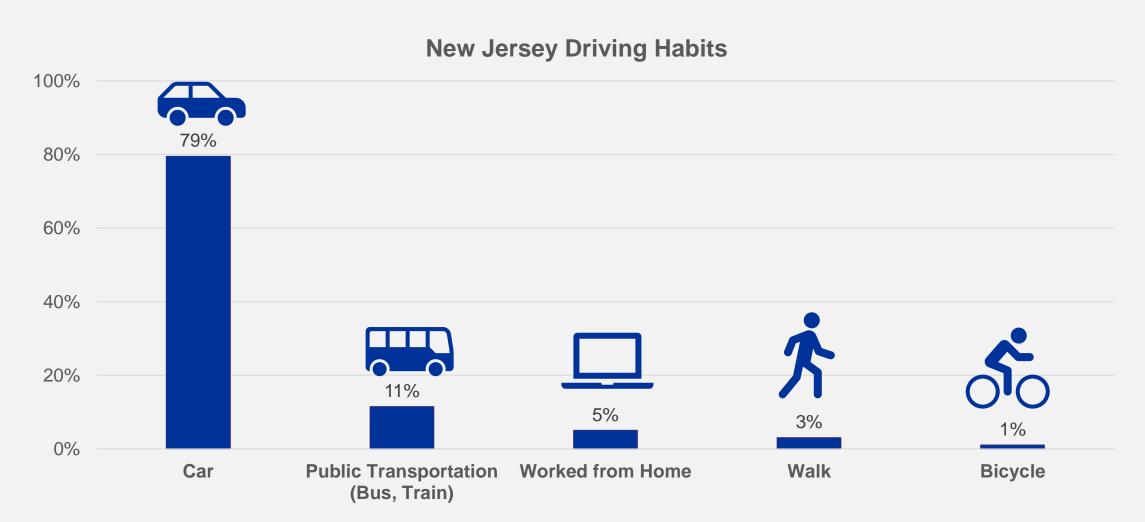
Safety Influence Factors





2034 New Jersey Population Projection - 9.73 Million

Safety Influence Factors

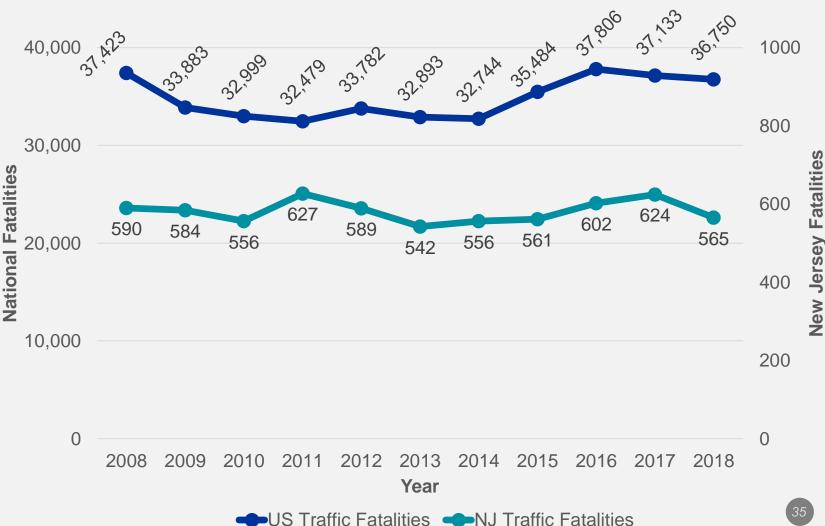


How many traffic fatalities were there in New Jersey in 2018?



Safety Data Trends – Traffic Fatalities





Safety Data Trends – Fatality Rate



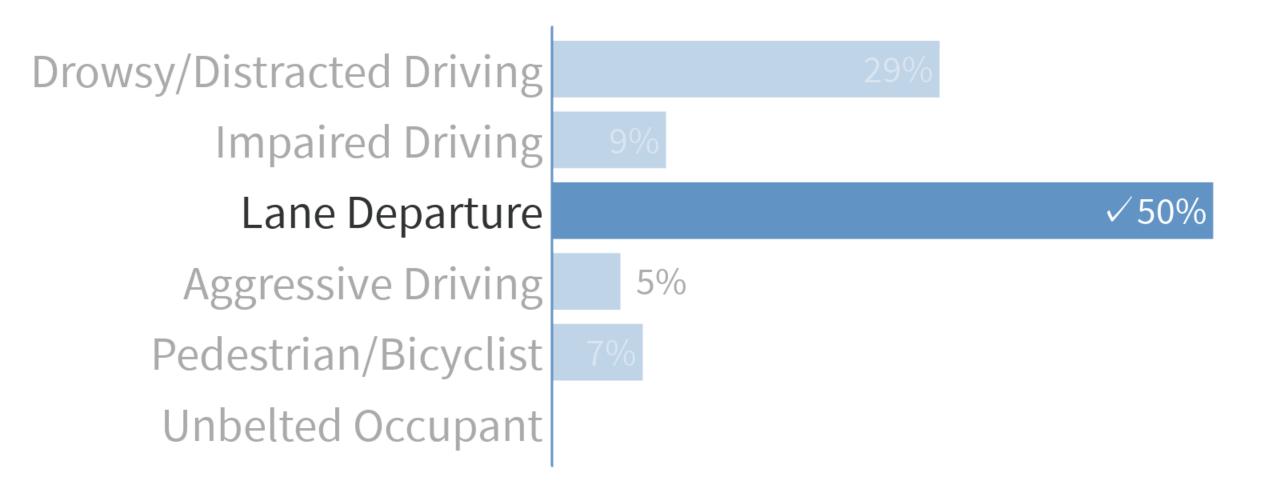
→US Traffic Fatality Rate →NJ Traffic Fatality Rate (Source: NHTSA, HSIP PM Targets 2020)

Safety Data Trends – Performance Goals





For the years 2014 - 2018, what Emphasis Area accounted for the most crashes?

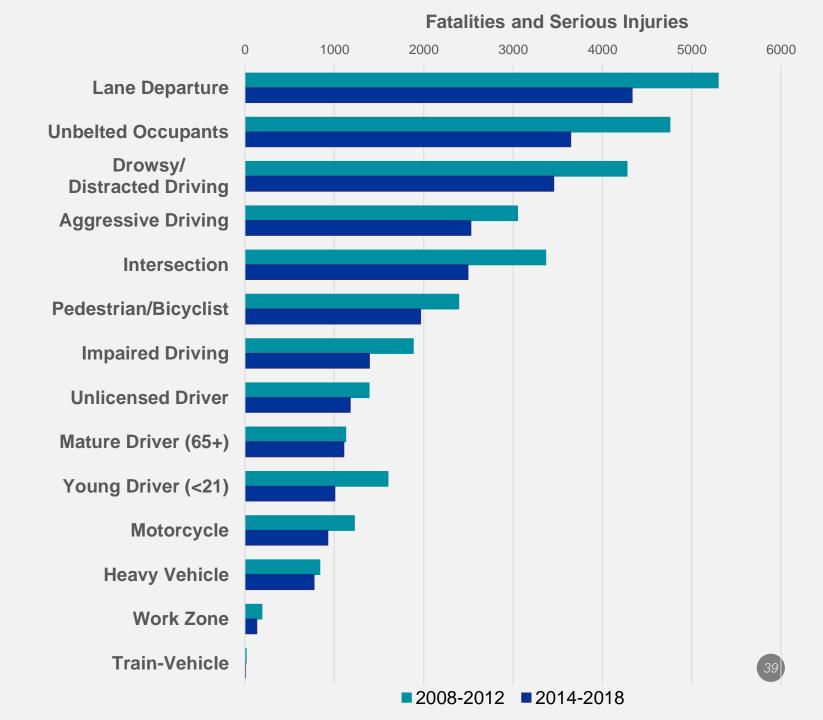


2015 SHSP Emphasis Areas

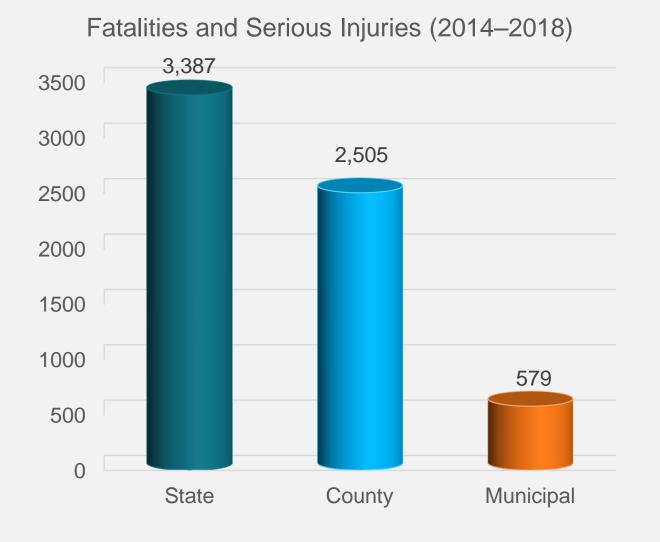
Highest Areas:

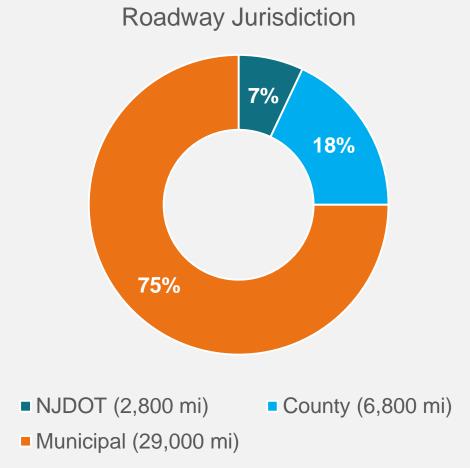
- Lane Departure
- Unbelted Occupants
- Drowsy/Distracted Driving
- Aggressive Driving
- Intersection
- Pedestrian/Bicyclists





Fatal & Serious Injuries by Roadway System (2014-2018)





Emphasis Areas Crash Trends - NJ Fatalities & Serious Injuries



~51% Lane Departure



771 ~33% Aggressive Driving



~47% Unbelted Occupants





~45% Drowsy/
Distracted **Driving**



~32% Intersections

Emphasis Areas Crash Trends – NJ Fatalities & Serious Injuries



~18% Impaired Driving



~12% Motorcycle



~14% Mature Driver (65+)



A ~2% Work Zone



~13% Young Driver (<21)



~10% Heavy Vehicle

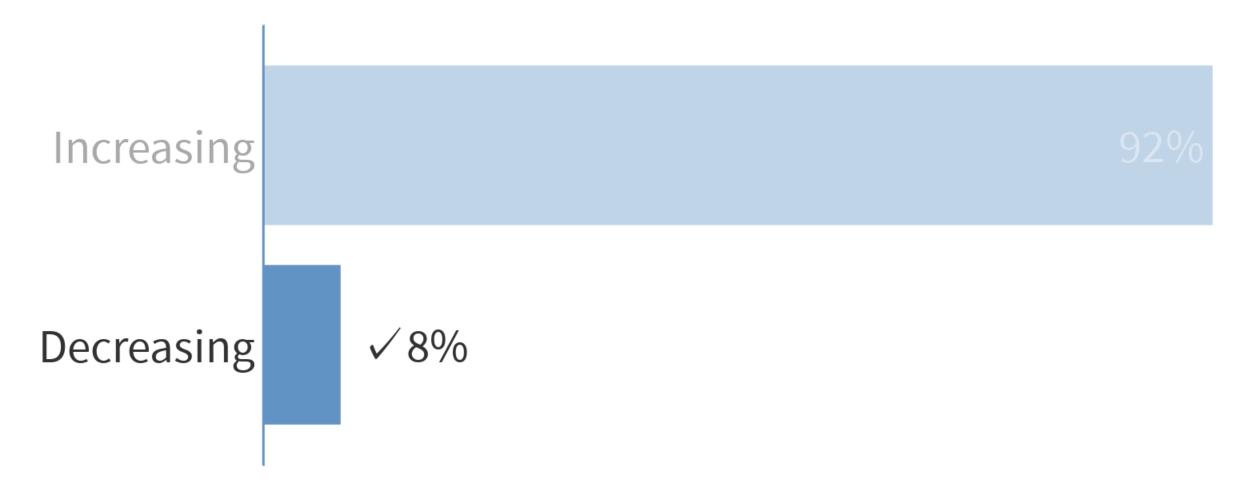


~15% Unlicensed



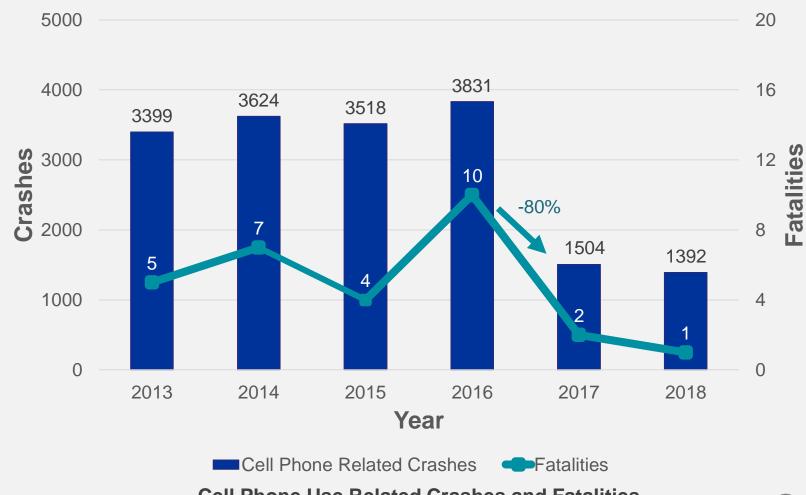
~0.1% Train-Vehicle

Are cell phone usage related crashes increasing or decreasing?



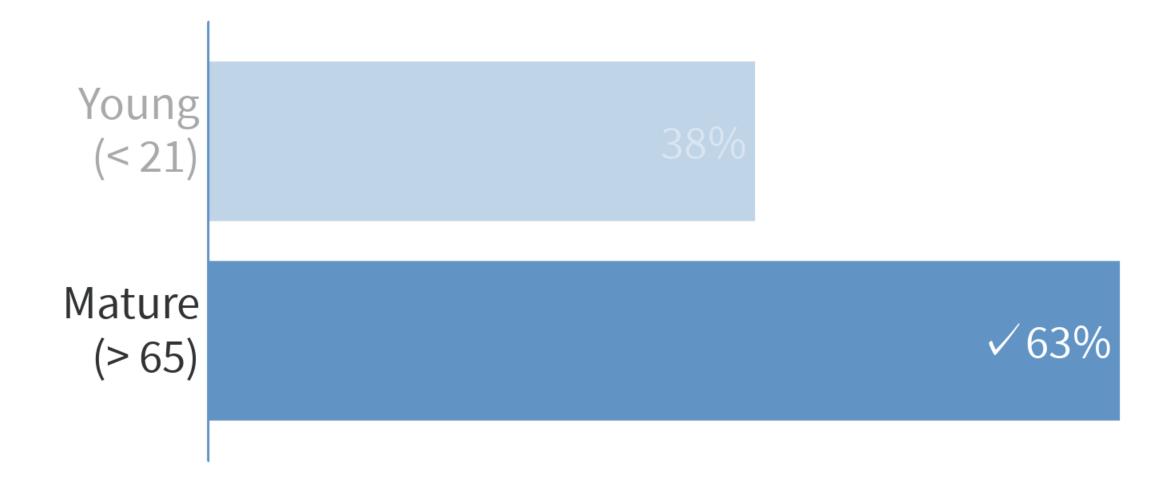
Safety Data Trends - Cell Phone Usage Crash Trends





Cell Phone Use Related Crashes and Fatalities
(Source: NJDOT)

In New Jersey, is the number of crash fatalities higher for young drivers (< 21) or mature drivers (> 65)?



Safety Data Trends – Mature and Young Driver Crash Trends

Mature Drivers (65+)
~23% of Fatalities
1.2 Million Licensed Drivers

2014

2015





2016

Year

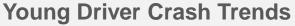
2017

2018

Mature Driver Crash Trends

Young Drivers (<21)
~11% of Fatalities
237K Licensed Drivers



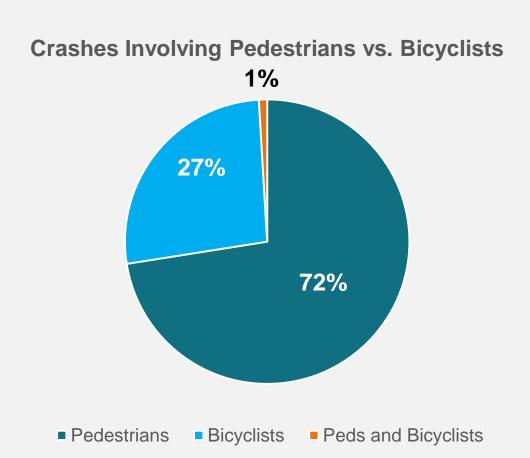




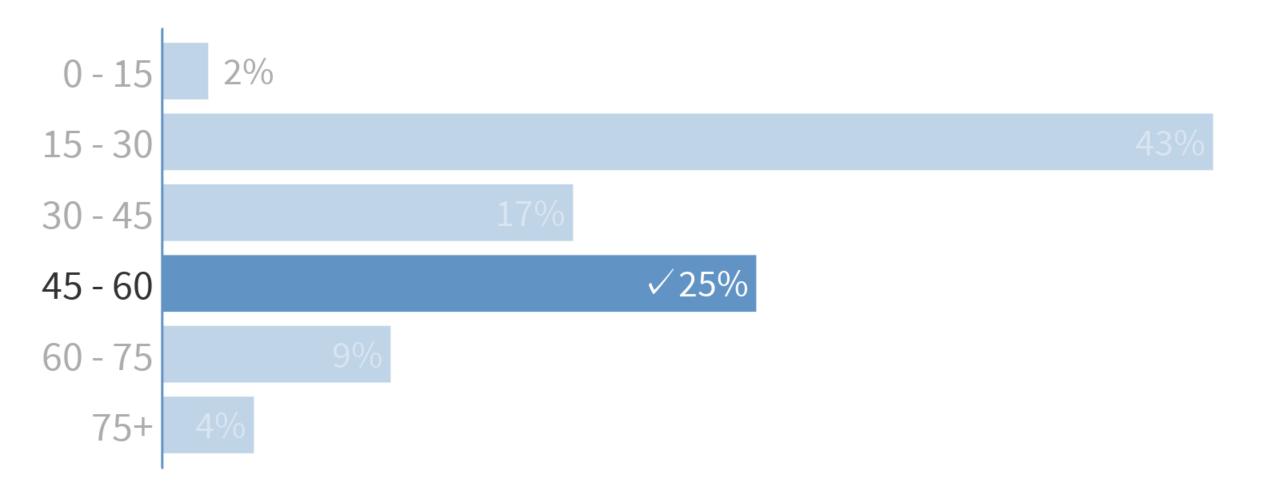
Safety Data Trends – Pedestrian and Bicyclist Crashes

Years 2013 - Present

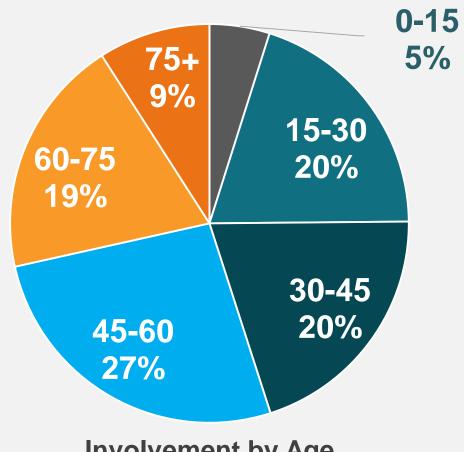
- 30,318 Ped Crashes
- 11,106 Bike Crashes
- 393 Ped and Bike Crashes



Pedestrian/Bicycle fatalities and serious injuries are highest for which age group?



Safety Data Trends – Pedestrian and Bicyclist Fatalities and Serious Injuries

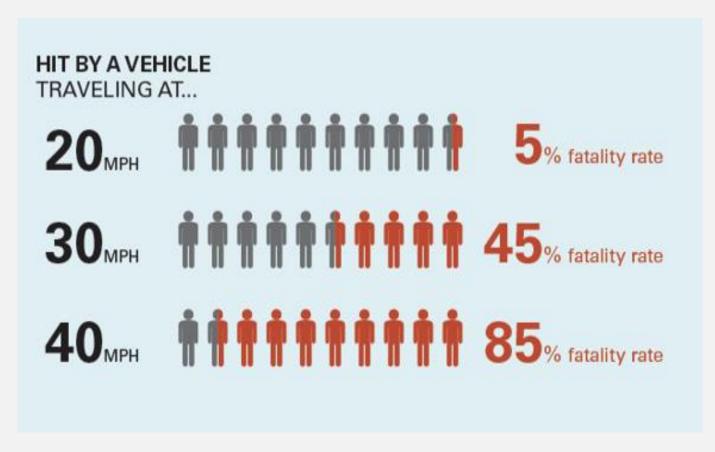


Involvement by Age

27% Fatalities and Serious Injuries – Ages 45-60

(Source: Safety Voyager)

Safety Data Trends - Pedestrian and Bicyclist Crashes



(Source: New Jersey Complete Streets Design Guide)

Economic Cost of Crashes



~\$3.8 Billion

2018 NJ Crash Cost (Fatalities and Serious Injuries)

~\$11.3 Million per Fatal Crash

Federal Highway Administration National Comprehensive Crash Cost

Traffic Fatalities and Serious Injuries: A Public Health Issue

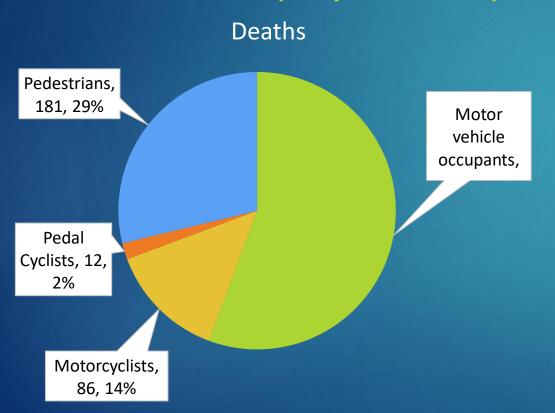
Maria Baron

Research Scientist, NJ Department of Health

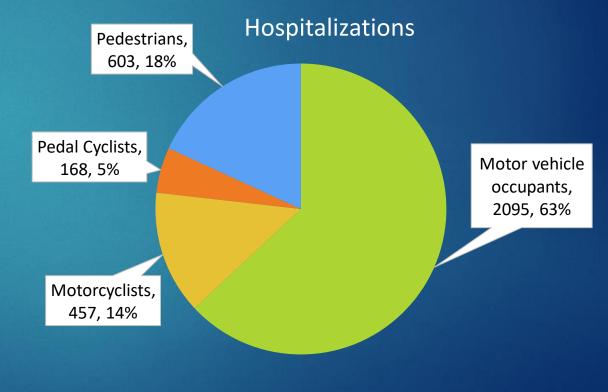


Traffic-related fatalities & hospitalized injuries, NJ, 2017

629 Deaths (6.6 per 100,000)



3,323 Hospitalizations (35.9 per 100,000)



Crashes are considered "Traffic" when they occur on public roadways; assumed unless otherwise specified.



The cost of traffic-related injury, NJ, 2017

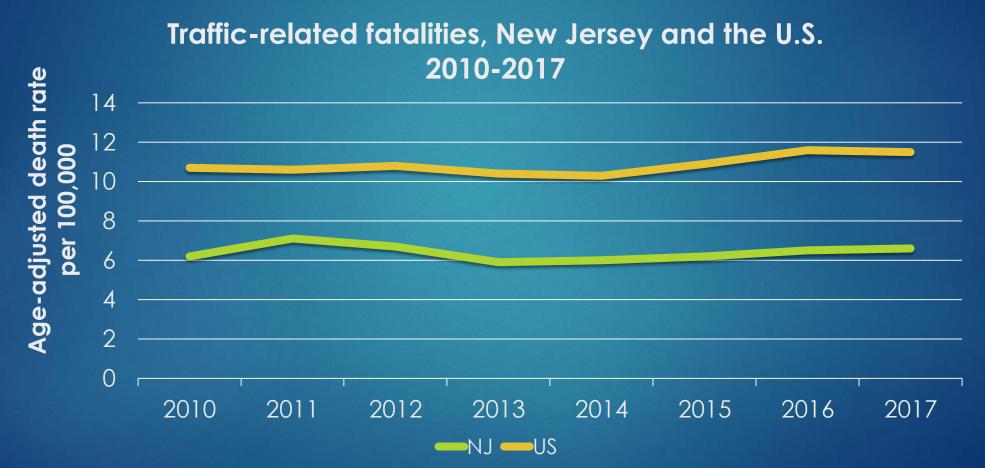
| Highest | Sex/Age Group | Count | Rate per 100,000 |
|-----------------------|---------------|-------|------------------|
| Death count | Males 25-34 | 93 | 16.0 |
| Death rate | Males 75+ | 46 | 19.2 |
| Hospitalization count | Males 25-34 | 359 | 61.8 |
| Hospitalization rate | Females 75+ | 256 | 68.7 |

| Cost per hospitalization | | | | |
|--------------------------|-------|---------------------------|---------------|--|
| Discharge Status | Count | Average charge per person | Total charges | |
| Non-fatal discharges | 3,323 | \$140,534 | \$466,995,457 | |
| In-hospital deaths | 97 | \$302,603 | \$29,352,524 | |



The Good News

NJ's traffic-related fatality rate (6.6 in 2017): among lowest in U.S. and stable over time

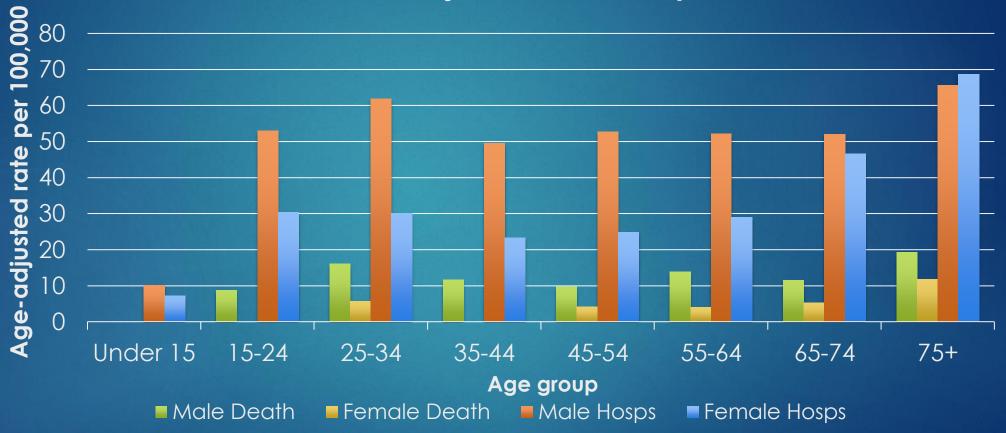


97% of those injured seriously enough in crashes to require inpatient care are discharged *alive* from NJ hospitals

Traffic-related injuries by age and gender



Traffic-related injuries, New Jersey, 2017



Rates of fatal and non-fatal traffic-related injuries increase dramatically at age 15 to 24 and again at age 65, particularly non-fatally injured females involved in crashes. Males generally have higher injury and death rates due to motor vehicle crashes than females at any age.



Gender differences by position



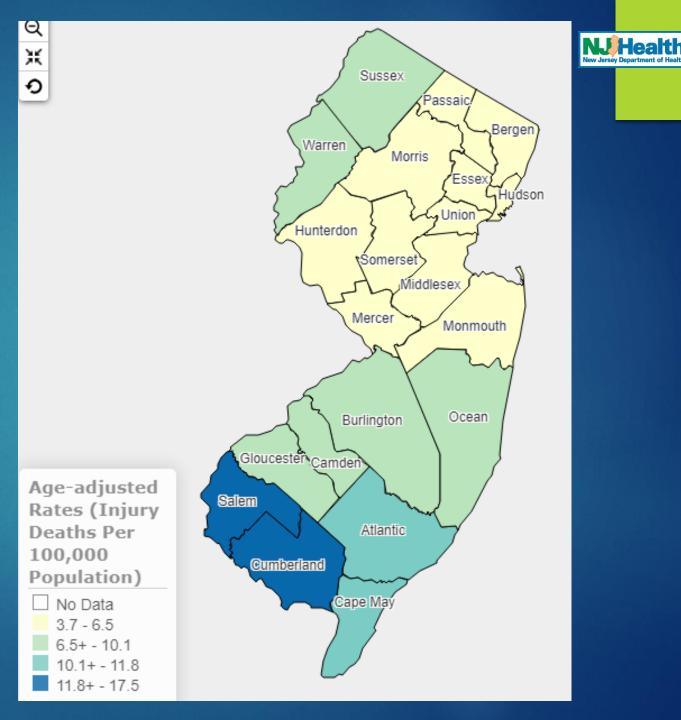


Males are more likely to die from injuries in general, particularly in younger age groups.

Data not collected on death certificate for risk factors such as drinking/drugged driving, seat belt use, helmet use.

Motor vehiclerelated traffic death rates by county

New Jersey 2015-2017





Strengths and limitations of data

- ✓ Fatalities are captured for all New Jersey residents no matter where the injury occurred
- Incomplete reporting on motor vehicle occupant details in death and hospital data (drivers, passengers)
- Need better injury location reporting on the death certificate; no injury location reported in UB data
- ✓ Inpatient hospitalizations are reported for all New Jersey acute care facilities
- Excludes specialty hospitals, rehabs, VA medical centers
- Incomplete reporting in any given year due to technical issues may bias results



Thank you!

For more data, visit nj.gov/health/shad

For questions, email chs@doh.nj.gov

Do you have any questions or comments?

Join by Web



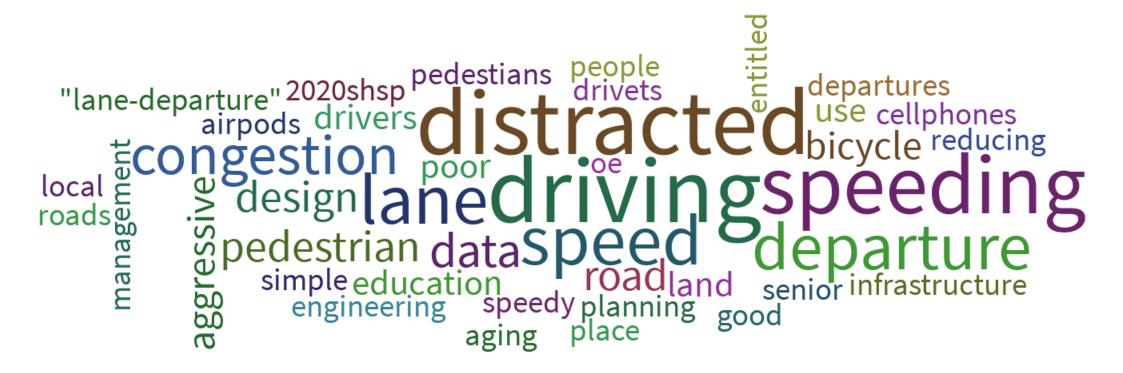
- 1 Go to PollEv.com
- 2 Enter 2020SHSP
- Respond to activity

Join by Text



- 1 Text **2020SHSP** to **22333**
- 2 Text in your message

Having seen and heard all of this information, what do you think is the most significant road safety issue in New Jersey?





NJ 2020 SHSP Stakeholder Involvement

Executive Committee

Steering Committee

Emphasis Area Teams

Safety Stakeholders

Safety Summit 1

Input on most important areas of focus

Other Stakeholders we should be involving

Safety Summit 2

Participate in Emphasis Area Initial Discussions

Emphasis Area Team Meetings

Goals,
Objectives,
Strategies and
Action Plans

Safety Summit 3

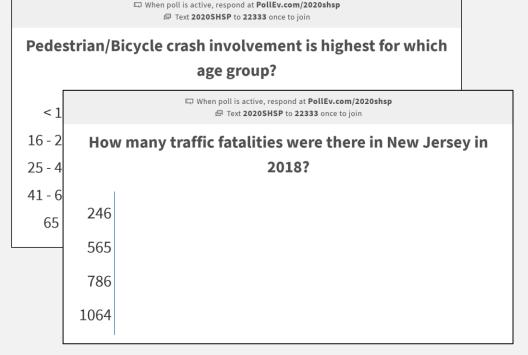
Implementation and Evaluation

Safety Stakeholders' – How to Communicate

- **Executive Committee**
- **Steering Committee**
- **Emphasis Area Teams**
- **Safety Stakeholders**

- Live Polling
- Comment Cards
- Talk to Steering Committee Members
- Website

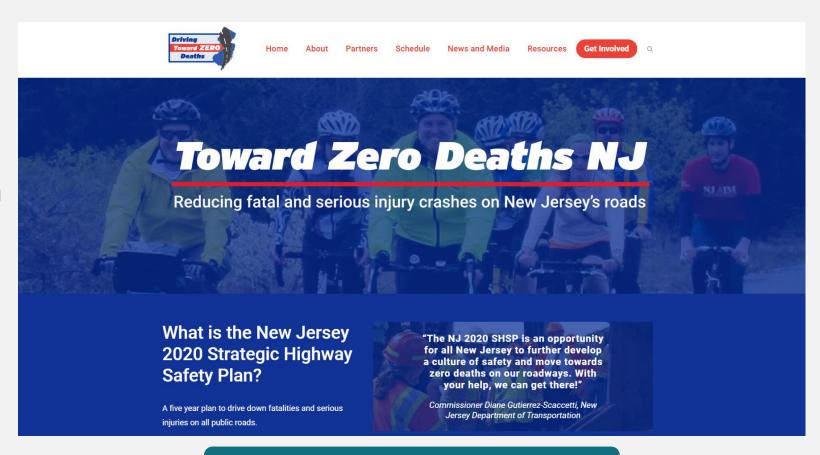




2020 SHSP Stakeholder and Public Outreach

Website

- Central hub for public
- Chart progress
- Highlight collaboration and implementation
- Information on how to get involved



SafeRoadsForAllNJ.com

NJ 2020 SHSP Schedule



Do you have any questions or comments?

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