



DELAWARE

2021-2025 Strategic Highway Safety Plan: Towards Zero Deaths



Motorcycle Emphasis Area
Delaware Highway Safety Summit
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Presented By:

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Excellence in Transportation **Every Trip.**

We strive to make every trip taken in Delaware safe, reliable and convenient for people and commerce.

Every Mode.

We provide safe choices for travelers in Delaware to access roads, rails, buses, airways, waterways, bike trails and walking paths.

Every Dollar.

We seek the best value for every dollar spent for the benefit of all.

Everyone.

We engage our customers and employees with respect and courtesy as we deliver our services.



Presentation Overview

- Overview of 2021-2025 SHSP
- Preliminary View of Current Data
- Implementation Activities
- What can you do?
- Questions and Answers





Delaware Traffic Fatalities

2024 Delaware Traffic Fatalities as of 4/15/2024

	<u>2024</u>	<u>2023</u>		<u>2022</u>			
		Year-to-Date	Totals	Year-to-Date	Totals		
Fatalities	30	47	↓ -36%	137	42	↓ -29%	164
Delaware Residents	26	37	↓ -30%	110	32	↓ -19%	122
Person Types							
Vehicle Occupant	20	33	↓ -39%	89	29	↓ -31%	103
Pedestrian	6	9	↓ -33%	28	9	↓ -33%	32
Bicyclist	1	2	↓ -50%	5	1	0%	7
Motorcyclist	3	3	0%	15	3	0%	22
Crash Types							
Curve Related	3	8	↓ -63%	28	6	↓ -50%	19
Roadway Departure	11	23	↓ -52%	69	14	↓ -21%	55
Intersection Related	10	14	↓ -29%	37	14	↓ -29%	50
Median Crossover	0	3	↓ -100%	8	2	↓ -100%	8
Wrong Way	1	0	↑ N/A	1	2	↓ -50%	7
Work Zone	2	3	↓ -33%	9	0	↑ N/A	4



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 determines priorities
- Addresses **4 E's of Highway Safety**
 - Engineering
 - Education
 - Enforcement
 - Emergency Medical Services





2021-2025 SHSP Goal and Objective

GOAL

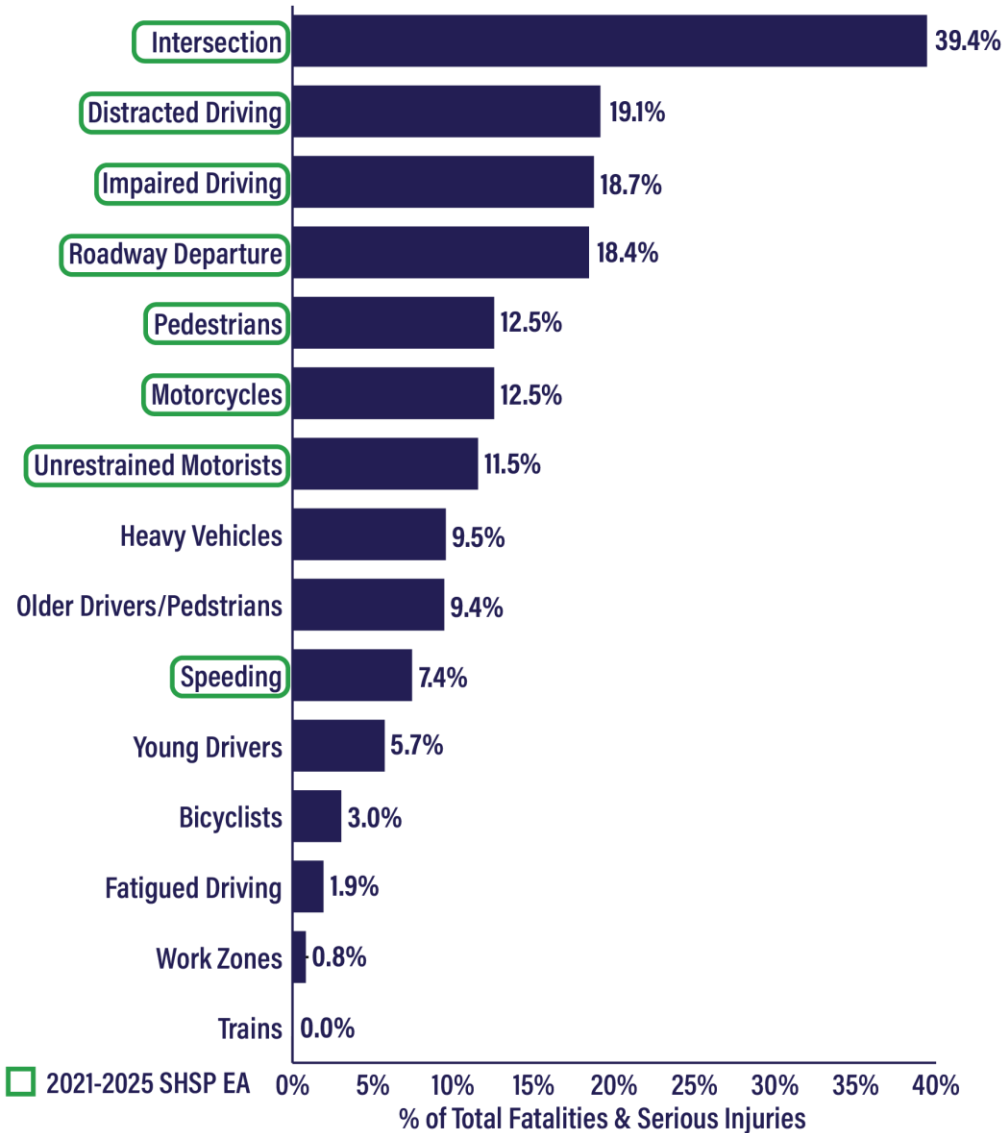
The Delaware Strategic Highway Safety Plan: Towards Zero Deaths aims to eliminate fatalities and serious injuries on Delaware's roadways through a multi-agency approach that utilizes education, enforcement, engineering and emergency medical service strategies.

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.



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 EMPHASIS AREAS

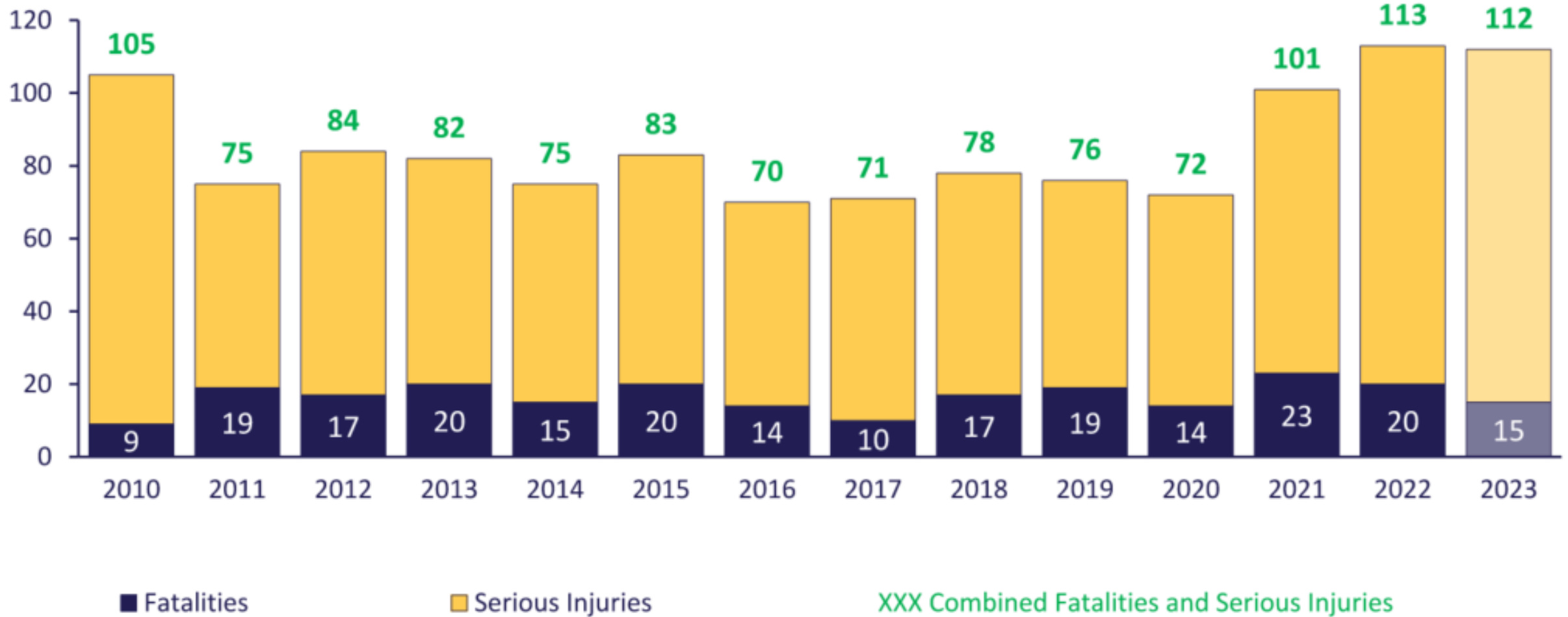
1. Intersections
2. Distracted Driving
3. Impaired Driving
4. Roadway Departure
5. Pedestrians
6. Motorcycles
7. Unrestrained Motorists
8. Speeding
9. Traffic Records



Annual Delaware Traffic Fatalities & Serious Injuries

EA 6: Motorcycles

Annual Data



Note: 2023 data is preliminary. Data presented is from CARS, accessed 2/22/2024; however, total 2023 fatalities are based on DeIDOT staff tracking data.

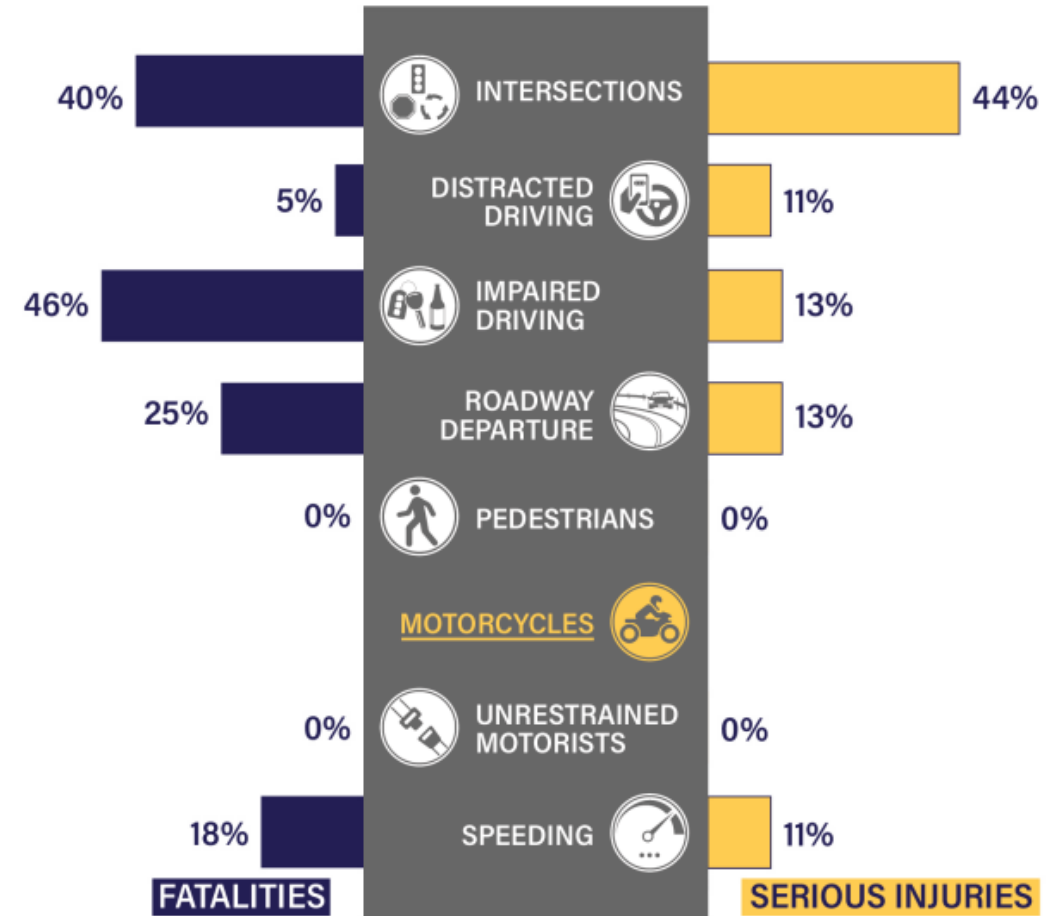


EA 6: Motorcycles

• Crash Data Trends

- 88% were male
- 77% occurred from May through October
- 58% occurred on a Friday, Saturday, or Sunday
- 46% occurred between 3PM and 9PM
- 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

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





EA 6: Motorcycles – Strategies/Actions



- 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.
 - Modulating headlight (Senate Bill 288) signed July 27, 2022
 - Graduated Helmet Law (Senate Bill 86) signed June 30, 2023
 - Motorcycle Rider Education Advisory Committee (House Bill 106) signed March 20, 2024
- Improve infrastructure and consider motorcycles when installing improvements.
 - Educate the highway engineering and maintenance workforce on roadway conditions that may be hazardous to motorcycles.



Motorcycle Safety Implementation

- Design considerations:
 - Horizontal curvature
 - Use superelevation transitions
 - Minimize use of reverse curvature
 - Clear and forgiving roadside treatments
 - Utilize advanced warning signage and pavement markings
 - Increase the radius and length of horizontal curves
 - Cross-section design
 - Provide shoulders
 - Clear and forgiving roadside
- Construction/Maintenance considerations:
 - Construction/work zones:
 - Minimize the amount of time milled surfaces are to be driven upon
 - Address transverse pavement differences (see Table 6G-1: Vertical Differences of DE MUTCD)
 - Consider appropriate warning signage directed towards motorcycles
 - Delaware MUTCD allows Motorcycle plaque to be mounted beneath warning signs
 - Maintenance:
 - Continue prompt and proactive repairs to pavement irregularities.



What can you do? How can you help?

Adopt a Safe System Approach

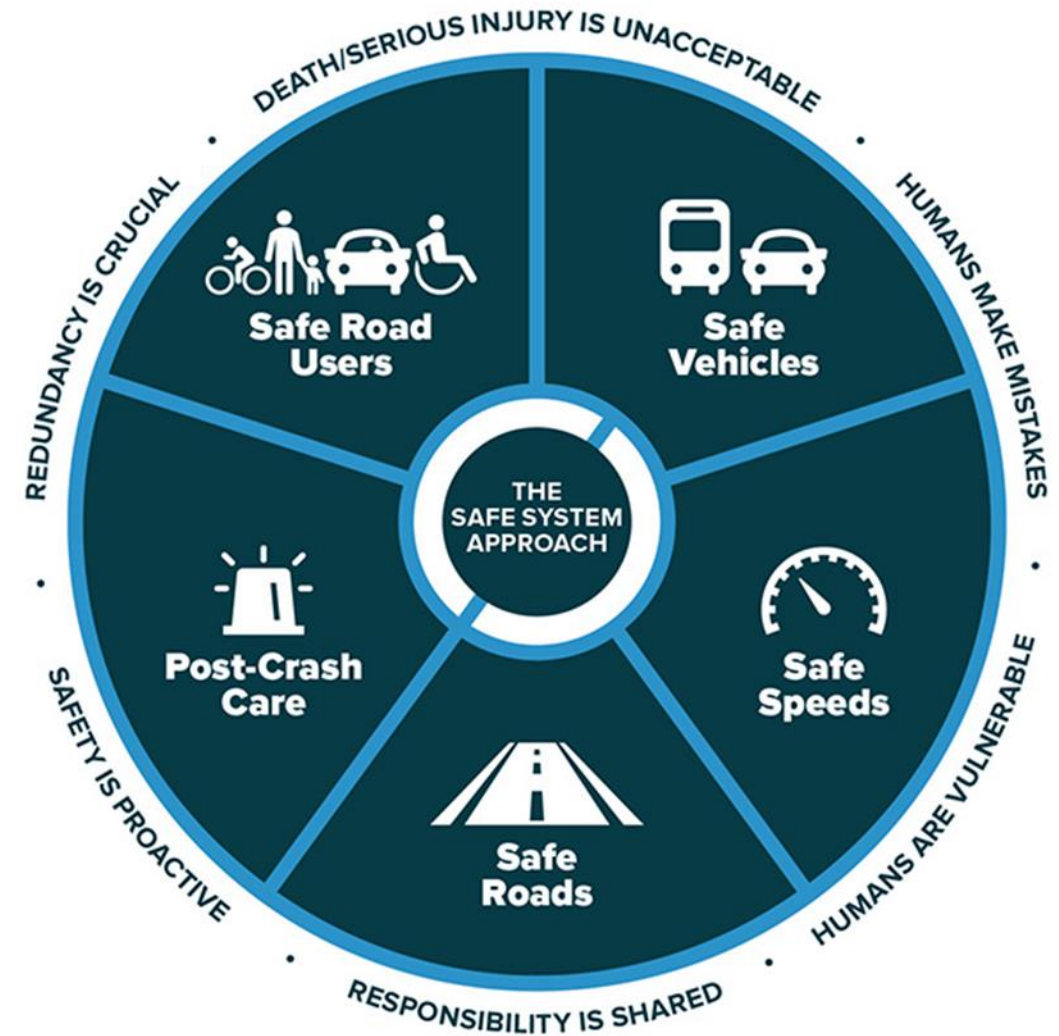
- Aims to eliminate fatal and serious injuries for all road users.



Accommodating human mistakes



Keeping impacts on the human body at tolerable levels



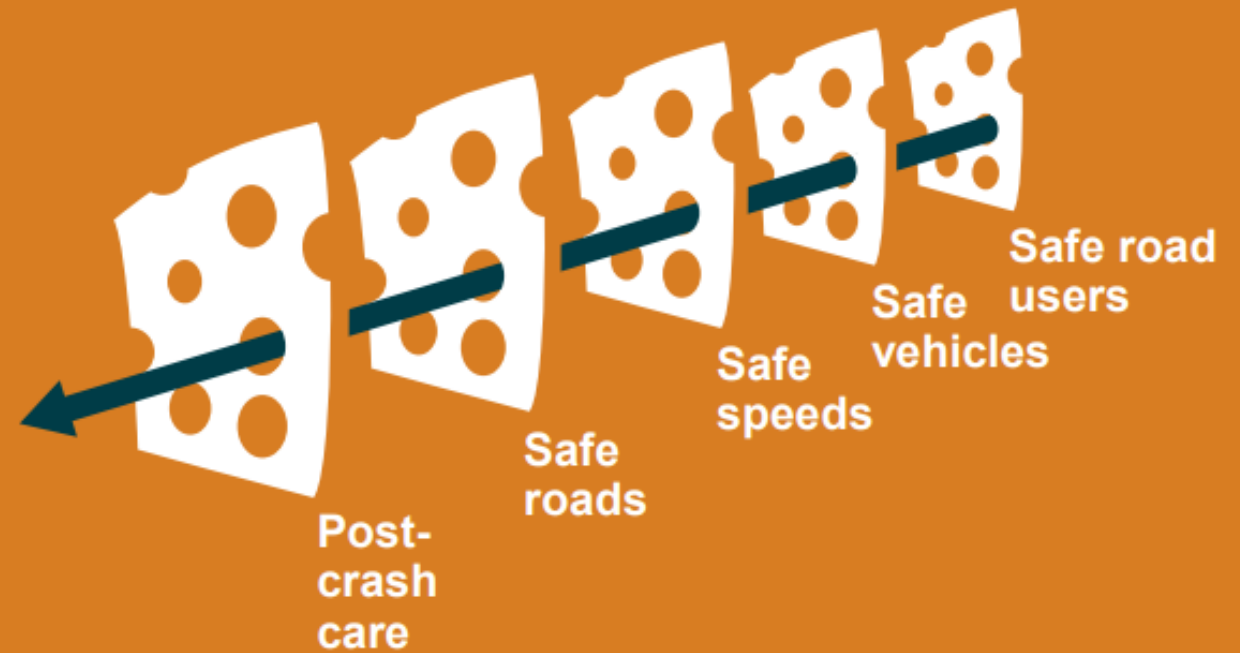
Source: FHWA.



Create Redundancy

The "Swiss Cheese Model" of redundancy creates layers of protection

Death and serious injuries only happen when all layers fail



Source: FHWA.



2021-2025 Delaware SHSP

View the Plan Here: deldot.gov/Programs/DSHSP/

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.

Thank you for your time and interest in safety on Delaware's roadways.

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To Report a Road Condition: <https://deldot.gov/Traffic/ReportRoadCondition/index.shtml>