

Program Development: Intersection Safety Improvement Program & Vision Zero

July 6, 2021

Collaboration: Public Works & Public Safety





Align with <u>ALL</u> Strategic Plan Goals:

- Goal 1. Cultivate an Environment Conducive to Strong, Sustainable Economic Development
- Goal 2. Set the Standard for a Safe and Secure City
- Goal 3. Promote the Visual Image of El Paso
- Goal 4. Enhance El Paso's Quality of Life Through Recreational Cultural and Educational Environments
- Goal 5. Promote Transparent and Consistent Communication Amongst All Members of the Community
- Goal 6. Set the Standard for Sound Governance and Fiscal Management
- Goal 7. Enhance and Sustain El Paso's Infrastructure Network
- Goal 8. Nurture and Promote a Healthy, Sustainable Community



Previous Council Action

April 27, 2021

City Council approved to direct the City Manager to develop an Intersection Safety Improvement Program and bring back recommendations as part of the FY2022 budget discussions and to develop the framework for an El Paso Vision Zero program that incorporates all current City traffic safety programs and aligns with the Federal and State Vision Zero programs.



Intersection Safety Improvement Program (ISIP)

Streets and Maintenance





Purpose/Opportunity Statement

Ensure the safety of all road users at intersections in the City of El Paso by analyzing colocations of fatal and serious injury crashes and prioritizing the vulnerable users.













- Crash Year
- Case ID

(City = EL PASO) And ({Crash Year} = 2019)

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REPORT DETAIL

eport Filter:

- Crash Date
- Crash Time
- Reported Road
 Reported Inters
- Reported Intersecting Road
- Crash Latitude
- Crash Longitude

- Intersection Related
- Crash Severity
 - Manner of Collision
 - Light Condition

*Utilize BEST AVAILABLE data

Crash Contributing Factor List

<u>2019</u> – 20,038 collisions

- Pedestrians
- Pedalcyclists
- Total Crashes

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rash Ca ear ID	se Crash Date	Crash Time	Reported Road	Reported Intersecting Road	Crash Latitude	Crash Longitude	Intersection Related	Crash Severity	Manner of Collision	Light Condition	Crash Contributing Factor List	Pedestrians	PedalcyclistsC	Total rashes	Image
019	01/01/2019	12:02	<u>US0054</u>	FM2529	31.94024277	-106.40775299	INTERSECTION	NOT INJURED	ANGLE - BOTH GOING STRAIGHT	DARK,	DISREGARD STOP SIGN OR LIGHT		0	- 1	Imago
019	01/02/2019	3:35 PM	FM0659	SUN FIRE BLVD	31.76909224	-106.26013233	NON INTERSECTION	NOT INJURED	SAME DIRECTION - ONE STRAIGHT- ONE STOPPED	DAYLIGHT	FAILED TO CONTROL SPEED	0	0	1	Image
019	01/10/2019	7:38 PM	<u>IH0010</u>	NOT REPORTED	31.73543113	-106.32025224	NON INTERSECTION	NOT INJURED	SAME DIRECTION - BOTH GOING STRAIGHT-REAR END	DARK, LIGHTED	FAILED TO CONTROL SPEED	0	0	1	Image.
019	01/11/2019	AM	FM0076	N AMERICAS AVE	31.68671189	-106.29844244	NON INTERSECTION	SUSPECTED MINOR INJURY	SAME DIRECTION - ONE STRAIGHT- ONE STOPPED	DARK, LIGHTED	DRIVER INATTENTION; FAILED TO CONTROL SPEED	0	0	1	Image.
019	01/11/2019	PM	E PELICANO DR	TED HOUGHTON DR	31.72833064	-106.27669984	NON INTERSECTION	NOT INJURED	SAME DIRECTION - ONE STRAIGHT- ONE STOPPED	DAYLIGHT	FAILED TO CONTROL SPEED	0	0	1	Image.
019	01/13/2019	AM	N ZARAGOZA RD	MONTWOOD DR	31.75953078	-106.27038199	DRIVEWAY ACCESS	SUSPECTED MINOR INJURY	OPPOSITE DIRECTION - ONE STRAIGHT-ONE STOPPED	DARK, LIGHTED	FAILED TO DRIVE IN SINGLE LANE; HAD BEEN DRINKING	0	0	1	Image.
019	01/14/2019	AM	KENWORTHY	KENWORTHY	0	0	NON INTERSECTION	NOT INJURED	ONE MOTOR VEHICLE - BACKING	DAYLIGHT	BACKED WITHOUT SAFETY; DRIVER INATTENTION	0	0	1	Image.
019	01/16/2019	PM	<u>IH0010</u>	NOT REPORTED	31.82347788	-106.55776859	NON INTERSECTION	SUSPECTED MINOR INJURY	SAME DIRECTION - BOTH GOING STRAIGHT-SIDESWIPE	DAYLIGHT		0	0	1	Image.
019	01/17/2019	PM	CASA VIEW DR	GEORGE DIETER DR BUFF CREEK ST	31.73881864	-106.30233241	NON INTERSECTION NON	SUSPECTED MINOR INJURY	ONE MOTOR VEHICLE - GOING STRAIGHT	DAYLIGHT	FLEEING OR EVADING POLICE; OTHER (EXPLAIN IN NARRATIVE) BACKED WITHOUT SAFETY	0	0	1	Image.
019	01/17/2019	PM	WOLF CREEK DR IH0010	NOT REPORTED	31.88398225	-106.58216596	INTERSECTION NON	NOT INJURED	ONE MOTOR VEHICLE - BACKING ONE MOTOR VEHICLE - GOING	DARK, NOT LIGHTED DAYLIGHT	FAILED TO DRIVE IN SINGLE LANE	0	0	1	Image
019	01/22/2019	PM	FM0659	NOT REPORTED	31.77271662	-106.25623851	INTERSECTION	POSSIBLE	STRAIGHT SAME DIRECTION - BOTH GOING	DAYLIGHT	FAILED TO CONTROL SPEED; FOLLOWED TOO	0	0	1	Image
2019	01/22/2019	AM	SL0375	NOT REPORTED	31.80545685	-106.26824892	INTERSECTION	INJURY NOT INJURED	STRAIGHT-REAR END ONE MOTOR VEHICLE - GOING	DARK,	CLOSELY FAULTY EVASIVE ACTION	0	0	1	Image.
2019	01/24/2019	PM	N NORTH	N NORTHERN	31.88397483	-106.5760703	INTERSECTION	NOT INJURED	STRAIGHT ONE MOTOR VEHICLE - GOING	LIGHTED DARK,	FAILED TO CONTROL SPEED; UNDER INFLUENCE -	0	0	1	Image
019	01/25/2019	AM	DESERT BLVD RICH BEEM	PASS RD TIERRA FLORES	31.80082483	-106.24676038	INTERSECTION	NOT INJURED	STRAIGHT ANGLE - BOTH GOING STRAIGHT	LIGHTED	ALCOHOL DRIVER INATTENTION; FAILED TO YIELD RIGHT OF	0	0	1	Image.
2019	01/26/2019	AM	BLVD US0062	DR TURF RD	31.80851084	-106.25266478	NON	NOT INJURED	SAME DIRECTION - ONE STRAIGHT-	DAYLIGHT	WAY - OPEN INTERSECTION FAILED TO CONTROL SPEED	0	0	1	Image.
019	02/01/2019	AM	IH0010	NOT REPORTED	31.7571656	-106.35266392	INTERSECTION INTERSECTION	NOT INJURED	ONE STOPPED SAME DIRECTION - ONE STRAIGHT-	DAYLIGHT	FAILED TO CONTROL SPEED; FLEEING OR	0	0	1	Image Image
2019	02/01/2019		GILES RD	CAROLINA DR	31.74188485	-106.35401036	RELATED INTERSECTION	NOT INJURED	ONE RIGHT TURN SAME DIRECTION - BOTH GOING	DAYLIGHT	EVADING POLICE FLEEING OR EVADING POLICE; OVERTAKE AND	0	0	1	Image
2019	02/01/2019		MYRA ST	HEID AVE	31.74021003	-106.35376915		NOT INJURED	STRAIGHT-SIDESWIPE ANGLE - ONE STRAIGHT-ONE	DAYLIGHT	PASS INSUFFICIENT CLEARANCE BACKED WITHOUT SAFETY; FLEEING OR EVADING	0	0	1	Image.
2019	02/04/2019		<u>US0085</u>	SS1966	31.75848109	-106.50205113	ACCESS NON	NOT INJURED	BACKING SAME DIRECTION - BOTH GOING	DAYLIGHT	POLICE DRIVER INATTENTION; FAILED TO CONTROL	0	0	1	Image
2019	02/08/2019		JOE BATTLE	MONTWOOD DR	31.76078046	-106.26776917	INTERSECTION INTERSECTION	POSSIBLE	STRAIGHT-REAR END SAME DIRECTION - ONE STRAIGHT-	DAYLIGHT	SPEED TURNED IMPROPERLY - WRONG LANE	0	0	1	Image
2019	02/19/2019	PM 6:09 AM	BLVD SL0375	FM0659	31.76098192	-106.26777143	NON	INJURY NOT INJURED	ONE LEFT TURN SAME DIRECTION - ONE STRAIGHT- ONE STOPPED	DARK, NOT	FAILED TO CONTROL SPEED	0	0	1	Image
2019	02/20/2019		SUN FIRE RD	ZARAGOSA RD	31.76816463	-106.26031065		NOT INJURED	SAME DIRECTION - BOTH GOING STRAIGHT-REAR END	DAYLIGHT	FOLLOWED TOO CLOSELY	0	0	1	Image
2019	02/26/2019		GEORGE	PELLICANO DR	31.74461895	-106.30182333	NON	SUSPECTED	SAME DIRECTION - BOTH GOING	DAYLIGHT	DISTRACTION IN VEHICLE; FAILED TO CONTROL	0	0	1	Image













Data Analysis – Intersection Zoom In





Data Analysis – Cluster Map (Overview)

Map results will tell us – where to further investigate

• Colocation: Locations of concentrated crash types



Data Analysis – Cluster Map (Overview)

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Data Analysis continued...

• Data Dive: Investigate...

- Manner of Collision (right angle, left/right turn, sideswipe, rear-end, etc....)
- Parties involved (pedestrian, cyclist, motorcycle, motor vehicle
- Contributing Factors (Speeding, DWI, Distracted Driving, Damaged/Missing Signage, etc....)

*NOTE: using this current method, additional tweaking to the existing database will need to be conducted

Partner with –

- UTEP Civil Engineering students on data analysis
- TxDOT on solutions for state & local road intersections





In 2008, FHWA began promoting certain infrastructure-oriented safety treatments and strategies, chosen based on proven effectiveness and benefits, to encourage widespread implementation by State, tribal, and local transportation agencies to reduce serious injuries and fatalities on American highways. This became known as the Proven Safety Countermeasures initiative. The list was updated in 2012 and again in 2017.

This list of Proven Safety Countermeasures has now reached a total of 20 treatments and strategies that practitioners can implement to successfully address roadway departure, intersection, and pedestrian and bicycle crashes. Among the 20 Proven Safety Countermeasures are several crosscutting strategies that address multiple safety focus areas.





Reduced Left-Turn Conflict Intersections MUT and RCUT Can Reduce Conflict Points by 50%



Source: FHWA

Geometric designs that alter how leftturn movements occur in order to simplify decisions and minimize the potential for related crashes.

- Restricted crossing U-turn (RCUT) 54%
 ↓ in injury and fatal crashes
- Median U-turn (MUT) 30% ↓ in intersection-related injury and fatal crashes











Access management refers to the design, application, and control of entry and exit points along a roadway.

 25-31% ↓ in injury and fatal crashes along urban/suburban arterials (Source: Highway Safety Manual)



Corridor Access Management

Lee Trevino Median Enhancements_Trawood to Montwood (2020 HSIP Project Awarded Funding, \$247,786 construction, 10% City share, for letting of FY 2022)







Example of countermeasures on the through approach.

Source: South Carolina DOT



This systemic approach to intersection safety involves deploying a group of multiple low-cost countermeasures, such as enhanced signing and pavement markings, at a large number of stop-controlled intersections within a jurisdiction. *It is designed to increase driver awareness and recognition of the intersections and potential conflicts*.

- On the Through Approach
- On the Stop Approach





Systemic Application of Multiple Low-Cost Countermeasures at Stop-Controlled Intersections

- 10% \downarrow in injury and fatal crashes
- 15% \downarrow in nighttime crashes

(Source: Source: T. Le et al, "Safety Effects of Low-Cost Systemic Safety Improvements at Signalized and Stop-Controlled Intersections," 96th Annual Meeting of the Transportation Research Board, Paper Number 17-05379, January 2017.)

Countermeasures installed on both approaches







Leading Pedestrian Intervals



USLIMITS2 helps support speed limit decisions.

Source: Richard Retting

A leading pedestrian interval (LPI) **gives pedestrians the opportunity to enter an intersection 3-7 seconds before vehicles are given a green indication.** LPIs provide the following benefits:

- Increased visibility of crossing pedestrians.
- Reduced conflicts between pedestrians and vehicles.
- Increased likelihood of motorists yielding to pedestrians.
- Enhanced safety for pedestrians who may be slower to start into the intersection.
 - 13% \downarrow in pedestrian-vehicle crashes at intersections

USLIMITS2¹ is a free, web-based tool designed to help practitioners assess and establish safe, reasonable, and consistent speed limits for specific segments of roadway. It is applicable to all types of facilities. **USLIMITS2 helps practitioners assess and establish safe, reasonable, and consistent speed limits.**

"USLIMITS2 acts as an external, impartial, second set of eyes." —Georgia DOT Traffic Engineer Paisano & Mesa
 Airport & Sioux/Cherbourg
 Alameda & Old County







Medians and Pedestrian Crossing Islands in Urban and Suburban Areas A *median* is the area between opposing lanes of traffic, excluding turn lanes. Medians in urban and suburban areas can be defined by pavement markings, raised medians, or islands to separate motorized and nonmotorized road users.

Raised Median: 46% ↓ in pedestrian crashes (Source: Desktop Reference for Crash Reduction Factors, FHWA-SA-08-011, September 2008, Table 11)



Example of a road with a median and pedestrian crossing islands.

Source: City of Charlotte, North Carolina



Median and pedestrian crossing islands near a roundabout.

Source: www.pedbikeimages.org / Dan Burden

A *pedestrian crossing island* (or refuge area) is a raised island, located between opposing traffic lanes at intersection or midblock locations, which *separate crossing pedestrians from motor vehicles*. Consider medians or pedestrian crossing islands in curbed sections of urban and suburban multi-lane roadways, particularly in areas with a significant mix of pedestrian and vehicle traffic and intermediate or high travel speeds.

Pedestrian Crossing Island: 56% in pedestrian crashes (Source: Desktop Reference for Crash Reduction Factors, FHWA-SA-08-011, September 2008, Table 11)







Pedestrian Hybrid Beacons



Medians, Pedestrian Crossings and Pedestrian Hybrid Beacons – TxDOT Project, Locations on Mesa and Dyer Schuster & Hawthorne, Schuster & Prospect, Alameda & Dorbandt



The pedestrian hybrid beacon (PHB) is a traffic control device **designed to help pedestrians safely cross busy or higher-speed roadways at midblock crossings and uncontrolled intersections.** As a safety strategy to address this pedestrian crash risk, the PHB is an intermediate option between a flashing beacon and a full pedestrian signal because it assigns right of way and provides positive stop control.

- 55% \downarrow in pedestrian crashes
- 29% \downarrow in total crashes
- 15% \downarrow in serious injury and fatal crashes

(Source: Zegeer, C., R. Srinivasan, B. Lan, D. Carter, S. Smith, C. Sundstrom, N.J. Thirsk, J. Zegeer, C. Lyon, E. Ferguson, and R. Van Houten. (2017). NCHRP Report 841: Development of Crash Modification Factors for Uncontrolled Pedestrian Crossing Treatments. Transportation Research Board, Washington, D.C.)







Backplates with Retroreflective Borders

Backplates added to a traffic signal indication improve the visibility of the illuminated face of the signal by introducing a controlled-contrast background. Signal heads that have backplates equipped with retroreflective borders are more visible and conspicuous in both daytime and nighttime conditions.

15% \downarrow *in total crashes* (Source: CMF Clearinghouse, CMF ID 1410)



Source: FHWA



•Hawkins & GWEW •Paisano & Trowbridge (Backplates, no reflective



Roundabouts provide substantial safety and operational benefits compared to other intersection types, most notably a reduction in severe crashes. Roundabouts are an effective option for **managing speed and transitioning traffic from high-speed to low-speed environments**.

- Two-Way Stop-Controlled Intersection to a Roundabout: 82% \downarrow in severe crashes
- Signalized Intersection to a Roundabout: 78%
 in severe crashes
 (Source: Highway Safety Manual)



Roundabouts









Road Diets (Roadway Reconfiguration) A Road Diet typically involves converting an existing four-lane undivided roadway to a three-lane roadway consisting of two through lanes and a center two-way left-turn lane (TWLTL).

Recommend corridors for funding (MPO/HSIP)





Before and after photos of a Road Diet project.

Benefits of Road Diet installations may include:

- • of rear-end and left-turn crashes due to the dedicated left-turn lane.
- Image: view of the street of th
- Fewer lanes for pedestrians to cross.
- Opportunity to install pedestrian refuge islands, bicycle lanes, on-street parking, or transit stops.
- Traffic calming and more consistent speeds.
- A more community-focused, "Complete Streets" environment that better accommodates the needs of all road users

4-Lane \rightarrow 3-Lane Road Diet Conversions: 19-47% \downarrow in total crashes

(Source: Evaluation of Lane Reduction "Road Diet" Measures on Crashes, FHWA-HRT-10-053)



Source: City of Orlando, Florida





Yellow Change Intervals

At a signalized intersection, the yellow change interval is the length of time that the yellow signal indication is displayed following a green signal indication. The yellow signal confirms to motorists that the green has ended and that a red will soon follow. Since red-light running is a leading cause of severe crashes at signalized intersections, it is imperative that the yellow change interval be appropriately timed.

- 36-50% ↓ in red light running
- 8-14% ↓ in total crashes
- 12% \downarrow in injury crashes

(Source: NCHRP Report 731, Guidelines for Timing Yellow and All-Red Intervals at Signalized Intersections)



Property-timed yellow change intervals can reduce red-light running and improve overall intersection safety



Source: FHWA

All signalized intersections within the City limits





Walkways

A walkway is any type of defined space or pathway for use by a person traveling by foot or using a wheelchair. **These may be pedestrian** walkways, shared use paths, sidewalks, or roadway shoulders.

- <u>Sidewalks:</u> 65-89% in crashes involving pedestrians walking along roadways
- <u>Paved Shoulders:</u> 70% \$\sqrt{in crashes involving pedestrians walking along roadways

(Source: Desktop Reference for Crash Reduction Factors, FHWA-SA-08-011, Table 11)



Multi-disciplinary team performs field review during an RSA.

Source: FHWA

Road Safety Audits are unique and performed by a multidisciplinary team independent of the project. RSAs **consider all road users, account for human factors and road user capabilities, are documented in a formal report**, and require a formal response from the road owner.

 $10-60\% \downarrow$ in total crashes

(Source: *Road Safety Audits: An Evaluation of RSA Programs and Projects,* FHWA-SA-12-037; and *FHWA Road Safety Audit Guidelines,* FHWA-SA-06-06)

Roseway and Pendale; Complete Streets Policy



Source: pedbikeimages.org / Burden

Source: pedbikeimages.org / Burden









Left and Right Turn Lanes at Two-Way Stop-Controlled Intersections Auxiliary turn lanes—either for left turns or right turns—**provide physical separation between turning traffic that is slowing or stopped and adjacent through traffic at approaches to intersections**. Turn lanes can be designed to provide for deceleration prior to a turn, as well as for storage of vehicles that are stopped and waiting for the opportunity to complete a turn.

- Left-Turn Lanes: 28%-48% \downarrow in total crashes
- **Right-Turn Lanes: 14-26% ↓ in total crashes** (Source: Highway Safety Manual)



Example of left-turn lanes.

Source: FHWA





Intersection Safety Improvement Program Purpose/Opportunity Statement

Ensure the safety of all road users at intersections in the City of El Paso by analyzing colocations of fatal and serious injury crashes and prioritizing the vulnerable users.









Public Works (CID, SaM) Public Safety (EPPD, SaM)





What is Vision Zero?

Vision Zero is

- a strategy to eliminate all traffic fatalities and severe injuries, while increasing safe, healthy, equitable mobility for all.
- a fundamental shift in philosophy and approach to traffic safety.
- acknowledging that business as usual is not enough and that systemic changes are needed in our traffic safety work to make meaningful progress
- prioritizing the preservation and quality of human life





What Makes a Vision Zero Community?

Meet the following minimum criteria:

- A clear goal of eliminating traffic fatalities and severe injuries has been set
- The City Council and Mayor officially commit to Vision Zero
- A Vision Zero plan or strategy is in place, or the City (City Council approval) has committed to doing so in a clear time frame
- Key departments (including transportation, public health and elected officials' offices) are leading

Vision Zero Recognition:

https://visionzeronetwork.org/wp-content/uploads/2018/05/Form_Consideration-for-Recognition-as-Vision-Zero-Community.pdf







Partners

- Core Team: Public Works, Public Health, Public Safety
- Technical Advisory Committee & Vision Zero Commitment:

○ Mayor • City Council ○ El Paso Fire Department ○ El Paso Police Department Planning and Inspections Capital Improvement Department • Parks & Rec • Hospitals School Districts • Border Patrol • City Attorney's Office

 Neighborhood Associations • Economic Development \circ MPO • Transportation Agencies Local Advocacy & Neighborhood **Organizations** ○ International Bridges City-led Committees and Boards ○ GIS ○ Public Outreach





Vision Zero: Foundational Elements





Vision Zero Action Plan: Foundational Elements



- 1. Build a Robust Data Framework (before Action Plan is created)
 - Answers questions like...





Vision Zero Action Plan: Foundational Elements *continued...*



1. Build a Robust Data Framework (before Action Plan is created) continued...

Analysis of Vision Zero data should lead to the development of a **High Injury Network that geographically identifies locations where investments in safety are most urgent**, which in turn will **drive your implementation strategy**





Source: City of Denver

Vision Zero Action Plan: Foundational Elements *continued...*



- 2. Set Measurable Goals with a Clear Timeline for Implementation
 - Baseline: Identify "reach zero year"
 - Example Goal: Zero traffic-related deaths and serious injury crashes by 2050, and cut the number of fatalities in half by 2035 (aligns with TxDOT's Road to Zero Campaign)
 - o What AND where are the community concerns?
 - ~ use feedback to inform project goals and outcomes



What is the focus area?

- Fatal and serious injury crashes
- Equity: Communities of Concern
 - Community Outreach

Source: City of Denver


Vision Zero Action Plan: Foundational Elements *continued...*

- 3. Be Accountable
 - Shared Responsibility Among Agencies
 - Questions to answer for each strategy...







Seasonality







Vision Zero: Foundational Elements continued...

4. Ensure Transparency

- Provide opportunities for course-corrections when needed
 - Action Plan is a Living Document
- At a minimum, prioritize the following to promote transparency:
 - Maintain public website to share crash data and progress on Action Plan strategies, and solicit feedback on safety concerns, projects, and strategies;
 - Routine meetings with Vision Zero Task Force to solicit input, review data, and provide ongoing feedback on progress and challenges;
 - Meet with and solicit input from residents about projects, priorities and safety concerns;
 - Seek 3rd party assessment of progress, and report regularly (annually at a minimum) to key stakeholders, decision making bodies, and the public







Vision Zero: Actionable Strategies





Vision Zero: Actionable Strategies



Engineering • Education • Equity/Enforcement • Evaluation

- Prioritize Roadway Design
 - Plan transportation systems that make slower, safe speeds the norm to protect the most vulnerable road users, especially in areas with historic patterns of fatalities and serious injuries
- Focus on Speed Management
 - Use proven countermeasures to reduce speed for the sake of safety
- Utilize Impactful Education Strategies
 - Educate community on safe road behaviors
 - Educate policy makers, decision makers, and other influencers about the importance of Vision Zero and the strategies that are proven to be most effective in order to make real change
 - Marketing Plan to communicate and educate the traveling public on the City's bold statement of being a Vision Zero City
- Ensure Enforcement is Equitable
 - Enforcement has a role to play in traffic safety efforts and should be approached thoughtfully in order to improve enforcement + community relations



Vision Zero: Actionable Strategies

Engineering • Education • Equity/Enforcement • Evaluation

- Ensure your Action Plan is a living document that includes how updates will be developed and when progress updates will be provided to policymakers, other agencies and the public
 - Highlight and celebrate accomplishments, but be real about challenges
 - Revisit the Foundational Elements every time you modify a goal or strategy
 - Utilize the Community Engagement & Equity Strategies







Vision Zero: Evaluation







Source: City of Denver











Existing Data Efforts





Existing Data Efforts (2015 – 2021)

*Utilize BEST AVAILABLE data





Page 3 – Intersection Identification



Which	h Intersection	ns Are Most E	angerous?	
Using the	filters below, id	entify intersecti	ons that meet	
	teria, or select a			
only a cert	tain one.			
The size of	f the circle indic	ates the numbe	er of collisions	
that meet	the desired crit	erla.		
Total Injun	ed in Collision			
	_			
10K				
OK O		5		10
Harmed Pa				
MOTOR	VEHIC			1
FORED	OBJECT			
Pape	ED CAR			
	ESTRIAN			J
OVER	FURNED			
PEDAL	CYCLIST			
	OK.		SOC	
	Count of Collision	Street_Nam	Street_N_1	^
osmid	*			
osmid 17944470	6 14	2 FM0659	SUN FIRE BLVD	
		2 FM0659 8 FM0659	SUN FIRE BLVD N/A	
17944470	6 4	8 FM0659		
17944470	6 4 6 1.	B FM0659	N/A	
17944470 17944470 17944470	6 4 6 1	8 FM0659 2 SUN FIRE BLVD	N/A N ZARAGOZA RD	

Page 2 – Crash Filter



Page 4 – List



Existing Data Efforts (2015 – 2021) continued... Page 1 – Vision Zero Stats Homepage

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Existing Data Efforts (2015 – 2021) *continued...* Page 2 – Crash Filter





Existing Data Efforts (2015 – 2021) *continued...* Page 3 – Intersection Identification



Which Intersections Are Most Dangerous?

Using the filters below, identify intersections that meet certain criteria, or select a street from the list to look at only a certain one.

The size of the circle indicates the number of collisions that meet the desired criteria.

Total Injured in Collision





Existing Data Efforts (2015 – 2021) continued... Page 4 – List CITY OF EL PAS

Britton Davis

Biggs Army

Airfield

Ysleta

El Paso

Airport

Canutillo

Borderland

Sunland

it'l



Top 50 Most Dangerous Intersections By Collision Count ollision Count by Day_of_Wee





Santa

Teresa

OSM Intersection ID First Street_Nam Min of Top 50 City Collision Count ~ ACER AVE 163 179335056 48 179503841 AIRPORT RD 46 168 3999794413 AIRPORT RD 25 248 4 507 179339679 AIRWAY BLVD 20 272 179501055 AIRWAY BLVD 19 277 179509134 AIRWAY BLVD Total ACER AVE 1



South

esri

Death_Cnt

1750







Existing Data Efforts (2015 – 2021) What's Missing?

- Equity
 - Socio economic
 - Street infrastructure
- Public Health Info
 - Obesity
 - Diabetes
- Current locations of city and state projects
- High Injury Network (HIN) creation





What's Next?

- Vision Zero
 - Bring consultant on board to develop Vision Zero Program & Action Plan
 - Develop Goals & Strategies
 - Engaging Partners & Stakeholders
 - Organize structure & establish Vision Zero Champions
 - Website
 - PR Campaign
 - Continue to Develop Data (ISIP)
 - High Injury Network
 - FY2022 Budget Allocation of \$1.8M
 - Develop Intersection Safety Improvement Program (pilot intersection improvements)
 - Develop Vision Zero Program & Action Plan









Thank You!

Capital Improvement Department

Enrique Avalos Alex Hoffman Sam Rodriguez Streets and Maintenance

William Gabe Aguilar Alfredo Austin Richard Bristol Harold Kutz Adam McCreary Joel McKnight Olivia Montalvo Sergio Reyes Andres Rico Hannah Adele Williams Jiann-Shing Yang



Strategic Communications Office

Tammy Fonce Russell Williams

El Paso Police Department

Nicholas Emerick Commander Steven Lopez Lt. Steven Schmidt Lt. Tonya Shields Dr. Emiliano Villarreal



VISION

MISSION

Deliver exceptional services to support a high quality of life and place for our community Develop a vibrant regional economy, safe and beautiful neighborhoods and exceptional recreational, cultural and educational opportunities powered by a high performing government



Integrity, Respect, Excellence, Accountability, People



MISIÓN

Brindar servicios excepcionales para respaldar una vida y un lugar de alta calidad para nuestra comunidad

VISIÓN

Desarrollar una economía regional vibrante, vecindarios seguros y hermosos y oportunidades recreativas, culturales y educativas excepcionales impulsadas por un gobierno de alto desempeño



Integridad, Respeto, Excelencia, Responsabilidad, Personas

