

NEVADA STRATEGIC HIGHWAY SAFETY PLAN



Implementing Nevada's Strategic Highway Safety Plan



EXHIBIT E - Transportation Issues

Document consists of 24 pages.

☒ Entire document provided.

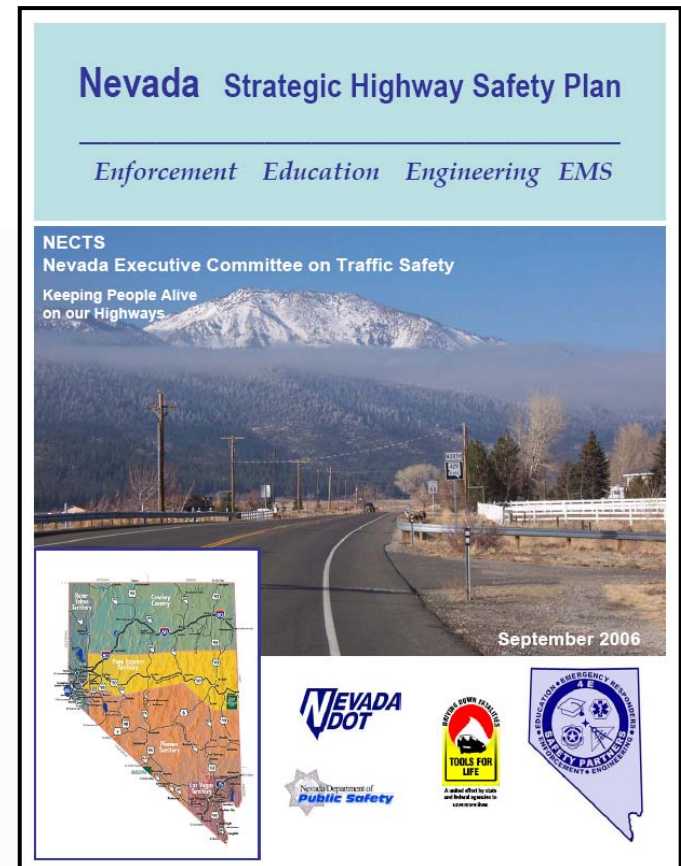
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Meeting Date: 7/02/08

NEVADA STRATEGIC HIGHWAY SAFETY PLAN

Safety Summit 2008

- Purpose and Goals
- The Need
- Statistical update
- NDOT Safety Engineering activities
- Implementing the Plan



Background

Consider:

- In 2005 the Texas Transportation Institute estimated the cost of congestion in Clark County alone: **\$543 million**
- That same year, vehicle crashes in Clark County resulted in a *cost to society* of over **\$2.8 billion**



Background

Also consider:

Nevada crime/crash clock (2006)



- 1 murder every 39 hours
- 1 aggravated assault every 59 minutes
- 1 violent crime every 28 minutes
- 1 property crime every 5 minutes
- 1 traffic fatality every 20 hours
- 1 traffic injury every 16 minutes
- 1 property damage crash every 14 minutes
- 1 crash every 9 minutes

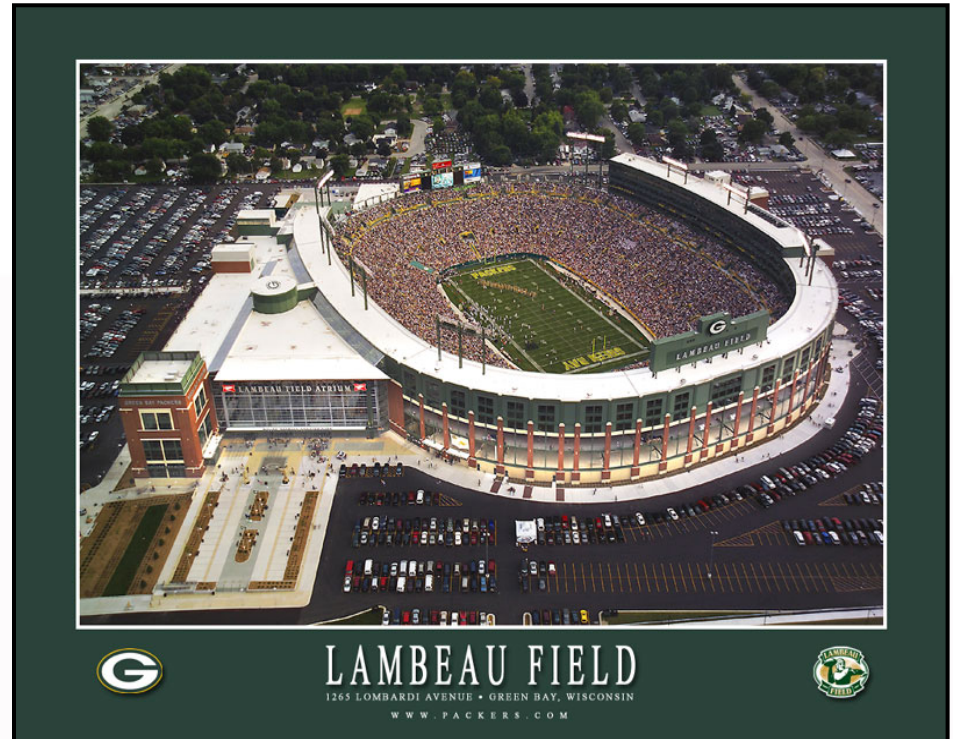
Background

Overview of injuries in Nevada 2000 – 2004 (Nevada State Health Division, 2008)

- Unintentional injuries are the fifth leading cause of death in Nevada and in the United States, as reported by the Center for Disease Control and Prevention
- The most common unintentional injury is motor vehicle accidents

Background: the problem today

- Highway deaths in the U.S have remained relatively constant
 - 43,510 (2005)
 - 42,642 (2006)
- And...



Traffic-related fatalities are the leading cause of death for people between the ages of 4 and 34

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Focusing on the problem

Nevada fatal crash summary by emphasis areas

TABLE 2.1

Summary of Nevada Fatal Crashes by Emphasis Areas

	Emphasis Areas	Nevada Fatal Crashes*	Percent
Part 1: Drivers	Instituting Graduated Licensing for Young Drivers	249 fatal crashes involved a driver under the age of 21	17%
	Ensuring Drivers are Licensed and Fully Competent	-- NA --	
	Sustaining Proficiency in Older Drivers	111 fatal crashes involved a driver between the age of 65 and 74 96 fatal crashes involved a driver over the age of 74	7% 7%
	Curbing Aggressive Driving	180 fatal crashes listed speeding or reckless action as a contributing factor	12%
	Reducing Impaired Driving Keeping Drivers Alert	215 fatal crashes listed impaired driving as a contributing factor 45 fatal crashes listed asleep or fatigued as the driver's physical condition	15% 3%
Part 2: Special Users	Increasing Driver Safety Awareness	-- NA --	
	Increasing Seat Belt Usage and Improving Air Bag Use	822 vehicle occupant fatalities (out of 933 vehicle fatalities) listed not using a restraint device	88%
	Making Walking and Street Crossing Easier	265 pedestrian fatalities	15%
Part 3: Vehicles	Improving Motorcycle Safety and Increasing Motorcycle Awareness	109 motorcyclists fatalities	6%
	Making Truck Travel Safe	76 fatal crashes involving heavy trucks	12%
	Increasing Safety Enhancements in Vehicles	-- NA --	
Part 4: Highways	Reducing Vehicle-Train Crashes	1 fatal crash involving a collision with a train	0%
	Keeping Vehicles on the Roadway	268 fatal run-off the road collisions	40%
	Minimizing the Consequences of Leaving the Road	Top 5 fatal run-off the road collisions: - Overturned (16%) - Struck fixed object (15%) - Overtaken in median (14%) - Struck median fixed object (3%)	
	Improving the Design and Operation of Highway Intersections	263 fatal crashes at intersections	19%
	Reducing Head-On and Across-Median Crashes	115 fatal head-on and across-median crashes	8%
Part 5: EMS	Designing Safe Work Zones	46 work zone fatalities	3%
	Enhancing Emergency Medical Capabilities to Increase Survivability	-- NA --	
	Improving Information and Decision Support Systems	-- NA --	
Part 6: Management	Creating More Effective Processes and Safety Management Systems	-- NA --	

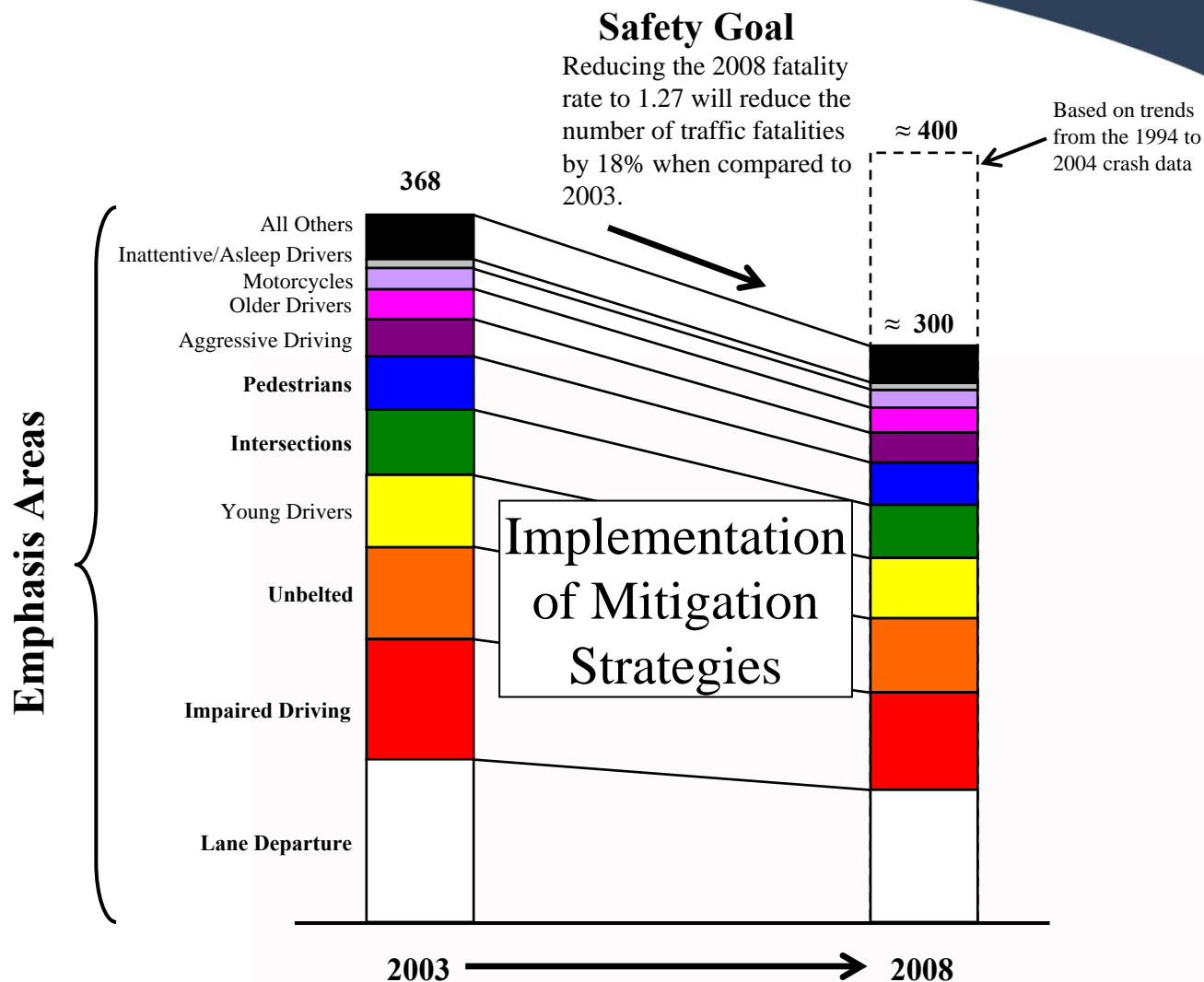
Emphasis Areas

1998-2002 (1,750) 2002-2006 (2,000 fatalities)

- **Alcohol impairment**
464 fatalities/27% of total traffic fatalities
416 fatalities/21%
- **Unbelted occupants**
780 fatalities/46% of total traffic fatalities
886 fatalities/44%
- **Pedestrians**
276 fatalities/16% of total traffic fatalities
388 fatalities/19%
- **Lane/road departures**
675 fatalities/39% of total traffic fatalities
810 fatalities/41%
- **Intersections**
443 fatalities/26% of total traffic fatalities
536 fatalities/27%

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Our Goal



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Twenty Critical Strategies

Enforcement

- Highly publicized DUI checkpoints
- Seize Vehicle/License Plate for DUI offenses
- Highly publicized Seat Belt enforcement campaigns & primary seat belt law
- Enforce pedestrian laws at high crash areas (judicial follow-thru)
- Automated Enforcement

Education

- How to maintain vehicle on the roadway
- Public service campaigns to reduce impaired driving
- Subsidized transportation to/from bars, hotels, etc.
- Pedestrian safety education

EMS

- First responder training for state patrol, maintenance workers, etc.
- ITS Technology to reduce response times

Engineering

- Keep vehicles in their lane
- Flatten slopes and remove roadside objects
- Increase ped safety by constructing sidewalks, refuge islands, and upgrading signals
- Access management
- Intersection geometric improvements
- Increase intersection awareness with traffic control devices
- Traffic signal upgrades and improvements

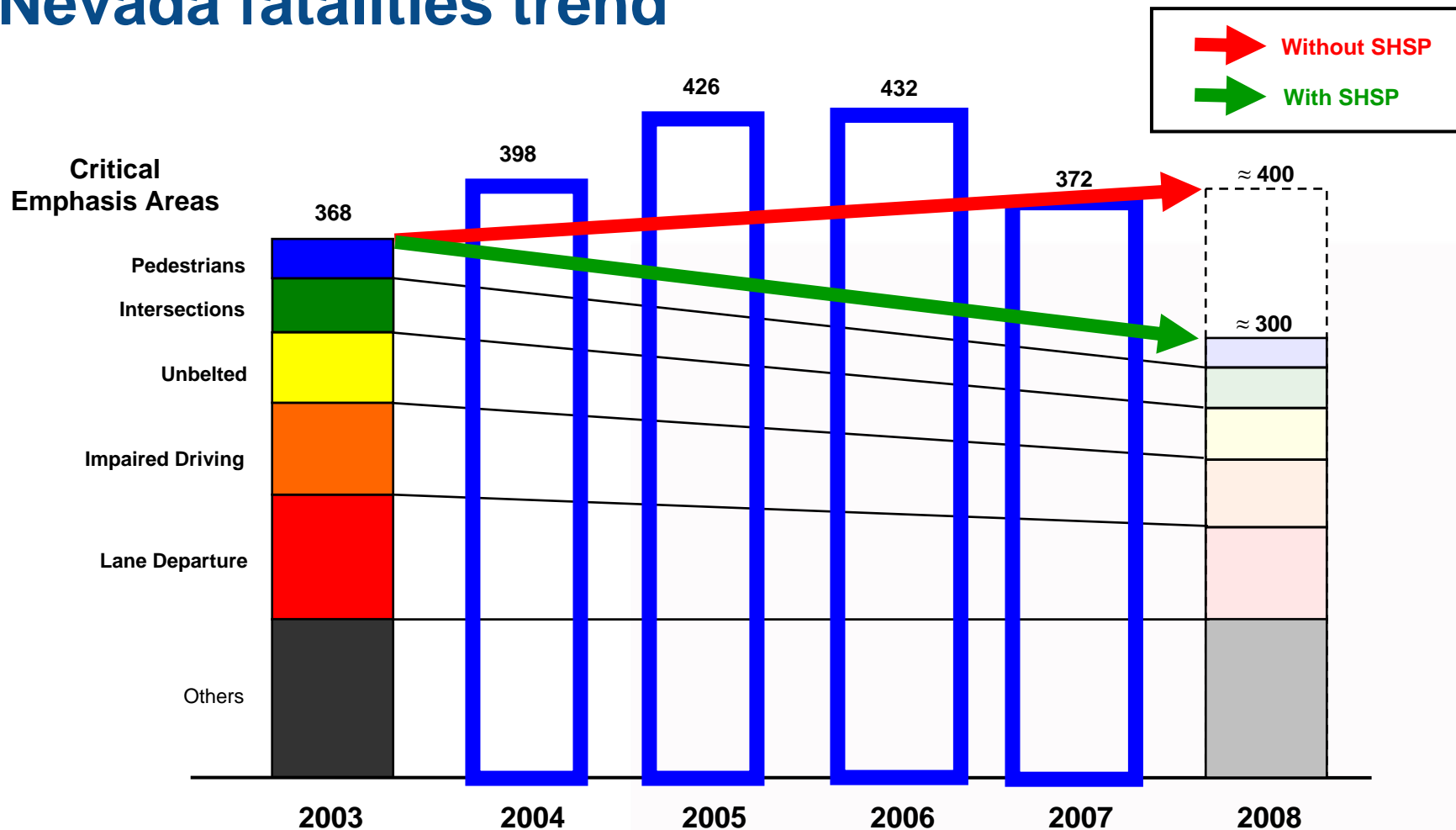
Data Systems

- Improve ability to perform data analysis across agencies
- Develop criteria to identify high pedestrian crash locations and crosswalk placement guidelines

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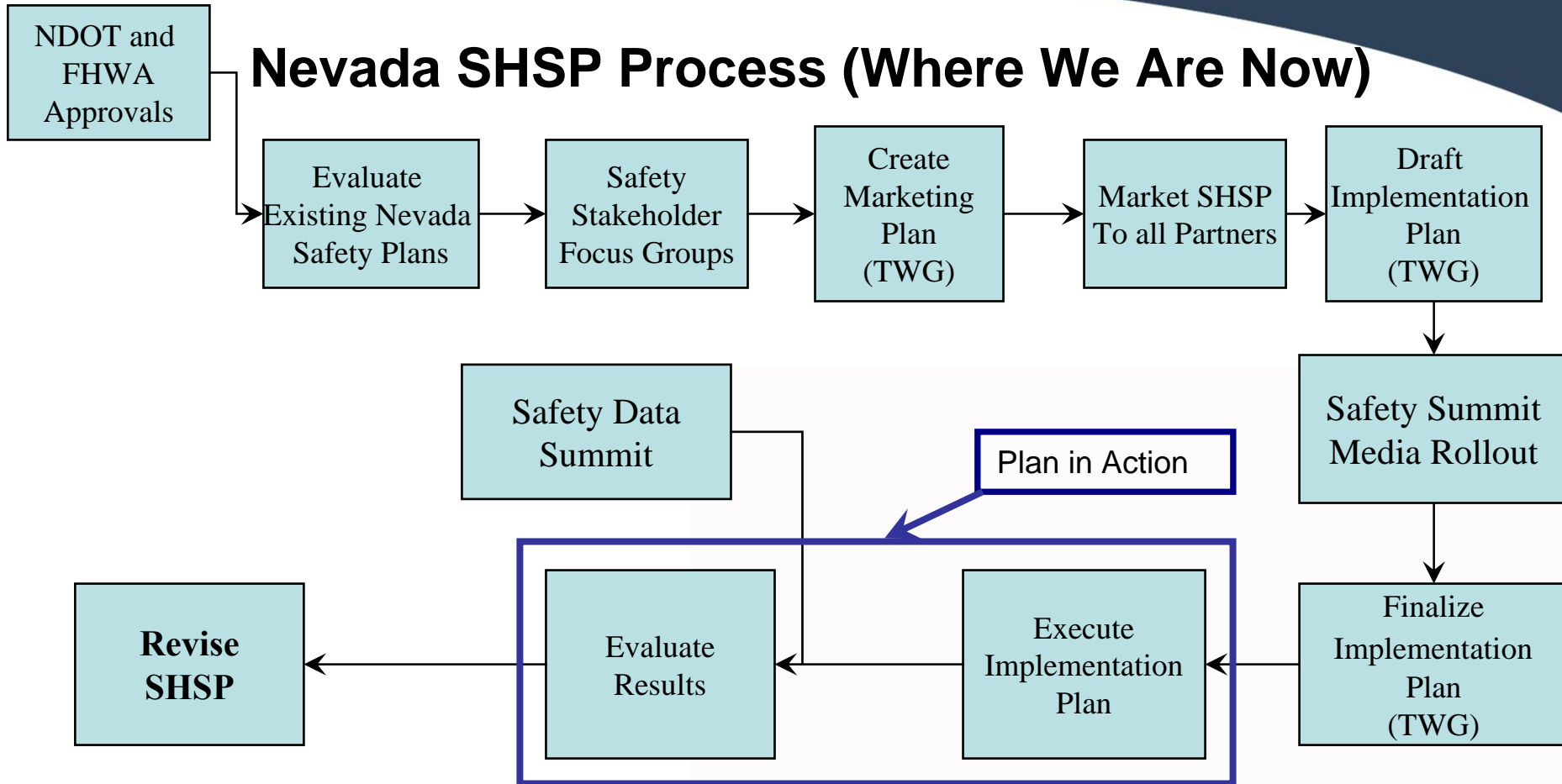
Statistical update

Nevada fatalities trend



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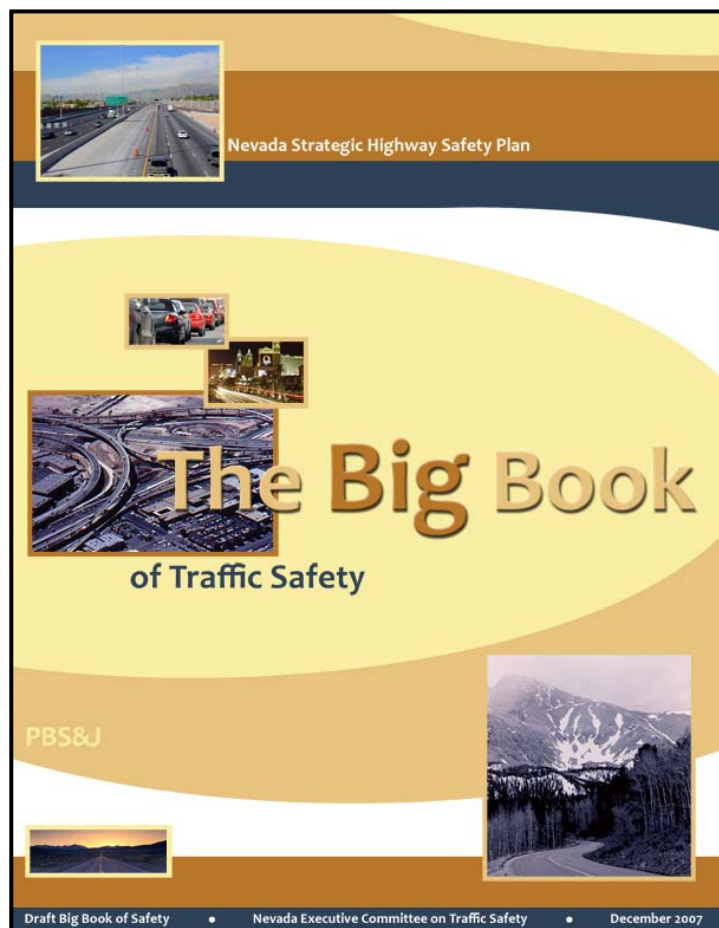
Nevada SHSP Process (Where We Are Now)




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Nevada SHSP Process

The Big Book of Safety



Attorney General Advisory		
Title:	Bicycle Safety Education 28-PS-5/26-163PS-3	
Institution:	Washoe County Kiwanis Club	
Status:	New	
Description:	This 502(c)3 organization will conduct bicycle rodeos and distribute helmets to Northern Nevada communities while conducting education on bicycle safety. This is the third year of a highly successful education program.	
Resources:	\$11,500	
Partners:		Contact: Telephone
Strategies:		Address:

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Nevada SHSP process: www.drivesafenv.com

SHSP Home - Microsoft Internet Explorer

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Home Overview News Safety Topics Materials Links Contact

Welcome!

The Nevada Strategic Highway Safety Plan (SHSP) is driven by the goal of saving 100 lives in 2008. The plan builds upon federal guiding principles and outlines five areas of focus to accomplish this goal: road usage, lane departures, impaired driving, commercial vehicles, and pedestrians.

Our SHSP, published in 2006, was the result of extensive efforts by Nevada's safety partners and included a host of strategies targeting the five focus areas. While some strategies (for example, engineering and education improvements) could be implemented almost immediately, others such as driver behavior or policy regulation require an effective marketing plan—one that engages and engages stakeholders and the public to create a message and drive the message home.

Once approved and adopted, Nevada's SHSP marketing efforts will hit full stride with this interactive Web site and subsequent media releases.

Saving 100 lives in 2008 means reducing traffic fatalities by 33 percent. It is a goal that we must always strive to reach—and we will continue to strive into the future.

Residents

Visitors

Kids

Industry

NEVADA DOT

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Industry

Existing and pending transportation-related legislation, bills and research reports can impact safety on our roadways. Check out the links below to review the latest issues in a number of categories and to learn more about the potential future of transportation and safety on Nevada's roadways (links will pop up in a new window).

LEGISLATION

[Traffic Laws](#)

[Traffic Signs, Signals & Markings](#)

[Driving within appropriate lanes](#)

[Pedestrians](#)

[Speeding](#)

[Aggressive/Reckless Driving](#)

[Bicycle Operation](#)

[Child Seat Belt / Restraint](#)

Residents

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NEVADA DOT

CEA Implementation Teams

Impaired Driving

Team Leader: Michael Geeser, AAA Nevada, in association with the Attorney General's Advisory Coalition on Impaired Driving

Strategies

- Conduct highly publicized DUI checkpoints
- Conduct public service campaign to reduce impaired driving
- Institute a mandatory ignition interlock program for DUI offenders
- Seize the vehicle/license plate of convicted impaired driving offenders
- Provide subsidized transportation to/from drinking establishments

Safety Belts

Team Leader: Traci Pearl, Office of Traffic Safety, in association with the Nevada Seatbelt Coalition

Strategies

- Improve core driving skills/car control and accident avoidance
- Conduct highly publicized seat belt enforcement campaign
- Improve ability to perform crash data analysis across agencies
- Create primary seat belt law

CEA Implementation Teams

Lane Departures

Team Leader: Kelly Anrig, NDOT

Strategies

- Keep vehicles in their lanes through improvements/engineering
 - Flatten side slopes and reduce roadside objects
 - Create education/awareness programs for maintaining vehicles on roadway lanes
 - Provide first responder training for state patrol, maintenance workers, and related personnel
-

Intersections

Team Leader: Chris Louis, RTC of Washoe County

Strategies

- Implement automated enforcement including red-light-running cameras
- Increase intersection awareness with traffic control devices
- Implement geometric intersection improvements
- Implement traffic signal upgrades and improvements
- Follow the principles of access management at intersections

CEA Implementation Teams

Pedestrians

Team Leader: Jerry Duke, RTC of Southern Nevada

Strategies

- **Enforce pedestrian laws at high crash locations (with judicial follow-thru)**
 - **Provide pedestrian safety education for pedestrians and motorists**
 - **Develop criteria to identify high pedestrian crash locations and placement, design, and implementation guidelines for pedestrian amenities**
-

Agencies with CEA Team Action Assignments

- | | | |
|---------------------------------|---|--|
| ▪ Department of Public Safety | ▪ Nye County Community Prevention Partnership | ▪ Henderson Police Department |
| ▪ NDOT | ▪ UNLV | ▪ Washoe County Sheriff |
| ▪ RTC Washoe County | ▪ UNR | ▪ FHWA |
| ▪ RTC Southern Nevada | ▪ DMV | ▪ Federal Motor Vehicle Carriers Association |
| ▪ Cities and Counties Statewide | ▪ Las Vegas Metropolitan Police Department | ▪ Emergency Medical Services |
| ▪ STOP DUI | ▪ Reno Police Department | ▪ American Traffic Academy |
| ▪ AAA | | ▪ Safe Communities |
| ▪ MADD | | ▪ Safe Kids |

Public Information Officer (PIO) Working Group

Advisory committee to the SHSP Technical Working Group

- **Integrates and engages statewide agency PIO personnel (e.g., NDOT, DPS, AAA, DMV, Dept. of Health, RTC North and South)**
- **Refines and guides marketing/media strategies from focus groups/workshops and Safety Summit**
- **Creates coordinated message for media outlets and the public**

Purpose and Goals

Safety Summit

March 18-19, Henderson, Nevada

- **Foster networks**
 - Prioritize and track participant feedback
 - Share successful implementation strategies
 - Coordinate SHSP support
 - Conduct media rollout
- **Develop implementation task teams with roles, responsibilities, and timing**
- **Commit to a safety culture**

Office of Traffic Safety (OTS) SHSP participation

- **Provides incentives to state, local, and non-profit agencies that apply for federal grants addressing key SHSP strategies**
- **Provides professional development grants enabling partners to participate in SHSP meetings and special events**
- **Provides paid media to inform the public of high-visibility enforcement and other key behavioral traffic safety issues**
- **Funds law enforcement, education, and emergency medical services to perform traffic safety programs**

NDOT Safety Engineering

■ Hazard Elimination Program

- High Crash Location review and project development (intersections)
- centerline rumble strips (lane departure)

■ Road Safety Audit Program

- Reviewing roadways from a safety perspective (intersection/lane departure/pedestrian)

■ Data Driven Solutions

- Partnership with DPS on NCATS management
- New analytic tools
 - Statewide GIS
 - Statewide C.A.R.E. implementation
 - SafetyAnalyst FHWA Pool Funded Study
- Safety Data Warehouse

Legislative involvement

- Strategy: Primary Seat Belt Law
 - Unbelted Occupants
 - 44% of total traffic fatalities
 - Benefit:
 - A NHTSA study found seat belts reduce the risk of a fatality by 45% and a critical injury by 50% for front seat passengers over the age of five).
 - Cost:
 - Publicity costs to inform the public of the law change.
 - Increased enforcement and publicity to magnify the effect of the law change.

Legislative involvement

- Strategy: Automated Enforcement (Red Light Running Cameras)
 - Intersections
 - 27% of total traffic fatalities
 - Benefit:
 - 15% reduction in related crashes
 - Cost:
 - Varies depending on equipment selected
 - \$50,000 per intersection
 - Sensor costs \$5,000 to \$10,000 per intersection
 - National Conference of State Legislatures
 - Example legislation
<http://www.ncsl.org/programs/transportation/trafsafdb.cfm>
 - More information
 - <http://www.stopredlightrunning.com/>

The problem tomorrow

Nationwide, of every 100 children born this year:

- One will die violently in a highway crash during their lifetime.
- 70 will be injured in a crash during their lifetimes – some more than once.

