



IN OUR LIFETIME,
WE ARE
COMMITTED
TO

ELIMINATING
PREVENTABLE
DEATHS



ONE
PREVENTABLE
DEATH OCCURS
EVERY





Eliminating Preventable Deaths in our Lifetime | 3



WORKPLACE FATALITIES IN 2016

5,190

#1 Cause of Workplace Death: Car Crashes



Motor vehicle crashes



Falls



**Intentional
injuries by person**



**Contact with objects
and equipment**

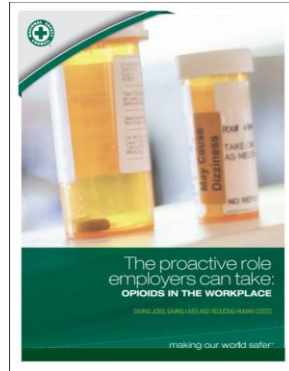


The Role of Employers

DRIVER TRAINING



ALCOHOL AND ILLICIT DRUGS



DISTRACTION





Opportunities for Employers

FATIGUE



Rx OPIOIDS






The Issue: **FATIGUE**





Safety Consequences


Three Mile Island



Meltdown occurred at
4:00am

The image shows the Three Mile Island nuclear power plant with its distinctive cooling towers and surrounding industrial buildings.

NASA Shuttle Challenger



Workers had <2 hours of
sleep

The image shows the NASA Shuttle Challenger being launched, with a large plume of white smoke and fire at the base.

Tracy Morgan's Crash



Trucker was sleep
deprived

The image shows a truck accident scene with a white truck and a damaged car in the foreground.

Credit: Sleep Health Institute of Brigham and Women's Hospital – Sleep Matters Initiative



Sleep loss **43%**

*don't get enough sleep.**

Experts agree, seven to nine hours of sleep a day is necessary for optimal health and performance.





A 2014 meta-analysis showed...



13% of
work injuries
could be attributed to
sleep problems



NTSB has identified **FATIGUE** as a factor:



20% of all investigations

40% of highway crashes

Marcus, J. H., & Rosekind, M. R. (2017). Fatigue in transportation: NTSB investigations and safety recommendations. *Injury prevention*, 23(4), 232-238.



Tefft, B. C. (2014). *Prevalence of motor vehicle crashes involving drowsy drivers, United States, 2009-2013*. Washington, DC: AAA Foundation for Traffic Safety.



Driving on **4-5 hours**
of sleep means you are
four times more likely
to crash





NSC FATIGUE Cost Calculator

Education Content Partner
BRIGHAM HEALTH
BRIGHAM AND WOMEN'S
Sleep Matters Initiative

Real Costs of Fatigue in the Workplace

TOTAL ANNUAL COST: \$228,295



Absenteeism

COST:

\$44,036



Decreased Productivity

COST:

\$105,535



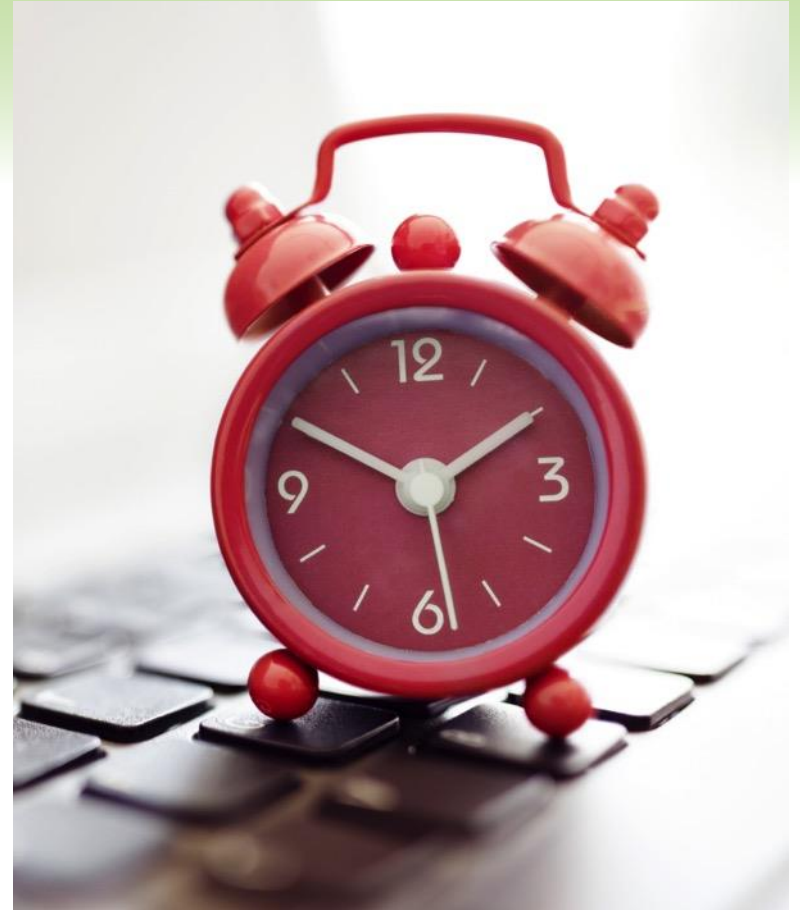
Healthcare

COST:

\$78,724



Solution: Schedules





Solution: Sleep Education



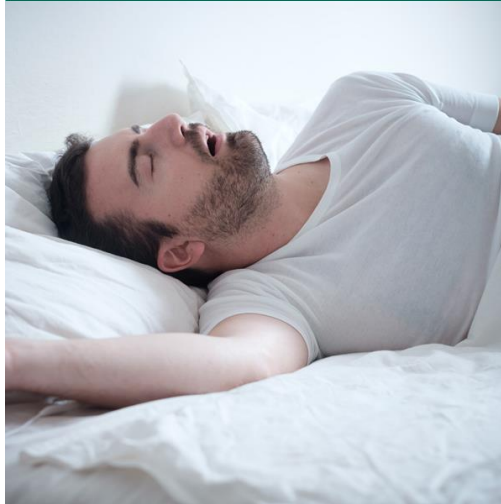


Solution: Sleep Disorder Screening



UP TO **90%** OF
SLEEP DISORDERS
GO **UNTREATED**

#TiredAtWork





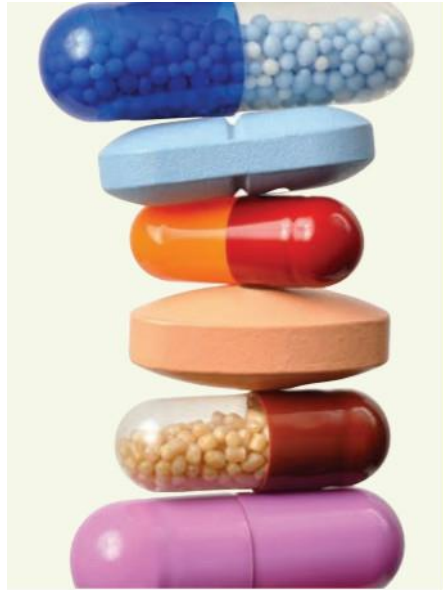
The Issue: OPIOIDS





The Warning Label





The total number of prescriptions filled by Americans jumped **85%** over two decades.



More than **70%** of employers have been **impacted** by prescription drugs.



NSC National Employer Perception Survey, March 2017



ECONOMIC LOSSES BETWEEN 1999-2015 DUE TO OPIOIDS

Lost Work Hours:



6.4 billion hrs



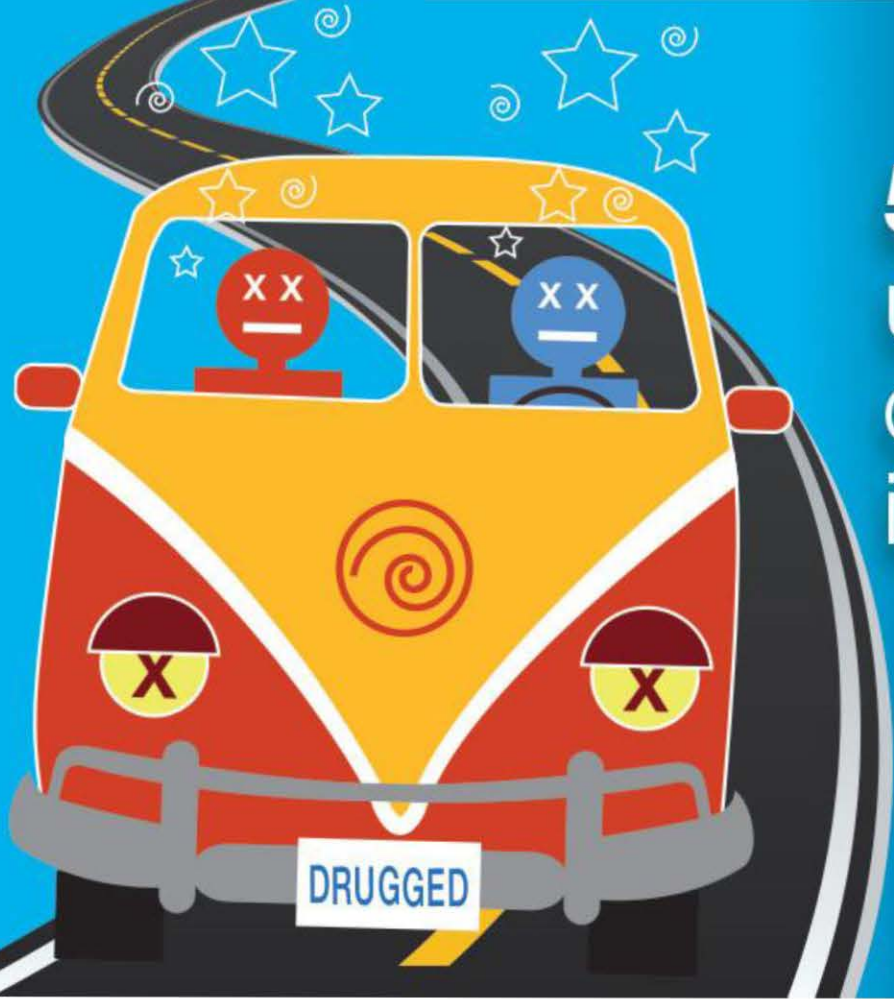
5.7 billion hrs



U.S. Economy Lost:

\$702 billion

Source: American Action Forum, 2015



55% of people
using opioids reported
driving under the
influence.

JustDrive

nsc.org/ddmonth





Driving and Opioids

Drivers using opioids are **twice as likely** to be involved in crash

47% more likely to be culpable for the crash.

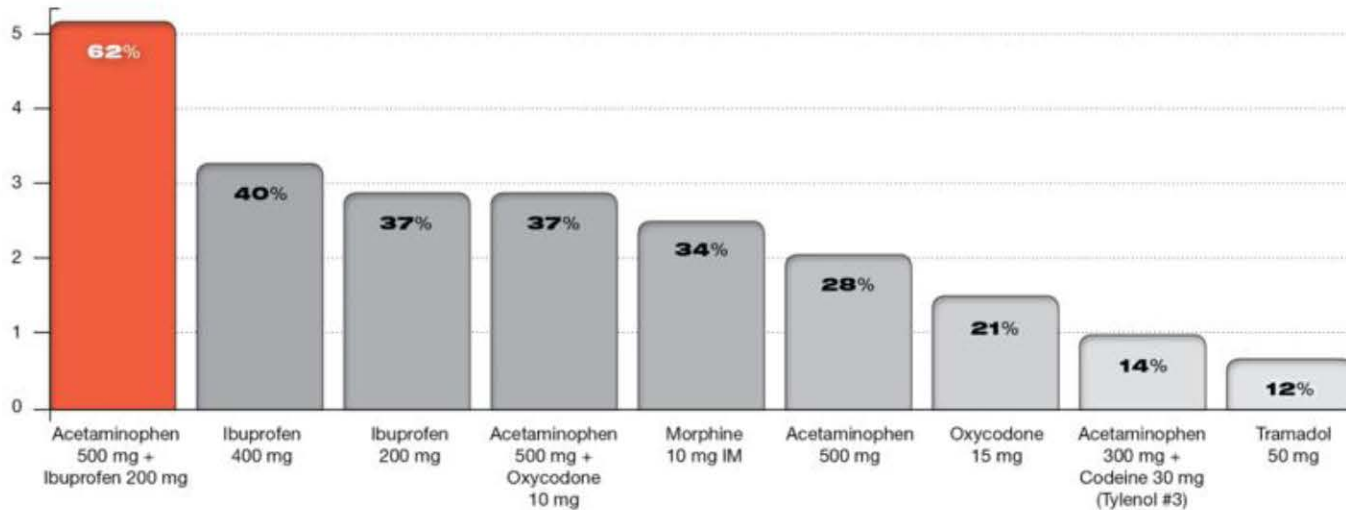


Source: The use of prescription opioids and motor vehicle crashes: a meta analysis



Data on pain management

EFFICACY OF PAIN MEDICATIONS FOR ACUTE PAIN





A Solution:



[NSC.org/DrugsAtWork](https://www.nsc.org/DrugsAtWork)

Workers in recovery miss

**5 DAYS
LESS
WORK**
per year
than workers with a SUD



Employers Can Help

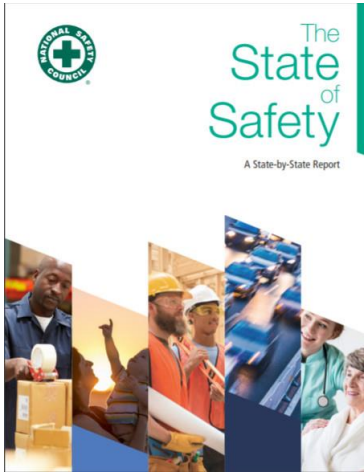
Workers in recovery have **lowest reported rates of driving under the influence** than the general population.

Source: National Survey on Drug Use and Health



Solving the Opioid Crisis

LAWS AND POLICIES



TOOLS FOR EMPLOYERS

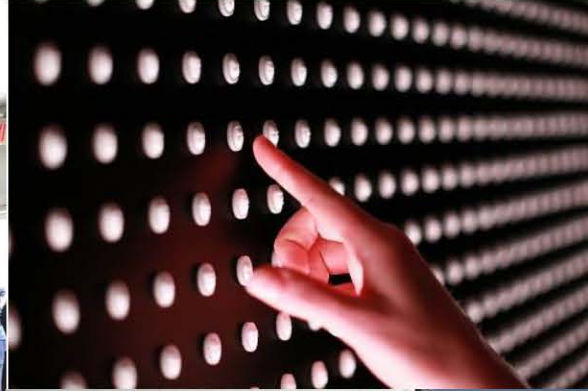


PUBLIC EDUCATION





Prescribed to Death Memorial





Road to Zero Coalition



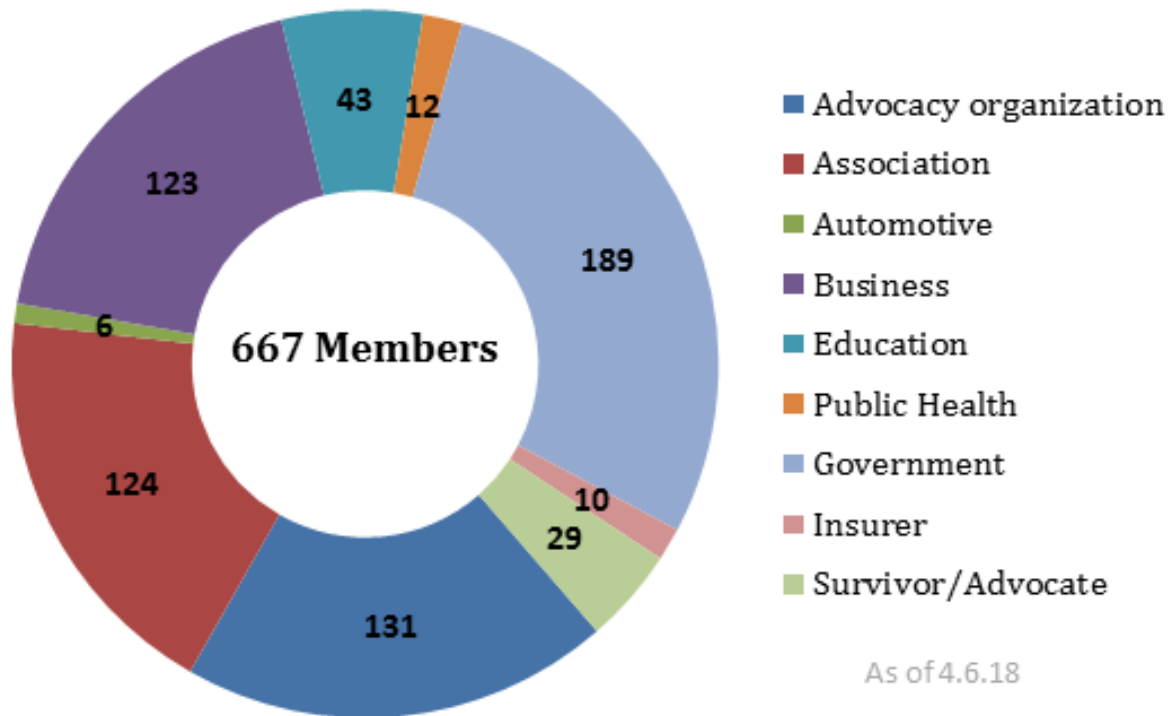


How Road to Zero is working





Road to Zero Coalition Members





2018 Road to Zero Grant Recipients

Organization	Grant Name
America Walks with UNC-HSRC	Accelerating Adoption of Safer Systems for All Road Users
Bicycle Colorado	Bicycle-Friendly Driver and Confident Commuting Program
Center for Latino Progress	Cooperative Community Crash Reduction, Hartford CT
City of Boston	Boston's Safest Driver
Institute of Transportation Engineers/ Vision Zero Network	Moving from Conversation to Action: A Scalable Training Resource on Speed Management for Transportation Professionals and Community Stakeholders
Lorain County Public Health	Lorain Active Transportation Collaborative
National Complete Streets Coalition, Smart Growth America	Safe Street, Smart Cities Academy
NORC at University of Chicago	Underutilized Strategies in Traffic Safety
Texas A&M University / Houston Methodist Hospital	A systems approach to reduce drowsy driving among night-shift nurses
University of Alabama at Birmingham/ Safe Kids Worldwide	Improving Child Restraint Installation in Rural America through Interactive Virtual Presence
University of Michigan	Addressing Socioeconomic Disparities in Motor-Vehicle Fatalities

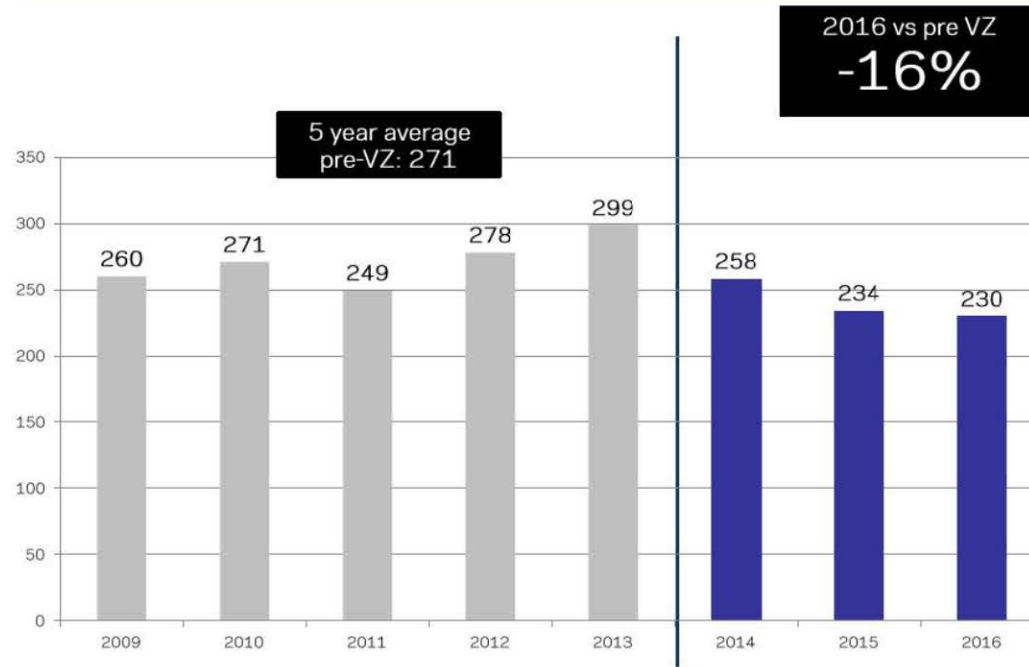
TOTAL AMOUNT

\$ 1,500,000



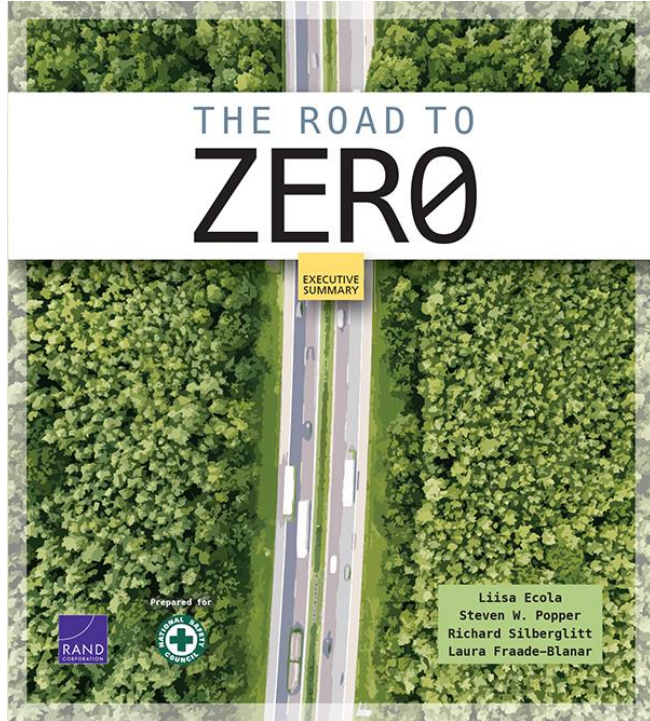
WHAT CULTURE CHANGE LOOKS LIKE in NYC

All Traffic Fatalities *Before & After Vision Zero*



VISION
ZERO

Data as of 1/20/17 23



DOUBLE DOWN
on What Works

ACCELERATE
Technology

PRIORITIZE
Safety



Asheville, North Carolina Safe Infrastructure Project

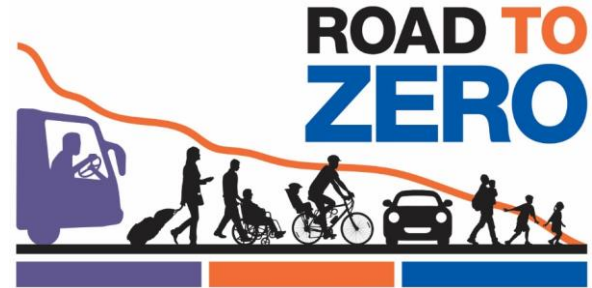
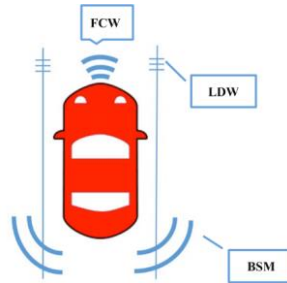


7 lanes of traffic reduced to single lane roundabout

- pedestrians cross just one lane at a time
- lower speeds
- shorter queues
- better use of space



Solving Motor Vehicle Deaths



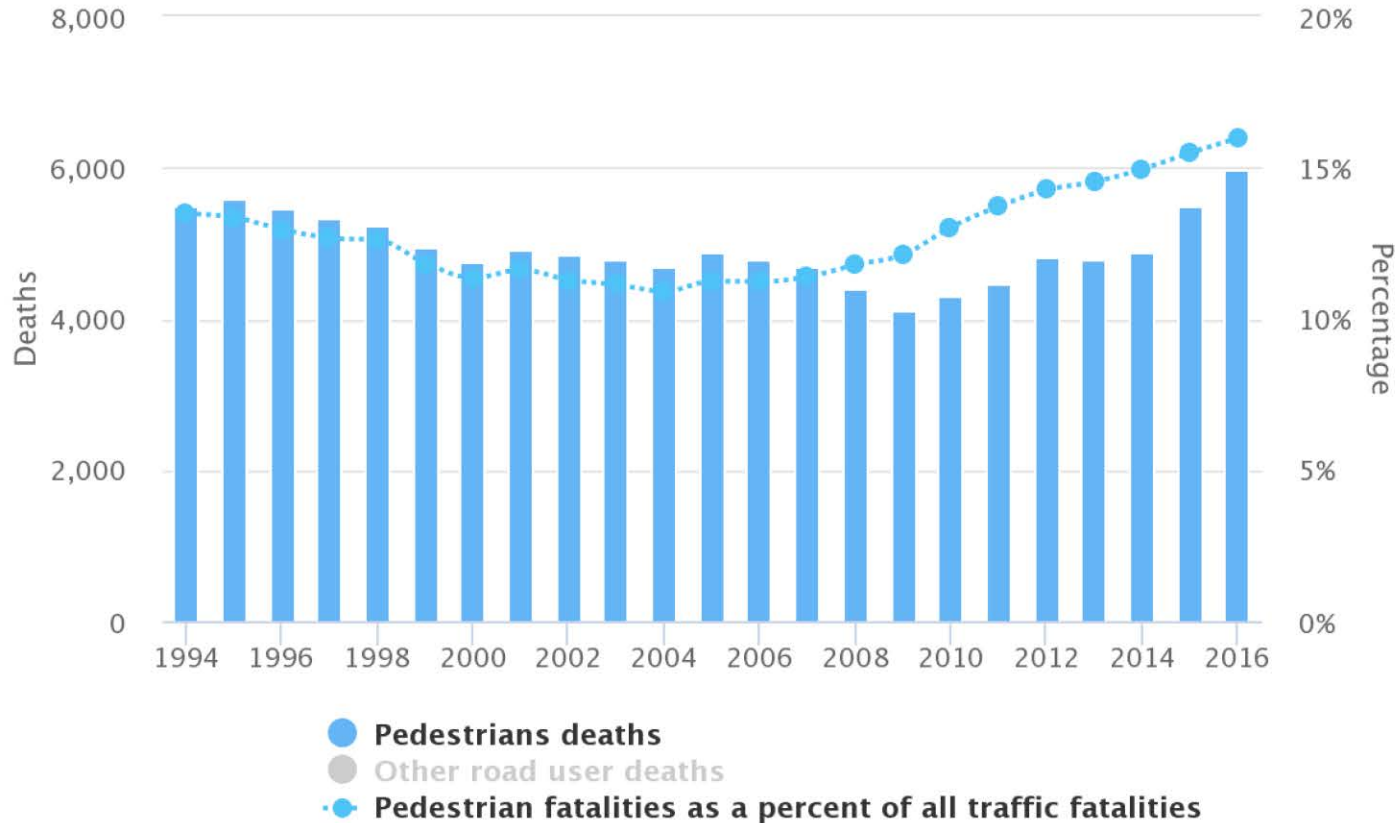


Transit on the Road to Zero





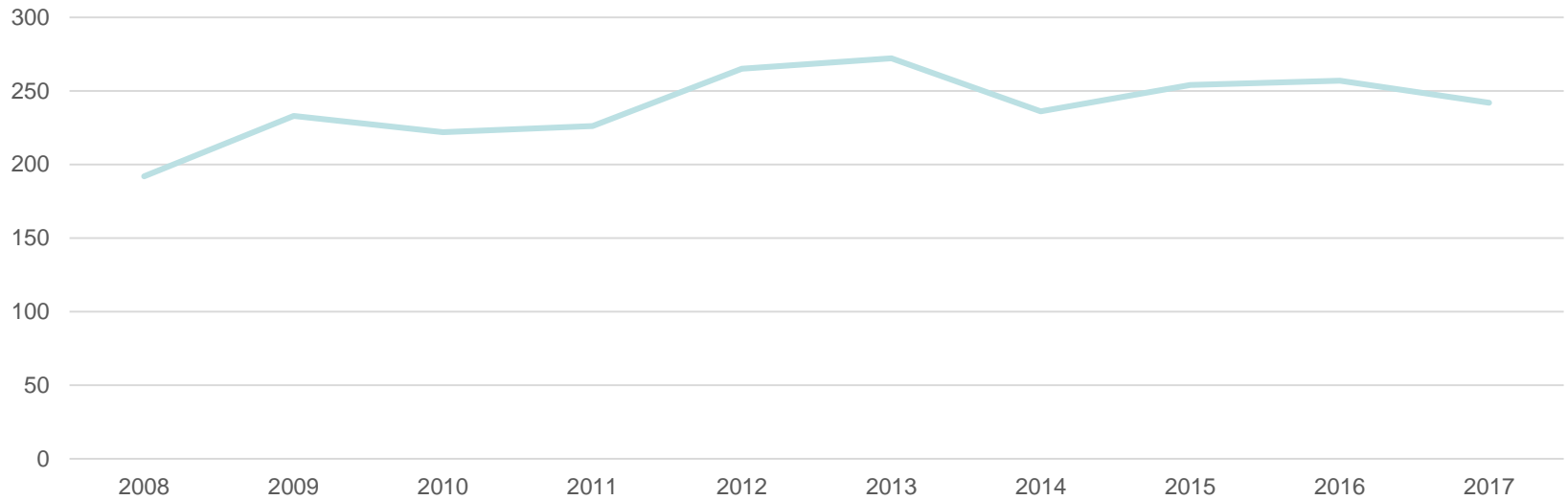
Pedestrians deaths in traffic crashes by year, United States, 2016

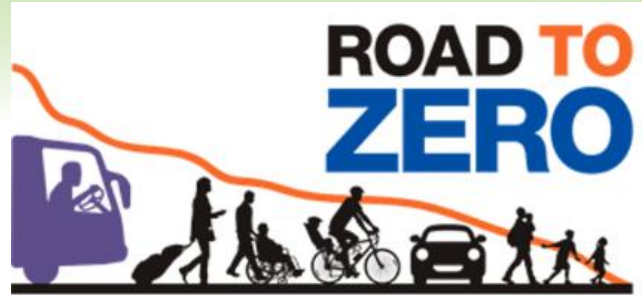


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Transit Fatalities (Passenger, Employers and others)





Join the Road to Zero Coalition!

[NSC.org/RoadtoZero](https://www.nsc.org/RoadtoZero)