Vision Zero Reducing Fatal and Serious Injury Crashes to Zero

Public Meeting March 23, 2019



Why are we here?





In the past five years, nearly 60 people <u>lost their lives</u> in vehicle crashes on Tempe streets. ...in addition more than 400 people were <u>seriously injured</u>.

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This is unacceptable! This is a public health crisis!

The Reality





Tempe police investigating deadly rollover crash near Kyrene/Baseline roads

BY: Morgan Tanabe POSTED: 11:00 PM, Jun 25, 2017

2-vehicle crash kills one person in Tempe







Mother who lost her son in a deadly crash gets help from her friends

BY: Jason Volentine POSTED: 10:00 PM, Nov 14, 2017

1 dead after SUV with 3 teens hits man on Tempe sidewalk

Posted: Jun 16, 2017 1:31 AM



ASU doctoral student, renowned pianist Xiaoying Wen killed in Tempe crash

BY: Clayton Klapper POSTED: 6:50 PM, Nov 21, 2017

The Reality





Tempe police investigating deadly rollover crash near Wirrang/Baseline roads









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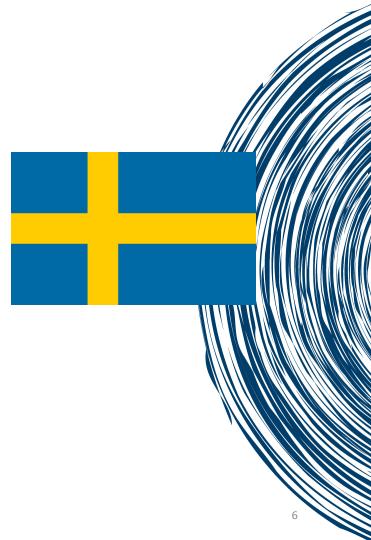
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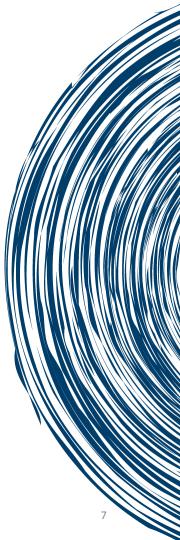
Vision Zero

- Started in Sweden in the late 1990s
- Adopted by the Swedish Parliament
- In response to a national realization that too many people were dying on Swedish roads.



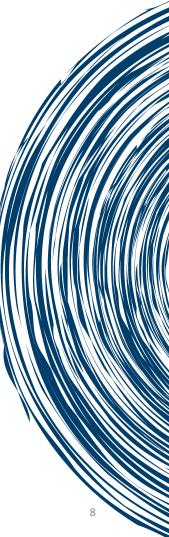
Vision Zero

- It's a traffic safety policy that takes an ethical approach toward achieving safety for all road users.
- Key principles:
 - Traffic deaths and severe injuries are preventable.
 - Crashes will occur, but severity can be reduced.
 - Safety is everybody's responsibility, particularly the roadway engineers/designers and policymakers.



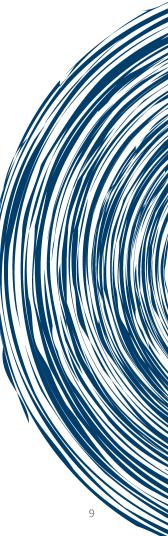
Vision Zero Cities





Vision Zero Cities

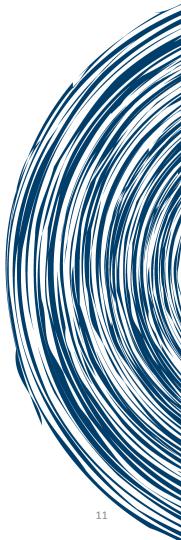






What makes a Vision Zero city?

- Setting a clear goal of eliminating traffic fatalities and severe injuries.
- The Mayor and Council publicly, officially committing to Vision Zero.
- Key city departments (including police, transportation, fire) and community stakeholders (ex: ASU, school districts, public health agencies), are engaged.
- A Vision Zero plan or strategy is in place, or the city commits to doing so in a clear time frame.



A Clear Goal of Eliminating Traffic Fatalities and Severe Injuries



Performance Measure (2018):

1.08: Achieve a reduction in the number of fatal and serious injury crashes to zero.



The Mayor and Council Publicly, Officially Committing to Vision Zero



- January 11, 2018:
 - Staff presented to the Mayor and Council
- February 8, 2018:
 - Mayor and Council unanimously approved Resolution No. R2018.13 formally committing to Vision Zero.

RESOLUTION NO. R2018.13

A RESOLUTION OF THE CITY COUNCIL OF THE CITY OF TEMPE, ARIZONA AUTHORIZING THE MAYOR TO ADOPT THE VISION ZERO FRAMEWORK ON BEHALF OF THE CITY COUNCIL.

WHEREAS, Tempe aspires to reduce the number of fatal and serious injury crashes on its streets to zero;

WHEREAS, Vision Zero is a traffic safety policy that takes an ethical approach toward achieving safety for all road users;

WHEREAS, in the past six years more than 60 people have lost their lives and more than 400 people were seriously injured on Tempe streets;

WHEREAS, traffic related deaths and serious injuries are preventable;

WHEREAS, the severity of motor vehicle related crashes can be reduced;

WHEREAS, transportation safety is everybody's responsibility;

WHEREAS, City departments including Public Works, Police and Fire Medical & Rescue are actively employing programs to improve safety and response time; and

WHEREAS, Vision Zero builds upon those existing programs with new strategies to help meet the Council's adopted performance measure to achieve a reduction in the number of fatal and serious injury crashes to zero.

NOW, THEREFORE, BE IT RESOLVED BY THE CITY COUNCIL OF THE CITY OF TEMPE, ARIZONA as follows:

That the Mayor is authorized to sign a commitment to the Vision Zero framework on behalf of the City Council.

PASSED AND ADOPTED BY THE CITY COUNCIL OF THE CITY OF TEMPE ARIZONA, this 8th day of February, 2018.

ATTECT

Brigitta M Kuiper, City Clerk

APPROVED AS TO FORM:

Judith R. Baumann, City Attorne

Key City Departments and Community Stakeholders are Engaged



- COT Fire & Medical
- COT Manager's Office
- COT Mayor & Council
- COT Neighborhood Services
- COT Police
- COT Sustainability
- COT Transportation

- AARP
- ADOT
- Advocacy Groups (TBAG, etc.)
- ASU
- Healthcare & Hospitals
- Large Employers (SRP, etc.)
- MAG

- Neighboring City Staff
- Neighborhood Groups
- Non-Profits
- Public Health
- Schools
- Transportation Commission
- Tempe Residents





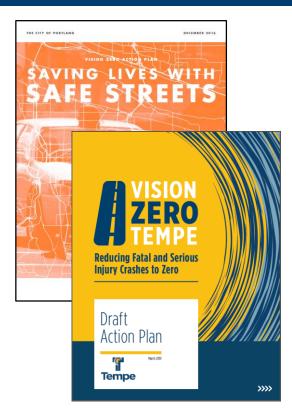


Vision Zero Action Plan



- We are on Schedule!
 - June 19, 2018: Visioning Workshop
 - August & October 2018: Working Group Meetings Identify Goals & Strategies
 - January 2019: Follow-Up Workshop Prioritize Strategies
 - February/March 2019: Produce a "Draft" Action Plan
 - March 2019: Share "Draft" Action Plan (Public Meetings)
 - April 2019: Finalize Action Plan
 - May 2019: Present to the Mayor & City Council

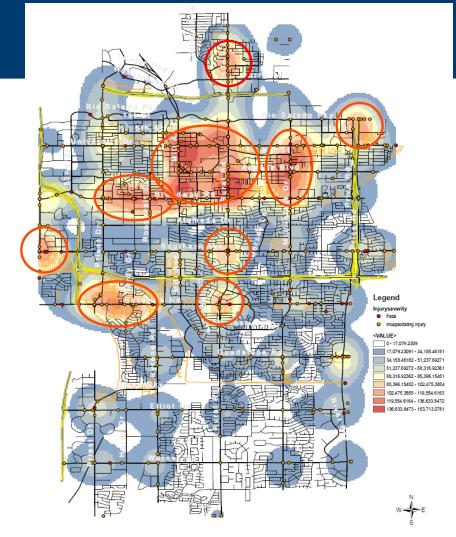




We identified where crashes are happening

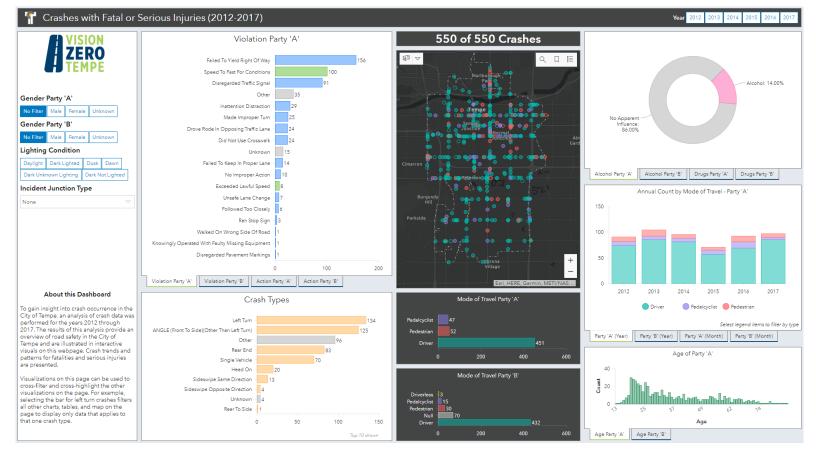
• Where are high severity crashes happening?

- Scottsdale Rd: Curry to McKellips
- Rio Salado & Price/SR101
- ASU/Downtown
- McClintock: University to Broadway
- Broadway: Priest to Mill
- 48th Street & Southern
- Rural & Southern
- Baseline: I-10 to Kyrene
- Baseline & Rural



We looked at data

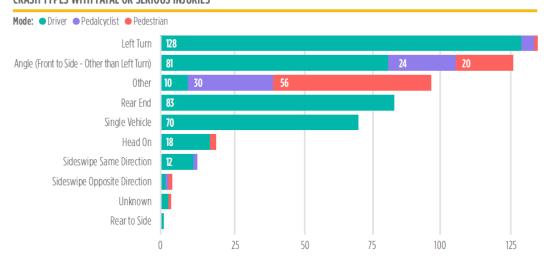






What types of crashes are happening?

CRASH TYPES WITH FATAL OR SERIOUS INJURIES

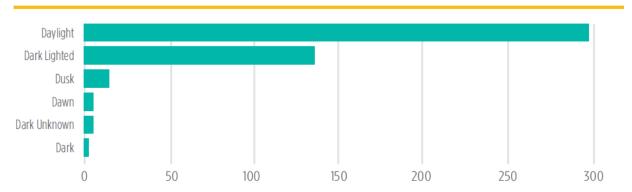


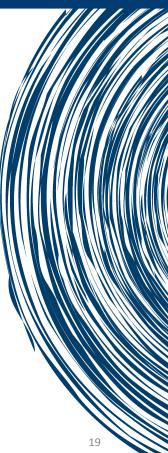
NOTE: "OTHER" Includes nearly all Bicycle & Pedestrian crashes



What are the lighting conditions?

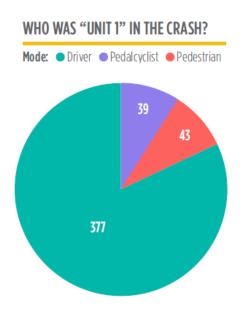
LIGHTING CONDITIONS DURING CRASHES

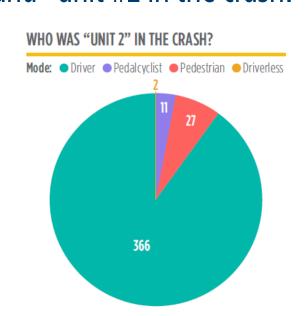


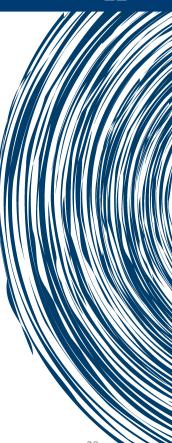




Who were "unit #1" and "unit #2 in the crash?



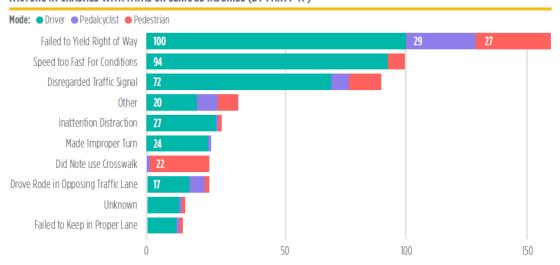


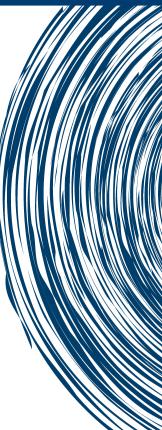




What was the "unit #1" "action" in the crash?

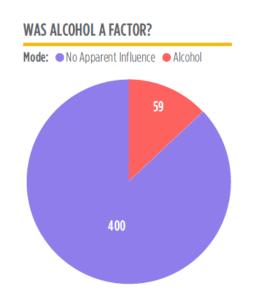
FACTORS IN CRASHES WITH FATAL OR SERIOUS INJURIES (BY PARTY 'A')

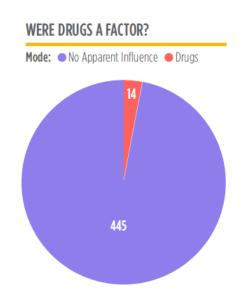


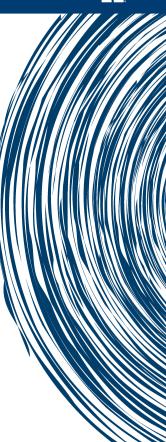




Was impairment a factor?







A Vision Zero Action Plan



Vision Zero Tempe's Action Areas:

- Intersections
- **外** Pedestrians
- Nighttime
- 26 Impairment
- Inexperienced and Very Experienced Road Users
- Distraction
- **★ "General"**



General

- 1. Provide residents with an annual Vision Zero report.
- 2. Invest in neighborhood traffic calming.
- Continue to analyze safety data annually to identify high severity crash areas and implement countermeasures at prioritized locations.
- 4. Initiate a citywide speed limit evaluation with the safe systems approach to incorporate other critical factors, such as crash history and the safety of people walking and bicycling.
- 5. Identify partners to develop and market training for transportation safety that targets all road users and all ages.

- 6. Warn and educate road users of high severity crash areas.
- 7. Initiate a multidepartment Fatal Crash Review Committee.
- 8. Improve data sharing between the Transportation Division and Police Department.
- Distribute educational "top 10" Vision
 Zero education door hangers to ASU
 dorms and multifamily residential units.
- Obtain and deploy mobile VMS boards to educate drivers and support Police Department efforts.



Intersections

- 1. Identify intersections for low cost pedestrian and bicyclist safety countermeasures (e.g., pavement markings, signal timing, signs).
- 2. Identify intersections that could benefit from converting to protected left turns.
- 3. Implement leading pedestrian intervals at select intersections.
- 4. Proactively identify locations where sight visibility is obstructed.
- 5. Conduct regular red light enforcement and education campaigns.



Bicycles & Scooters

- 1. Identify locations that could benefit from positive guidance to bicyclists and drivers including bike lanes, sharrows and signs.
- 2. Coordinate bicycle and pedestrian expert reviews of project designs.
- 3. Identify locations that could benefit from new and/or improved bicycle detection.



Pedestrians

- 1. Develop guidelines for installation of high visibility crosswalks (May include shared use path crossings and school areas).
- 2. Identify corridors that could benefit from the installation of raised medians and pedestrian refuge islands.
- 3. Identify locations with excessive pedestrian delay at signalized intersections and examine opportunities to improve pedestrian wait time.
- 4. Identify locations that could benefit from grade separated pedestrian crossings.
- 5. Educate pedestrians that they can be the victims of distraction and provide smart behaviors to adopt.
- 6. Initiate an annual or biennial comprehensive bicycle/pedestrian/scooter count program.



Night Time

- Identify non-signalized marked crosswalks that could benefit from additional lighting.
- Analyze lighting conditions at high crash locations and improve deficiencies.
- Develop implementation plan for conversion of all city street lighting to LED (4,000K for all collectors and arterials). ✓ 75% complete on
- Provide free bicycle safety giveaways to improve visibility via community outreach events.



conversions

Impairment

- 1. Promote safe driving options, including transit, rideshare and taxis.
- 2. Provide visible pick-up/drop-off zones and enhance the convenience of rideshare and taxis in the downtown and during special events.
- 3. Continue to and expand engagement with businesses and establishments that serve/provide alcohol and drugs (pharmacies, medical marijuana dispensaries) to be an increased part of the solution.



Inexperienced and Very Experienced Road Users

- Promote alternative mobility options (like rideshare) to older drivers and adults caring for their parents or other relatives that are older drivers.
- 2. Improve driver compliance by converting "24 hour" 35 MPH high school zones to time-of-day with flashing warning lights.
- 3. Develop guidelines for installation of additional pavement markings and signs to enhance school zones.
- 4. Evaluate transportation needs of older residents to ensure mobility as they age in place.



Distraction

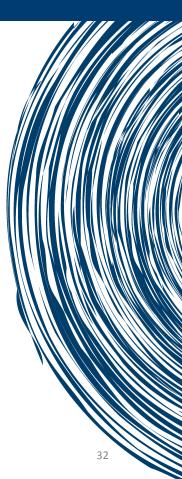
- 1. Advocate for the Arizona state legislature to adopt legislation that bans texting while driving and is enforceable as a primary offense.
- 2. Modify city code to ban the use of electronic devices while driving.
 - **√** 2/28/19



Next Steps

Please provide feedback (in person or online)!





Resources



Vision Zero Network:

VISIOW44:C-NETWORK

https://visionzeronetwork.org/

City of Tempe Vision Zero:

https://www.tempe.gov/government/public-works/transportation/vision-zero

Julian Dresang, PE, PTOE City Traffic Engineer Julian_dresang@tempe.gov (480) 350-8025

