Vision Zero update

Planning & Sustainability Commission | June 11, 2019





Vision Zero is Portland's goal to eliminate all traffic deaths and serious injuries

Today:

- Crash data trends
- Priorities for 2019-21: Creating a "Safe System" in Portland
- Discussion

2 Year Update Report

- Full report will be posted soon
- 2018 Fatality summary and Vision Zero Action Plan Performance Measures

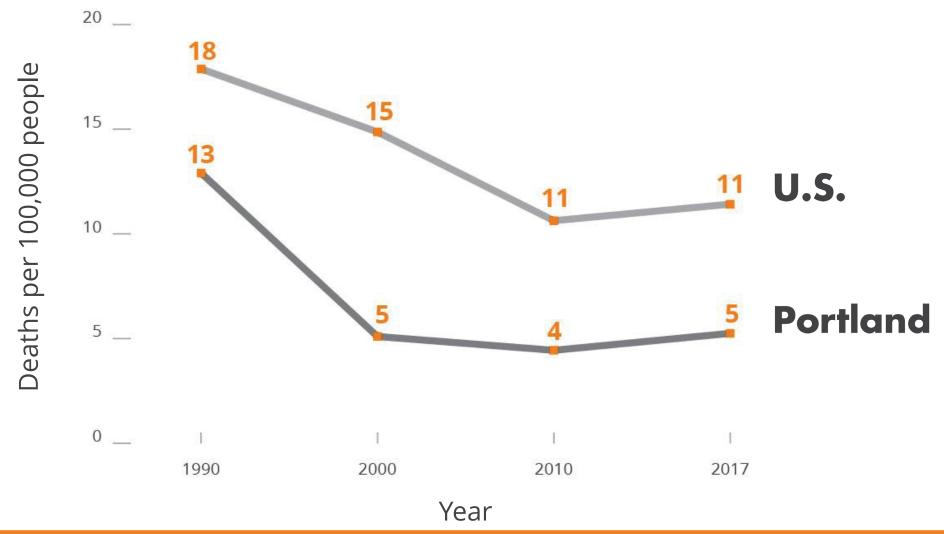
SAVING
SAVING
SAVING
SAVING
SAVING
SAFE
STREETS

VISION ZERO

visionzeroportland.com

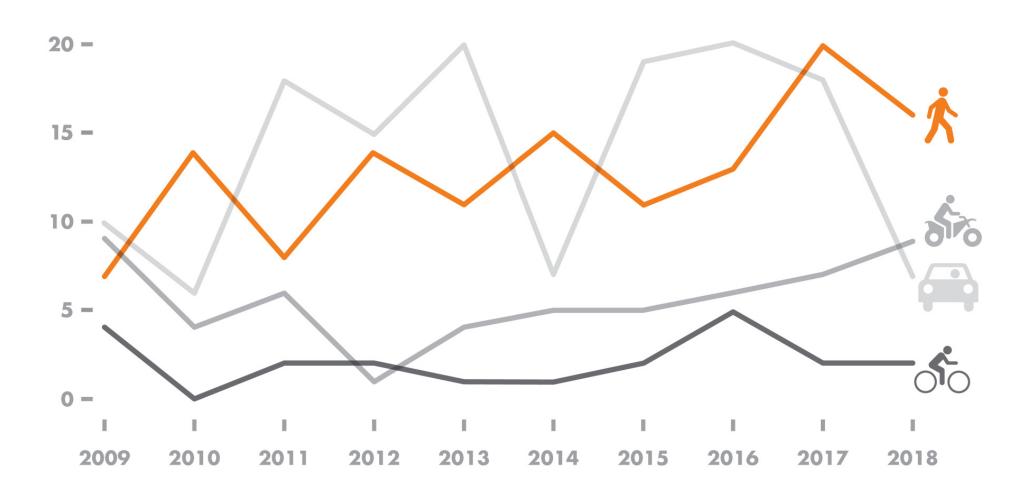
Traffic deaths: National comparison

TRAFFIC DEATHS PER 100,000 PEOPLE IN THE U.S. & PORTLAND, OREGON, 1990-2017



Portland traffic deaths, 2009-18





Note: Transit not shown due to zero transit passenger deaths during this period.

= TOP 30 HIGH CRASH STREETS = TOP 30 HIGH CRASH INTERSECTIONS High **= LOW-INCOME COMMUNITIES AND COMMUNITIES OF COLOR** Crash Network COLUMBIA BLVD MARINE DR AIRPORT WAY LOMBARD KILLINGSWORTH FREMONT BROADWAY HALSEY GLISAN BURNSIDE STARK HAWTHO RNE DIVISION POWELL SW BEAVERTON HILLSDALE HWY HOLGATE CHAVEZ CAPITOL HWY BARBUR



Priorities for 2019-21

VISION ZERO

- Protect pedestrians
- Reduce speeds citywide
- Design streets to protect human lives
- Create a culture of shared responsibility



Vision Zero = Safe System



4 principles of a safe system

- 1. People make mistakes that can lead to crashes
- The human body has a limited physical ability to tolerate crash forces before harm occurs
- 3. Shared responsibility exists amongst people who:
 - Design, build, and manage streets & vehicles
 - Use streets and vehicles
 - Provide post-crash care
- 4. All parts of the system must be strengthened to multiply their effects; redundancy provides protection when one part fails

Source: International Transport Forum, "Zero Road Deaths and Serious Injuries"



How a safe system is different

Safe system approach	Traditional approach
No human being should be killed or seriously injured as the result of a crash	Deaths and serious injuries are an inevitable part of modern transportation
Safety is the responsibility of road users and people who plan, build, maintain, and manage traffic	Safety of road users is their own responsibility
Acknowledge that people are fallible and make mistakes and poor choices	Expect people to act safely at all times
Use education, information, regulation, enforcement, and street & vehicle design	Use education, information, regulation, and enforcement
Proactive approach to guide safe behavior	Reactive approach based only on analysis of past crashes

Source: International Transport Forum, "Zero Road Deaths and Serious Injuries"



Safe system example: Speed limit setting

Safe system approach

Standard approach

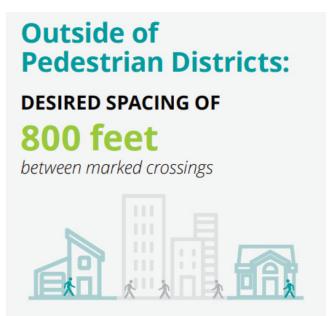
Set speed limits based on likely crash types, resulting impact forces, and the human body's ability to withstand these forces

Set speed limits based on the assumption that most drivers choose reasonable and safe speeds (only those in the minority 15% are judged as "speeding")

Safe system example: Convenient crossings

- Make the convenient choice the safe choice
- Proactive: Don't always require high numbers of pedestrians, don't wait for a crash
- Pedestrians may not always travel far to access a crossing

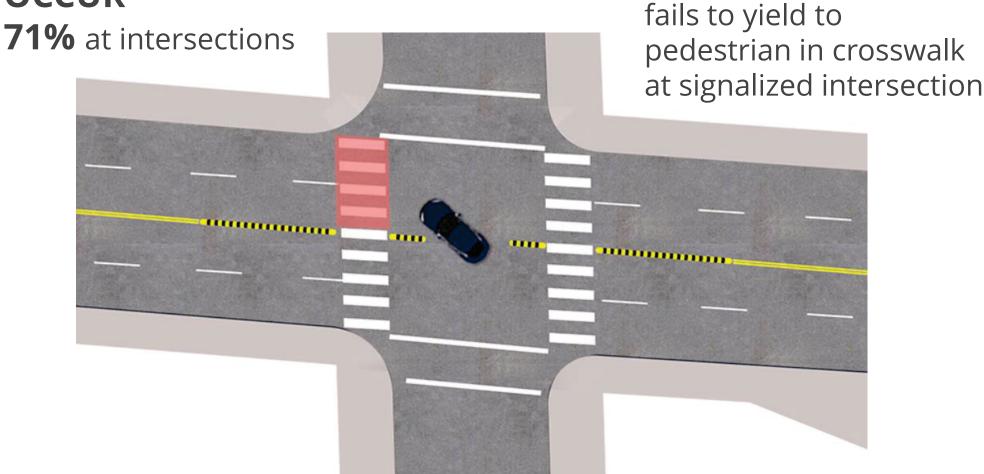






Safe system example: Left turn calming MOST COMMON

WHERE CRASHES OCCUR



CRASH TYPE

20% Left turning driver

Safe system example: Left turn calming

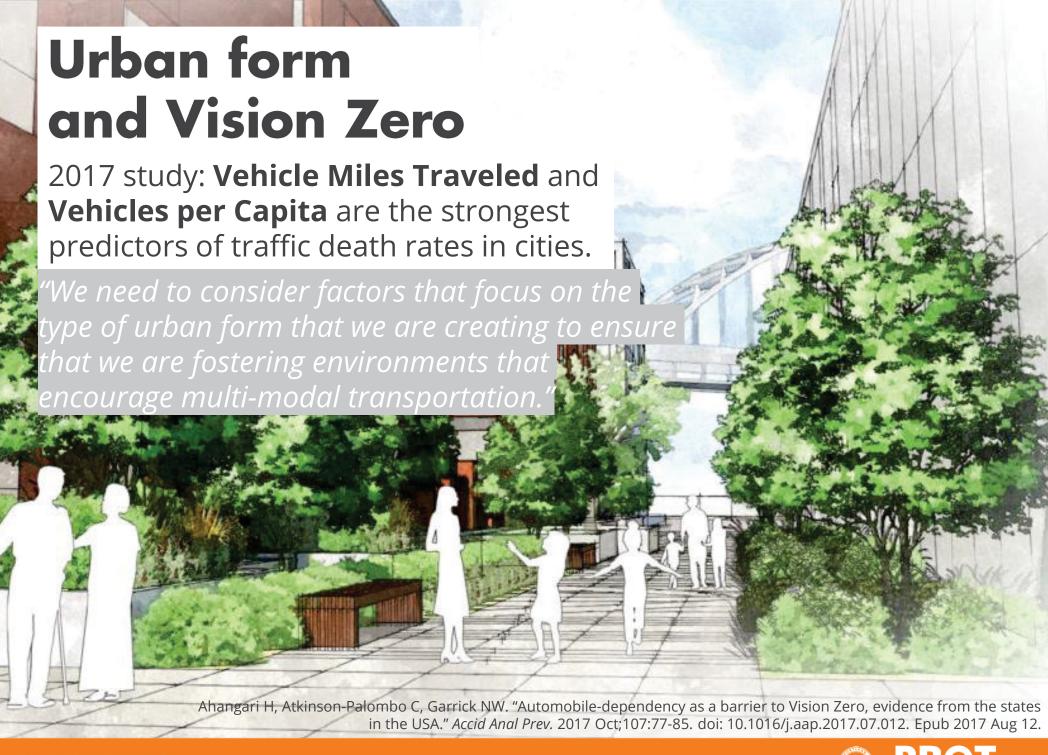
- People will not always wear reflective clothing
- People driving may not always see people in crosswalks
- Not a substitute for education and enforcement; intended to supplement existing tools



Safe system example: Truck sideguards

- Deflect people biking and pedestrians from truck undersides
- Makes large vehicles intrinsically safer; no extra training necessary





Automobile dependency as a barrier to Vision Zero

2018 policy paper describes two "traffic safety paradigms."

Old paradigm:

Reduce negative impacts of motor vehicles

"Assumes that driving is generally safe, and favors targeted safety programs that reduce special risks such as youth, senior and impaired driving."



New paradigm: Reduce exposure to motor vehicles

"Recognizes that all vehicle travel imposes risks, and so supports vehicle travel reduction strategies such as more multi-modal planning, efficient transport pricing, Smart Growth development policies, and TDM programs."



Litman, T.A. (2018). A New Traffic Safety Paradigm 24 April 2018.



Takeaways

- Vision Zero is still the only acceptable goal PBOT is doubling down on high-impact actions
- Mode split is a safety issue; non-driving travel options must become more competitive for more trips



