

Understanding the Vision behind 'Zero' Traffic Fatality Frameworks:

A Teleconference for Active Transportation Program (ATP) Awardees and Other Pedestrian and Bicycle Safety Practitioners

We will begin at 10:00 am





Caltrans ATRC

- ATRC provides resources utilizing a combination of subject experts from Caltrans, California Department of Public Health, California State University Sacramento, and various other Non-Infrastructure, Safe Routes to School, and Infrastructure experts.
- ATRC exists to support Caltrans Active Transportation Program (ATP)
 awardees at the local and regional levels.



Today's Speakers

- Leah Shahum, Founder and Director, Vision Zero Network
- Megan Wier, Director, Program on Health, Equity & Sustainability, San Francisco Department of Public Health, and Co-Chair, San Francisco Vision Zero Task Force
- Victoria Custodio (Facilitator), ATRC Non-Infrastructure Technical Assistance Team Lead, Safe and Active Communities Branch, California Department of Public Health

Learning Objectives

- Understand the fundamentals/principles of Vision Zero
- Learn how Vision Zero relates to and differs from traditional traffic safety approaches
- Learn how Vision Zero and ATP efforts have been strategically leveraged to advance both local and state active transportation safety goals

Background/Context

- State of California Transportation and Traffic Safety Agencies have integrated *Toward Zero Death* into Strategic Management Plans and Strategic Highway Safety Plans.
- Vision Zero has primarily been an international, U.S national, and local city initiative to-date.
- ATP funds local cities, including some who are co-branding their ATP-funded projects as Vision Zero efforts.
- Recent approved bill AB-2363 requires a new Zero Traffic Fatalities
 Task Force to examine priorities and practices for legislative
 consideration.



Quick Poll of Attendees

In which field do you work?

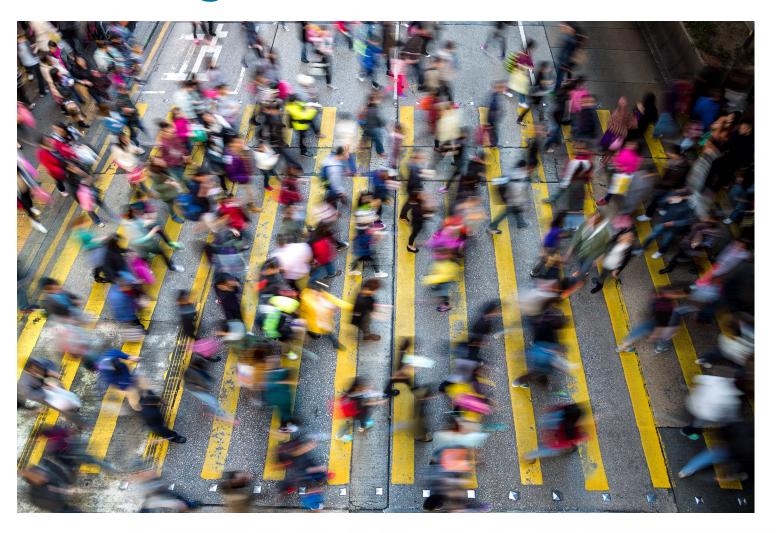
- Engineering
- Planning
- Public Health
- Law Enforcement
- Other



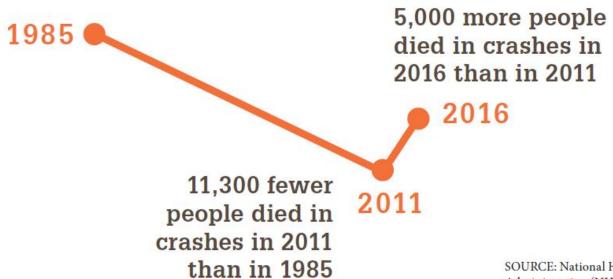
Welcome, Leah and Megan!

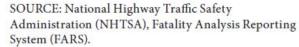


Vision Zero: Moving from Vision to Action



VISION-1IONETWORK









VISION-ICNETWORK

Vision Zero Cities A Vision Zero City meets the following minimum standards: - Sets clear goal of eliminating traffic fatalities and severe injuries - Mayor has publicly, officially committed to Vision Zero - Vision Zero plan or strategy is in place, or Mayor has committed to doing Vision Zero City so in clear time frame - Key city departments (including Police, Transportation and Public Health) are engaged. Seattle Portland Eugene Boston New York City Bethlehem (Philadelphia Chicago Sacramento Montgomery County San Francisco Washington, D.C. Boulder Columbia Fremont Denver Alexandria San Jose Richmond Santa Barbara Monterey San Luis Obispo (Durham Los Angeles Macon San Diego San Antonio Orlando **Anchorage** Fort Lauderdale

VISION/1:ONETWORK



Acknowledges that traffic losses are *preventable*

Takes *systems approach* to prevention

Is data-driven

Not all E's are created equal

Leadership = essential!

VISIONATIONETWORK



VISION/1:CNETWORK



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VISION/1:CNETWORK

The Spectrum of Prevention

Influencing Policy & Legislation

Changing Organizational Practices

Fostering Coalitions & Networks

Educating Providers

Promoting Community Education

Strengthening Individual Knowledge & Skills

VISION/ICNETWORK

Vision Zero Ethical Platform



VISION-4: ONETWORK



Acknowledges that traffic losses are *preventable*

Takes *systems approach* to prevention

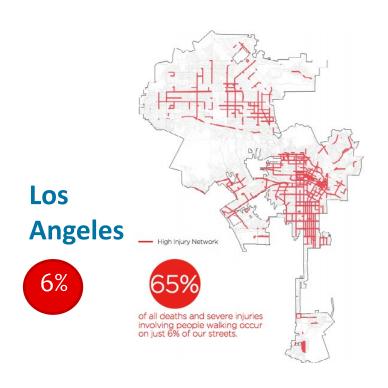
Is data-driven

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VISION/1:CNETWORK

Data: Death and serious injury concentrated on small % streets







Data: Not all Communities' Safety is Treated Equitably

People Killed While Walking by Income



Governing, August 2014

© 2015 Safe Routes to School National Partnership

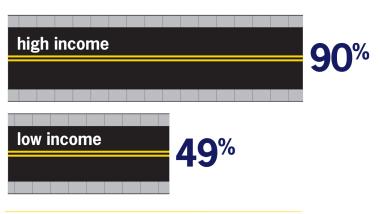
People Killed While Walking



Governing, August 2014

© 2015 Safe Routes to School National Partnership

Communities with Sidewalks



Bridging the Gap, Income Disparities in Street Features that Encourage Walking, 2012

© 2015 Safe Routes to School National Partnership

VISION-IINETWORK

Safe Systems, not traffic stops



VISION-IINSTWORK



Acknowledges that traffic losses are *preventable*

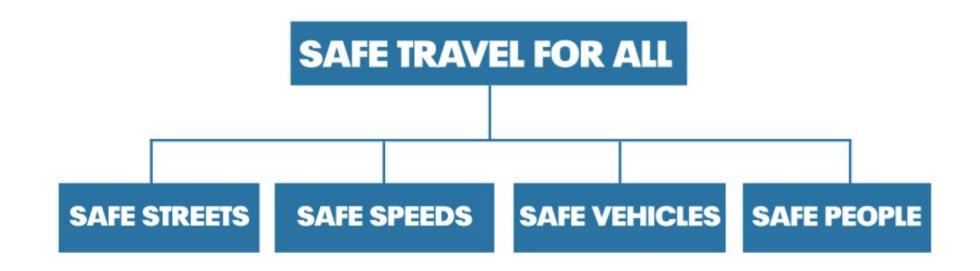
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VISION/1:CNETWORK



VISION/1:ONETWORK

Focus on Roadway Redesign & Managing Speed





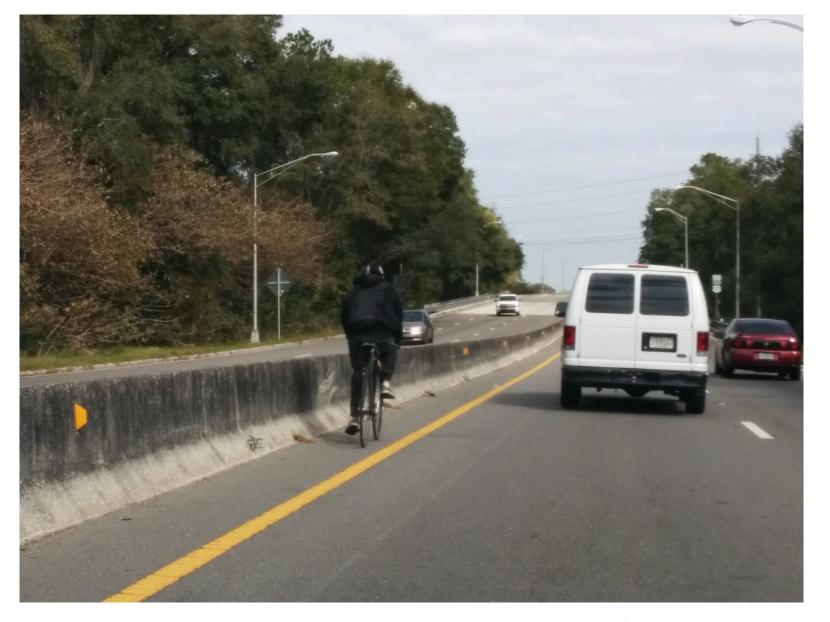
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VISION/1:ONETWORK

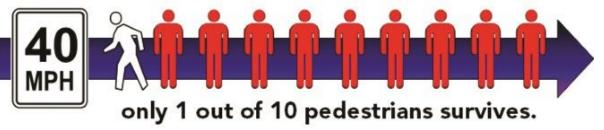
Hit by a vehicle traveling at



Hit by a vehicle traveling at



Hit by a vehicle traveling at



VISION-1:ONETWORK

Vision Zero Success = Managing Speed for Safety





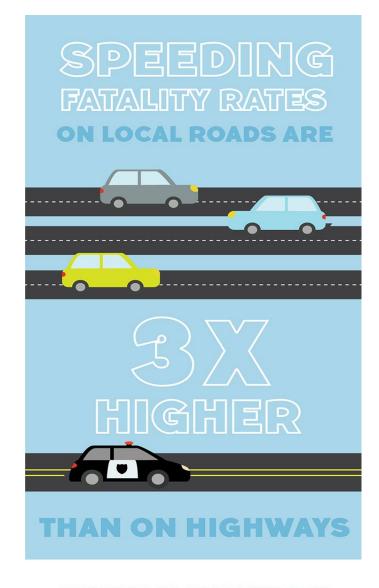


VISION-ICNETWORK

Fremont, CA



VISION/1:ONETWORK



VISION-4=: TONETWORK

SOURCE: INSURANCE INSTITUTE FOR HIGHWAY SAFETY, IIHS.ORG

VISION-1: ONETWORK



NYC



VISION-41:(•NETWORK

SOURCE: INSURANCE INSTITUTE FOR HIGHWAY SAFETY, IIHS.ORG



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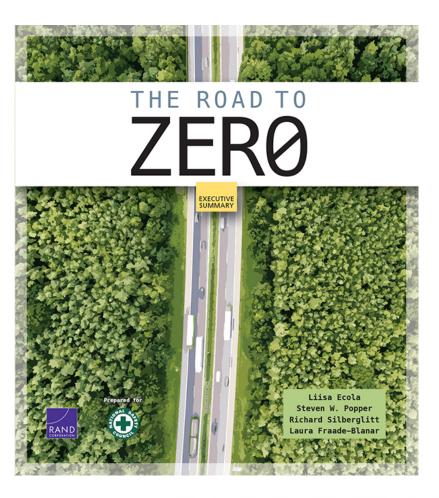
VISIONATIONETWORK



VISION-1:ONETWORK

Road to Zero Report, April 2018

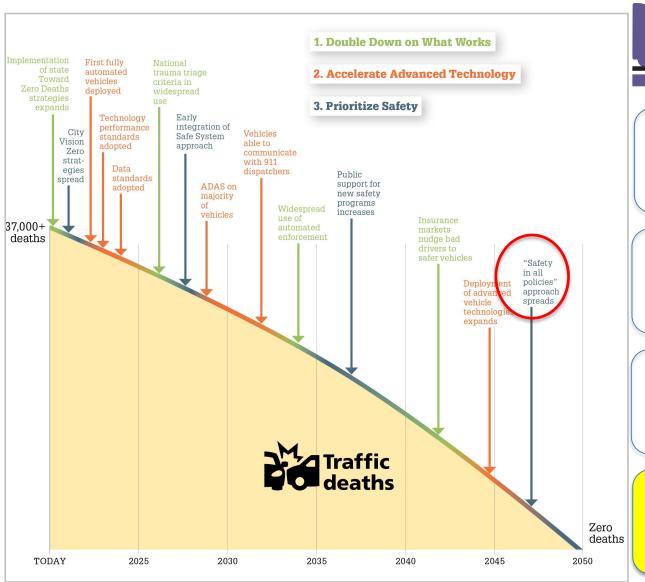
www.visionzeronetwork.org/roadtozero

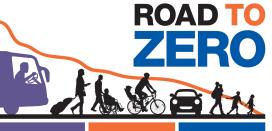


Safe Systems approach =

Turning traditional thinking on its head – instead of seeing humans as the offenders, responsible for most crashes because of their bad habits, planners and engineers began thinking that the system itself should be safe.

VISION/1:CNETWORK





Double Down on What Works

Accelerate Advanced Technology

Prioritize Safety

Safety in All Policies



VISION/1:ONETWORK



VISIONATIONETWORK



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

VISION ZERO SF: LEADING WITH DATA TO SAVE LIVES AND ADVANCE EQUITY



October 26, 2018

Active Transportation Resource Center Webinar

TRAFFIC INJURY IN SAN FRANCISCO: A PUBLIC HEALTH PROBLEM

~30

Fatalities per year



~500

\$35M

in medical costs *alone* per year People
hospitalized
with severe
injuries
annually in
our public
hospital

On average, City Trauma Surgeons respond to a serious traffic injury every 17 hours.

~50% of the patients seen at Zuckerberg San Francisco General's Trauma Center are people injured in traffic collisions.

IN MEMORIAM



Sofia Liu, Age 6

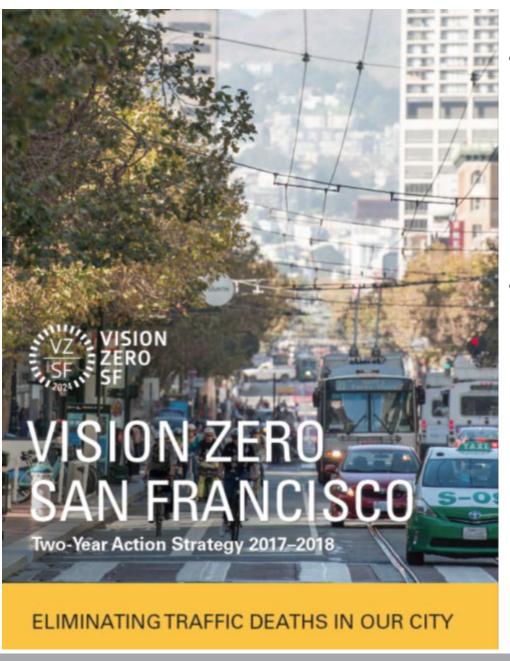
Thursday, February 13, 2014

18 Comments

Supes, SFPD, SFMTA Stand With Crash Victims and Advocates at City Hall by Agran Bialick

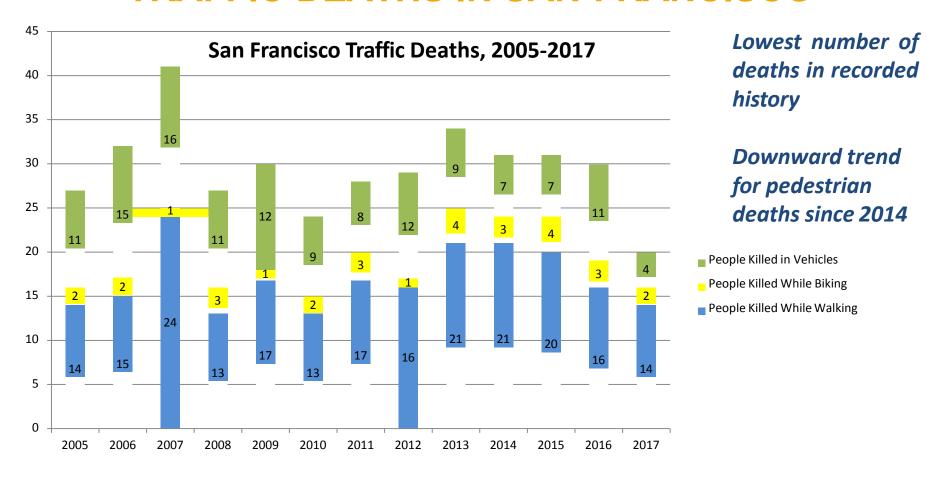


Crash survivor Monique Porsandeh speaks alongside Walk SF Executive Director Nicole Schneider and city official holding the names of those killed by drivers. Photos: Walk SF



- In 2014, the City and County of San Francisco adopted Vision Zero as a policy.
- Vision Zero is the city's commitment to creating safer, more livable streets with the goal of eliminating all traffic fatalities and reducing severe injuries.

TRAFFIC DEATHS IN SAN FRANCISCO



NOTE: 2005-2012 deaths from SWITRS data, restricting to San Francisco City Streets jurisdiction, including streets that intersect with freeways (i.e., fatalities occurring at freeway ramps in the City jurisdiction). 2013 traffic deaths from SFPD. 2014-2017 traffic deaths reported using the Vision Zero Traffic Fatality Protocol based on data from the Office of the Medical Examiner and SFPD; includes deaths involving light rail vehicles not routinely reported in SWITRS.

2017 TRAFFIC DEATHS

People Walking: 70% of people killed

Seniors: 50% of pedestrian deaths

Driver Failure to Yield and Unsafe Speed: Violations

in >50% of deaths

Concentrated on the Vision Zero High Injury Network

TransportationAuthorityVision 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

SafeVehicles

Using technology to ensure a safe system



















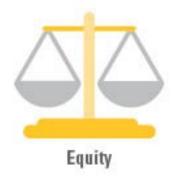


DATA TO ADVANCE CORE VZ PRINCIPLES

Core Principles







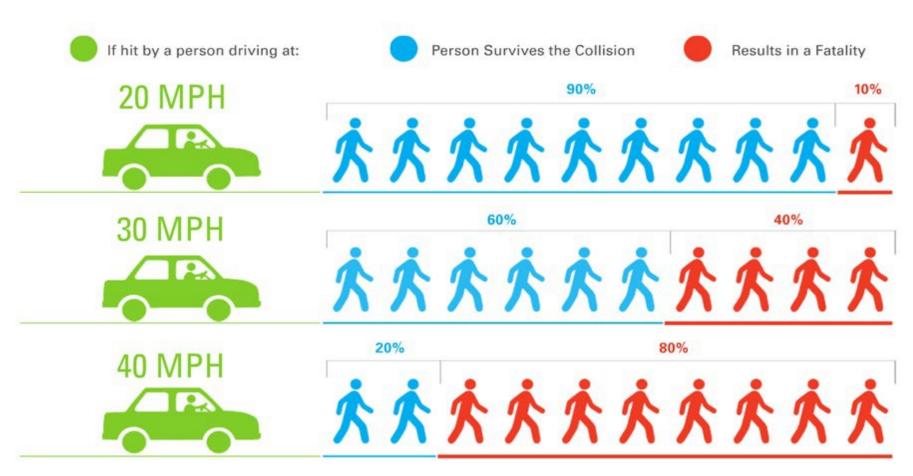






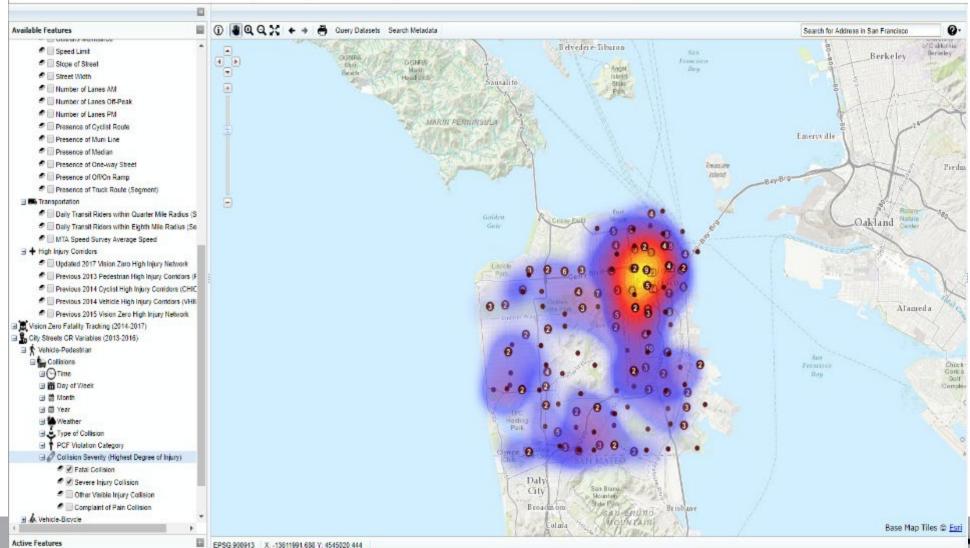
Speed

SPEED IS THE MAJOR PREDICTOR OF SURVIVAL AND INJURY SEVERITY



SPATIAL DATA SYSTEMS FOR MONITORING, EVALUATION AND ANALYSIS

TransBASE: Linking Transportation Systems to Our Health



COMPREHENSIVE INJURY SURVEILLANCE FOR MONITOR EVALUATION AND ANALYSIS

Standard Practice: Police Reported Injury Collisions

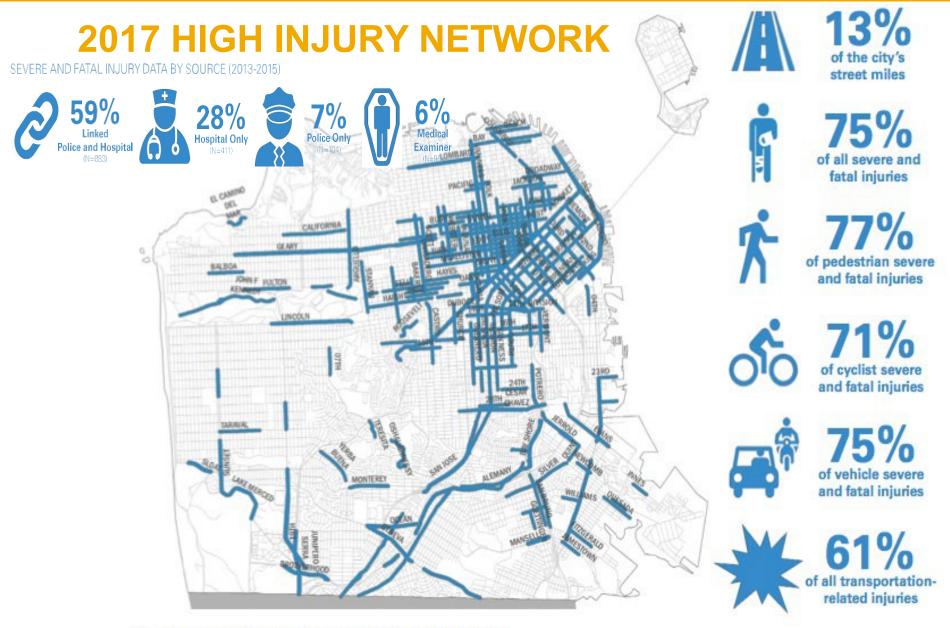
- Detailed data about crash characteristics
- Little data on injury severity (4 levels of injury severity classification)
- Underreporting of injuries
 - 21% underreporting of pedestrian injuries (Sciortino et al 2005);
 African Americans less likely in police records
 - 27% underreporting of cyclist injuries (Lopez et al 2012)



Unintentional Injury: Hospital Medical Records

- Improved injury severity assessment and detailed health outcome data
- Comorbidities (mental illness, hypertension, etc)
- **Disability** status
- Demographics (race/ethnicity, insurance type)
- Homelessness
 - Little data on cause, injury location
 - Mechanism of injury code
 - No location info
 - No cause of crash





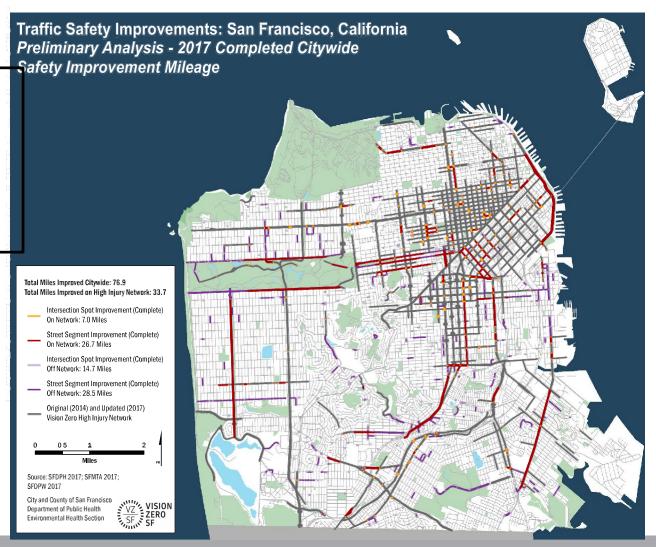
N = 1,494 severe and fatal transportation-related injuries.

SFPD = San Francisco Police Department collision reports, 2013-2015.

ZSFG = Zuckerberg San Francisco General Hospital data linked to Emergency Medical Services data, 2013-2015.

FOCUSING IMPROVEMENTS ON THE HIGH INJURY NETWORK

33.7 miles of engineering improvements on the *High Injury Network* in 2017



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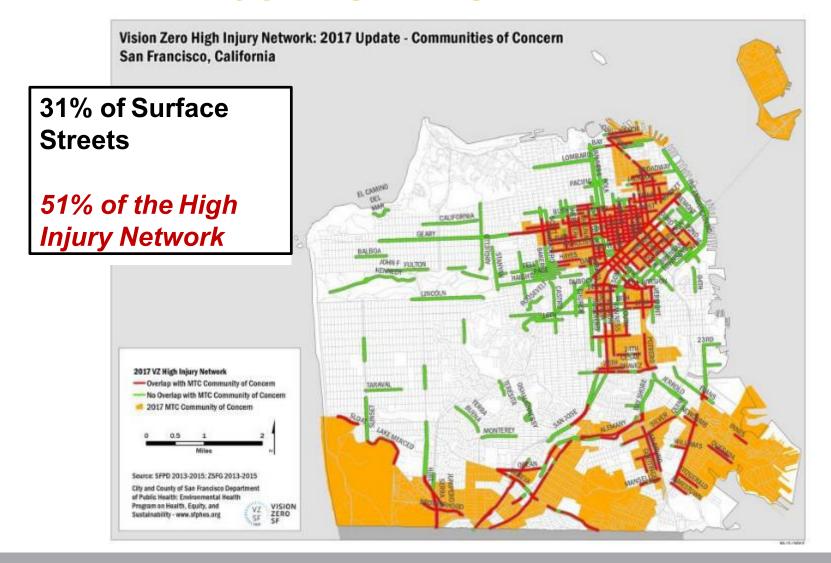
TARGETING SAFE SPEEDS EDUCATION AND ENFORCEMENT CAMPAIGN

An Active Transportation Program (ATP) Project





FOCUSING IMPROVEMENTS IN VULNERABLE COMMUNITIES



DEEPENING COMMUNITY ENGAGEMENT TO ADDRESS INJURY INEQUITIES





Allocate adequate time and financial resources needed to partner with or engage vulnerable groups.



Conduct outreach through existing events that historically under-represented communities attend.



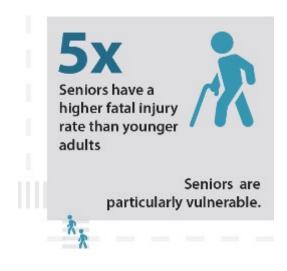
SAFE ROUTES TO SCHOOLS

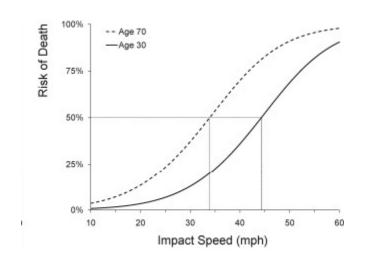




An Active Transportation Program (ATP) Project

SENIORS ARE AT INCREASED RISK OF DEATH AND SEVE INJURY - AT ANY GIVEN SPEED





Average death risk for a 70-year-old pedestrian similar to that for a 30-year-old pedestrian struck at a speed 11.8 mph faster

PEOPLE WITH DISABILITIES ALSO OF PARTICULAR CONCERN

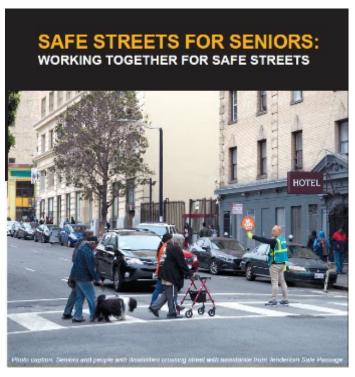




~6% of people admitted to the Zuckerberg SF General Hospital's Trauma Center for transportation-related injury recorded as **having a mobility**, **visual**, **or hearing disability**

- ~60% of those injured use a mobility aid: Wheelchair, Walker, Cane
- ~70% of those injured were people walking
- >50% are also seniors aged 65+

SAFE STREETS FOR SENIORS: EDUCATION AND COMMUNITY ENGAGEMENT





- **Multi-lingual presentations to seniors and service providers** on Vision Zero, how to get involved, and how to stay safe
- Funding **community based organizations** to conduct in-depth education and outreach in their neighborhoods
- Over 1300 seniors and staff at over 40 locations to date

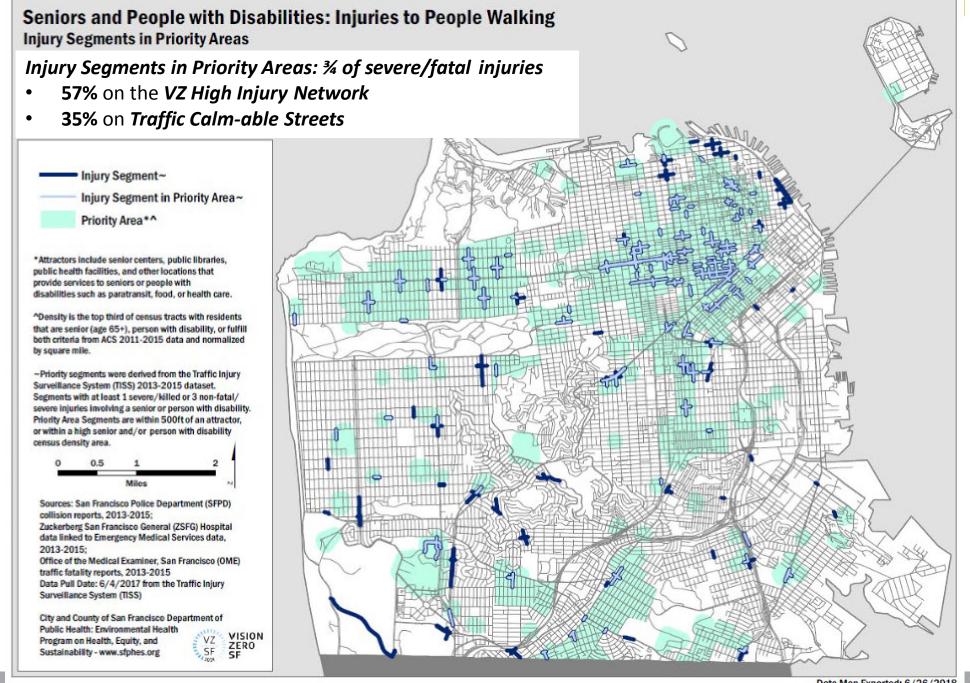
SFMTA POLICY CHANGE - INCREASE IN PEDESTRIAN CROSSING TIME CITYWIDE

SFCHRONICLE.COM

Pedestrian safety: SF's plan to increase crossing times between signals









ADVANCING EFFECTIVE POLICY:

AUTOMATED SPEED ENFORCEMENT

Portland 53%

Reduction in fatalities

Denver **28%**

Decrease in average speed

Chicago 31%

Decrease in the # of violators per passing vehicle

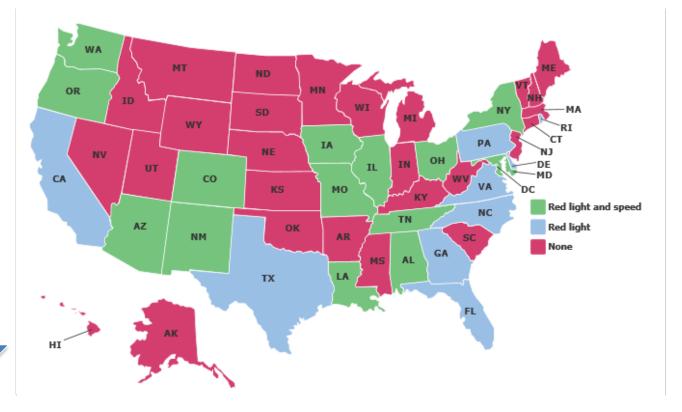
New York City

13%

Decrease in collisions with injuries near cameras sites

142 COMMUNITIES IN

15 STATES + DC



ADVANCING EFFECTIVE POLICY



AUTOMATED SPEED ENFORCEMENT

ZERO IS THE ONLY ACCEPTABLE NUMBER







Acknowledgements

San Francisco Department of Public Health **Zuckerberg San Francisco General Hospital** San Francisco MunicipalTransportationAgency **San Francisco Police Department** San Francisco District Attorney's Office San Francisco Office of the Medical Examiner **San Francisco Fire Department American Medical Response** King-American Ambulance Company San Francisco CountyTransportationAuthority San Francisco Department of PublicWorks **San Francisco Planning Department**

MEGAN WIER, MPH

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Questions for our presenters?

(please use the **Q&A** function)





Zero Traffic Fatalities Task Force

To read approved legislation, visit

https://leginfo.legislature.ca.gov/

Enter AB-2363 in Quick Bill Search Tool



Your feedback is important!

- Upon the conclusion of this webinar, please complete the Survey Gizmo to provide your feedback on today's webinar.
- We will also ask whether you have interest in receiving additional technical assistance.



ATP Resources

- ATRC Resources: http://caatpresources.org
- ATP non-infrastructure questions, email atsp@cdph.ca.gov
- California Transportation Commission ATP Guidance and List of Projects http://www.catc.ca.gov/programs/atp/
- Caltrans ATP Delivery Requirements for ATP Awardees
 http://www.dot.ca.gov/hq/LocalPrograms/atp/

Thank You, Speakers!

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