Presentation Overview

- SHSP Introduction
- SHSP Committee Structure
- SHSP Update Process
- 2021-2025 SHSP Goal and Objective
- 2021-2025 SHSP Emphasis Areas
- 2021-2025 SHSP Evaluation & Implementation
- Questions and Answers

2021-2025 SHSP: deldot.gov/Programs/DSHSP/
What is an SHSP?

- Comprehensive, multi-year, **data driven** 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 crash data to determine priorities

- Addresses **4 E’s of Highway Safety**
  - Engineering
  - Education
  - Enforcement
  - Emergency Medical Services

2021-2025 SHSP: deldot.gov/Programs/DSHSP/
SHSP History

- SAFETEA-LU, adopted in 2005, established requirements for each state to develop an SHSP
- Delaware implemented its first SHSP in 2006
  - Plan updates in 2008, 201 and 2015
- March 2015, the national Toward Zero Deaths vision was launched
  - Delaware adopted this vision in the 2015 SHSP update
2021-2025 SHSP Update Process

**Plan Development...**

- **Crash Data Analysis, Goal Setting and Emphasis Area Selection**
  - Spring 2020
- **Virtual Public Workshop**
  - June 2020
- **Emphasis Area Team Meetings**
  - August 2020
- **Develop 2021-2025 SHSP**
  - Fall 2020
- **Adopt 2021-2025 SHSP**
  - December 2020

**Plan Implementation...**
## Delaware SHSP Committee

### Core Committee

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<thead>
<tr>
<th>DelDOT</th>
<th>OHS</th>
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### Stakeholder Committee

- City of Wilmington
- DART/DTC
- DE Department of Education
- DE Department of Health and Social Services
- DE Department of Justice
- DE Office of Highway Safety
- DE Office of Emergency Medical Services
- DE Police Chiefs' Council
- DE State Fire Chiefs' Association
- DE State Fire School
- Delaware State Police
- DelDOT - Department of Motor Vehicles
- DelDOT Planning
- DelDOT Project Development
- DelDOT Traffic
- DELJIS
- Dover/Kent County MPO
- DSP Truck Enforcement Unit
- FHWA
- FMCSA
- Kent County Department of Planning Services
- New Castle County Department of Land Use
- New Castle County PD
- NHTSA
- Salisbury/Wicomico MPO
- Sussex County
- UD T² / LTAP Center
- WILMAPCO

2021-2025 SHSP: deldot.gov/Programs/DSHSP/
June 2020 Virtual Public Workshop Summary

- Invited attendees:
  - SHSP Stakeholder Committee
  - Advocacy Groups
  - General Public

- During 30-day comment period, 66 comments submitted via SurveyMonkey form. No comments submitted via mail or email.
Goal and Overall Objective Statements

**Goal**

The Delaware Strategic Highway Safety Plan: Towards 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 Objective**

Delaware’s 2021-2025 SHSP objective is to reduce fatalities and serious injuries by 15% over the next five years to ultimately reach the goal of zero fatalities and serious injuries on Delaware’s roadways.

- Objectives are generally measurable, time-based and action oriented
- Core Committee Agencies agreed on an aggressive, measurable objective for the next five years, measured from the average of 2015-2019 crash data

2021-2025 SHSP: deldot.gov/Programs/DSHSP/
Delaware’s 2021-2025 SHSP objective is to reduce fatalities and serious injuries by 15% over the next five years to ultimately reach the goal of zero fatalities and serious injuries on Delaware’s roadways.
Overall Objective

Statewide Fatalities and Serious Injuries (5-Year Rolling Averages)

- Five-year rolling average is the average of five, individual, consecutive points of data that provides a better understanding of the overall data over time without eliminating years with significant increases or decreases.

2021-2025 SHSP: deldot.gov/Programs/DSHSP/
Introduction into Emphasis Areas

- Focus areas determined by crash characteristics or other data elements
  - Strategically direct safety resources to address the largest safety problems
  - Allows for a data driven approach for spending limited safety funds
- 22 potential emphasis areas for consideration by states
2021-2025 SHSP Emphasis Areas

- Data-Driven EA’s Account for
  - 94% of all fatalities
  - 85% of all serious injuries
- New EA: Distracted Driving

2021-2025 SHSP: deldot.gov/Programs/DSHSP/
Strategies and Actions

- Strategy Development
  - Best practices from FHWA, NHTSA, other states, etc.
  - Continuation of proven safety countermeasures
  - Virtual Public Workshop
  - Core agency initiatives

- Plan identifies both strategies and actions (New for 2021-2025 Plan)

Example Strategy/Action Sheet from 2021-2025 SHSP

Statewide Overall Strategies

1. Implement statewide programs and policies that are aimed at improving funding, safety culture and agency practices in an effort to reduce fatalities and serious injuries.
   - Examine the feasibility of establishing a dedicated Highway Patrol.
   - Coordinate with municipalities to discuss the feasibility of developing Local Road Safety Plans.
   - Educate the public and legislators on various safety countermeasures, specific crash problems and transportation safety challenges.
   - Examine the feasibility of establishing a data-driven "Safety Corridor" program that provides for increased penalties for various moving violations targeted at driver behavioral improvements.

2. Implement statewide programs and policies that provide for the development of infrastructure related to Connected and Autonomous Vehicles (CAV) and supports Cooperative Automated Transportation (CAT).
   - Begin implementing safety-related recommendations from the CAV Council to prepare for CAV in Delaware.
   - Review national strategies and best practices regarding CAV and CAT and begin implementation of those strategies that will have the most benefit on crash reduction and driver behavior improvements.
   - Research, and where appropriate, implement policies and/or adopt specifications for enhanced pavement markings to support the implementation of CAV.

3. Improve linkages between land use and transportation to improve safety for all road users.
   - Support legislation that requires land use authorities to enter into agreements with DelDOT that link and comprehensively coordinate future land use and transportation decisions.

2021-2025 SHSP: deldot.gov/Programs/DSHSP/
Statewide Crash Trends

Statewide Annual Observed Fatalities and Serious Injuries

Manner of Impact

Roadway Functional Classification
Statewide Strategies

- Implement statewide programs and policies that are aimed at improving funding, safety culture and agency practices in an effort to reduce fatalities and serious injuries.
- Implement statewide programs and policies that provide for the development of infrastructure related to Connected and Autonomous Vehicles (CAV) and supports Cooperative Automated Transportation (CAT).
- Improve linkages between land use and transportation to improve safety for all road users.
**EA 1: Intersections**

**Intersection Fatalities and Serious Injuries (5-Year Rolling Averages)**

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<td>224</td>
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**2015 to 2019 Intersection Fatalities & Serious Injuries**

- 74% occurred in urban areas
- 60% occurred between 1 PM and 10 PM
- 56% were male
- 53% were angle crashes
- 53% occurred in New Castle County
- 51% occurred at unsignalized intersections
- 47% occurred along divided roadways
- 36% occurred at unsignalized intersections along undivided roadways
- 35% occurred on principal arterial roadways
- 21% were 20 to 29 years old
- 13% occurred on wet/snowy/icy roadways
- 13% occurred during dark, unlit conditions

**Intersection Emphasis Area Overlap with Other Emphasis Areas (2015-2019 Crashes)**

- **Distracted Driving**: 20%
- **Impaired Driving**: 12%
- **Roadway Departure**: 0%
- **Pedestrians**: 7%
- **Motorcycles**: 13%
- **Unrestrained Motorists**: 7%
- **Speeding**: 3%
EA 1: Intersections – Strategies

- Reduce the frequency and severity of intersection crashes through operational, geometric and traffic control device improvements.
- Reduce the frequency and severity of intersection crashes using innovative technology and automated enforcement practices.
- Develop and distribute consistent public information messaging to educate the public on traffic laws, new traffic control devices and intersection safety.
- Implement policies and guidelines targeting safety improvements at intersections

2021-2025 SHSP: deldot.gov/Programs/DSHSP/
EA 2: Distracted Driving

Distracted Driving Fatalities and Serious Injuries (5-Year Rolling Averages)

2015 to 2019 Distracted Driving Fatalities & Serious Injuries
- 69% occurred in urban areas
- 61% occurred along arterial roadways
- 45% occurred in New Castle County
- 44% were rear end crashes
- 35% were 20 to 39 years old
- 31% occurred during dark/dawn/dusk conditions
- 17% were rear end crashes between 2 PM and 6 PM
- 12% occurred on wet/snowy/icy roadways

Distracted Driving Emphasis Area Overlap with Other Emphasis Areas (2015-2019 Crashes)

- INTERSECTIONS: 34% (40% Serious Injuries)
- DISTRACTED DRIVING: 22% (8% Serious Injuries)
- IMPAIRED DRIVING: 19% (13% Serious Injuries)
- ROADWAY DEPARTURE: 8% (5% Serious Injuries)
- PEDESTRIANS: 5% (8% Serious Injuries)
- MOTORCYCLES: 5% (6% Serious Injuries)
- UNRESTRAINED MOTORISTS: 21% (8% Serious Injuries)
- SPEEDING: 1% (2% Serious Injuries)
Develop and distribute consistent public information messages to increase public awareness of the laws and dangers of distracted driving.

Increase distracted driving enforcement programs.

Support legislative action to strengthen distracted driving efforts.

Improve roadway infrastructure to minimize the consequences of distracted driving.

Improve data collection and monitoring of distracted driving trends.
EA 3: Impaired Driving

**Impaired Driving Fatalities and Serious Injuries (5-Year Rolling Averages)**

<table>
<thead>
<tr>
<th>Year</th>
<th>Observed Fatalities</th>
<th>Observed Serious Injuries</th>
<th>Fatalities Objective</th>
<th>Serious Injuries Objective</th>
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<td>2024</td>
<td>96</td>
<td>12</td>
<td>113</td>
<td>106</td>
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</tbody>
</table>

**2015 to 2019 Impaired Driving Fatalities & Serious Injuries**
- 69% were male
- 64% occurred on a Friday, Saturday, or Sunday
- 59% occurred in urban areas
- 53% occurred along collector or local roadways
- 53% were impaired persons
- 45% occurred during dark (unlit) conditions
- 42% occurred in New Castle County
- 42% occurred from 7 PM to 3 AM on a Friday, Saturday, or Sunday
- 39% occurred in roadway departure crashes
- 29% were 20 to 29 years old
- 29% occurred on principal arterials
- 18% occurred on rural collector/local roads during dark (unlit) conditions

**Impaired Driving Emphasis Area Overlap with Other Emphasis Areas (2015-2019 Crashes)**

- Intersections: 32%
- Distracted Driving: 11%
- Impaired Driving: 33%
- Roadway Departure: 2%
- Pedestrians: 10%
- Unrestrained Motorists: 19%
- Speeding: 6%
EA 3: Impaired Driving – Strategies

- Develop and distribute consistent public information messages to increase public awareness of the laws and dangers of impaired driving.
- Strengthen impaired driving enforcement programs.
- Install proven engineering treatments to mitigate the consequences of impaired driving.
- Improve data collection and monitoring of impaired driving trends.

[Website: deldot.gov/Programs/DSHSP/]
EA 4: Roadway Departure

Roadway Departure Fatalities and Serious Injuries (5-Year Rolling Averages)

2015 to 2019 Roadway Departure Fatalities & Serious Injuries
- 80% occurred in single vehicle crashes
- 70% were male
- 60% occurred along collector and local roadways
- 57% occurred on a Friday, Saturday, or Sunday
- 52% occurred in rural areas
- 48% occurred within a horizontal curve
- 40% occurred during dark (unlit) conditions
- 30% were 20 to 29 years old
- 20% occurred on wet/snowy/ice roadways
- 20% occurred between 11 PM and 2 AM
- 20% involved striking a tree

Roadway Departure Emphasis Area Overlap with Other Emphasis Areas (2015-2019 Crashes)

- Intersections: 0%
- Distracted Driving: 17%
- Impaired Driving: 33%
- Pedestrians: 1%
- Motorcycles: 10%
- Unrestrained Motorists: 18%
- Speeding: 14%

Combined Fatalities and Serious Injuries
EA 4: Roadway Departure – Strategies

- Reduce the likelihood of vehicles leaving a travel lane through the implementation of engineering countermeasures.
- Minimize the consequence of leaving the roadway by improving the roadside environment.
- Develop and distribute consistent public information messaging to educate the public about safe driving practices that reduce the frequency of roadway departure crashes.
- Develop policies and guidelines to implement effective safety measures to reduce the frequency and severity of roadway departure crashes.
- Improve roadway departure crash data collection and analysis to enhance the identification of high-risk corridors and high-risk driving behaviors.

2021-2025 SHSP: deldot.gov/Programs/DSHSP/
EA 5: Pedestrians

Pedestrian Fatalities and Serious Injuries (5-Year Rolling Averages)

2015 to 2019 Pedestrian Fatalities & Serious Injuries
- 89% occurred in urban areas
- 63% occurred in New Castle County
- 73% occurred between 4 PM and 2 AM
- 71% were male
- 69% involved no contributing factor on the part of the vehicle driver
- 56% occurred along divided roadways
- 53% were 20 to 49 years old
- 41% occurred on principal arterials
- 36% occurred during dark (unlit) conditions
- 34% occurred on a Friday or Saturday

Pedestrians Emphasis Area Overlap with Other Emphasis Areas (2015-2019 Crashes)

- 16% INTERSECTIONS 32%
- 4% Distracted Driving 11%
- 8% Impaired Driving 4%
- 2% Roadway Departure 2%
- 0% Motorcycles 0%
- 0% Unrestrained Motorists 0%
- 1% Speeding 0%

FATALITIES
SERIOUS INJURIES
EA 5: Pedestrians – Strategies

- Develop and distribute consistent public information messages to educate the public about pedestrian safety.
- Develop educational training programs to improve pedestrian safety awareness.
- Strengthen pedestrian safety laws and enforcement efforts.
- Install effective engineering countermeasures to improve pedestrian safety.
- Develop policies and/or guidelines to support pedestrian safety measures.
- Improve data collection of pedestrian crashes and monitor trends.
- Improve emergency services and incident management to address pedestrian safety.

REDUCE Pedestrian Fatalities & Serious Injuries by 15% from 76 to 64, over the next 5 years.

2021-2025 SHSP: deldot.gov/Programs/DSHSP/
2015 to 2019 Motorcycle Fatalities & Serious Injuries

- 88% were male
- 77% occurred from May through October
- 58% occurred on a Friday, Saturday or Sunday
- 46% occurred between 3 PM and 9 PM
- 40% occurred on divided roadways
- 37% were not wearing a helmet
- 35% were in single-vehicle crashes
- 31% were 20 to 29 years old
- 29% occurred on principal arterial roadways
- 24% occurred within a horizontal curve
Develop and distribute consistent public information messages to increase public awareness of motorcycle safety.

Strengthen motorcycle safety enforcement programs.

Support legislative action to strengthen motorcycle safety, including endorsement laws and motorcycle enforcement efforts.

Improve infrastructure and consider motorcycles when installing improvements.
EA 7: Unrestrained Motorists

Unrestrained Motorist Fatalities and Serious Injuries (5-Year Rolling Averages)

<table>
<thead>
<tr>
<th>Year</th>
<th>Observed Fatalities</th>
<th>Observed Serious Injuries</th>
<th>Fatalities Objective</th>
<th>Serious Injuries Objective</th>
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<td>2024</td>
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Delaware Observed Seat Belt Usage

- 2000: 66%
- 2001: 67%
- 2002: 71%
- 2003: 75%
- 2004: 82%
- 2005: 84%
- 2006: 86%
- 2007: 87%
- 2008: 91%
- 2009: 91%
- 2010: 90%
- 2011: 88%
- 2012: 92%
- 2013: 92%
- 2014: 90%
- 2015: 91%
- 2016: 91%
- 2017: 91%
- 2018: 92%
- 2019: 93%

Unrestrained Motorists Emphasis Area Overlap with Other Emphasis Areas (2015-2019 Crashes)

- Intersections: 17%, 37%
- Distracted Driving: 10%, 20%
- Impaired Driving: 49%, 37%
- Roadway Departure: 53%, 35%
- Pedestrians: 0%
- Motorcycles: 0%
- Unrestrained Motorists: 20%, 11%
- Speeding: 0%
- Serious Injuries
EA 7: Unrestrained Motorists – Strategies

- Improve seat belt and child-restraint compliance through enforcement.
- Develop and distribute consistent public information messages to increase public awareness of the law and safety benefits related to seat belt usage and child-restraint systems.
EA 8: Speeding

2015 to 2019 Speeding Fatalities & Serious Injuries
- 68% were male
- 62% occurred in urban areas
- 56% occurred in single vehicle crashes
- 54% occurred in New Castle County
- 54% occurred on collector or local roads
- 50% occurred on a Friday, Saturday, or Sunday
- 41% during dark (unlit) conditions
- 39% were 20 to 29 years old
- 31% occurred between 3 PM and 8 PM
- 25% were motorcyclists
- 25% occurred on wet/snowy/icy roadways

Speeding Fatalities and Serious Injuries (5-Year Rolling Averages)

Speeding Emphasis Area Overlap with Other Emphasis Areas (2015-2019 Crashes)
EA 8: Speeding – Strategies

- Develop and distribute consistent public information messages to increase public awareness of the law and consequences of speeding.
- Reduce the frequency and severity of speeding related crashes by implementing innovative enforcement practices.
- Implement engineering countermeasures that reduce speed differentials and increase compliance with posted speed limits.
- Develop policies and guidelines to implement effective safety measures to reduce the frequency and severity of speeding related crashes.
- Improve speeding crash data collection and analysis to enhance the identification of high-risk corridors and high-risk driving behaviors.
EA 9: Traffic Records

- Improve the timeliness, accuracy, completeness, uniformity, accessibility, and integration of data that is needed to identify priorities for transportation and traffic safety programs.
**Evaluation and Implementation**

- Execute actions with high crash reduction value using available resources
- Work within EA Teams, Stakeholder groups, and Councils/Committees to implement actions requiring legislative, policy and/or program changes
- Track and report on implementation activity annually
- Evaluate progress annually

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2021-2025 SHSP: deldot.gov/Programs/DSHSP/
Thank you for your time and interest in safety on Delaware’s roadways.

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