



## Safe Systems Summit

Redefining Transportation Safety

# Vision Zero & Safe Systems in the U.S.

Moving from vision to action

April 2019

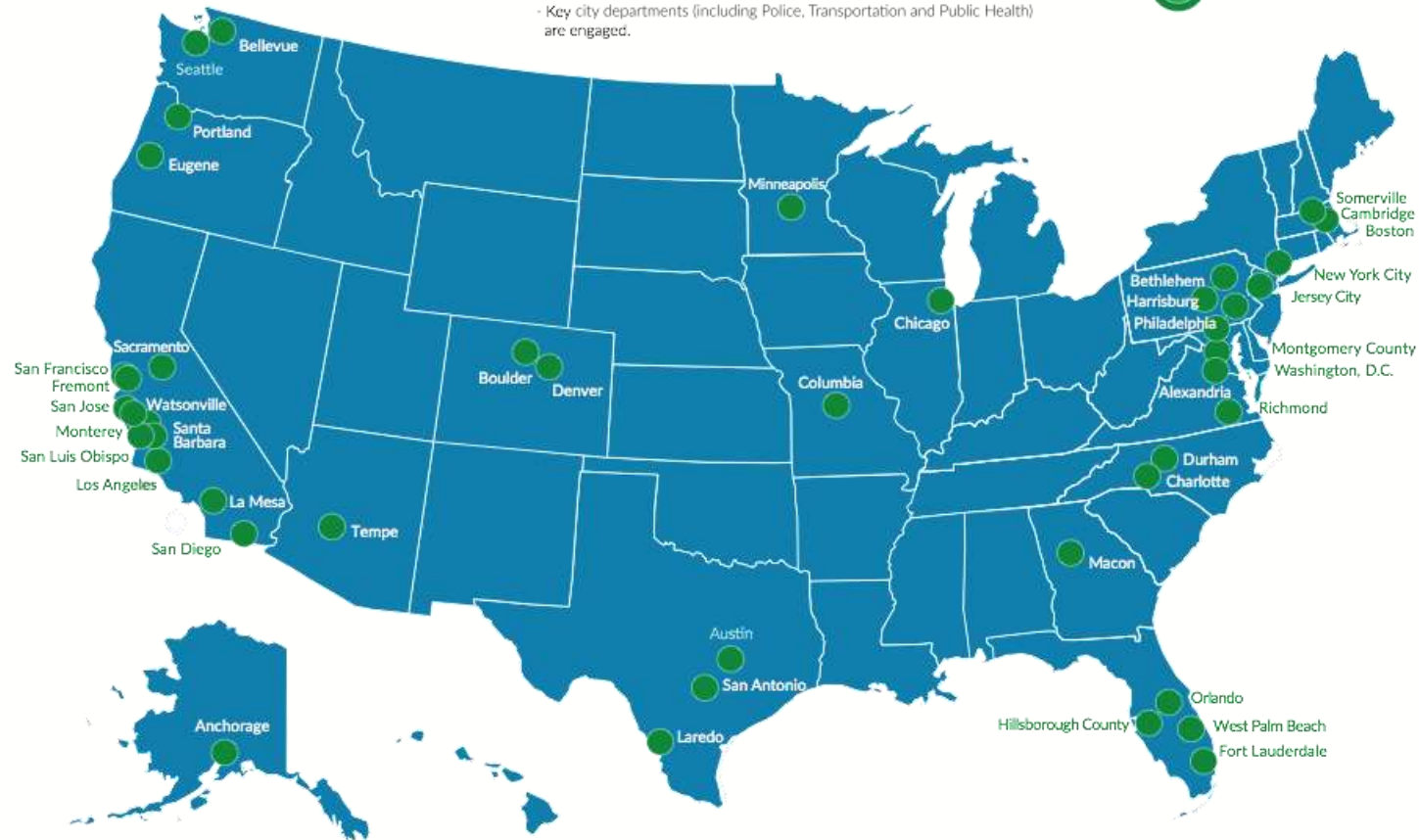




# Vision Zero Cities

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 so in clear time frame
- Key city departments (including Police, Transportation and Public Health) are engaged.



## **TRADITIONAL APPROACH**

Traffic deaths are **INEVITABLE**

**PERFECT** human behavior

Prevent **COLLISIONS**

**INDIVIDUAL** responsibility

Saving lives is **EXPENSIVE**

**VS**

## **VISION ZERO**

Traffic deaths are **PREVENTABLE**

Integrate **HUMAN FAILING** in approach

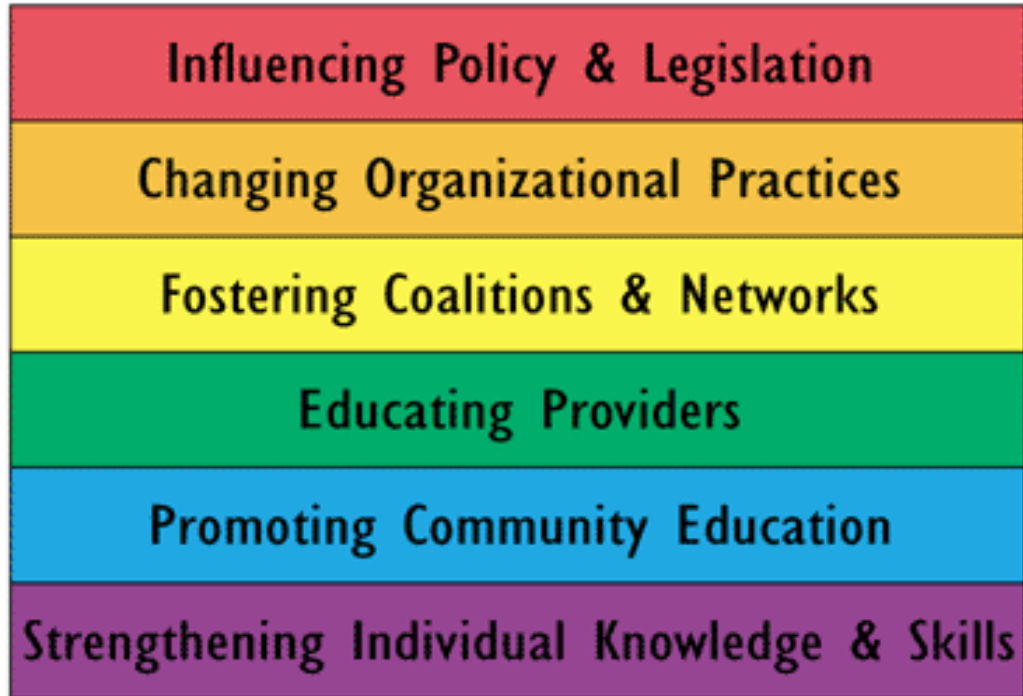
Prevent **FATAL AND SEVERE CRASHES**

**SYSTEMS** approach

Saving lives is **NOT EXPENSIVE**



# The Spectrum of Prevention



# **SAFE TRAVEL FOR ALL**

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graph TD; A[SAFE TRAVEL FOR ALL] --> B[SAFE STREETS]; A --> C[SAFE SPEEDS]; A --> D[SAFE VEHICLES]; A --> E[SAFE PEOPLE];
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**SAFE STREETS**

**SAFE SPEEDS**

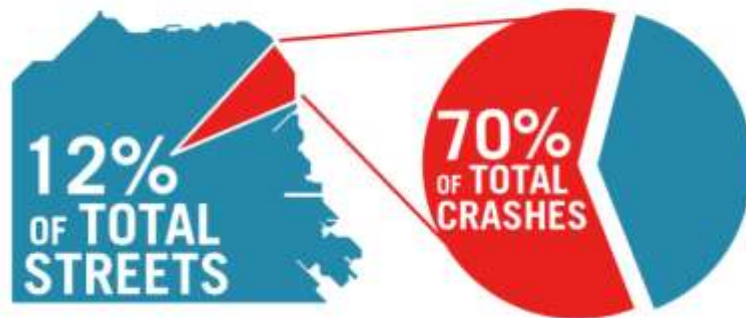
**SAFE VEHICLES**

**SAFE PEOPLE**

# DATA DRIVEN APPROACH

## HIGH-INJURY STREETS

San  
Francisco



Denver

**50%** of Denver's traffic fatalities  
occur on just **5%** of our streets.

Hit by a vehicle traveling at

**20**  
MPH



9 out of 10 pedestrians survive.

Hit by a vehicle traveling at

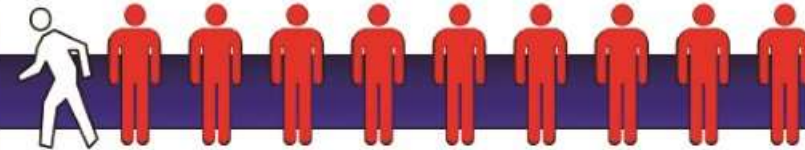
**30**  
MPH



5 out of 10 pedestrians survive.

Hit by a vehicle traveling at

**40**  
MPH



only 1 out of 10 pedestrians survives.



# Vision Zero Success = Managing Speed for Safety





Highway-like existing conditions

**NYC:**  
**1/3 fewer traffic deaths**  
**since 2014**



Key Design Treatments:  
Median-side bicycle and  
pedestrian path

**FOR A SAFER NYC**  
**SPEED LIMIT 25**  
**VISION ZERO**

**SPEED CAMERA PROGRAMS**



**SPEED LIMIT 30** **SPEED LIMIT 25** **ON LOCAL ROADS**

**COULD HAVE PREVENTED**  
**>22,000**  
**DEATHS OR INJURIES**  
**NATIONWIDE IN 2015**

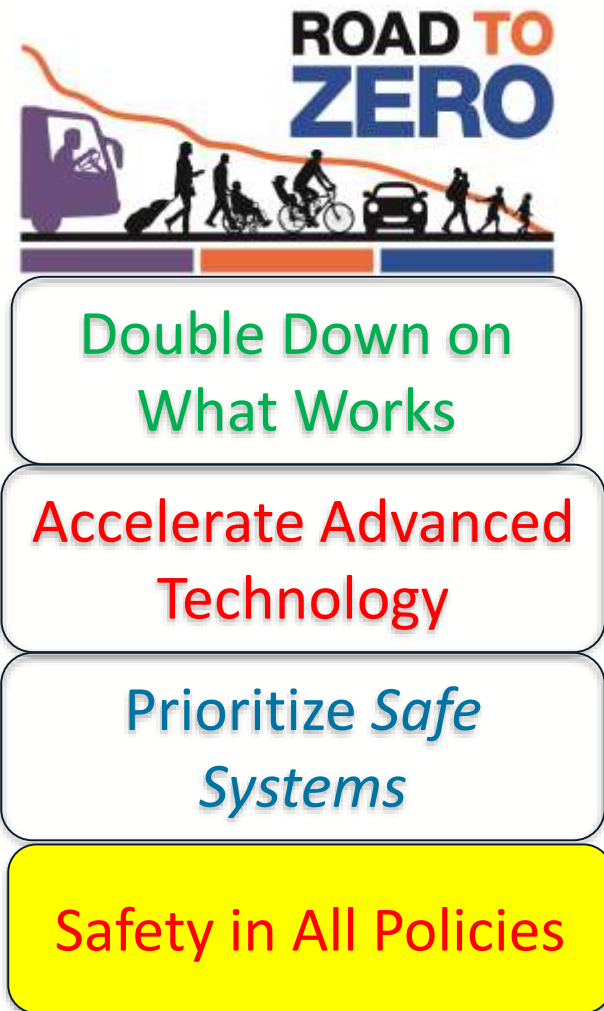
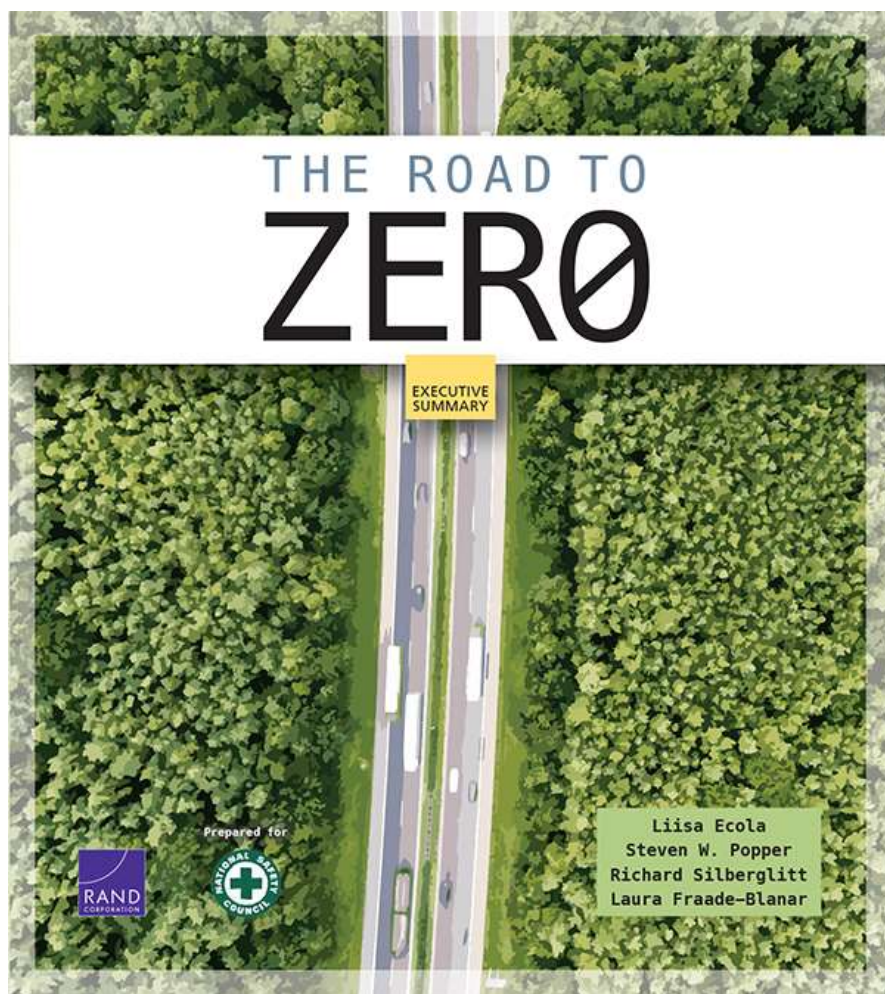


**VISION ZERO NETWORK**

SOURCE: INSURANCE INSTITUTE FOR HIGHWAY SAFETY, IIHS.ORG





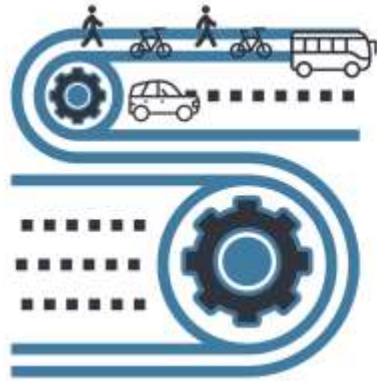


Double Down on  
What Works

Accelerate Advanced  
Technology

Prioritize *Safe  
Systems*

Safety in All Policies



# VISION ZERO

## CORE ELEMENTS





## Leadership and Commitment

### 1. Public, High-Level, and Ongoing Commitment.

The Mayor and key elected officials and leaders within public agencies, including transportation, public health, and police, commit to a goal of eliminating traffic fatalities and serious injuries within a specific timeframe. Leadership across these agencies consistently engages in prioritizing safety via a collaborative working group and other resource-sharing efforts.

**2. Authentic Engagement.** Meaningful and accessible community engagement toward Vision Zero strategy and implementation is employed, with a focus on equity.

**3. Strategic Planning.** A Vision Zero Action Plan is developed, approved, and used to guide work. The Plan includes explicit goals and measurable strategies with clear timelines, and it identifies responsible stakeholders.

**4. Project Delivery.** Decision-makers and system designers advance projects and policies for safe, equitable multi-modal travel by securing funding and implementing projects, prioritizing roadways with the most pressing safety issues.

## Equity and Engagement

Elevating equity and meaningful community engagement, particularly in low-income communities and communities of color, should be a priority in all stages of Vision Zero work.

# ACTIONABLE STRATEGIES

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## PRIORITIZE ROADWAY DESIGN



## FOCUS ON SPEED MANAGEMENT



### Safe Roadways and Safe Speeds

**5. Complete Streets for All.** Complete Streets concepts are integrated into communitywide plans and implemented through projects to encourage a safe, well-connected transportation network for people using all modes of transportation. This prioritizes safe travel of people over expeditious travel of motor vehicles.

**6. Context-Appropriate Speeds.** Travel speeds are set and managed to achieve safe conditions for the specific roadway context and to protect all roadway users, particularly those most at risk in crashes. Proven speed management policies and practices are prioritized to reach this goal.

The logo features a stylized blue graphic on the left consisting of a gear, a car, and a train, with dotted lines suggesting movement. To the right of this graphic, the words "VISION ZERO" are written in a large, bold, black sans-serif font, and "CORE ELEMENTS" is written below it in a slightly smaller, bold, blue sans-serif font.

# VISION ZERO CORE ELEMENTS

## Data-driven Approach, Transparency, and Accountability

- 7. Equity-Focused Analysis and Programs.** Commitment is made to an equitable approach and outcomes, including prioritizing engagement and investments in traditionally under-served communities and adopting equitable traffic enforcement practices.
- 8. Proactive, Systemic Planning.** A proactive, systems-based approach to safety is used to identify and address top risk factors and mitigate potential crashes and crash severity.
- 9. Responsive, Hot Spot Planning.** A map of the community's fatal and serious injury crash locations is developed, regularly updated, and used to guide priority actions and funding.
- 10. Comprehensive Evaluation and Adjustments.** Routine evaluation of the performance of all safety interventions is made public and shared with decision makers to inform priorities, budgets, and updates to the Vision Zero Action Plan.

# Data: Not all Communities' Safety Treated Equitably

## People Killed While Walking by Income



Governing, August 2014

© 2015 Safe Routes to School National Partnership

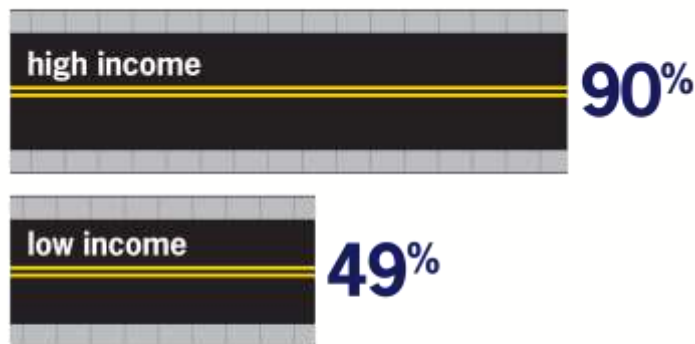
## People Killed While Walking



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

# Safe Systems: *not* traffic stops



Prevention  
Institute





**ZERO** <sup>IS</sup> **MORE MÁS** 零更多 ししょうしゃゼロ 제로는 더 많다  
**ANG WALA AY MAS MARAMI BIRTHDAYS CUMPLEAÑOS** 생일  
**学习 LEARNING** 学び **APRENDIZAJE** 배움 **WONDER ASOMBRO**  
**CELEBRATIONS** 庆祝活动 **MGA PAGDIRIWANG**幸せ **HAPPINESS**  
**MORE MÁS** 更多 もっと 더 **LIFE VIDA**



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