



ACTION PLAN 2023

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**Strategic Goal:** Reduce the number of pedestrian's fatalities and serious injuries.

Fatality Goal: Reduce the 5-year moving average of pedestrian fatalities from 100 to 92 within the next 5 years.

Serious Injury Goal: Reduce the 5-year moving average of pedestrian serious injuries from 311 to 277 within the next 5 years.

Team leaders: Abelardo Achecar (PRTSC) and Carlos Fernández (PRHTA)

Action Code	4Es	Description of Action	Action Leader
Strategy 1.1 - Improve	the highway ir	ifrastructure for pedestrians (i.e., add sidewalks, install lighting).	
1.1.1	Engineering	Implement a nationally proven countermeasure to improve pedestrian's safety (i.e., STEP initiatives, lighting on pedestrian bridges, share road signing).	PRHTA
1.1.2	Engineering	Support Work Zone Safety committee in operating procedure (SOP) or public policy to enhance pedestrian safety as part of the MOT designs.	PRHTA
1.1.3	Engineering	Collaborate and support municipalities to improve pedestrian facilities.	PRHTA
Strategy 1.2 - Educate	about the socia	al impact of pedestrian crashes and fatalities (i.e., statistics, locations).	
1.2.1	Education	Develop an educational training for planners, engineers, and architects for the design of pedestrians' facilities.	PRHTA, Professional Organizations
1.2.2	Education	Coordinate with Pedestrian Task Force educational campaigns, including police mobilizations, associated to access of pedestrian crossings.	PRTSC
1.2.3	Education	Perform educational activities oriented to drivers and pedestrians' rights focusing on sharing the road.	PRTSC, Third Sector
1.2.4	Education	Develop a digital repository for the educational materials available to safety educators, SHSP Website.	PRHTA, Information Systems





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Team leaders: Abelardo Achecar (PRTSC) and Carlos Fernández (PRHTA)

Action Code	4Es	Description of Action	Action Leader
Strategy 1.3 - Incorpor	ate pedestrian sa	afety into land use and design plans and guides.	
1.3.1	Engineering	Achieve the Puerto Rico Complete Street Guideline as a PRHTA design directive.	PRHTA,PRTSC
1.3.2	Engineering	Establish a communication channel between the Pedestrian's Task Force and Design Office to monitor the implementation of the guidelines.	PRHTA, Third Sector
1.3.3	Education	Continue educating the community of transportation professionals on the implementation rules and available funds for the Complete Streets Guidelines.	LTAP
1.3.4	Engineering	Promote a SOPs that includes pedestrian volumes and Accessible Pedestrian Signal (APS) evaluations when designing intersections.	PRHTA
1.3.5	Engineering	Develop protocols and a statewide database for collecting and integrating pedestrian counts into transportation planning and investment decisions.	PRHTA





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Action Code	4Es	Description of Action	Action Leader		
Strategy 1.4 - Strength	Strategy 1.4 - Strengthen educational programs at all levels.				
1.4.1	Education	Create awareness among car insurance companies about the real impact of traffic crashes in Puerto Rico and worldwide.	PRTSC		
1.4.2	Education	Coordinate with the Puerto Rico LTAP trainings for municipalities regarding the importance of designs and maintenance of pedestrians' facilities.	PRHTA, LTAP		



## Traffic Record Systems



## **Traffic Record Systems**





**Strategic Goal:** Create a data warehouse integrating traffic records systems and improve the accessibility, timeliness and uniformity of the crash system.

Fatality Goal: Reduce the time for crash data availability from 358 days to 60 days

Team leaders: Ariana Peña (PRTSC) and Edgardo Castro (PRP)

Action Code	4Es	Description of Action	Action Leader
Strategy 2.1 - Maximiz	e the scope of size	x (6) traffic data systems (integration, interface, and storage).	
2.1.1	Engineering	Provide access to crash database to government agencies and municipalities.	TRCC Coordinator
2.1.2	Education	Conduct an assessment to identify which government agencies (state and municipal) use the crash database, for what purposes, and what type of analysis they perform.	PRHTA, TRCC
2.1.3	Engineering	Identify which government agencies or non-profit entities can benefit from using the crash database and how they can incorporate this data into their work plans.	PRHTA, TRCC
2.1.4	Engineering	Conduct an assessment of which data-driven road safety analysis are currently used by federal, state, and local government agencies and nonprofit entities.	PRHTA, TRCC
2.1.5	Engineering	Enhance the use of GIS tools to locate traffic crashes.	PRTSC
2.1.6	Engineering	Enhance the use of GIS tools to locate traffic crashes.	PRTSC
2.1.7	Engineering	Identify additional resources to provide global positioning tools for officers (i.e., GPS tracker) to obtain crash coordinates at the time of the incident.	PRTSC, FMSCA

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Team leaders: Ariana Peña (PRTSC) and Edgardo Castro (PRP)

Action Code	4Es	Description of Action	Action Leader		
2.3.2	EMS	Define a reasonable time to receive BAC data in cases of serious or fatal crashes.	PRTSC		
2.3.3	EMS	Evaluate the need of the Institute of Forensic Sciences and the Department of Health to comply with BAC data collection in cases of serious and fatal crashes in a reasonable time.	PRTSC		
Strategy 2.4 - Improve	Strategy 2.4 - Improve the capacities and processes to identify repeat drivers for cases of alcohol.				
2.4.1	Enforcement	Develop and evaluate statistics of cases of recidivism for driving under the influence of alcohol.	PRTSC, PRJD		
Strategy 2.5 - Improve the capacities and processes to identify repeat drivers due to negligence.					
2.5.1	Engineering	Maintain traffic citation and crash information in a central database which provides timely access to traffic safety agencies.	TRCC Committee, PRDTPW		

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Action Code	4Es	Description of Action	Action Leader	
2.1.8	Education	Assist the supervisor of the Accident Analysis Office to present a proposal to PRTSC to meet their needs.	PRHTA, TRCC	
2.1.9	Education	Give individual support to each traffic data system to achieve a better internal organization.	TRCC Committee	
Strategy 2.2 - Support	the implementat	tion of PPR-621.4.		
2.2.1	Enforcement	Complete the documents or references related to the PPR-621.4.	TRCC Committee	
2.2.2	Education	Support the development of the training schedule for the effective implementation of the PPR-621.4 on-site.	TRCC Committee	
2.2.3	Engineering	Establish the necessary protocols between road safety agencies for the communication of data obtained with PPR-621.4.	TRCC Committee	
Strategy 2.3 - Improve the processes to obtain notifications of the results of the Blood Alcohol Content (BAC).				
2.3.1	EMS	Develop a protocol to obtain short-term data, considering the current limitations.	PRTSC	



## Emergency Medical Services



## **Emergency Medical Services**





**Strategic Goal:** Improve EMS response capabilities.

**Performance Goal:** Increase the number of ambulance (Type III according to FMCSA's standards) in Puerto Rico from 442 to 450 in the next years.

Team leaders: Josué Cruz (TIM) and Victor Vargas (PREMSB)

Action Code	4Es	Description of Action	Action Leader	
Strategy 3.1 - Educate	drivers about e	emergency vehicle's priority.		
3.1.1	Education	Identify opportunities for education campaigns and perform activities oriented to educate about responsibilities during highway incidents.	PRHTA, TIM, CST	
3.1.1.1	Education	Prepare a schedule with TIM topics for educational campaigns.	PRHTA, CST	
3.1.1.2	Education	Prepare educational campaign to educate the drivers on how to respond to on-duty emergency responders vehicles.	PRHTA, CST	
3.1.1.3	Education	Discuss with PRITS the possibility of conducting educational campaigns across government agencies.	PRHTA, CST	
3.1.1.4	Education	Promote to provide educational campaigns through CESCO.	PRHTA, CST	
Strategy 3.2 - Continue improving the coordination of emergency medical services personnel with other support and rescue agencies (TIM).				
3.2.1	EMS	Promote the expansion of SEGURO and other Roadside Assistance services.	PRHTA	
3.2.1.1	<del>EMS</del>	Extend the SEGURO coverage to Ponce in the PR-52.	PRHTA	

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Action Code	4Es	Description of Action	Action Leader
3.2.2	EMS	Explore the possibility that the Transport and Other Public Services Bureau regulates to include the TIM training as requirement to first responders (tow operators, private ambulances, etc).	PRHTA
Strategy 3.3 - Promote	Intelligent Tra	nsportation system (ITS) to identify the crash locations and facilitate emergency response.	
3.3.1	Engineering	Develop and publish the RFP to bid the design of ITS deployment projects.	PRHTA
3.3.1.1	Engineering	Develop and publish the RFP to bid the design of ITS deployment projects for PR-1 (Luis Muñoz Rivera Avenue), PR-2 (John F. Kennedy Avenue), PR-20 (Rafael Martínez Nadal Expressway), PR - 66 and complete PR-30 (from km 0 to km 5.8).	PRHTA
3.3.2	Engineering	Continue the operation of the TIM and TMC.	PRHTA
3.3.2.1	Engineering	Complete the procurement process of the TMC.	PRHTA
3.3.3	Engineering	Complete the integration of the DTL ITS deployment in PR-18 and PR-52 into the TMC.	PRHTA

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Strategy 3.4 - Improve	the accessibili	ty of the State ambulance stations.	
3.4.1	EMS	Evaluate the possibility of relocating stations of the Emergency Bureau to locations of the agency (PRHTA) in Guayama, Salinas and Ponce.	PRHTA/PREMSB
3.4.2	Engineering	Start the operation of EMS at PR-66 toll Plaza.	PRHTA
3.4.3	EMS	Implement quick response unit at EMS station at Caguas Norte toll Plaza.	NCEMPR
3.4.4	EMS	Promote coordination efforts between 9-1-1 and PREMSB to configure geofences close to PREMSB stations for quicker response from PREMSB by calls from 9-1-1.	PRHTA/PREMSB
Strategy 3.5 - Continue	e the education	al programs and trainings to enforcement and emergency response personnel for crashes and inci	dent management.
3.5.1	EMS	Continue with the National Traffic Incident Management (TIM) Responder training.	PRHTA
Strategy 3.6 - Promote a law amendment to prohibit the use of strobe lights in regular vehicles (not first responders).			
3.6.1	EMS	Develop a survey to evaluate public's reliability of emergency vehicle's lights.	PRHTA, TIM



## Personal Safety Gear



## **Personal Safety Gear**





**Strategic Goal:** Reduce the number of fatalities and serious injuries of occupants and motorcyclists not using safety gears (seat belt, child restraints, and helmets).

Fatality Goal: 5-year moving average of unrestrained occupant fatalities.

Serious Injury Goal: 5-year moving average of unhelmet motorcyclist fatalities.

Team leaders: Vivian Pedraza (PRTSC) and Ramón Castrillón (PRTSC)

Action Code	4Es	Description of Action	Action Leader	
Strategy 4.1 - Reinforc	e education abou	It the importance of the correct use of personal safety gear (i.e. seat belts, motorcyclists' helmet	s, etc.).	
4.1.1	Education	Perform an extensive occupant protection media campaign using paid advertising and social media network.	PRTSC, Third Sector	
4.1.2	Education	Continue educational activities awareness campaigns, educational materials, workshops, artistic presentations, media and social media campaigns, or research to demonstrate the benefits of safety gears.	PRTSC, Third Sector	
4.1.2.1	Education	Continue educational campaigns and material to promote the use and benefits of motorcycle safety gear.	PRTSC, Third Sector	
4.1.3	Education	Develop a digital repository for the educational materials available to safety educators and public through the TSC website.	PRTSC, PRHTA, Information Systems	
Strategy 4.2 - Continue the law enforcement regarding the required use of personal safety gear for different road users.				
4.2.1	Enforcement	Continue seatbelt and child restraint mobilizations.	PRTSC, PRP	

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Serious Injury Goal: 5-year moving average of unhelmet motorcyclist fatalities.

Team leaders: Vivian Pedraza (PRTSC) and Ramón Castrillón (PRTSC)

Action Code	4Es	Description of Action	Action Leader
Strategy 4.3 - Modify t	he identification	system/driver's license to facilitate law enforcement.	
4.3.1	Education	Continue with the implementation of modifying the driver's identification system and identify additional funding to include municipal fleet.	PRTSC, PRP
Strategy 4.4 - Continue	e the implementa	ation of "Child Restraint System Inspection Station(s)".	
4.4.1	Enforcement	Increase the number of permanent inspection "fitting" stations.	PRTSC
4.4.2	Education	Continue the training and certification of new technicians on child restraint installation.	PRTSC
4.4.3	Enforcement	Continue with the child restraint seat distribution program.	PRTSC
Strategy 4.5 - Conduct enhanced observational studies on the use of personal safety gear.			
4.5.1	Enforcement	Conduct and publish an observational survey to determine the percentage of safety seatbelt usage (front and back seats).	PRTSC, Third Sector

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Action Code	4Es	Description of Action	Action Leader
4.5.2	Enforcement	Develop, conduct, and publish observational surveys to determine the usage percentage of safety seatbelt for all passengers, child restrains (car seats) and other safety gear.	PRTSC, Third Sector
4.5.3	Enforcement	Research national strategies and develop observational surveys to determine the usage percentage of motorcycle helmets and safety gear.	PRTSC, Third Sector
Strategy 4.6 - Promote	e new signage or	the use of portable message signs promoting the use of protective gear on public roads.	
4.6.1	Engineering	Coordinate with TMC to develop schedule and safety messages per year to be display in DMS.	PRHTA
Strategy 4.7 - Promote	having emergen	ncy equipment in every vehicle (e.g., cones, vests, lamps, etc.).	
4.7.1	Education	Maximize the presence of the SHSP educational material in the social media network.	PRHTA
4.7.2	Education	Promote that all vehicles have a basic emergency kit, including flash lights, flags, safety vests, and others, at all times.	PRTSC, Third Sector
4.7.3	Education	Research car dealer regulation to identify ways on how safety basic emergency kit can be included in all their vehicles.	PRTSC, PRDTPW



## Under the influence of alcohol and other substances



# **Under the influence of alcohol and other substances**





**Strategic Goal:** Reduce alcohol-impaired driver fatalities.

**Performance Goal:** To reduce the 5-year moving average of alcohol-impaired driving fatalities from 97 to 90 within the next 5 years.

**Team leaders:** Betty Rivera (PRTSC) and Jimara Gabriel(Justice Department)

Action Code	4Es	Description of Action	Action Leader
Strategy 5.1 - Continue	e the law enforcer	nent related to drivers under the influence of alcohol and other controlled substances (DUI).	
5.1.1	Education	Develop a technical study on the benefits of developing a toxicology laboratory specialized in drugs and alcohol in Puerto Rico.	PRTSC, PRHTA, PRP, PRJD
5.1.2	Education	Expand trainings for law enforcement officers, prosecutors, judges, and chemists when testifying in court.	PRTSC, PRJD, PRP
5.1.3	Education	Support in the coordination of the Standardized Field Sobriety Test (SFST) trainings for law enforcement officials.	PRTSC, PRJD, PRP
5.1.4	Enforcement	Use the 2021 High Crash Location Report results as a guideline in the decision-making process of the Puerto Rico Police roadblocks.	PRTSC, PRJD, PRP
Strategy 5.2 - Orient st	fatal or serious injury crash.		
5.2.1	Education	Perform a literature review about the legal responsibilities of alcohol business sector to local agencies regulations.	PRTSC, PRHTA, PRJD

# **Under the influence of alcohol and other substancces**





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**Performance Goal:** To reduce the 5-year moving average of alcohol-impaired driving fatalities from 97 to 90 within the next 5 years.

Team leaders: Betty Rivera (PRTSC) and Jimara Gabriel(Justice Department)

Action Code	4Es	Description of Action	Action Leader
Strategy 5.3 - Continue	e prevention and e	educational efforts on the impact of driving under the influence of alcohol and other controlled	l substances.
5.3.1	Enforcement	Increase the preventive patrols and roadblocks efforts throughout the year.	PRTSC
5.3.2	Education	Perform educational activities awareness campaigns, educational materials, workshops, artistic presentations, media and social media campaigns, or researches. Include driving under the influence of prescriptions drugs that cause drowsiness.	PRTSC
5.3.3	Education	Perform an impaired driving survey (i.e., web based).	PRTSC
5.3.4	Education	Provide the course of alcohol and other substances prior to taking a driver's license.	PRTSC, PRDTPW
5.3.5	Education	Enhance the continuous education of prosecutors in DWI drivers' cases.	PRTSC, PRJD
5.3.6	Education	Develop a digital repository for the educational materials available to safety educators.	PRHTA, Information Systems

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Team leaders: Betty Rivera (PRTSC) and Jimara Gabriel(Justice Department)

Action Code	4Es	Description of Action	Action Leader
Strategy 5.4 - Evaluate	recidivism and ide	entify ways to improve the effectiveness of drunk driver rehabilitation programs.	
5.4.1	Enforcement	Update the DWI course content within CESCO/ASSMCA (i.e., include topic of the impacts of medical marihuana).	PRDTPW, ASSMCA, PRTSC
Strategy 5.5 - Improve	notifications of B/	AC blood tests in living and/or dead crash victims.	
5.5.1	Education	Conduct Drug Recognition Experts (DRE) certification courses.	PRTSC, PRJD
5.5.2	Enforcement	Improve the communication among Puerto Rico Health Department and Institute of Forensic Science.	PRTSC









Strategic Goal: Reduce speeding related fatalities.

**Performance Goal:** To reduce the 5-year moving average of speeding-related fatalities from 98 to 78 within the next 5 years.

Team leaders: Miguel A. Rodríguez (PRP) and Nelson Ruiz (DISCO)

Action Code	4Es	Description of Action	Action Leader
Strategy 6.1 - Educate	about the impact o	of negligent driving actions in the number of traffic crashes.	
6.1.1	Education	Coordinate and improve educational campaign, including police mobilizations, associated to speeding, aggressive, and distracted drivers, red-light running, etc.	PRTSC
6.1.2	Education	Continue and improve promoting PESET and MAPFRE park service among schools, summer camps, communities and organizations.	PRTSC
6.1.3	Education	Develop a strategic and unified digital repository for the educational materials available to safety educators.	PRHTA, Information Systems
Strategy 6.2 - Coordina	ate preventive poli	ce patrolling in highway segments prone to negligent driving.	
6.2.1	Enforcement	Evaluate and examine ways to implement ghost patrols (alcohol and speed) and develop implementation plan for places susceptible to negligent driving.	PRP
6.2.2	Enforcement	Continue providing support to state and municipal police for speed enforcement mobilization.	PRTSC
6.2.3	Enforcement	Identify additional funds to continue providing equipment to state and municipal police departments to enhance speeding enforcement effort.	PRTSC





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Team leaders: Miguel A. Rodríguez (PRP) and Nelson Ruiz (DISCO)

Action Code	4Es	Description of Action	Action Leader			
Strategy 6.3 - Include of	Strategy 6.3 - Include engineering countermeasures (i.e. traffic calming, work zones, school zones) that discourage speeding and other negligent driving actions.					
6.3.1	Engineering	Evaluate road diet applications to identify the potential for negligent driving solutions and develop an implementation plan	PRHTA			
6.3.2	Education	Coordinate with the Work Zone Safety Committee to discuss their action plan regarding the TMPs revision and training plan.	PRHTA			
Strategy 6.4 - Promote	e the use of Intellig	ent Transportation Systems (ITS) to support negligent driving enforcement.				
6.4.1	Engineering	Evaluate wrong way driving ITS alert system application for potential deployment using DMS.	PRHTA			
6.4.2	Engineering	Evaluate application of speed enforcement in PR.	PRHTA			
6.4.2.1	Engineering	Review Public Order Codes for speed enforcement application.	PRHTA			
6.4.2.2	Engineering	Identify locations for speed enforcement application based on HCLR.	PRHTA			





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Action Code	4Es	Description of Action	Action Leader		
6.4.2.3	Engineering	Develop implementation plan for speed enforcement application.	PRHTA		
6.4.3	Engineering	Revise the existing Traffic Signal System Standard Drawings and Specifications.	PRHTA		
Strategy 6.5 - Strength	en the driver's lice	nse points system and the tools to support it.			
6.5.1	Enforcement	Update the DISCO's official documents and examinations according to PRHTA recommendations for the traffic control devices.	PRDTPW		
Strategy 6.6 - Include I	Strategy 6.6 - Include highway safety as one of the Metropolitan Planning Organization (MPO) meetings' topics.				
6.6.1	Education	Include the highway safety topic in the meetings of the Public Order Codes Committee.	PRHTA		
6.6.2	Engineering	Develop, Coordinate with agency and suggest to MPO recommendations of applications to provide intersections safe after natural disasters.	PRHTA		









**Strategic Goal:** Reduce fatalities related to lane-departure crashes.

**Performance Goal:** To reduce the 5-year moving average of traffic fatalities related to lane-departure crashes from 105 to 88 within the next years.

Action Code	4Es	Description of Action	Action Leader
Strategy 7.1 - Impleme	ent engineering	countermeasures to improve lane delineation and pavement condition.	
7.1.1	Engineering	Conduct Road Safety Assessment according to HCLR.	PRHTA
7.1.1.1	Engineering	Conduct more than 2 RSAs per year.	PRHTA
7.1.1.2	Engineering	Expedite the design procurement process after an RSA is conducted.	PRHTA
7.1.2	Engineering	Develop, continue and/or complete the design and/or construction projects to improve the safety in corridors, hot spots, and/or intersections	PRHTA
7.1.2.1	Engineering	Develop a highway safety considerations checklist or methodology to be incorporated in design projects.	PRHTA





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Action Code	4Es	Description of Action	Action Leader
7.1.3	Engineering	Review the existing Traffic Signal System Standard Drawings and Specifications.	PRHTA
Strategy 7.2 - Educate	about the most co	mmon causes for lane departure and the risks associated.	
7.2.1	Enforcement	Promote that each driver inspects his/her vehicle in a general way (e.g., operation of the lights and condition of the tires, among others).	PRTSC, PRDTPW
7.2.2	Education	Provide a roadside safety training.	PRHTA
7.2.3	Education	Perform educational activities awareness campaigns, educational materials, workshops, artistic presentations, media or social media campaigns oriented to speeding, aggressive, and distracted drivers leaving their lane.	PRTSC
7.2.3.1	Education	Promote educational through the CESCO application	PRHTA, CST





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Action Code	4Es	Description of Action	Action Leader		
Strategy 7.3 - Implem	Strategy 7.3 - Implement engineering countermeasures to remove and/or protect fixed objects in the roadside clear zone.				
7.3.1	Engineering	Upgrade the bridge's parapets and concrete barriers according to MASH .	PRHTA		
7.3.2	Engineering	Complete the demolition phase of MP-T-2015-02: Construction of Open Road Toll System in PR-22 (Metropistas).	PRHTA		
7.3.3	Engineering	Complete the procurement stage of project: Pavement Rehabilitation and Safety Improvements of PR-20, between kilometers 0 and 10, Guaynabo.	PRHTA		
7.3.4	Engineering	Complete the design and procurement stage of project: Pavement Rehabilitation and Safety Improvements of PR-53, between kilometers 0 and 7.2, Fajardo.	PRHTA		





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Action Code	4Es	Description of Action	Action Leader		
Strategy 7.4 - Continue	Strategy 7.4 - Continue analyzing the data to identify high-risk locations.				
7.4.1	Engineering	Implement new strategies for the analysis of high crash locations.	PRHTA/CST		
7.4.1.1	Engineering	Develop safety dashboard to track and monitor high risk locations.	PRHTA		
Strategy 7.5 - Evaluate the need to amend the law to avoid street sales on shoulders or roadside clear zones.					
7.5.1	Engineering	Include the street sales topic in the meetings of the Public Order Codes Committee.	PRHTA		





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Action Code	4Es	Description of Action	Action Leader		
Strategy 7.6 - Evaluate	Strategy 7.6 - Evaluate the effectiveness of the PRDTPW's motor vehicle inspection process				
7.6.1	Engineering	Promote educational campaigns and trainings among commercial transportation companies.	PRHTA, NTSP		
7.6.2	Engineering	Develop, continue and/or complete the design and/or construction of permanent weighing stations.	PRHTA, NTSP		
7.6.2.1	Engineering	Complete the design of a permanent weighing station at the former Juana Díaz Toll Plaza location.	PRHTA		

## **Safety Stakeholders**



