

DANGEROUS BY DESIGN


Why we need safer streets and how to do it.

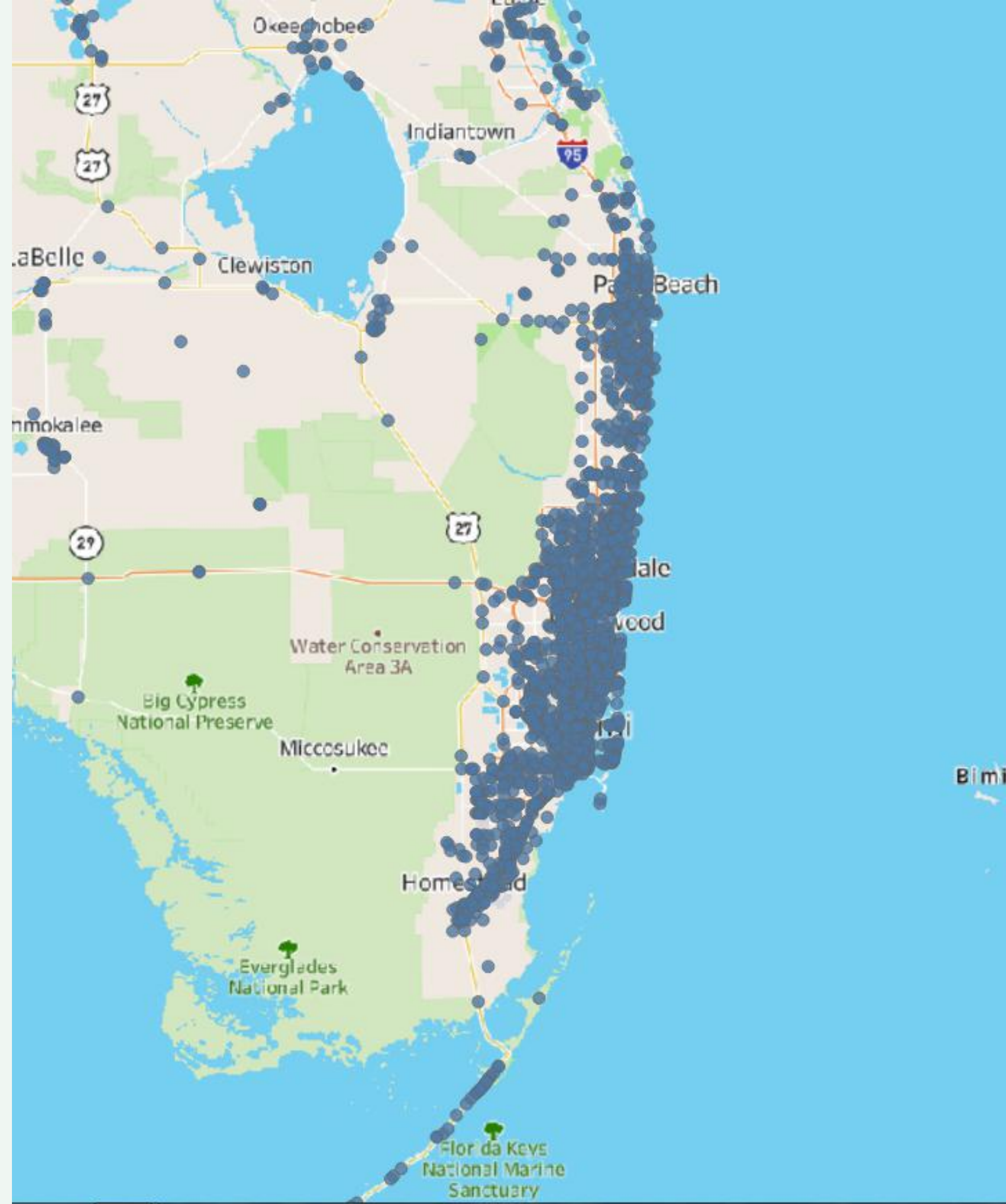
LIFE LESSON & MY REALIZATION

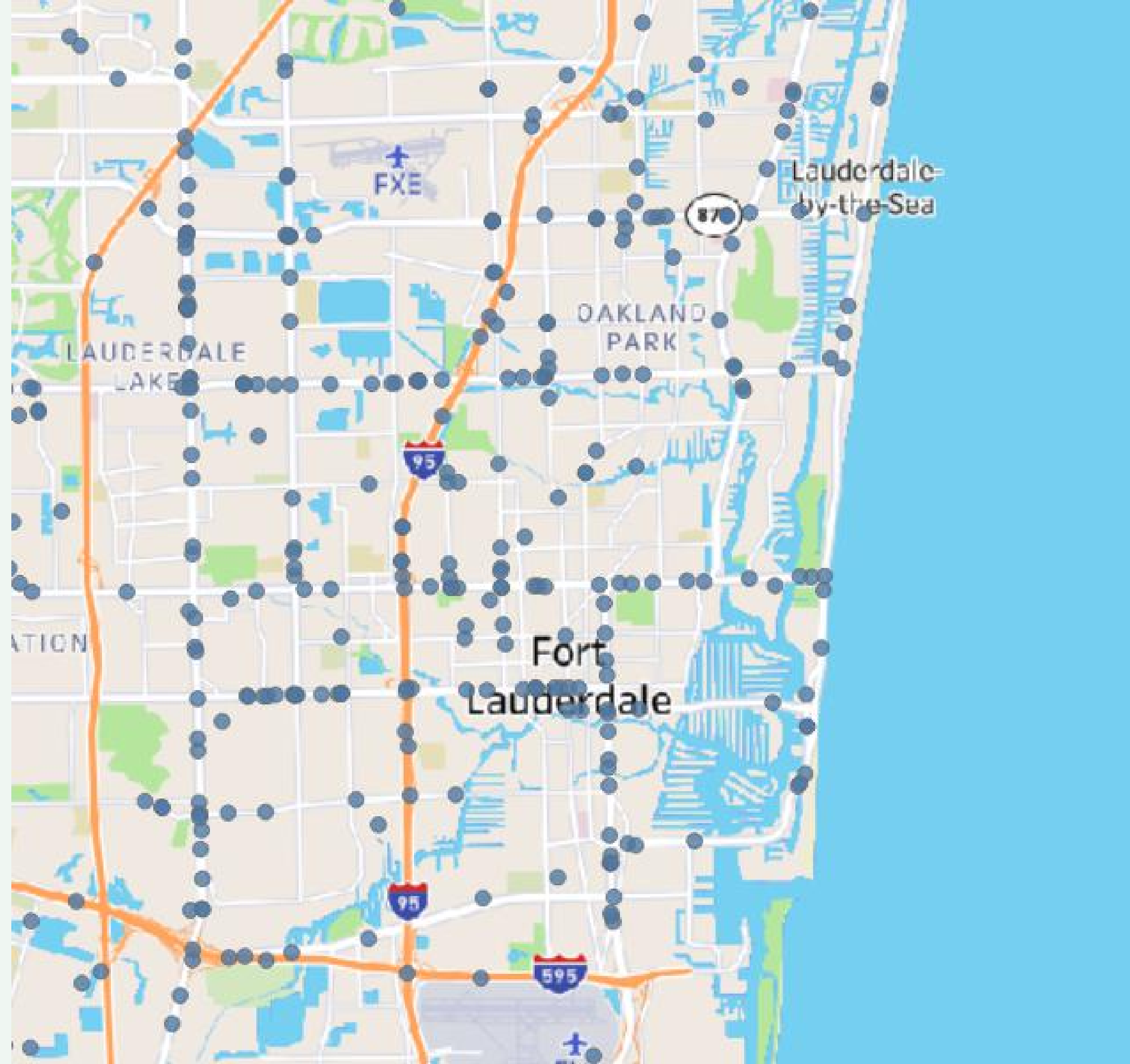
THE NUMBERS

Part 1

Rank	Metro area	Average ped deaths/100k people per year	Pedestrian deaths (2016-2020)	Difference in average daily walking trips, 2019 to 2020+	Pandemic change in fatality rate (avg. 2016-19 vs 2020)	Long term trend in fatality rate (Five-year averages for 2011-15 vs 2016-20)
1	Deltona-Daytona Beach-Ormond Beach, FL	4.25	140	61%	0.68	0.97
2	Albuquerque, NM	4.19	192	35%	-0.48	1.91
3	Memphis, TN-MS-AR	3.93	264	49%	2.15	1.77
4	Tampa-St. Petersburg-Clearwater, FL	3.55	559	50%	-0.41	0.54
5	Charleston-North Charleston, SC	3.54	140	56%	1.36	1.57
6	Jacksonville, FL	3.44	264	60%	0.19	0.24
7	Bakersfield, CA	3.41	152	31%	0.06	0.68
8	Orlando-Kissimmee-Sanford, FL	3.37	431	22%	-0.72	0.6
9	Stockton, CA	3.35	126	44%	-0.74	1.52
10	Fresno, CA	3.25	161	24%	1.22	1.24
11	Baton Rouge, LA	3.2	137	58%	1.54	0.93
12	Palm Bay-Melbourne-Titusville, FL	3.13	93	60%	-0.39	0.24
13	Tucson, AZ	3.12	162	44%	0.77	1.16
13	Miami-Fort Lauderdale-Pompano Beach, FL	3.11	954	34%	-0.01	0.48
14	Riverside-San Bernardino-Ontario, CA	3.11	716	35%	0.41	1.02

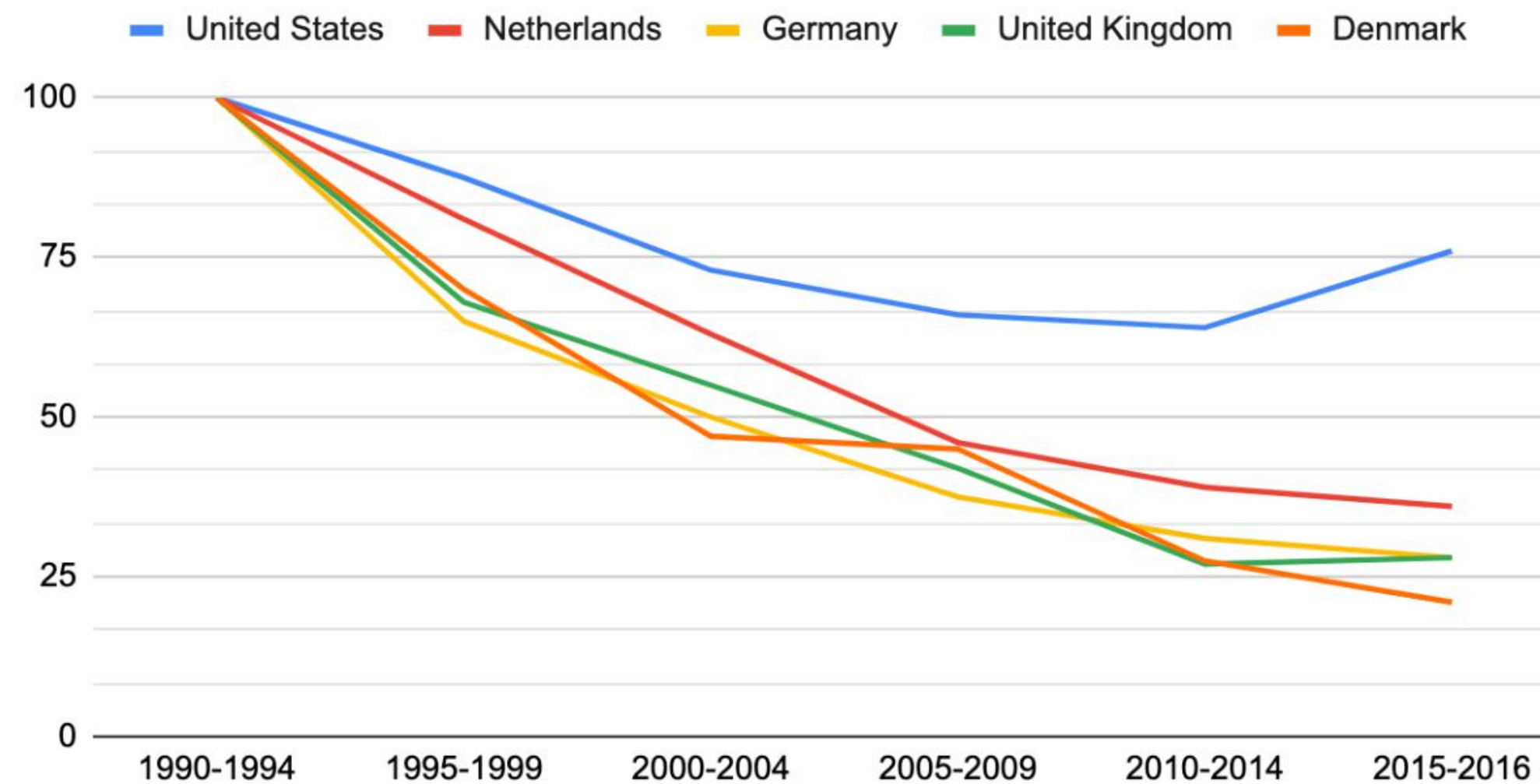
Rank	State	Average ped deaths/100k people per year	Pedestrian deaths (2016 - 2020)	Difference in average daily walking trips, 2019 to 2020*	Pandemic change in fatality rate (2016-19 vs. 2020)	Long term trend in fatality rate (Five-year averages for 2011-15 vs. 2016-20)
1	New Mexico	3.76	394	39%	0.01	1.09
2	 Florida	3.22	3,420	48%	0.02	0.49
3	South Carolina	3.19	811	72%	0.56	0.82
4	Arizona	2.98	1,070	53%	0.08	0.82
5	Delaware	2.89	140	50%	-0.42	0.04
6	Louisiana	2.86	668	53%	0.28	0.62
7	Mississippi	2.6	388	82%	1.19	0.83





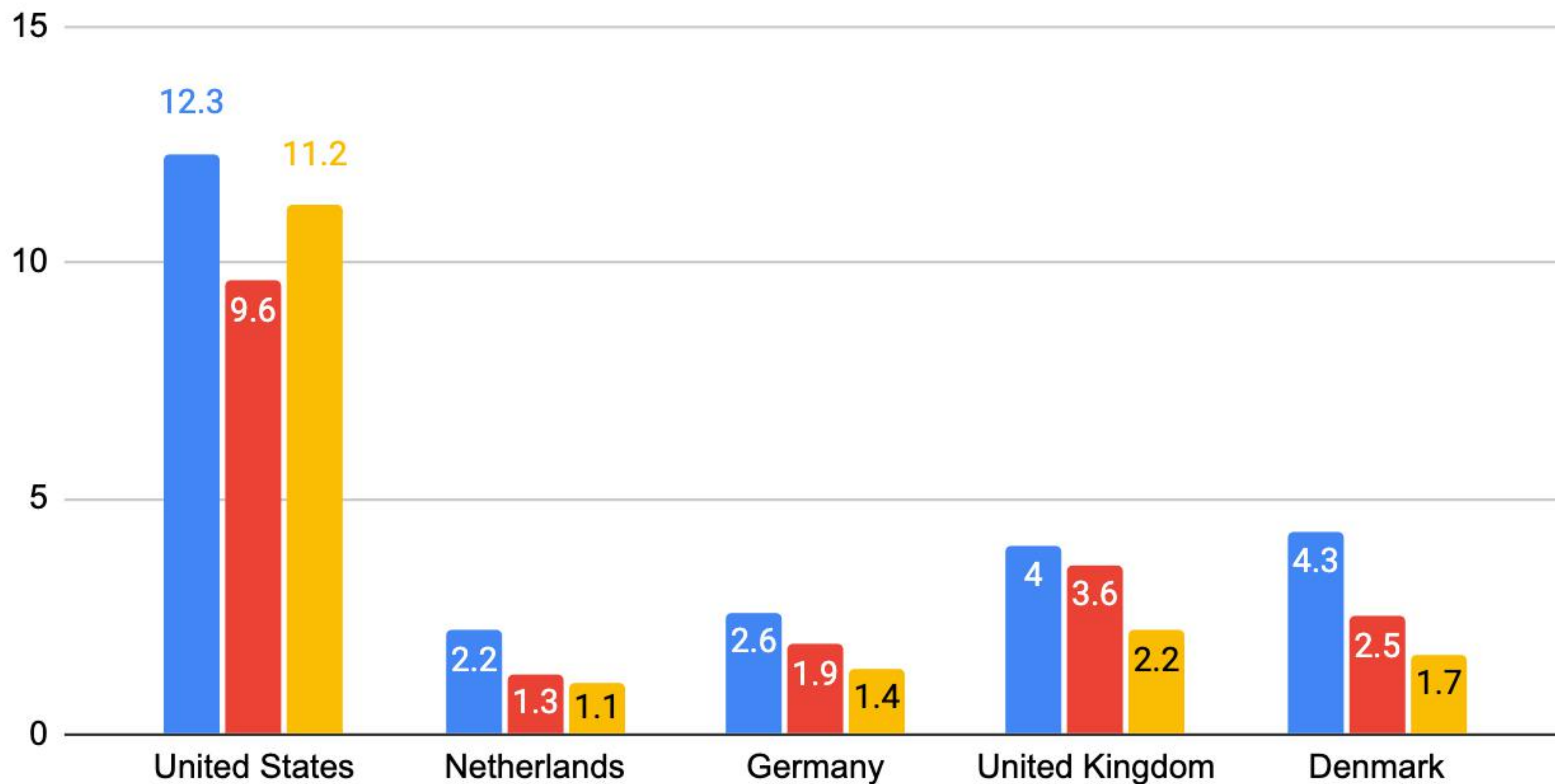
Trends in pedestrian fatalities per-capita

Percentage decrease relative to base year 1990



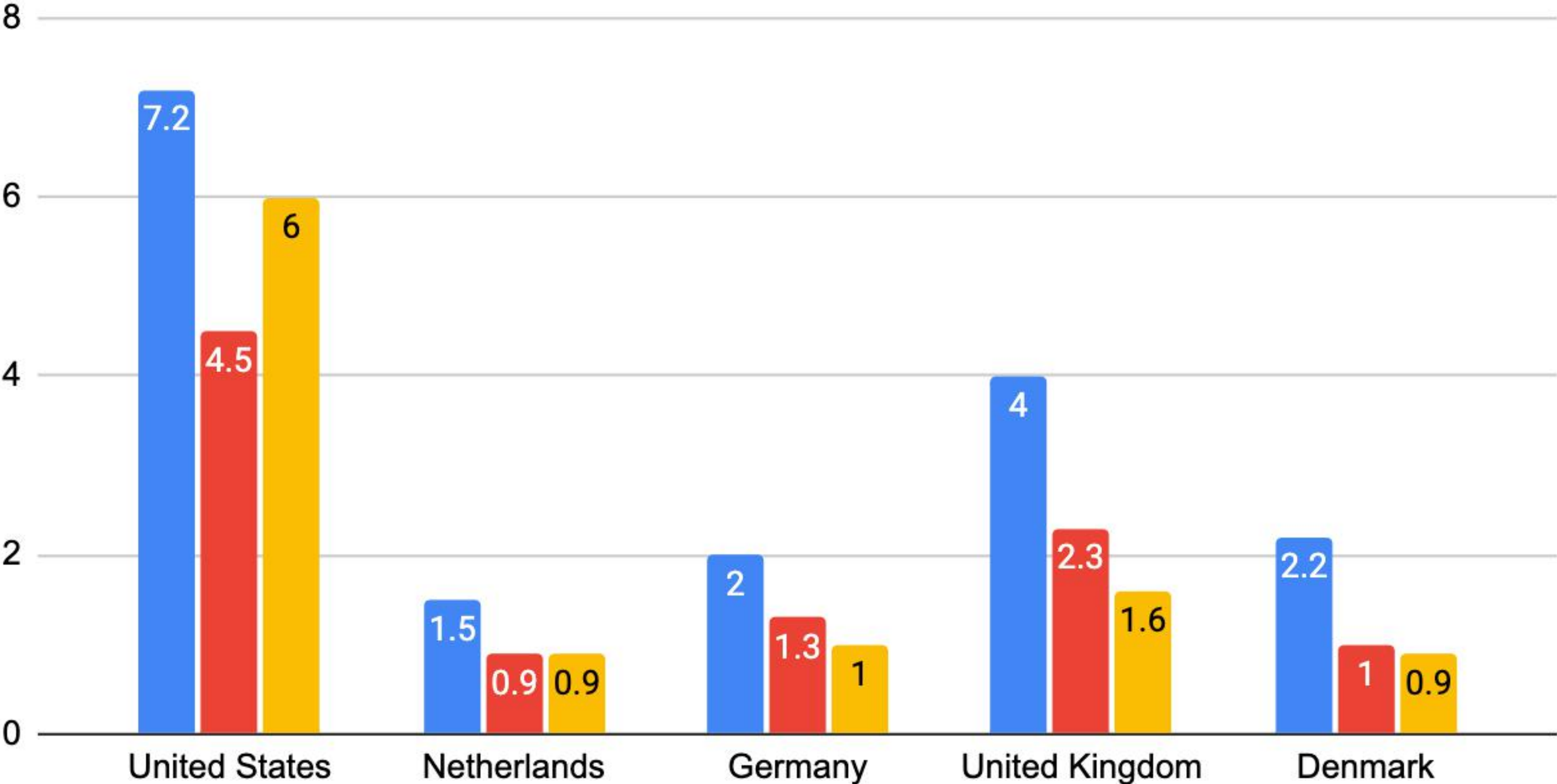
Pedestrian fatality rate per 100 million kilometres walked

2000-2002 2008-2010 2016-2018



Cyclist fatality rate per 100 million kilometres biked

2000-2002 2008-2010 2016-2018



19,384

42,000

42,915

IT'S TIME WE
TAKE
RESPONSIBILITY

WHY SHOULD WE SLOW OUR ROADS?

Part 2

SAVE LIVES

BETTER QUALITY OF LIFE

- Even without infrasture people will be inclined to walk and bike more.
- Healthier population

INCREASED TAX BASE

- More developable land
- Reverse cost outflows and increase cash inflows

WIN ELECTIONS

Safety is a bread & butter issue that voters
overwhelmingly side with.

HOW WE GET THEIR

Part 3

DIAGNOSE DANGEROUS STREETS

Make a streets team

DESIGN MATTERS

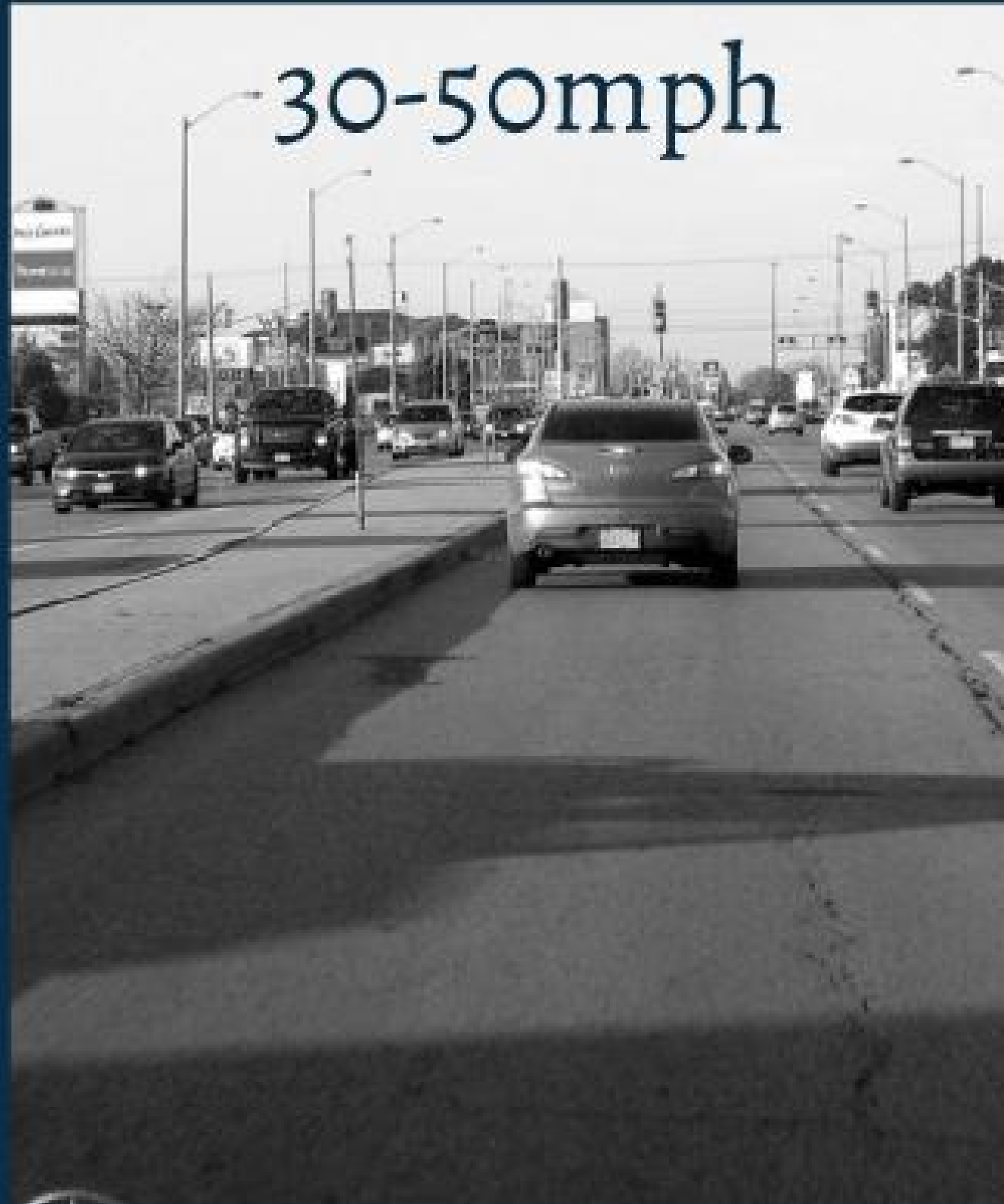
STRONG
TOWNS

15mph



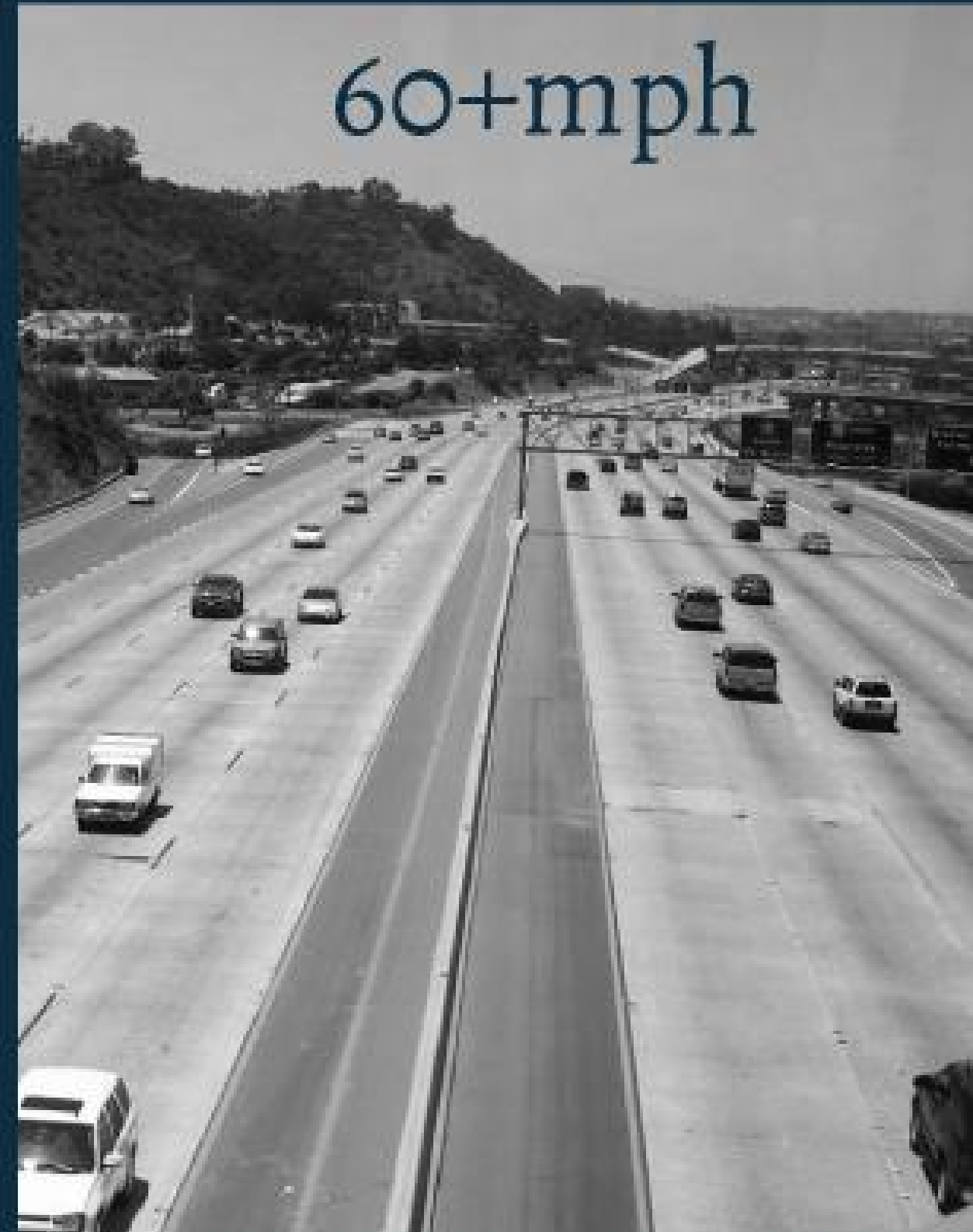
Safe

30-50mph



Deadly

60+mph



Safe

STROAD

STREET

← ← into a → →

ROAD

Purpose:

Building community wealth within a successful place.



1

Slow traffic.

2

Put people, bicyclists and transit first, not cars.

3

Focus on building, filling gaps and expanding existing structures.

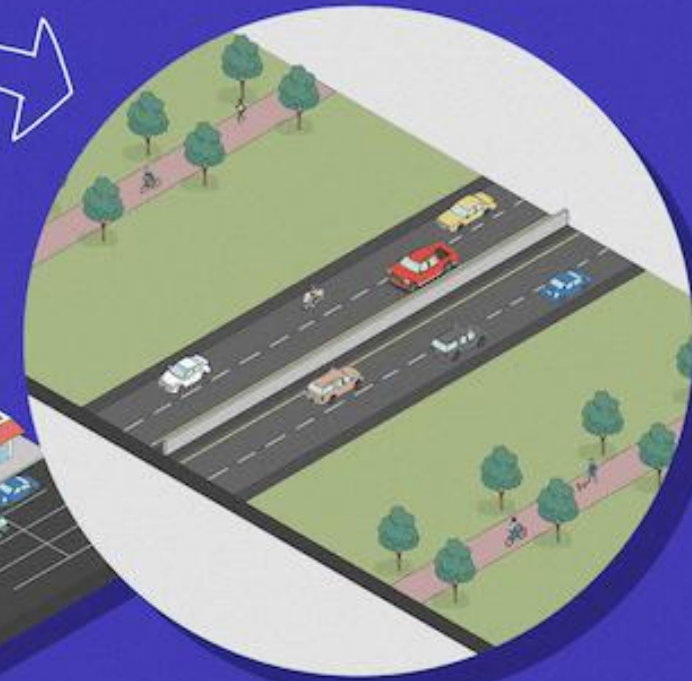
4

Embrace complexity. Stay adaptable.



Purpose:

Moving people and goods quickly between two successful places.



1

Limit access. Seek to close existing accesses.

2

Keep people and bikes away from cars in a separate, safe place.

3

Don't try to build anything.

4

Simplify. Move vehicles quickly. Period.

CULTIVATE!

UTILIZE STAFF

The tools are known to most of your staff

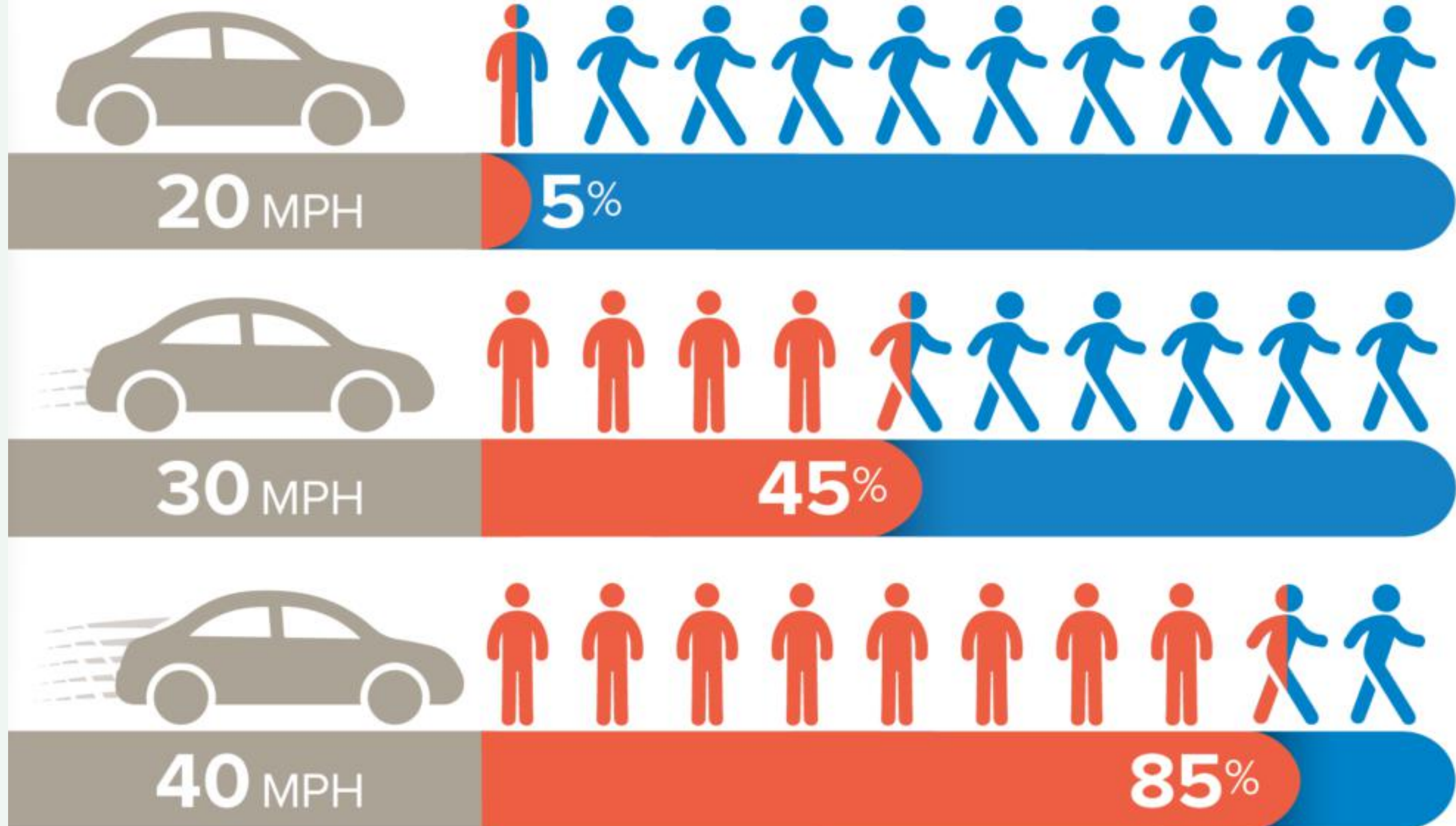
TAKE ON FDOT

Push harder against their speed at all cost
mentality

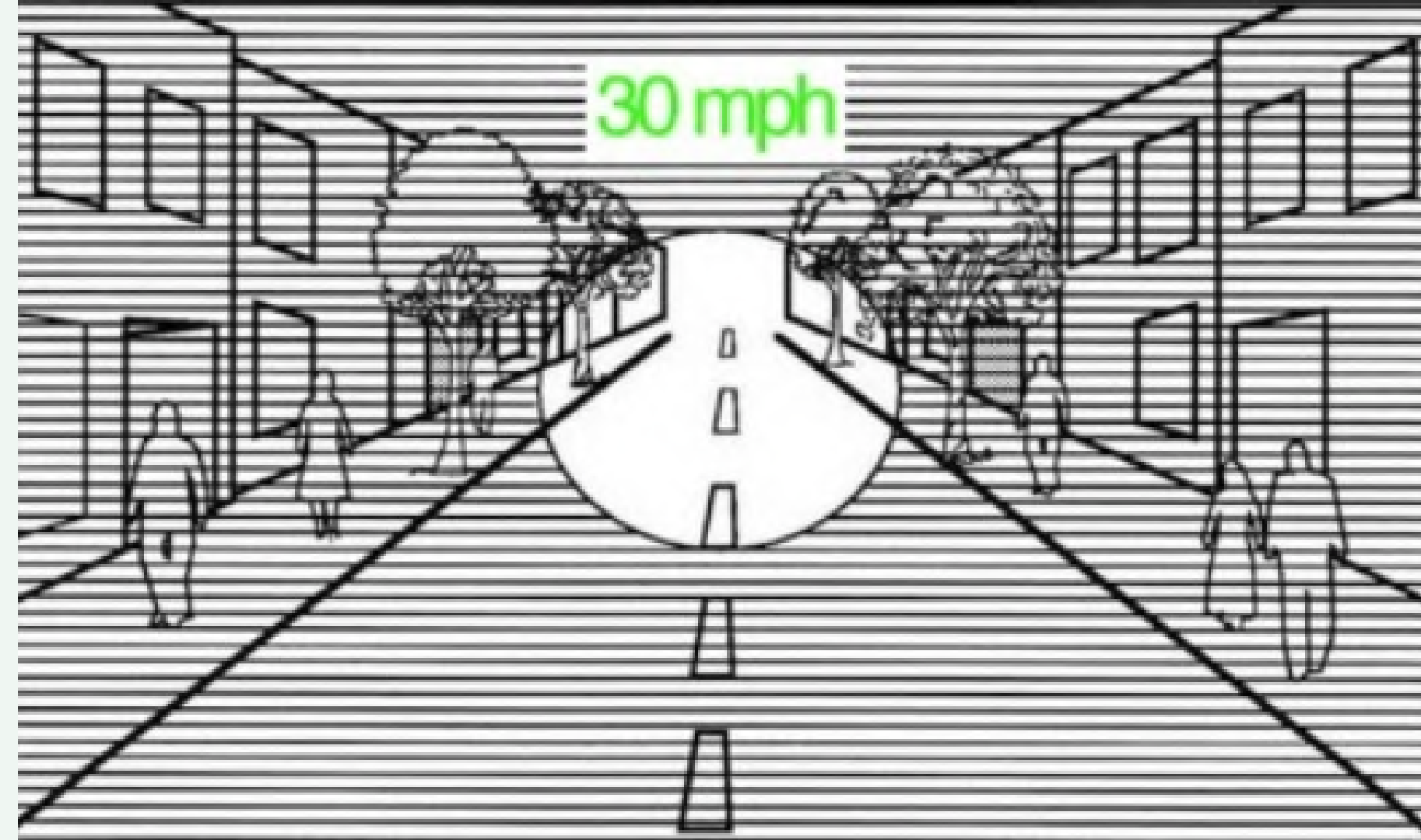
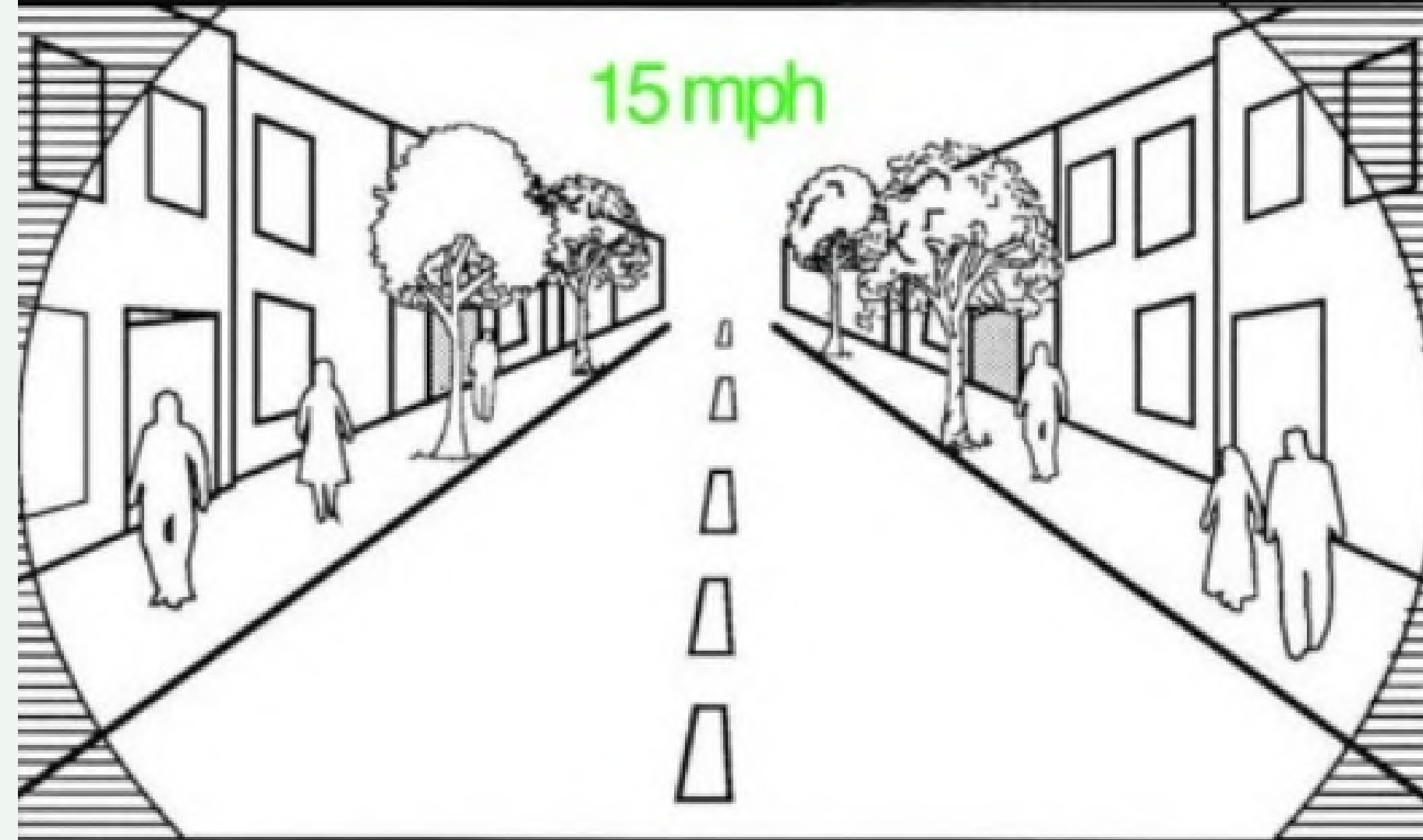
SPEED ORDINANCES

If hit by a car
traveling:

● Fatality ● Person survives collision

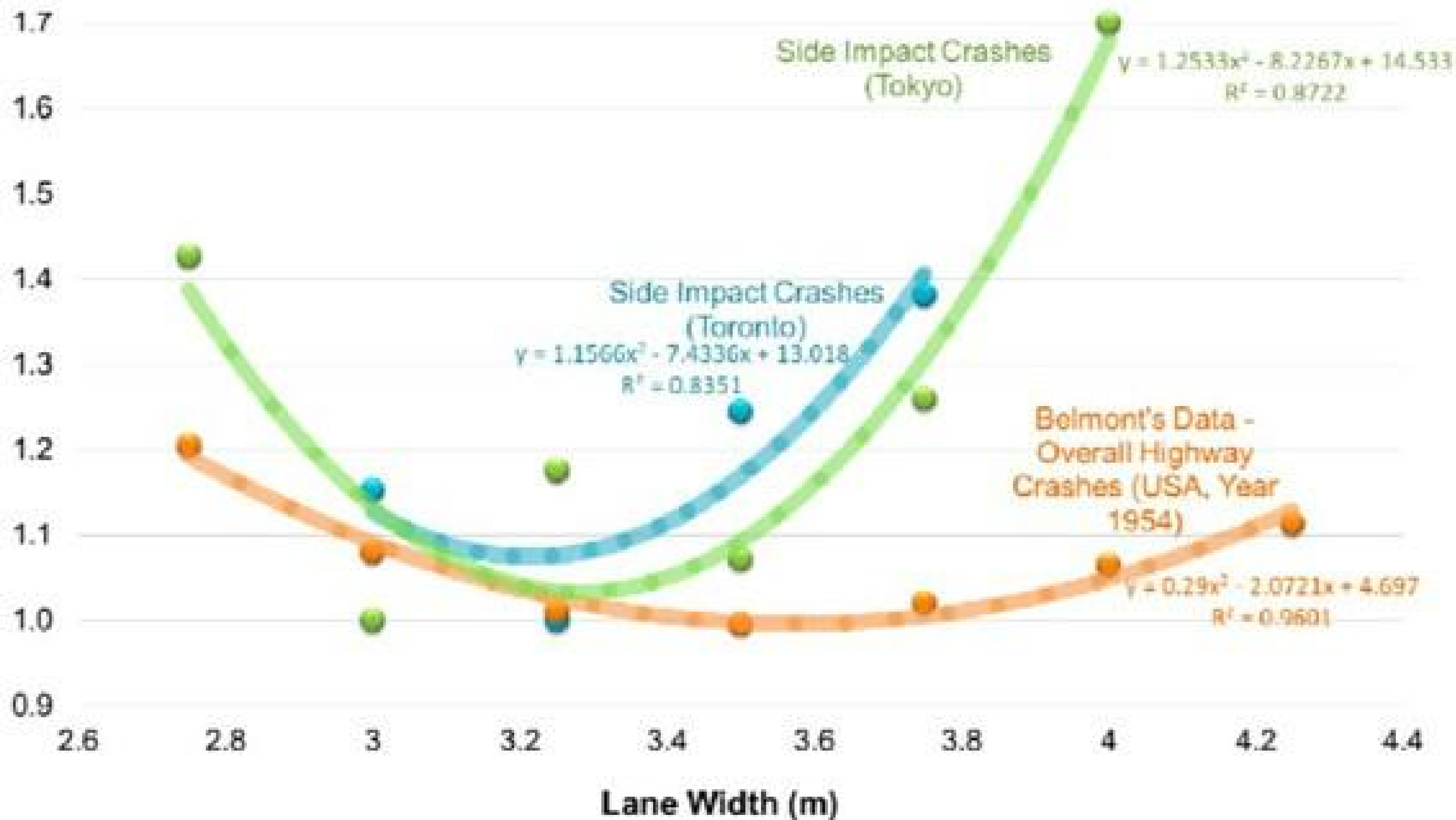


National Traffic Safety Board (2017) Reducing Speeding-Related Crashes Involving Passenger Vehicles.
Available from: <https://www.nts.gov/safety/safety-studies/Documents/SS1701.pdf>



NARROW LANES

Relative Index of Crash Rates



THANK YOU