

Through Vision Zero SF we commit to working together to prioritize street safety and eliminate traffic deaths in San Francisco.

VISION ZERO PROGRESS UPDATE

September 3, 2019

Chava Kronenberg, San Francisco Municipal Transportation Agency Megan Wier, San Francisco Department of Public Health

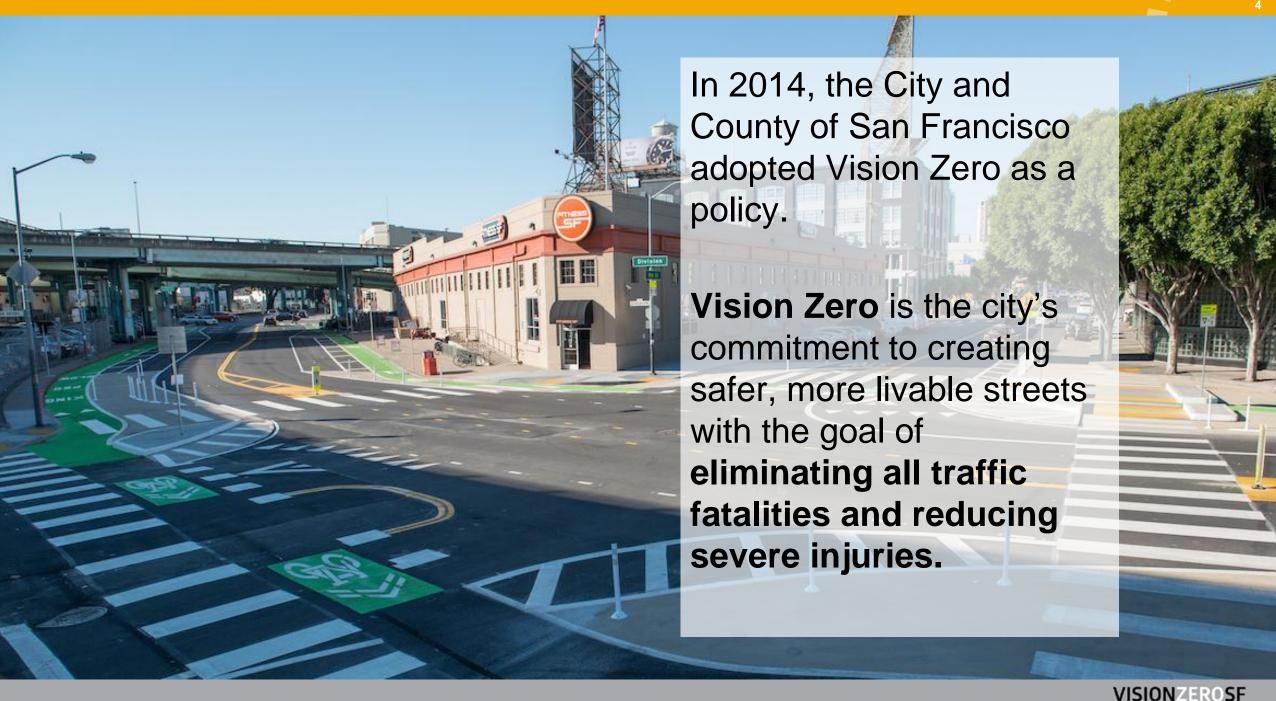


- Vision Zero Goal and Trends
- Vision Zero Organizational Structure
- Vision Zero 2019 Action Strategy- Strategic Actions
 - Safe Streets
 - Safe People
 - Data Systems
- Vision Zero Metrics
- Beyond Strategic Actions

IN MEMORIAM

Lucy Morales Nancy Ng Matilde Cheng Zhao Guan Gerard Graybosch Jose Manuel Haros Carrasco Janice Higashi Tess Rothstein Madlen Koteva Phala Neuo **Pablo Ramirez**

Galina Alterman Mark Swink **Darren Travis Grace Jang** Waseem Ali **Sela Henriquez Alexander Reyes Alexander Norton Michael Evans Benjamin Dean Hui Jun Yang**

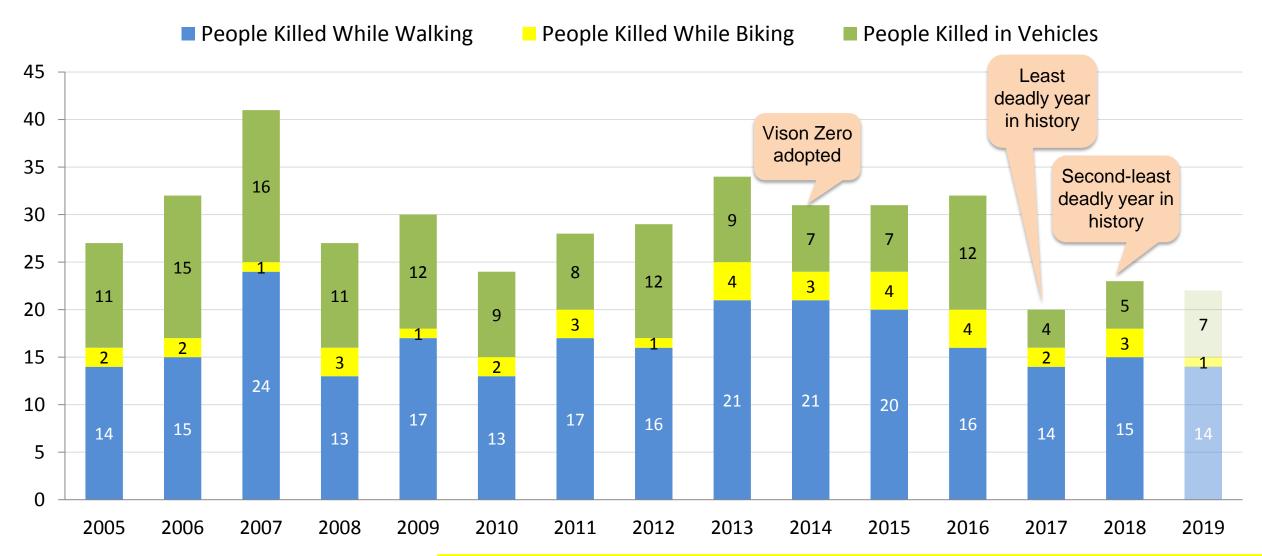


Traffic fatalities are a public health crisis:

- At least 20 people killed in crashes on SF streets each year
- Over 500 people hospitalized with severe injuries from traffic crashes annually at ZSFGH
- Approximately half of patients at ZSFG's
 Trauma Center are people injured in traffic collisions
- ZSFG Trauma Surgeons and staff treating someone severely injured in a traffic crash every 17 hours



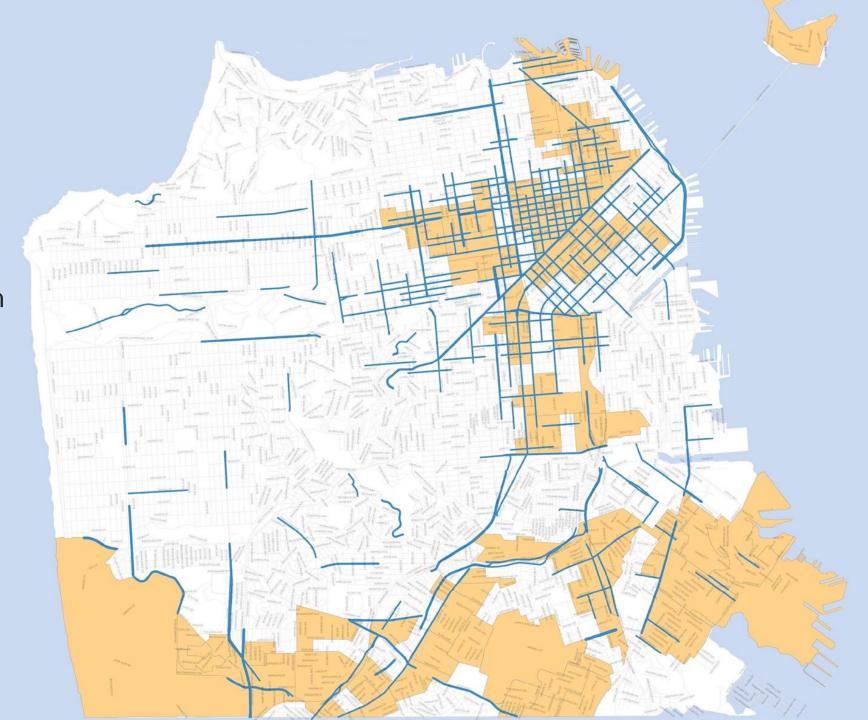
TRENDS: WE HAVE MUCH MORE WORK TO DO TO SAVE LIVES



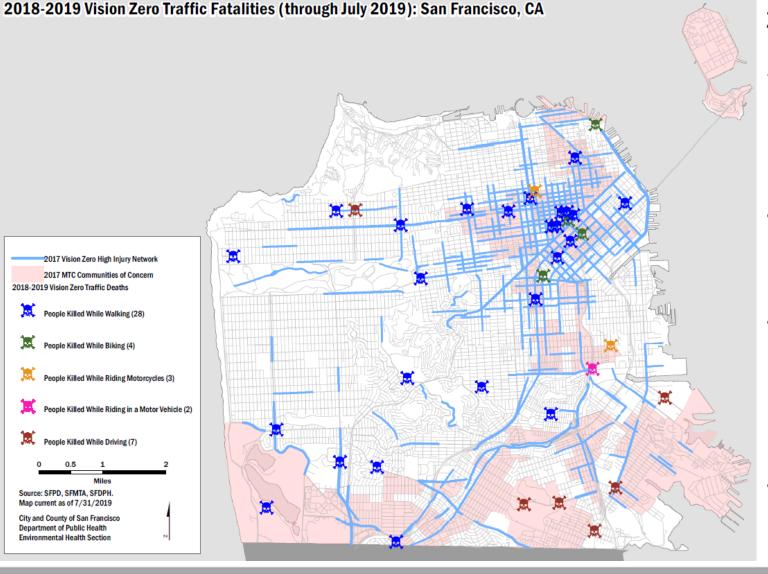
Vision Zero High Injury Network: A Predictive Tool for Targeted Actions

- 13% of City Streets account for 75% of severe and fatal injuries
- Half of the network in Communities of Concern

 which include 1/3 of City Streets
- Developed based on both hospital data and police data



2018 & 2019 FATALITY TRENDS



2018-2019 (August) Traffic Deaths:

- ~60% (N=27/45) of traffic fatalities occurred on the Vision Zero High Injury Network
- ~60% (N=26/45) fatalities occurred in a Community of Concern
- 1/3 (N=15/45) of traffic fatalities were
 Seniors (aged 65+)
 - 43% (N=12/28) of pedestrian deaths were seniors
- Unsafe Speed and Driver Failure to
 Yield continue to be top primary
 collision factors

VULNERABLE POPULATIONS TRENDS

People walking comprise 65% of fatalities.

- Among pedestrian fatalities ~40% were people age 65 and older yet seniors in this age group comprise ~15% of San Francisco residents.
- ~6% of pedestrian injuries admitted to the Zuckerberg SF General Hospital's Trauma Center historically recorded as having a mobility, visual, or hearing disability.

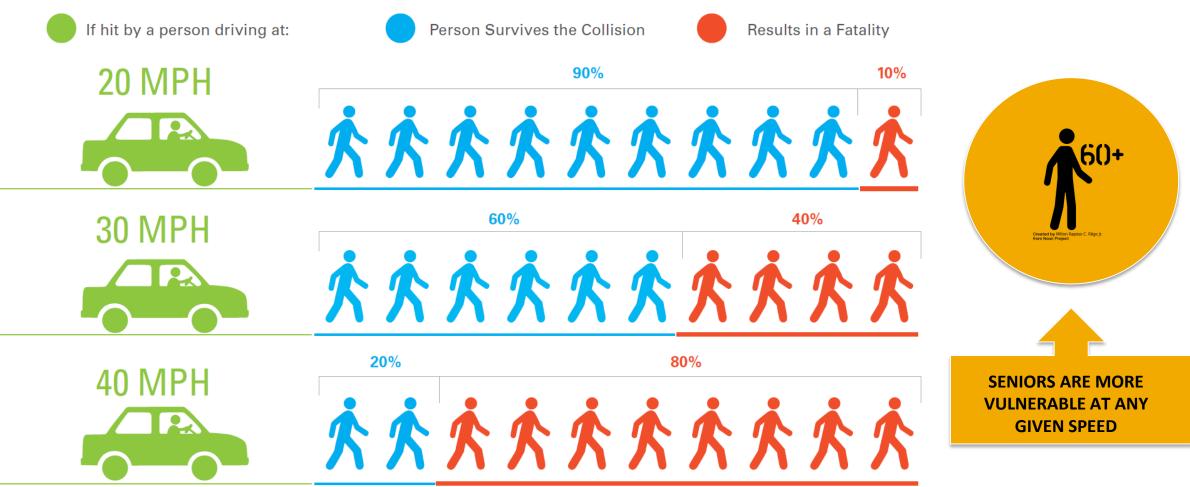
Both cyclists and motorcyclists are disproportionately impacted.

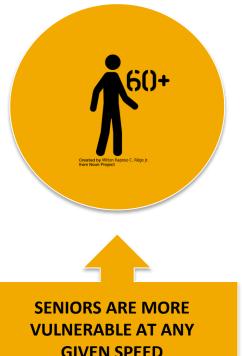
Each comprise ~20% of severe and fatal injuries

In 2018, 22% of fatalities were people experiencing homelessness; City homeless population is less than one percent.



SLOWER SPEEDS SAVE LIVES





MULTI-DEPARTMENT, CITYWIDE POLICY

Transportation Authority Vision Zero Committee

Community & City Vision Zero Task Force

San Francisco Vision Zero

Data Systems

Legislative Agenda

Safe Streets

Engineering complete streets projects

Traffic calming in neighborhoods

Safe People

Educating and raising awareness about street safety

Enforcing traffic laws

Safe Vehicles

Using technology to ensure safe vehicles

Locally ensure emerging mobility providers have safe vehicles

















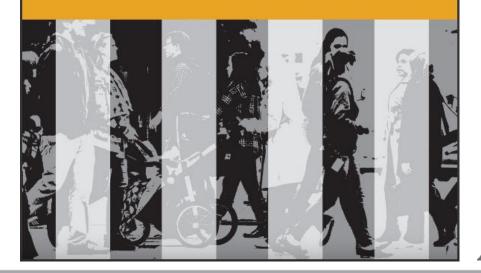


2019 VISION ZERO STRATEGY



VISION ZERO ACTION STRATEGY

Eliminating
Traffic Deaths
in San Francisco









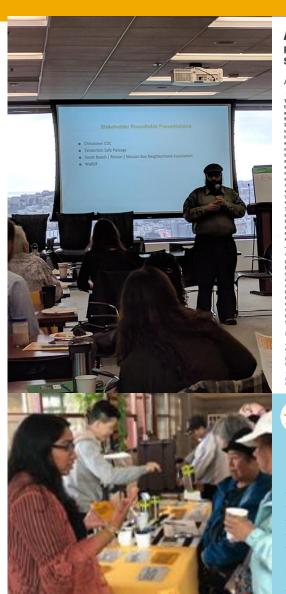






2019 ACTION STRATEGY DEVELOPMENT

- Developed from July 2018 to March 2019
- Reviewed peer cities' action strategies and national guidance
- Surveyed of dozens of City staff directly involved in Vision Zero policies, programs and projects
- Three workshops for community members and city staff, with dozens in attendance
- 11 coffee talks reaching 200 community members



A Vision for Transportation Safety

Framework for Identifying Best Practice Strategies to Advance Vision Zero

Arielle Fleisher, Megan L. Wier, and Mari Hunter

The Traffic Safety Bost Practices Marktis is presented. It is a tool to help the Cities to believily the landency of strategies being used domestically and internationally to advance Valoro Zero, as pioneered by Sweetler Many cities arous the United States have expressed an interest in Vision Zero, with a growing number pussing pelicies calling for the elimination of the Company of the Company of the Company of the Company of the tentrest, bittle galance exists around what Valoro Zero is and what actions can be implemented to help realize zero deaths. The matrix actions can be implemented to help realize zero deaths. The matrix actions can be implemented to help realize zero deaths. The matrix actions and improve antierly. The matrix attempts to bright the page by presenting a framework, that cities can use to identify effective strategies, benchmark their efforts relative to other jurisdictions, and reach not to cities and countries pursing Vision Zero policies for additional information. An analysis of the matrix, focuses on three categories: measures with widespread adoption, limited implementation, and minimal utilization. The unit recommendation are to devide prochamics and institutional after Vision Zero zerous sectors, focus education as respecting changes after Vision Zero zerous sectors, focus education as negoriting changes after Vision Zero zerous sectors, focus education as negoriting changes and country public perventument, expert exchange the unique needs of cities, and create data systems that facilitate accountability and ecourage public percitipation.

Vision Zero is a road safety policy that sims to achieve a transportation system is which there are zon featilistics or serious institution system in which there are zon featilistics or serious institution for all modest of transportation, adopted by Sweden in 1997, the stackety platform statempts to create a safety sealery material serious control and serious con

sarety is zero deaths (2).

Many cities across the United States have expressed an interest in Vision Zero. As of July 2015, the following cities have passed

Reisher and M. Hunter, San Francisco Municipal Transportation Agency
 South Van Ness Avenue, San Francisco, CA 94103, M. L. Wier, San Francisco
 Department of Public Health, 1390 Market Street, Suite 210, San Francisco
 Advice Conceptualities (Public Health, 1390 Market Street, Suite 210, San Francisco
 Advice Conceptualities (Public Market)

ransportation Research Record: Journal of the Transportation Research Board, lo. 2582, Transportation Research Board, Washington, D.C., 2016, pp. 72–86. ICL: 10.3141/2582-09 a Vision Zero policy, calling for the elimination of traffic-related fastilities and in some cases serious injuries over the next 10 years. The control of t

By identifying the landscape of strategies being used by clits pursuing Vision Zero, and specifying strategy efficacy as currently known, the matrix presents a framework for strategy identification and evaluation, as well as opportunily benchmarking. Analysis of the matrix focuses on three categories: measures with (a) widespread adoption, of the important of the control of the control of the categories in the case of the categories in the control of the categories in the control of the categories in the categories of the categories in the categories of the categories of the categories in the categories of the categories in the categories in the categories of the catego

CALL FOR SAFE SYSTEM APPROACH TO SAFETY: WHAT IS VISION ZERO?

Vision Zero is based on two premises: people make mistakes, and there is a critical initi beyond which survival and recovery from an injury are not possible (4). Vision Zero does not assume that collisions will not happen—people make mistakes no matter how well-educated and compliant in obeying traffic laws (5). Rather, the focus for road safety analysis and planning is on eliminating the risk of chronic health impairment or death caused by a collision (4) of do. o, Vision Zero Couses on decreasing the likelihood that crabbe will result in serious injury or death by designing the transportation system in a way that ensures that road mere can tolerate the kinetic energies produced by the collision. It is kinetic energy that kills and injures the road user—ont the collision. The level of physical force



Share your ideas for new Vision Zero action items.

This idea is for:

O Safe People

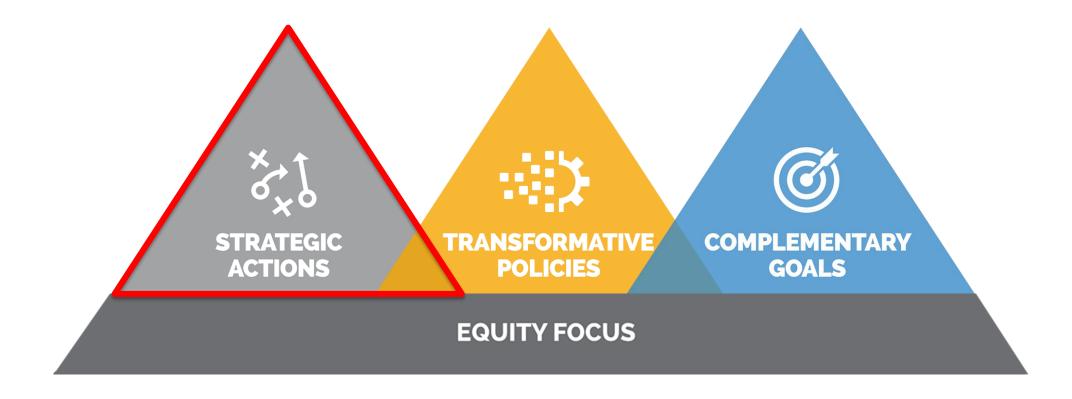
O Safe Streets

O Safe Vehicles

Name and Organization (optional):



WHAT WILL IT TAKE TO GET TO ZERO?



Safe Streets



Engineer streets for safety using proven high impact tools on the streets with the highest need.

Highlight Actions:

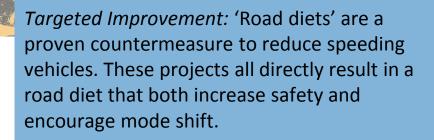
- Install 8 miles annually of high-impact sustainable travel lanes
- Complete near-term improvements (signal timing and crossing markings) at all intersections on the High Injury Network
- Reduce project delivery timelines on 5 corridors in 2 years through quick-builds
- Implement a permanent strategic closure for private vehicles on Market Street from 10th to Main Street in both directions to improve safety for sustainable transportation users







- Muni red lane projects like Van Ness BRT and Geary Phase 1
- Protected bicycle facilities like Polk St. and 2nd St.
- Widened sidewalks like 6th St and Taylor St.
- Quick-build projects for all modes like 5th St., 6th St. and 7th St.



2019 Progress: Completion of Polk Street project, quick-build implementation

Annual Investment: \$25-50M

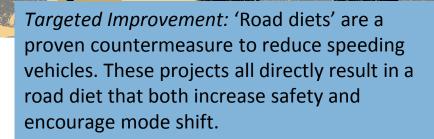
Source of Funds: Capital funding including 2014
Prop A GO Bond, SFCTA Prop K ½ cent sales
tax; competitive funds from Federal, State,
Region: One Bay Area Grants, Active
Transportation Planning, and New Starts

Action Item Owner: Viktoriya Wise





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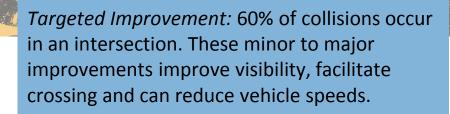
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Transportation Planning, and New Starts

Action Item Owner: Viktoriya Wise



Complete near-term improvements (signal timing and crossing markings) at all intersections on the High Injury Network

- Signal timing- Currently updating 25% of signals in the system with slower walking speeds, leading pedestrian intervals and other upgrades in 2019
- Crosswalks- Coordinate with paving program, including high-visibility crosswalks and advanced limit lines
- Daylighting- Commitment to daylighting intersections citywide



2019 Progress: 76 Leading Pedestrian Intervals; 33 new pedestrian signals, 121 slower walking speeds

Annual Investment: \$2M

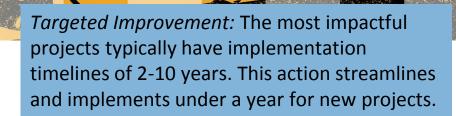
Source of Funds: 2014 Prop B General Fund Set-Aside for Transportation, SFMTA Road Fund (Operating)

Action Item Owner: Ricardo Olea





- Now defined as Sustainable Streets quick-build projects
- More aggressive commitments: 10 corridors in 1 year from additional capital funding
- Streamlined legislative processes in May 2019 reduce project timelines by at least 4 months
- New SFCTA quick-build funding reduce project timelines by 3 months
- For large infrastructure projects, can deliver project benefits years ahead of schedule, such as 5th St. and 6th St.



2019 Progress: Completed projects on Howard (3rd to 5th), Taylor (Ellis to Turk), 7th St (Townsend to 16th), Valencia (Market to 15th) Annual Investment: \$6M

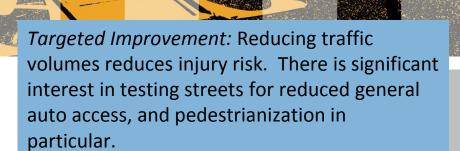
Source of Funds: SFCTA Prop K ½ cent sales tax; 2014 Prop B General Fund Set-Aside for Transportation

Action Item Owner: Jamie Parks

Safe Streets

Implement a permanent strategic closure for private vehicles on Market Street from 10th to Main Street in both directions to improve safety for sustainable transportation users.

- Final project approvals anticipated in October 2019
- Quick-build Market St to be implemented subsequent to Board approval



2019 Progress: Plan to legislate for SFMTA Board in fall, with immediate implementation of turn restrictions and general access restrictions directly following.

Investment: \$2M

Source of Funds: SFCTA Prop K ½ cent sales tax; 2014 Prop B General Fund Set-Aside for Transportation, 2014 Prop A GO Bond

Action Item Owner: Ian Trout

Safe People



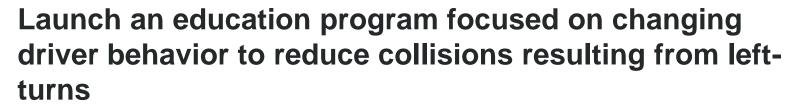
Complement engineering programs and fill gaps where there is limited engineering intervention.

Highlight Actions:

- Launch an education program focused on changing driver behavior to reduce collisions resulting from left-turns
- Facilitate 6 training opportunities for SF motorcycle riders in partnership with the California Motorcycle Safety Program to encourage safe and informed riding
- Through community grants and multi-lingual presentations, engage seniors, service providers, and community-based organizations on Vision Zero to build support for safer streets
- Issue 50% of traffic citations for top five causes of collisions.







- SFMTA to pilot safety treatments at 8 intersections in the city early 2020 based on New York City DOT effort
- Convened SFMTA staff, advocates, and national transportation behavior experts to discuss left turns collisions and resultant interventions
- Education campaign will launch in winter 2020 after the street pilot installation



Targeted Improvement: Left-turning vehicles account for 20% of severe and fatal collisions, and the causes are complex with limited engineering interventions.

2019 Progress: Preparing for street pilot; readying for pre-evaluation; conducting quantitative and qualitative surveys to inform education campaign

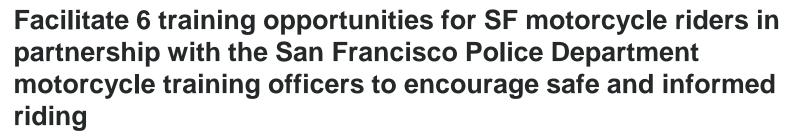
Investment: \$2M over two years

Source of Funds: Active Transportation

Planning grants, 2016

Action Item Owner: Uyen Ngo





- Motorcycle riders are vulnerable road users only 2% of the population but represent 20% of traffic fatalities
- First of its kind motorcycle safety program in the nation
- Program includes bus ads, social media videos, outreach, ambassador trainings, and hands-on safety skills courses



Targeted Improvement: Motorcycle riders can represent up to 20% of annual fatalities, but limited engineering interventions address specific traffic safety related to motorcyclists.

2019 Progress: Bus ads, social media, and outreach to motorcycle shops and clubs in May; six trainings to be completed in August

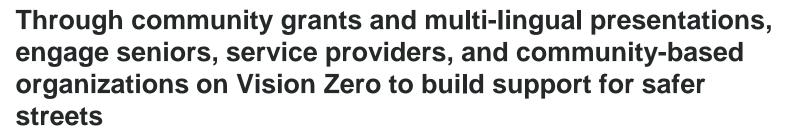
Investment: \$400,000 over three years

Source of Funds: California Office of Traffic

Safety Grant, 2016

Action Item Owner: Uyen Ngo

Safe People



- Seniors are more vulnerable to severe and fatal injury in traffic crashes, particularly while they are walking
- SFDPH conducts multi-lingual (Cantonese, Mandarin, Spanish) presentations to seniors and service providers on Vision Zero, how to get involved, and how to stay safe
- Funding 7 community based organizations to conduct indepth education and outreach in their neighborhoods, focus on HIN



of SF residents and close to half of pedestrian deaths. Engagement with seniors and service providers supports culture change to prioritize our more vulnerable road users.

2019 Progress: Conducted 25 presentations by DPH staff; reached over 2,000 seniors and service providers through presentations, workshops, press conferences. Developed and distributed SSFS brochures/lanyards with inserted cards in English, Chinese, Spanish, and Tagalog.

Investment: \$270,000 annually

Source of Funds: SFDPH General Fund

Action Item Owner: Patricia Erwin, SFDPH





- New team of four motorcycle officers dedicated to enforcing the Focus on the Five violations.
- Officers on this task force are exempt from other duties to focus on enforcement.
- Beginning June 2019, VZETF focused on high injury corridors and locations of recent fatal collisions.
- Team has written over 400 citations; 99% of these citations were for Focus on the Five violations.



Targeted Improvement: Enforcement on the most prevalent citations issued for severe injuries and collisions reduces instances of those behaviors.

2019 Progress: New Vision Zero Enforcement Task Force

Source of Funds: SFMTA and SFPD Operating

Action Item Owner: SFPD Traffic Company

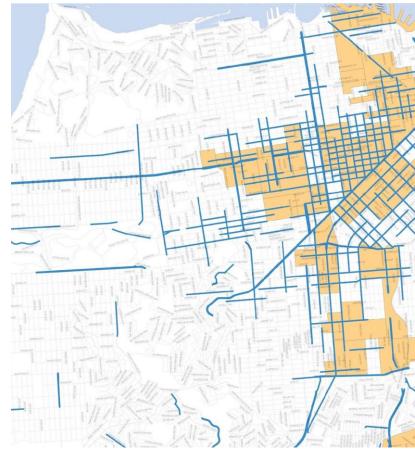
Data Systems



Inform and monitor targeted Vision Zero efforts for future projects, policies and programs.

Highlight Actions:

- Update High Injury Network in 2021 using Zuckerberg SFGH data
- Issue an annual report on severe injuries utilizing Zuckerberg SF General Hospital and Trauma Center and police data



Data Systems

Update High Injury Network in 2021 using Zuckerberg SFGH data

- The High Injury Network has been iterated on multiple times, with the last update in 2017
- Informs where resources are prioritized
- First-in-nation High Injury Network to include hospital-only and police-reported crashes



Targeted Improvement: Linking hospital and police data provides a more comprehensive understanding of injuries in the city to inform targeted interventions — capturing injuries not reported by police and improving assessment of severity.

2019 Progress: Police and hospital data being compiled for the linkage of data from 2013-208 to inform the next update of the HIN in 2020.

Investment: SFMTA funds a SFPDH Vision Zero Epidemiologist to conduct this work in partnership with SFDPH and Zuckerberg SF General Hospital staff.

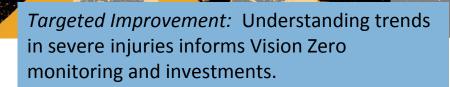
Source of Funds: SFDPH and SFMTA Operating

Action Item Owner: Megan Wier, SFDPH

Data Systems



- Indicates long-term trends, beyond annual fatalities counts
- Directly informs policy, program and project interventions both through incorporation in the High Injury Network and new initiative development



2019 Progress: A report on Severe Injury Trends through 2018 will be finalized to present to the Vision Zero Task Force on September 16th.

Investment: This work is led by an SFDPH Epidemiologist

Source of Funds: SFMTA Operating

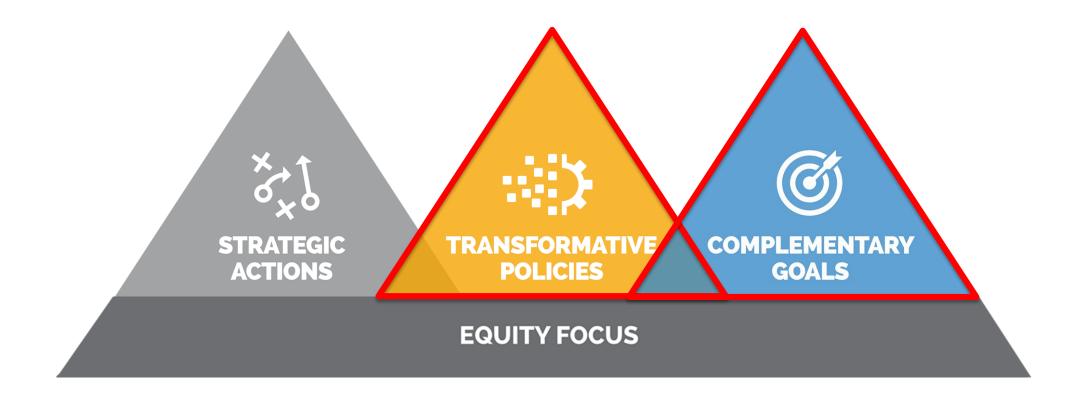
Action Item Owner: Megan Wier, SFDPH

MEASURING PROGRESS

METRIC	2021/2024 TARGETS	METRIC	2021/2024 TARGETS
Fatalities 2018: 23 fatalities	Zero by 2024	Vision Zero outreach 2018: Over 250 million media impressions and over 15,000 people reached at events	15,000 people annually at community events and 250 million digital media impressions
Sustainable travel lanes miles added, Citywide 2014-2018: 40 miles	16 Miles / 40 Miles		
		Vision Zero community awareness 2016: 11% Awareness	20% Awareness / 30% Awareness
Safety treatments installed on the High Injury Network 2018: 9 miles on the HIN	More than 13 miles of safety treatments on HIN annually	Vision Zero street team outreach 2018: 52 community events, 100% with translated materials and interpretation services	47 community events annually, 100% with translated materials and interpretation services
Percentage of safety treatments installed in Communities of Concern (CoC) 2018: 38% of HIN miles in CoC	Miles implemented in CoC equal to or greater than the proportion of the HIN falling within those communities		
		Youth and Senior programming 2018: Seniors: 2,100 people reached, 56% in a language other than English	Seniors: 2,500 people annually (55% in non- English language)
		2018: Schools: 27 schools participating with programming in Spanish and Chinese	Schools: 103 schools participating annually, with programming in Spanish and Chinese
Focus on the Five violation citations, proportion of citywide total 2018: Citywide 41%	Citywide 50%		
		SFDPH grants for community engagement	8 awards per year

2018: 9 awards

WHAT WILL IT TAKE TO GET TO ZERO?



EQUITY FOCUS



Deepening community engagement

with community leaders and local stakeholders to ensure that strategic actions reduce injury inequities and do not exacerbate existing inequities.



Prioritizing and monitoring improvements

on the high injury network, in Communities of Concern, and where there are concentrations of severe/fatal injuries to seniors and people with disabilities and other vulnerable populations to address historic differences in resource allocation.



Ensuring
Vision Zero
transformative
policies consider
and address
equity impacts
on vulnerable

populations, including the impact of fines and fees on low income residents.



Implementing data-driven, culturally competent, multilingual education, engagement and enforcement campaigns targeted in impacted areas.

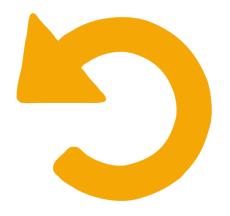


Developing and institutionalizing an injury surveillance system to ensure the most complete data is available for all people injured and analyzing by vulnerable populations and sharing the data with the public.

TRANSFORMATIVE POLICY AGENDA









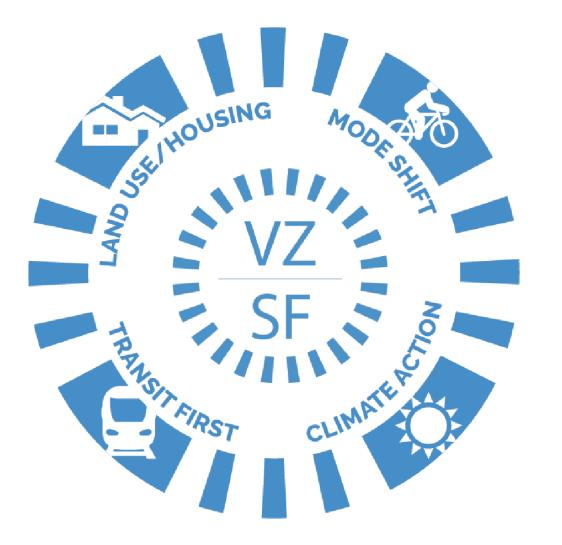
Automated Enforcement

Urban Speed
Limit
Setting

Pricing and Reducing Vehicle Miles Travelled

Local Regulation
Of Transportation
Network
Companies

ADVANCING COMPLEMENTARY CITY GOALS















Thank you.



TRACKING PROGRESS

ON TRACK 64%

MONITOR 33%

AT RISK 3%

Completed Actions Include

- Street safety evaluations
- Motorcycle training course
- Emerging Mobility injury monitoring system

Work is Being Done

- Phased work
- Interdepartmental
- Variety of funding sources
- Political environment

Circumstances for At Risk Actions

- Staffing
- Funding
- Political environment