Arizona Strategic Highway Safety Plan 2019 Update

Safety Launch
January 22, 2019
 Agenda

1. Strategic Highway Safety Plans (SHSP)
2. 2014 Arizona SHSP - Lessons Learned
3. 2019 Strategic Highway Safety Plan

- Vision, Goal and Objective
- Emphasis Areas
- SHSP Schedule
- Arizona Safety Summit
  - February 11, 2019, 1:00 pm – 4:00 pm
What Do We Know?

Arizona Population: **7.2 M**
- 14th Largest Population
- 6th Largest Area
- > 70% Urban Population

Statewide Plan Covering:
- State Highways – 20,000 miles
- Local Roads – 125,000 miles
What Do We Know?

Statewide:
127,000+ crashes/year
55,000+ injuries
998 deaths
229 pedestrians killed

Nationally:
4.57 million injuries
40,000 deaths
~6000 pedestrian deaths

National Safety Council

Scottsdale Police Dept.

2017 Arizona Crash Facts

Arizona DPS
What Do We Know?

• Roads are safe but **road users** can be dangerous
• Road users cause 90-95% of all crashes
• Difficult to change behavior
Strategic Highway Safety Plans

Federal regulations require all states to have a Strategic Highway Safety Plan with the purpose to reduce fatalities and serious injuries on public roadways.

• Collaborative
• Data-driven
• Four E's of safety

Allows safety partners in the State to work together to align goals, leverage resources and collectively address the State's safety challenges.
2014 SHSP Planning Process

ADOT driven 18 month public process results:

- Published: 2014
- Baseline data: 2013
- Available on: azdot.gov/shsp
ARIZONA STRATEGIC HIGHWAY SAFETY PLAN
“Toward Zero Deaths by Reducing Crashes for a Safer Arizona”

Highway Safety Plan (HSP)
- GOHS

Highway Safety Improvement Program (HSIP)
- ADOT

Commercial Vehicle Safety Plan (CVSP)
- DPS

Other Safety Plans and Programs
- Regional and Local Partners

SHSP Emphasis Area Implementation Efforts
2014 Arizona SHSP

12 Emphasis Areas
- Speeding and Aggressive Driving*
- Impaired Driving
- Occupant Protection
- Motorcycles
- Distracted Driving
- Roadway Infrastructure and Operations
- Age Related
- Heavy Vehicles/Buses/Transit
- Nonmotorized Users
- Natural Risks
- Traffic Incident Management
- Interjurisdictional

*Top Focus Emphasis Areas

2 Emphasis Areas
Support
Data Improvements
Policy Initiatives
2014 Arizona SHSP

SHSP VISION:
*Toward Zero Deaths by Reducing Crashes for a Safer Arizona*

**SHSP Goal:**
Reduce fatalities and the occurrence and severity of serious injuries on all public roadways in Arizona.

**SHSP Objective:**
Reduce the total number of fatalities and serious injuries in Arizona by 3-7% during the next five years from the 2013 base year.
2008-2017 Crash Trend

<table>
<thead>
<tr>
<th></th>
<th>Fatalities</th>
<th>Serious Injuries</th>
</tr>
</thead>
<tbody>
<tr>
<td>2008</td>
<td>938</td>
<td>5,409</td>
</tr>
<tr>
<td>2009</td>
<td>806</td>
<td>4,827</td>
</tr>
<tr>
<td>2010</td>
<td>759</td>
<td>4,648</td>
</tr>
<tr>
<td>2011</td>
<td>827</td>
<td>4,598</td>
</tr>
<tr>
<td>2012</td>
<td>821</td>
<td>4,508</td>
</tr>
<tr>
<td>2013</td>
<td>849</td>
<td>4,328</td>
</tr>
<tr>
<td>2014</td>
<td>774</td>
<td>3,959</td>
</tr>
<tr>
<td>2015</td>
<td>897</td>
<td>4,175</td>
</tr>
<tr>
<td>2016</td>
<td>952</td>
<td>4,575</td>
</tr>
<tr>
<td>2017</td>
<td>998</td>
<td>4,130</td>
</tr>
</tbody>
</table>

5-year average, 2013-2017

<table>
<thead>
<tr>
<th></th>
<th>2013</th>
<th>2017 5-Year Avg¹</th>
<th>% Change</th>
</tr>
</thead>
<tbody>
<tr>
<td>Fatalities and Serious Injuries / Year</td>
<td>5,177</td>
<td>5,127</td>
<td>-1%</td>
</tr>
</tbody>
</table>

¹ 5-year average, 2013-2017

*Source: 2017 Arizona Crash Facts 2013-17 Trend

- Vehicles improving
- High seatbelt use
- Declining DUI
- Economy recovering
- Crash trends declining
- 3-7% goal within reach
Statewide Vehicle Miles Travelled

Increasing VMT = Increasing Exposure

Reflects 1.1% annual VMT increase

SHSP Data Capture

VMT

Projected VMT

Linear (VMT)

Miles Traveled

Year

2001 2006 2011 2016 2021

40,000,000,000 45,000,000,000 50,000,000,000 55,000,000,000 60,000,000,000 65,000,000,000 70,000,000,000 75,000,000,000 80,000,000,000
Traffic Fatalities

- Actual Data Reflects 4% annual increase
- SHSP Goal: 3-7% Reduction
2014 Arizona SHSP Lessons Learned

- ADOT
- Participants
- Public
- Overall
• Resource intensive:
  – Data collection, meeting organization, member requests
  – Significant overlap between 14 emphasis areas

• Respect the team members:
  – All are passionate, all are volunteers and
  – All have other things they could be doing

• Provide opportunity for success:
  – Give them something to do (and funding to do it)
Participants

• Meet often:
  – Once per quarter and communication in between meetings

• Engage un- or under-represented stakeholders:
  – Who is not at the table?
  – How can you get them there?
  – Expand beyond Phoenix metro!

• Keep pushing ADOT:
  – Challenge goals and resources
Public

• Government is trying to help:
  – Roads are safe
  – State and federal government are doing our part to make them safer

• Road users play a critical role
  – Road users have an enormous role in reaching zero deaths
  – Goal cannot be reached without addressing road user behavior
Overall

• Process is important
  – Outstanding way to engage safety community but must engage the entire state!

• Communication is vital
  – ADOT ↔ members & member ↔ member

• Must be relevant!
  – Goals should be aspirational and challenging
  – Must link SHSP to specific projects or programs
  – Must reduce deaths and injuries
2019 Arizona SHSP – Moving Forward

- Proposed vision, goal and objective
- Stakeholder roles and responsibilities
- Schedule
2019 Arizona SHSP

**SHSP VISION:**
*Toward Zero Deaths by Reducing Crashes for a Safer Arizona*

**SHSP Goal:**
Reduce fatalities and serious injuries on all public roadways in Arizona.

**SHSP Objective:**
Reduce the total number of traffic fatalities and serious injuries in Arizona by **15% by 2024**
*[Baseline is from the 4-year average, 2015-2018]*.
2019 SHSP Emphasis Areas

• Focused from 14 to 5 EAs
  – Reduces overlap between emphasis area teams
    • Clear roles
    • Focus resources
    • Focus on implementation
### 2014 SHSP Emphasis Areas:

<table>
<thead>
<tr>
<th>Description</th>
<th>% of All Fatalities (2008-2017)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Lane Departure / Run-off Road</td>
<td>49%</td>
</tr>
<tr>
<td>Distracted Driving</td>
<td>48%</td>
</tr>
<tr>
<td>Occupant Protection (Not Involving Bicycle)</td>
<td>35%</td>
</tr>
<tr>
<td>Impaired Driving</td>
<td>35%</td>
</tr>
<tr>
<td>Speeding and Aggressive Violations</td>
<td>32%</td>
</tr>
<tr>
<td>Intersections</td>
<td>28%</td>
</tr>
<tr>
<td>Age Related - Younger Drivers</td>
<td>26%</td>
</tr>
<tr>
<td>Nonmotorized Users - Intercity</td>
<td>20%</td>
</tr>
<tr>
<td>Age Related - Older Drivers</td>
<td>19%</td>
</tr>
<tr>
<td>Motorcycles</td>
<td>16%</td>
</tr>
<tr>
<td>Heavy Vehicles/Buses/Transit</td>
<td>14%</td>
</tr>
<tr>
<td>Natural Risks (Weather)</td>
<td>3%</td>
</tr>
<tr>
<td>Nonmotorized Users - Intercity</td>
<td>3%</td>
</tr>
<tr>
<td>Interjurisdiction</td>
<td>-</td>
</tr>
<tr>
<td>Traffic Incident Management</td>
<td>-</td>
</tr>
</tbody>
</table>

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### 2019 Emphasis Areas

- Run-off the Road (Road/Lane Departure)
- Behavior Related Crashes
- Intersections
- Pedestrian and Bicycle Safety
- Crash Data (DDSA)
FHWA Focus States

2019 SHSP Emphasis areas consistent with FHWA Focus States Initiative

- Intersections
- Roadway Departure
- Pedestrian-Bicycle
2019 Arizona SHSP Responsibilities

- **Executive Committee (EC):**
  - Set vision, goals and objectives of SHSP
  - Review progress, approve document, address challenges, remove barriers
  - Consult the SHSP when updating agency or organization plans and programs

- **ADOT Project Management Team (PMT):**
  - Manage work products, safety summit / outreach, document review and editing

- **Consultant Team (CT):**
  - Perform technical analysis, organize and facilitate committee meetings, draft SHSP

- **Emphasis Area Team Chair / Vice-Chair / Team Members**
  - Provide input on EA strategies
  - Responsible for implementing emphasis areas identified at Safety Summit

- **Public:**
  - Recognize and act our part on road safety
2019 Arizona SHSP Update Schedule

BEGIN

KICK-OFF
DEC 2018

2019

SAFETY LAUNCH
JAN 2019

SAFETY SUMMIT
FEB 2019

SHSP DRAFT
FEB – MAY 2019

STAKEHOLDER ENGAGEMENT WORKSHOPS
APR 2019

SHSP FINAL
MAY 2019

SHSP APPROVAL & EXECUTION
AUGUST 2019

END
2019 Arizona Strategic Highway Safety Plan Update

YOU’RE INVITED!

ARIZONA SAFETY SUMMIT
FEBRUARY 11 | 1-4 P.M.

ADOT HRDC
1130 N. 22nd Avenue | Phoenix, AZ | 85009

For event details and registration, please visit https://arizonasafetysummit.eventbrite.com
Safety Summit

• Opportunity to engage to provide input on each emphasis areas, solicit input on strategies

• When: **February 11, 2019**, 1 pm – 4 pm
  – ADOT Human Resource Development Center
  – Registration requested:
    [http://arizonasafetysummit.eventbrite.com](http://arizonasafetysummit.eventbrite.com)
Safety Summit

• Opening session (45-minutes):
• Emphasis area open house (90-min.)
  – 5 emphasis area stations
  – Brainstorm/suggest 2019 SHSP emphasis area strategies
  – EA team sign-up
• Wrap-up (30-min.)
Questions?

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