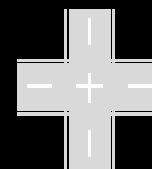
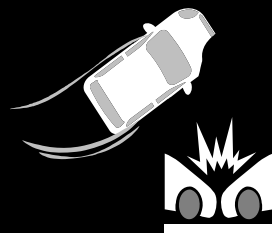


SHSP Pedestrian Safety EA Team Meeting



August 5, 2019

Agenda

- Welcome
- Texas Statewide Pedestrian Safety Coalition
- SHSP Website
 - Preview Upcoming Changes
 - Inventory Survey
 - Traffic Safety Calendar
- Upcoming One-Day Forums
- Law Enforcement Training on Pedestrian & Bicycle Laws
- Strategies, Countermeasures, and Action Plans



Texas Statewide Pedestrian Safety Coalition

- Texas Statewide Pedestrian Safety Forum
 - August 22nd; 8:00am - 4:00pm
 - Norris Conference Center – Austin
 - Full, but waitlist available
- Coalition Meeting
 - September 7, 2019
- Pedestrian Safety Clearinghouse



SHSP Website

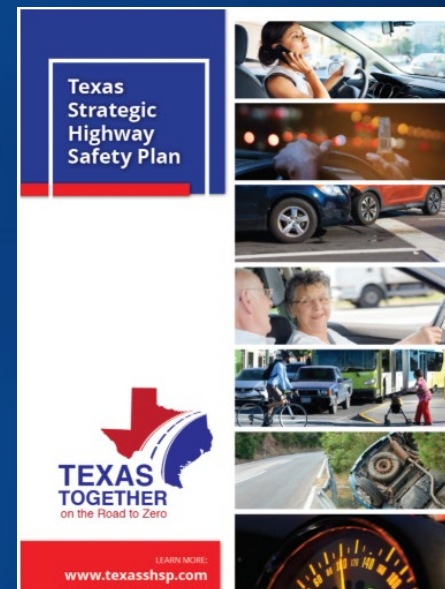
www.texasshsp.com

Updates:

- New Design Preview
- Inventory Survey
- Traffic Safety Calendar

Next Steps:

- Interactive SHSP website
- Searchable Inventory of Programs & Projects



New Website Design Preview

Home Page

Texas Strategic Highway Safety Plan

[HOME](#)[EMPHASIS AREAS](#)[STRATEGIES](#)[CONTACT](#)

What do distracted, impaired, and speeding drivers, older road users, pedestrians, and lane departure and intersection crashes have in common?

They are the seven areas of greatest concern related to Texans dying or being seriously injured on our roadways.

Click to learn more



Distracted Driving



Intersection Safety



Pedestrian Safety



Impaired Driving



Older Road Users



Speeding



Roadway and Lane Departures

What can we do about it?



Click on the icons below to learn what you can do and what others are doing to address these issues.

New Website Design Preview

Strategies Page EXAMPLE

Distracted Driving



Distracted driving is a growing concern in Texas.

DESCRIPTION

FATALITIES AND
SERIOUS INJURIES

CONTRIBUTING
FACTORS

WHERE
CRASHES OCCUR

DEMOGRAPHICS

STRATEGIES

SHSP Home — Emphasis Areas — Distracted Driving — Strategies

COUNTERMEASURES

Click a strategy below to learn more about the countermeasures for that strategy.

ACTION PLANS

Reduce fatalities and serious injuries by identifying and implementing education and awareness strategies to reduce distracted driving.



1

COUNTERMEASURES

Improve and increase enforcement capabilities for addressing distracted driving.



2

COUNTERMEASURES

Improve the effectiveness of distracted road user educational techniques, tools, and strategies.



3

COUNTERMEASURES

Increase the installation of engineering countermeasures known to reduce distracted driving.



4

COUNTERMEASURES

Utilize technology to reduce distracted driving crashes, serious injuries, and fatalities.



5

COUNTERMEASURES

SHOW ALL COUNTERMEASURES

PROGRAM AND PROJECT EXAMPLES

New Website Design Preview

Countermeasures Page EXAMPLE

Distracted Driving



Distracted driving is a growing concern in Texas.

DESCRIPTION	FATALITIES AND SERIOUS INJURIES	CONTRIBUTING FACTORS	WHERE CRASHES OCCUR	DEMOGRAPHICS	STRATEGIES
SHSP Home — Emphasis Areas — Distracted Driving — Strategies — Strategy 1 — Countermeasures					COUNTERMEASURES
					ACTION PLANS



Reduce fatalities and serious injuries by identifying and implementing education and awareness strategies to reduce distracted driving.

STRATEGY

COUNTERMEASURES

Countermeasures for strategy 1 were identified in the following categories.



Age Groups



Car Technology



Teen Involvement



Teen Education — Laws



Education About Dangers *



Teen Education — Video



Education — Apps

PRINTABLE VERSION

Continue to implement Impact Texas Teen Drivers, an informational tool (a two-hour video) designed to educate teens about distracted-driving dangers.


* ACTION PLAN

* Indicates an action plan is available for the countermeasure.

New Website Design Preview

Action Plan Page EXAMPLE

Distracted Driving



Distracted driving is a growing concern in Texas.

DESCRIPTION

FATALITIES AND SERIOUS INJURIES

CONTRIBUTING FACTORS

WHERE CRASHES OCCUR

DEMOGRAPHICS

STRATEGIES

SHSP Home —Emphasis Areas —Distracted Driving — Strategies — Strategy 1 — Countermeasures —Education About Dangers —Action Plans

ACTION PLANS

Education—Dangers Countermeasure Action Plan

Description	Educate the public with age-specific messages (pre-teen to adult) about the dangers of distracted driving through the media, schools, car dealers, community events, and employers, and test the effectiveness of using personal stories/tragedies to impact teens and middle school students' behaviors.					
Steps for Implementation	<div>1. Develop age-specific messages crafted into public service announcements (PSAs) for targeted media (i.e., PSAs for pre-teen/teen radio stations and media geared to that age group; PSAs for older adults to appropriate media). (Participating organizations: TxDOT, Distracted Driving Area Emphasis Team, and marketing firm)</div> <div>2. Identify appropriate media targeted to each age group. (Participating organizations: TxDOT and marketing firm)</div> <div>3. Develop and print materials and information that can be used as resource material or handouts at various events, meetings, businesses, etc. (Participating organizations: TxDOT and marketing firm)</div> <div>4. Establish a clearinghouse to provide information to interested parties; identify additional champions to market and promote messages and materials to individuals and companies, automobile associations/manufacturers/car dealers, and other organizations for community events; and provide educational materials, messages, and handouts to Texas regional education centers for distribution to schools in each region. (Participating organizations: TxDOT and marketing firm)</div>					
Participating Organizations	See above for each step, in addition to probation officers, courts, media, parents, and school systems.					
Effectiveness	★★★★★	Cost to Implement	\$\$\$\$\$	Time to Implement	<div><div></div><div></div><div></div></div> <div>ShortLong</div>	
Barriers	<div><div>• Limited funding.</div><div>• Cohesive organized effort.</div><div>• Legislative roadblocks.</div><div>• Public pushback.</div><div>• State agencies.</div><div>• Buy-in from different age groups.</div><div>• Cultural issues.</div></div>					

New Website Design Preview

Programs and Project List EXAMPLE

Distracted Driving Programs

Emphasis Areas

✕ Distracted Driving

Search for Keywords ...

36 results

AAA Annual Traffic Safety Summit

Organization:

AAA Texas

Description:

Focus on a traffic safety issues such as distraction, drunk, drugged and drowsy driving.

Contact:

Kara Thorp

thorp.kara@aaa-texas.com

[5123834342](tel:5123834342)

Alcohol & Other Drug Awareness

Organization:

AgriLife Extension/Brazos Valley Injury Prevention Coalition

Description:

Alcohol awareness programs in the TxDOT Bryan District

SHSP Inventory Survey

- Statewide database of safety projects/programs
 - Baseline survey last fiscal year
 - Short update survey
 - Emailed out on July 18
 - SHSP Website – click “Tell Us What You’re Doing”
 - Handed out at one-day forums
 - EA team help promote completion of the project/program survey
 - Help populate tracking tool



Strategic Highway Safety Plan (SHSP) Inventory of Safety Projects and Programs

We are collecting information on existing safety projects and programs within Texas as part of the State's Strategic Highway Safety Planning effort. This information will be used to identify a base level of safety activity, identify gaps in our current efforts and help safety professionals determine what other efforts might be needed. Please use a separate page for each project/program.

Agency or Organization Name: _____

Name: _____ Position/Title: _____

Phone #: _____ E-Mail: _____

May we post your contact information on the SHSP website? Yes No

Project or Program Name:													
Project or Program Website:													
Please provide a brief 1-sentence description of the actions or tasks that make up this project or program.	What are the primary goals or objectives of this project or program?												
Does this project or program address any of these crash issue categories? Select all that apply.													
<table border="0"><tr><td>Distracted Driving</td><td>Pedestrian Safety</td><td>Motorcycle Safety</td></tr><tr><td>Impaired Driving</td><td>Roadway & Lane Departures</td><td>Occupant Protection</td></tr><tr><td>Intersection Safety</td><td>Speeding</td><td>Other Safety Category</td></tr><tr><td>Older Road Users</td><td>Bicycle Safety</td><td>Please specify: _____</td></tr></table>		Distracted Driving	Pedestrian Safety	Motorcycle Safety	Impaired Driving	Roadway & Lane Departures	Occupant Protection	Intersection Safety	Speeding	Other Safety Category	Older Road Users	Bicycle Safety	Please specify: _____
Distracted Driving	Pedestrian Safety	Motorcycle Safety											
Impaired Driving	Roadway & Lane Departures	Occupant Protection											
Intersection Safety	Speeding	Other Safety Category											
Older Road Users	Bicycle Safety	Please specify: _____											
What geographic location does this project or program target? Select all that apply.													
City. Please specify: _____													
County. Please specify: _____													
Region. Please specify: _____													
State. Please specify: _____													
Native American Territory. Please specify: _____													
Other. Please specify: _____													
How are you measuring this project or program implementation? Select all that apply.													
Number of intersections treated. How many? _____													
Number of miles treated. How many? _____													
Number of officer-hours of enforcement. How many? _____													
Number of people trained/educated. How many? _____													
Number of people contacted. How many? _____													
Number of crashes or injuries reduced? How many? _____													
Other measure or effort. Please specify: _____													
What is the current status of this project or program?													
Planned, but not started. Anticipated start date: _____													
Underway. Anticipated completion date: _____													
Ongoing (Annual Program) : _____													
Complete, no current activity. Completion date: _____													

SHSP Calendar

- Traffic safety calendar
 - Campaigns
 - Coalition meetings
 - Conferences
 - Forums
 - Training opportunities

One-Day Emphasis Area Forums

- Roadway Departures
 - Wed., August 14; 1:00 PM – 5:00 PM
 - TTI Headquarters (RELLIS), Bryan
- Distracted Driving
 - Thurs., August 15; 1:00 PM – 5:00 PM
 - TTI Headquarters (RELLIS), Bryan



FREE Law Enforcement Training on Pedestrian and Bicycle Laws

- Two sessions
 - Thursday, August 15 or Friday August 16
 - TTI Headquarters RELLIS Campus in Bryan, Texas
 - via Webex
- Texas Commission of Law Enforcement (TCOLE) certification credits will be available.
- Registration link on SHSP website calendar
- Covered in the Course
 - The increasing number of bicycle and pedestrian related crashes and a review of the crash data.
 - Knowledge, skills, and abilities to conduct enforcement for bicyclist and pedestrian safety.
 - Knowledge, skills, and abilities to accurately complete crash reports for bicyclist and pedestrian related crashes.
 - Different bicyclist and pedestrian crash scenarios and how they should be reported.
 - The importance of enforcing bicyclist and pedestrian safety and motivational strategies for increasing it.
 - Texas Transportation Code definitions of the rights and responsibilities for bicyclists and pedestrians.



**LAW ENFORCEMENT TRAINING ON
PEDESTRIAN AND
BICYCLE LAWS**

Register now!

We invite you to participate in a training for law enforcement on pedestrian and bicycle laws to be held in person at TTI Headquarters in Bryan, or via Webex.

DATES:
Thursday, August 15, 2019
10:00 a.m. – 11:00 a.m.
Friday, August 16, 2019
10:00 a.m. – 11:00 a.m.

LOCATION:
TTI Headquarters Building
Room 1124
1111 RELLIS Pkwy, Bryan, TX

Know someone who might be interested?
Please forward along!

Texas Department of Transportation
Texas A&M Transportation Institute

Strategies: Pedestrian Safety Emphasis Area

Strategy Number	Description
1	Improve driver and pedestrian safety awareness and behavior.
2	Reduce pedestrian crashes on urban arterials and local roadways.
3	Improve pedestrians' visibility at crossing locations.
4	Improve pedestrian networks.
5	Improve pedestrian-involved crash reporting.
6	Establish vehicle operating speeds to decrease crash severity.
7	Develop strategic pedestrian safety plans tailored to local conditions.

Strategy #1	Improve driver and pedestrian safety awareness and behavior.
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Countermeasures

Focus	Number	Description	Action Plan
Unintended pedestrians	1A	Educate motorists on appropriate actions if they become stranded on a freeway or high-speed roadway to reduce crashes with unintended pedestrians on high-speed roadways.	✓
Driver awareness	1B	Provide driver and pedestrian safety messages and education. Provide high-visibility enforcement related to pedestrian safety issues.	✓
Impaired pedestrians	1C	Reduce crashes involving impaired and distracted pedestrians. (Adapt impaired-driving messages to impaired walking and biking.)	
Impaired pedestrians	1D	Implement a campaign about drugged and drunk walking. Identify alternatives to impaired walking such as transit, taxis, and transportation network companies (e.g., Uber and Lyft). Work with Teens in the Driver's Seat (a high-school-age program) and U in the Driver's Seat (a college-age program) to create awareness around walking and biking issues for young drivers and pedestrians.	

Strategy #2	Reduce pedestrian crashes on urban arterials and local roadways.
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Countermeasures

Focus	Number	Description	Action Plan
Safe distance	2A	Research the distance needed between safe pedestrian crossings.	✓
Design for pedestrians	2B	Implement pedestrian-oriented design treatments at high-volume pedestrian activity locations.	✓
Pedestrian intervals	2C	Use leading or exclusive pedestrian intervals at signalized intersections (i.e., pedestrian walk signals activate prior to parallel green), high-volume pedestrian-use signaled intersections, and pedestrian push-button locations.	
Policies and programs	2D	Develop and implement a program to assist cities and other agencies to develop policies and implement projects that address common pedestrian crash types.	✓
Traffic control	2E	Disseminate information and training on the effectiveness and appropriateness of pedestrian traffic control measures.	
Urban form	2F	Disseminate information on the connection between urban form (driveway density, setbacks, pedestrian scale, frontage road design speeds, etc.) and safety outcomes. Encourage incorporation into local land use planning and review.	
Every Day Counts	2G	Disseminate information on FHWA's Every Day Counts Safe Transportation for Every Pedestrian for countermeasures for improving pedestrian safety.	

Strategy #3	Improve pedestrians' visibility at crossing locations.
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Countermeasures

Focus	Number	Description	Action Plan
Nighttime visibility	3A	Improve nighttime visibility of pedestrians.	✓
	3B	Merged with 3a	

Strategy #4	Improve pedestrian networks.
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Countermeasures

Focus	Number	Description	Action Plan
Transportation plans	4A	Incorporate pedestrian considerations in transportation plans.	✓
Policy—levels of service	4B	Develop policies to analyze pedestrian levels of service, delay, and network connectivity as part of project development. Develop and disseminate a complete streets policy support guide with model policy and implementation information for local agencies and MPOs.	
Safe crossings	4C	Ensure opportunities for crossing arterials/highways safely. Consider the overall pedestrian network and travel desire lines. Consider setting standards or guidelines for the distance between safe crossings given land uses, densities, and roadway function. Provide safe crossings of freeways.	
Connected networks	4D	Create connected pedestrian networks and remove barriers to pedestrian travel (pedestrian over/underpasses and crossings to overcome physical barriers).	

Strategy #5	Improve pedestrian-involved crash reporting.
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Countermeasures

Focus	Number	Description	Action Plan
Crash type	5A	Work to include crash typing in pedestrian crash reporting. Use the Pedestrian Crash Analysis Tool (PBCAT) for categories on crash typing.	
Definition of pedestrian crashes	5B	Add fields to the standard crash report form (CR-3) to better define pedestrian crashes and provide additional detail on the specifics of each crash. This includes those needed to use the PBCAT and develop law enforcement roll-call videos on the need for and uses of pedestrian crash data.	✓

Strategy #6	Establish vehicle operating speeds to decrease crash severity.
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Countermeasures

Focus	Number	Description	Action Plan
Target speeds—pedestrians	6A	Encourage use of target speeds that consider pedestrians, land use, and the roadway context (e.g., a target speed of 35 mph or less on arterials). Other examples are to provide design flexibility guidance for techniques to reduce operating speeds on surface streets; encourage use of tree-lined medians, bicycle lanes, and safe and attractive pedestrian crossings and walkways; and support use of traffic calming for local streets.	✓
Target speeds—all users	6B	Design new roadways for a target speed appropriate for the adjacent environment and safety of all users rather than for a design speed intended to maximize motor vehicle speeds.	✓

Strategy #7	Develop strategic pedestrian safety plans tailored to local conditions.
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Countermeasures

Focus	Number	Description	Action Plan
Pedestrian Safety Action Plans	7A	Develop Pedestrian Safety Action Plans (PSAPs) in urbanized areas. Identify and create funding sources.	✓
State Action Plan	7B	Develop a Pedestrian State Action Plan.	✓

Unintended Pedestrians Countermeasure (1A) Action Plan

Educate motorists on appropriate actions if they become stranded on a freeway or high-speed roadway to reduce crashes with unintended pedestrians on high-speed roadways.

Element	Description
Steps for Implementation	<ol style="list-style-type: none">1. Develop a public service announcement campaign for both motorists and pedestrians. This includes developing campaign materials including audio, television, social media, dynamic message sign messages, and potential giveaways. Implement the campaign using a data-driven approach to identify designated outreach regions and time frames.2. Expand courtesy patrol programs. Develop service levels (service hours, services provided, and call times). Determine how to dispatch and receive calls (new facility, new phone lines, and new dispatch equipment). Purchase equipment, and hire and train staff.
Participating Organizations	TxDOT, regional mobility agencies, metropolitan planning organizations (MPOs), toll authorities, and county and city agencies
Effectiveness	** to ***
Cost to Implement	\$\$ to \$\$\$
Time to Implement	Medium
Barriers	<ul style="list-style-type: none">• Concise messaging of what to do (to get out or not get out of the car because of things such as fire).• <i>Manual on Uniform Traffic Control Devices</i> (allowable dynamic message sign messages).• What is the hook? How to make this interesting?• Funding.• Educating people on availability of services and how to contact agencies for those services.• Availability of employee or staff pool.

Notes:

1. Stay in the vehicle and call for help (Steer It and Clear It).
2. Consider policies for, and enforcement of, moving over and/or encouragement for motorists to move over and away from stranded cars and roadside pedestrians (safe passing law). Examples are expansion of the move over/slow down law, safe passing laws such as the San Antonio ordinance, and proposed statewide legislation.

Driver Awareness Countermeasure (1B) Action Plan

Provide driver and pedestrian safety messages and education. Provide high-visibility enforcement related to pedestrian safety issues.

Element	Description
Steps for Implementation	<ol style="list-style-type: none">1. Identify educational materials and campaigns for pedestrians and motorists (e.g., Walk.Bike.Safe, Look Out Texans, Watch for Me—North Carolina).2. Identify an agency or group to lead the pedestrian safety campaigns.3. Identify common traffic violations by motorists and pedestrians.4. Identify target locations where behaviors are prevalent (high-volume pedestrian areas such as schools, social activities, and bus stops).5. Develop a partnership with law enforcement agencies to provide high-visibility enforcement of targeted behaviors. (Also, reward those who are following the rules.)6. Work to incorporate information on motorist and pedestrian responsibilities into driver training materials and manuals.7. Work to revise the driver's license test to include a pedestrian-related question or questions.8. Work to incorporate pedestrian safety information in required defensive driving classes.
Participating Organizations	DPS and other law enforcement agencies; municipal, county, and regional transportation agencies; pedestrian advocates; driver training providers; engineers; public health agencies; and city planners
Effectiveness	**
Cost to Implement	\$ to \$\$
Time to Implement	Medium
Barriers	<ul style="list-style-type: none">• Finding local champions.• Obtaining law enforcement buy-in.• Finding sustained funding.• Changing driver training and testing requirements.• Changing defensive driving training requirements.

Safe Distance Countermeasure (2A) Action Plan

Research the distance needed between safe pedestrian crossings.

Element	Description
Steps for Implementation	<ol style="list-style-type: none">1. Develop a research problem statement regarding the maximum desirable distance between safe pedestrian crossings. (Participating organization: TTI)2. Submit problem statements to potential funding sources. (Participating organizations: TxDOT, TTI, and city agencies)3. Conduct a research project to investigate the distance between pedestrian crossings. (Participating organizations: TxDOT and TTI)4. Disseminate information from the research project. (Participating organization: TxDOT)5. Based on guidance from TxDOT, FHWA, TTI, and others, identify roadway sections potentially in need of safe pedestrian crossing retrofits; develop a prioritized ranking of these locations for retrofitting to increase safety. (Participating organizations: local jurisdictions)6. Incorporate this prioritized list into existing planning and funding decision-making processes. (Participating organizations: local jurisdictions)
Participating Organizations	See above for each step.
Effectiveness	**
Cost to Implement	\$
Time to Implement	Short
Barriers	<ul style="list-style-type: none">• Funding.• Engineering acceptance of findings.

Note: Develop criteria for the maximum desirable distances between safe crossing opportunities for different roadway classifications. Consider FHWA materials on Safe Transportation for Every Pedestrian (STEP), level-of-service calculations for all users at signalized intersections, and the typical distance a pedestrian will walk before crossing the street at an unsignalized location. The recommendations may vary by functional classification (e.g., arterial versus local street) and by context (e.g., rural versus urban core). The recommendations may also vary by treatment type (e.g., traffic control signal or pedestrian hybrid beacon versus markings and sign only with no supplemental beacons).

Design for Pedestrians Countermeasure (2B) Action Plan

Implement pedestrian-oriented design treatments at high-volume pedestrian activity locations.

Element	Description
Steps for Implementation	<ol style="list-style-type: none">1. Compile and disseminate methods to identify characteristics of, or locations with, higher pedestrian risk. (Participating organizations: TxDOT, MPOs, and local transportation and police agencies)2. Identify locations with higher probability for pedestrian crashes based on characteristics, risk, and public input. (Participating organizations: TxDOT, MPOs, local governments, community organizations, school districts, transit agencies, and neighborhoods)3. Identify appropriate lead organization(s). (Participating organizations: TxDOT and local governments)4. Identify suitable treatment(s). Review available pedestrian design guidelines and practices in Texas, in the United States, and internationally. (Participating organizations: TxDOT and local agencies)5. Identify and secure funding. (Participating organizations: TxDOT, MPOs, and local agencies)6. Implement the treatment. (Participating organizations: TxDOT and local agencies)7. Educate the public about the treatment. (Participating organizations: TxDOT, local agencies, public information officers, the news media, school districts, and the medical community)8. Evaluate the efficacy of the treatment. (Participating organizations: TxDOT and local partners)
Participating Organizations	See above for each step.
Effectiveness	***
Cost to Implement	\$\$
Time to Implement	Medium to long
Barriers	<ul style="list-style-type: none">• Funding.• Engineering acceptance of treatments.• Political will.• Public support and education.

Policies and Programs Countermeasure (2D) Action Plan

Develop and implement a program to assist cities and other agencies to develop policies and implement projects that address common pedestrian crash types.

Element	Description
Steps for Implementation	<ol style="list-style-type: none">1. Build awareness by documenting the extent of the pedestrian fatality and injury issue in the local area. (Participating organizations: TxDOT, FHWA, MPOs, and city agencies)2. Document and disseminate information about existing programs in Texas, in the United States, and internationally. (Participating organizations: TxDOT, FHWA, MPOs, and research agencies)3. Provide information on STEP. Identify local leaders. (Participating organizations: TxDOT, FHWA, and local organizations and advocacy groups)4. Develop the program. Target motorists and pedestrians. (Participating organizations: TxDOT, FHWA, MPOs, city agencies, and local organizations and advocacy groups)5. Identify partners in the local area. (Participating organizations: TxDOT, local agencies, community safety and assistance organizations, neighborhoods, school districts, transit agencies, medical community, law enforcement, and business entities that generate pedestrian activity)6. Implement the program. (Participating organizations: local agencies)7. Evaluate the efficacy of the program and share results with stakeholders. (Participating organizations: TxDOT and local agencies)
Participating Organizations	See above for each step.
Effectiveness	**
Cost to Implement	\$
Time to Implement	Medium to long
Barriers	<ul style="list-style-type: none">• Funding.• Political will.• Public support and education.• Lack of champions.

Nighttime Visibility Countermeasure (3A) Action Plan

Improve nighttime visibility of pedestrians.

Element	Description
Steps for Implementation	<ol style="list-style-type: none">1. Identify locations and conditions where nighttime visibility of pedestrians is a concern (e.g., bus stops and high-nighttime-activity areas).2. Identify suitable treatments. (See examples in the note below.)3. Identify and secure funding.4. Implement the treatments.5. Educate the public on looking for pedestrians at night and being visible while walking.6. Evaluate the efficacy of the treatments and share information with stakeholders.
Participating Organizations	TxDOT, local agencies, MPOs, news media, school districts, community safety and assistance organizations, AARP, injury prevention associations, utility (lighting) companies, transit agencies, and research agencies
Effectiveness	**
Cost to Implement	\$\$
Time to Implement	Medium
Barriers	<ul style="list-style-type: none">• Funding.• Public support and education.• Coordination between groups and agencies.

Note: Examples are use of visible/reflective clothing by pedestrians, pedestrian-illuminating lighting on urban corridors, midblock crosswalk lighting in accordance with FHWA guidance, and smart lighting to illuminate when pedestrians are detected. Identify target audiences for information dissemination.

Transportation Plans Countermeasure (4A) Action Plan

Incorporate pedestrian considerations in transportation plans.

Element	Description
Steps for Implementation	<ol style="list-style-type: none">1. Inventory existing pedestrian facilities.2. Review existing transportation plans, and revise plans to incorporate appropriate features where needed.3. Prioritize locations for improvements based on gaps, transit routes, and community input.4. Secure funding for improvements.5. Design projects.6. Construct improvements.7. Develop public education materials and disseminate them.
Participating Organizations	TxDOT, government agencies, consultants, contractors, and public
Effectiveness	**
Cost to Implement	\$\$
Time to Implement	Short to medium
Barriers	<ul style="list-style-type: none">• Public.• Politics.• Amount of space to work in.

Notes:

1. Prioritize pedestrian safety and considerations for mobility and accessibility in the context of land use and roadway environment.
2. Prioritize improvements to fill gaps in networks and crossings within ¼ mile of bus stops and ½ mile of other mass transportation.
3. Provide appropriate features along the pedestrian network (wide shoulders, sidewalks, pedestrian crossing treatments, and pedestrian refuge islands).

Definition of Pedestrian Crashes Countermeasure (5B) Action Plan

Add fields to the CR-3 to better define pedestrian crashes and provide additional detail on the specifics of each crash. This includes those needed to use the PBCAT and develop law enforcement roll-call videos on the need for and uses of pedestrian crash data.

Element	Description
Steps for Implementation	<ol style="list-style-type: none">1. Gather requirements, and identify minimum and desirable data elements.2. Prepare cost estimates and prioritize elements.3. Test with law enforcement and TxDOT staff.4. Update forms, develop a communications plan, and revise training.5. Implement.
Participating Organizations	TxDOT, law enforcement agencies, and PBCAT analysts
Effectiveness	**
Cost to Implement	\$\$
Time to Implement	Medium
Barriers	<ul style="list-style-type: none">• Funding.• Contract.• Standardization of data.

Target Speeds—Pedestrians Countermeasure (6A) Action Plan

Encourage use of target speeds that consider pedestrians, land use, and the roadway context (e.g., a target speed of 35 mph or less on arterials). Other examples are to provide design flexibility guidance for techniques to reduce operating speeds on surface streets; encourage use of tree-lined medians, bicycle lanes, and safe and attractive pedestrian crossings and walkways; and support use of traffic calming for local streets.

Element	Description
Steps for Implementation	<ol style="list-style-type: none">1. Work with a diverse set of jurisdictions, including TxDOT districts—as well as diverse stakeholders including those representing people with disabilities, pedestrians, business districts, low-income communities, and transit providers—to explore benefits and barriers to implementation of slower target speed concepts. Draw from the National Association of City Transportation Officials and American Association of State Highway and Transportation Officials guidance for designing urban streets with appropriate speeds, the recent Florida Department of Transportation design manual overhaul, and the Netherlands Sustainable Safety Approach—including the concept of management of kinetic energy. (Participating organization: TxDOT)2. Provide guidance regarding the ability to set speed limits based on the target speed concept (e.g., USLimits2). (Participating organizations: FHWA and TxDOT)3. Consider potential changes to Sec. 545.356 of the Transportation Code, “Authority of Municipality to Alter Speed Limits,” to allow cities to use target speed limits and remove unintended barriers to implementation of safe neighborhood streets. (Participating organizations: Texas Legislature and governor)4. Implement pilot programs to develop pilot arterial and collector slow zones and other safe design speed pilots across the state in various jurisdictions and various overlapping bureaucracies. (Participating organizations: city and county agencies, Texas Legislature, and governor)5. Evaluate the effectiveness and how to spread effective treatments of pilot slow zones and other safe design speed treatments. (Participating organizations: city agencies and TxDOT)6. Write guidance on road design to achieve target speed based on lessons learned, best practices, and proven countermeasures. (Participating organizations: city agencies and TxDOT)7. Build and retrofit streets with target speeds that consider pedestrians, land use, and the roadway context. (Participating organizations: city and county agencies, Texas Legislature, and governor)

Target Speeds—Pedestrians Countermeasure (6A) Action Plan (continued)

Encourage use of target speeds that consider pedestrians, land use, and the roadway context (e.g., a target speed of 35 mph or less on arterials). Other examples are to provide design flexibility guidance for techniques to reduce operating speeds on surface streets; encourage use of tree-lined medians, bicycle lanes, and safe and attractive pedestrian crossings and walkways; and support use of traffic calming for local streets.

Element	Description
Participating Organizations	See above for each step.
Effectiveness	***
Cost to Implement	\$
Time to Implement	Medium to long
Barriers	<ul style="list-style-type: none">• Misperception that congestion or commuter delay is a bigger problem than crashes, when crashes in fact impose a much higher cost on Texans. (References: Farm and City [http://www.farmandcity.org/2017/09/05/how-much-do-traffic-crashes-cost-the-people-of-texas-a-162-billion/] and U.S. Department of Transportation [https://www.transportation.gov/sites/dot.gov/files/docs/briefing-room/305216/infrastructure-initiative-booklet.pdf].)• Public perception of the need for speed and lack of understanding of how safe, multimodal streets can provide greater access, shorter trips, and even quicker vehicle trips when crashes are avoided.• Institutional inertia, which will require leadership, taking concerns seriously, and working through issues to allow the possibility of arriving at results that may seem heretical to many dedicated professionals at various levels of the transportation system.• Lack of local experience with pedestrian-compatible operating speeds—in terms of users, decision makers, and practitioners.• Interpretations of the 85th percentile rule, which some might perceive conflicts with this.• Texas laws. Texas law bars cities from using 20-mph speed limits on neighborhood streets. Sec. 545.356 of the Transportation Code requires difficult reporting requirements that some cities say are impossible to meet and thus are seen as a limiting factor for establishing 25-mph speed limits, which this section is intended to allow. Some cities believe that target and design speeds cannot be set lower than the speed limit, essentially creating a de facto lower limit on the safety of designs at the 30-mph design speed.• Reasonable interpretations of this sentence from the TxDOT Procedures for Establishing Speed Zones: “New or reconstructed roadways (and roadway sections) should be designed to accommodate operating speeds consistent with the roadway’s highest anticipated posted speed limit based on the roadway’s initial or ultimate function.”

Target Speeds—All Users Countermeasure (6B) Action Plan

Design new roadways for a target speed appropriate for the adjacent environment and safety of all users rather than for a design speed intended to maximize motor vehicle speeds.

Element	Description
Steps for Implementation	<ol style="list-style-type: none">1. Design pilot urban arterials with target speeds of 35 mph or less, pilot local streets with target speeds of 30 mph or less, and pilot neighborhood streets with target speeds of 20 mph, according to National Association of City Transportation Officials and American Association of State Highway and Transportation Officials guidance. (Participating organizations: local jurisdictions)2. Implement design changes on local and neighborhood streets using interim, low-cost street redesign strategies to achieve safe vehicle operating speeds. (Participating organizations: local jurisdictions)3. Monitor vehicle speeds before and after implementation of interim design changes. (Participating organizations: local jurisdictions)4. Integrate safe target speeds into street hierarchy and design manuals, such that all new street construction and retrofits incorporate the benefits of pedestrian-compatible target speed design. (Participating organizations: local jurisdictions)5. Study costs and benefits of pedestrian-compatible target speed implementations across the state. (Participating organizations: TxDOT and various research institutions)
Participating Organizations	See above for each step.
Effectiveness	***
Cost to Implement	\$
Time to Implement	Medium to long

Target Speeds—All Users Countermeasure (6B) Action Plan (continued)

Design new roadways for a target speed appropriate for the adjacent environment and safety of all users rather than for a design speed intended to maximize motor vehicle speeds.

Element	Description
Barriers	<ul style="list-style-type: none">• Misperception that congestion or commuter delay is a bigger problem than crashes when crashes in fact impose a much higher cost on Texans. (References: Farm and City [http://www.farmandcity.org/2017/09/05/how-much-do-traffic-crashes-cost-the-people-of-texas-a-162-billion/] and U.S. Department of Transportation [https://www.transportation.gov/sites/dot.gov/files/docs/briefing-room/305216/infrastructure-initiative-booklet.pdf].)• Public perception of the need for speed and lack of understanding of how safe, multimodal streets can provide greater access, shorter trips, and even quicker vehicle trips when crashes are avoided.• Institutional inertia, which will require leadership, taking concerns seriously, and working through issues, to allow the possibility of arriving at results that may seem heretical to many dedicated professionals at various levels of the transportation system.• Lack of local experience with pedestrian-compatible operating speeds—in terms of users, decision makers, and practitioners.• Interpretations of the 85th percentile rule, which some might perceive conflicts with this.• Texas laws. Texas law bars cities from using 20-mph speed limits on neighborhood streets. Sec. 545.356 of the Transportation Code requires difficult reporting requirements that some cities say are impossible to meet and thus are seen as a limiting factor for establishing 25-mph speed limits, which this section is intended to allow. Some cities believe that target and design speeds cannot be set lower than the speed limit, essentially creating a de facto lower limit on the safety of designs at the 30-mph design speed.• Reasonable interpretations of this sentence from the TxDOT Procedures for Establishing Speed Zones: “New or reconstructed roadways (and roadway sections) should be designed to accommodate operating speeds consistent with the roadway’s highest anticipated posted speed limit based on the roadway’s initial or ultimate function.”

Pedestrian Safety Action Plans Countermeasure (7A) Action Plan

Develop PSAPs in urbanized areas. Identify and create funding sources.

Element	Description
Steps for Implementation	<ol style="list-style-type: none">1. Encourage Texas MPOs, cities, and counties to study pedestrian safety and develop PSAPs, but allow a local broader set of options that include coordination with Vision Zero Action Plans, other safety plans, or active transportation plans (identified solely as PSAPs in further steps). (Participating organizations: FHWA, MPOs, and city and county agencies)2. Develop regional and local PSAPs. (The first wave is FHWA focus cities/regions.) (Participating organizations: FHWA, MPOs, and local agencies)3. Work with MPOs to use existing funding flexibilities to implement PSAP action items and for additional PSAP development. (Participating organizations: FHWA, MPOs, TxDOT, Texas Transportation Committee, and advocates)4. Explore opportunities for funding to encourage wider-spread adoption of PSAPs. (Participating organizations: MPOs, advocates, TTI, and Texas Legislature)5. Implement PSAP action items. (Participating organizations: MPOs and local agencies)6. Evaluate effectiveness and report to stakeholders. Consider the ability to scale to additional communities. (Participating organizations: TxDOT and TTI)
Participating Organizations	See above for each step.
Effectiveness	*** (PSAPs are FHWA's lead intervention for cities with high levels of pedestrian fatalities and serious injuries. Cities with PSAPs include New York City, San Francisco, Los Angeles, San Antonio, Austin, and Fort Worth.)
Cost to Implement	\$ to \$\$
Time to Implement	Medium to long

Pedestrian Safety Action Plans Countermeasure (7A) Action Plan (continued)

Develop PSAPs in urbanized areas. Identify and create funding sources.

Element	Description
Barriers	<ul style="list-style-type: none">• Local champions, who may be reluctant to identify safety areas of concern or to commit to additional physical infrastructure, or who may lack the staff capacity to take on additional planning activities.• Cities' and MPOs' need for executive leadership support or champions, which ensure plans can be completed and implemented.• Need for funding (but minimal compared to potential impact).• Need for a balanced approach to transportation considering all modes (solutions that benefit all modes).• Lack of understanding of pedestrian danger/risk and complete multimodal safety performance (pedestrian fatalities make up more than 25% of traffic fatalities in urban areas).• Collaboration and cooperation required by broad groups of jurisdictions and levels of government.• Disagreements about effective pedestrian safety strategies (which are also opportunities for this program).

State Action Plan Countermeasure (7B) Action Plan

Develop a Pedestrian State Action Plan.

Element	Description
Steps for Implementation	<ol style="list-style-type: none">1. Gain members with a diverse group of advocates.2. Develop a statewide pedestrian action plan.3. Incorporate goals of other plans, taking local plans into consideration when appropriate.4. Develop a coalition to distribute the plan to local areas throughout the state.5. Establish a funding stream.6. Collect and monitor data continually.
Participating Organizations	TxDOT, TTI, municipalities, law enforcement agencies, advocacy agencies, emergency response agencies, and engineers
Effectiveness	The statewide plan is a further refinement of the emphasis area included in the Strategic Highway Safety Plan. The plan will incorporate effective countermeasures.
Cost to Implement	\$
Time to Implement	Medium
Barriers	<ul style="list-style-type: none">• Funding for local implementation.• Maintaining and increasing momentum.• Cost reimbursement.• Retirees leaving organizations without leaving lessons learned or transferring knowledge.• Government limitations with state funding; members of coalitions may lobby the legislature for more funding.• Bringing in important stakeholders possibly through a pedestrian advisory committee.• Difficulty in reaching the target population.• Difficulty in evaluation. It is unclear how many entities have adopted local plans based on a statewide plan.