NELSON
NYGAARD

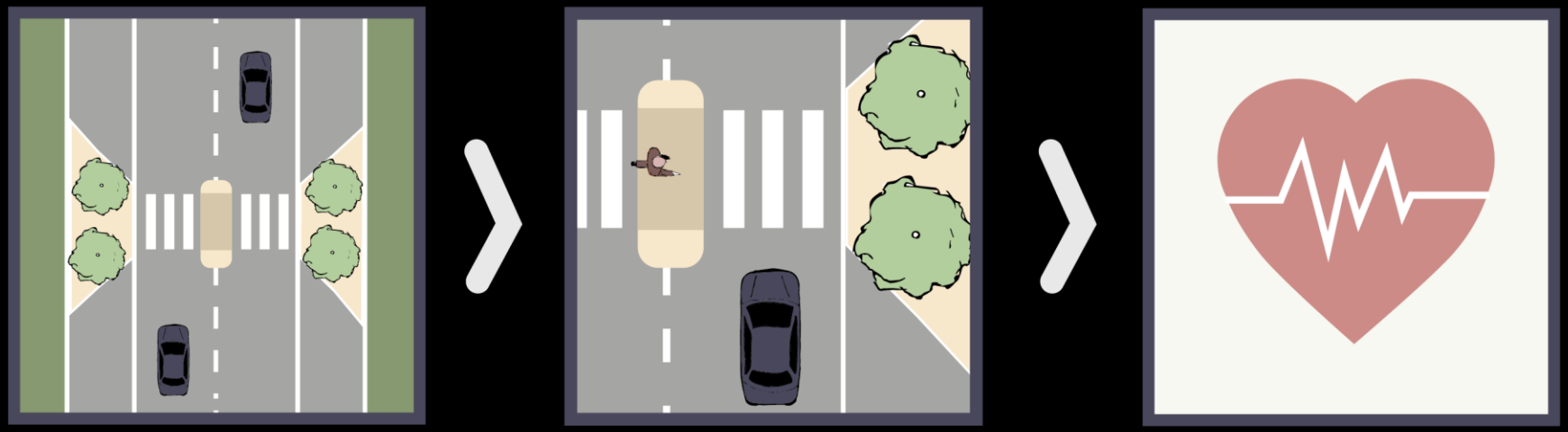
Move the Curb

Michael King, RA

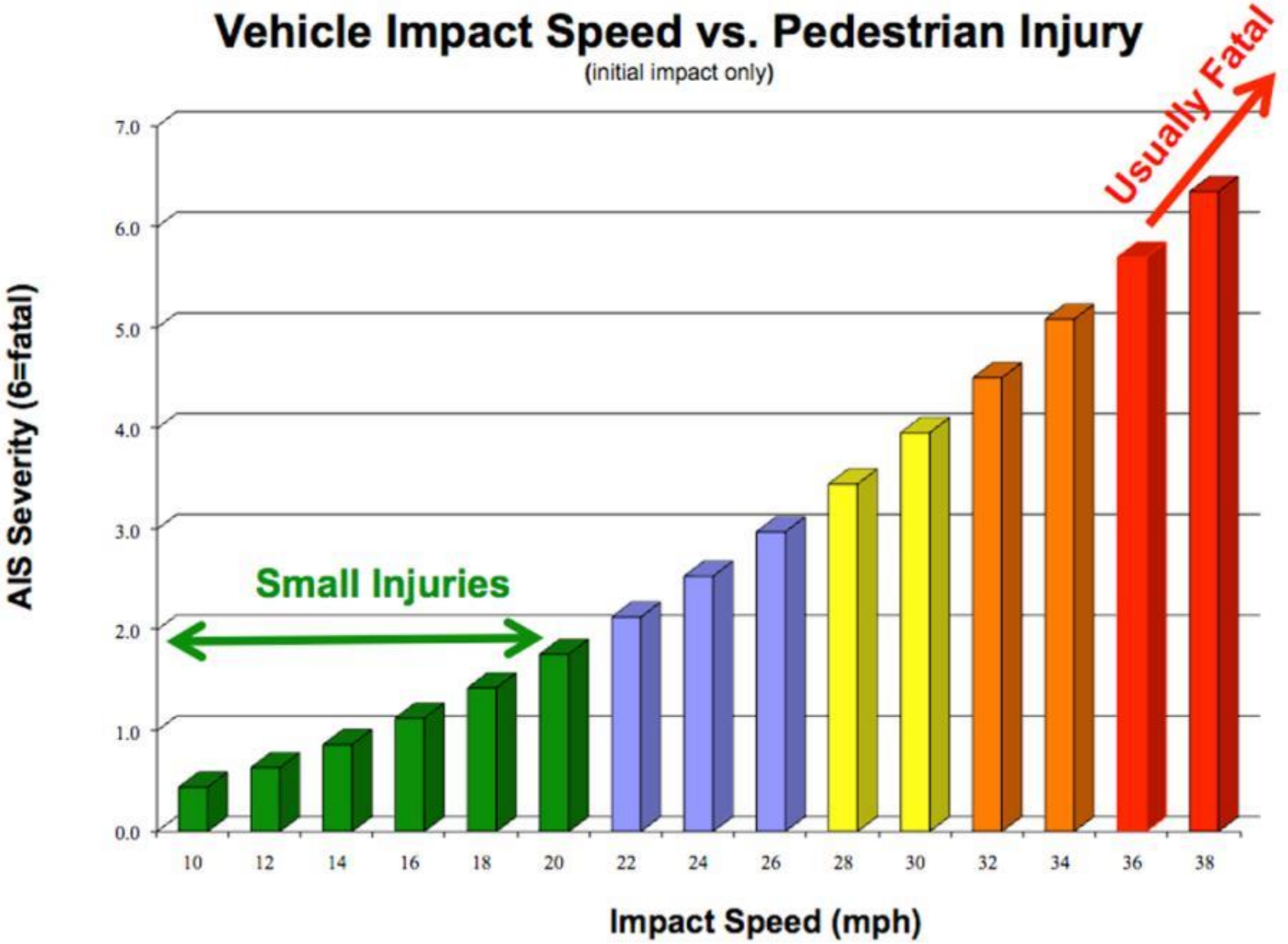
January 29, 2016

Safe Streets = Public Health

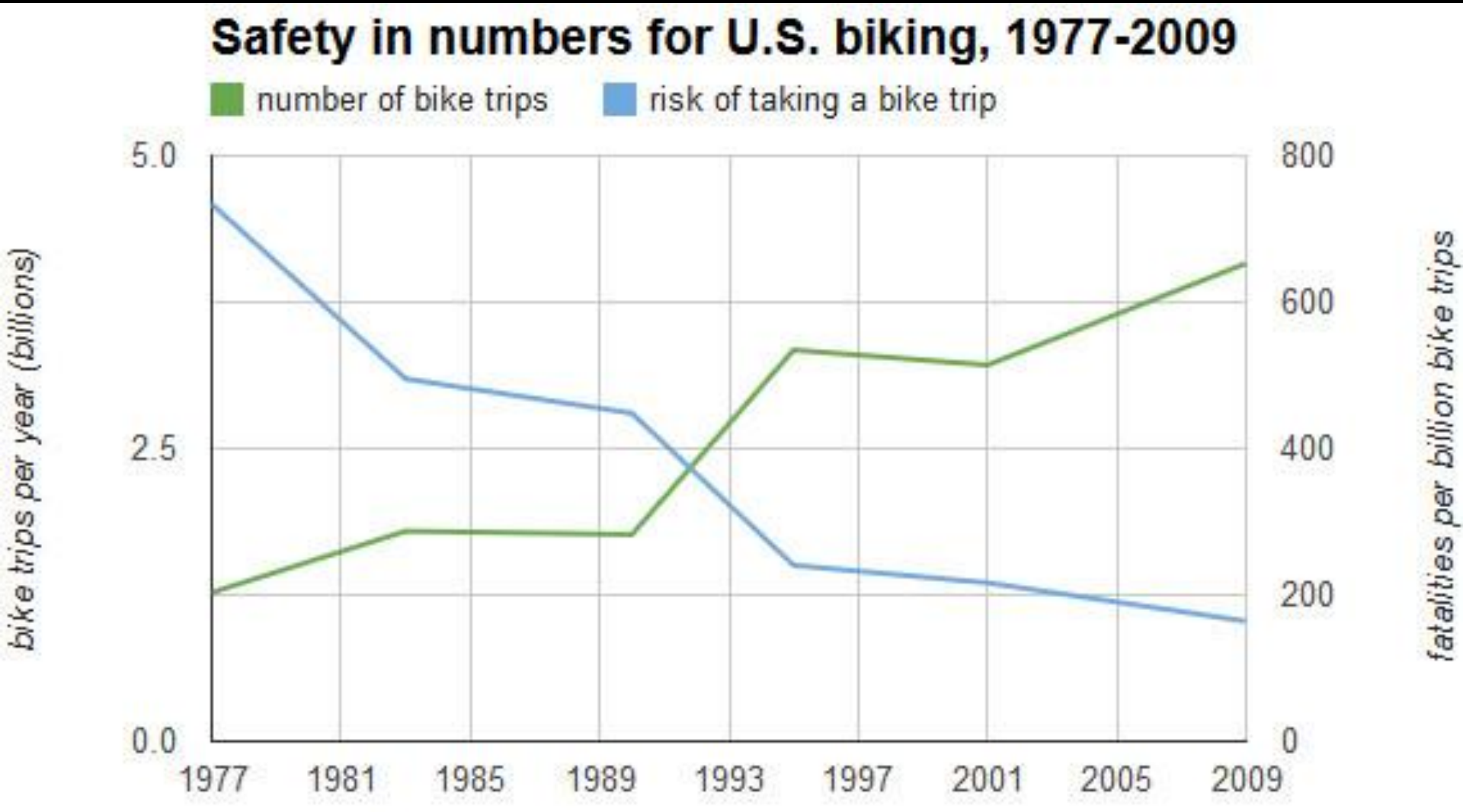
Safe Streets = Public Health



NUMBERS


Vehicle Impact Speed vs. Pedestrian Injury
(initial impact only)
Usually Fatal
Small Injuries
AIS Severity (6=fatal)
7.0
6.0
5.0
4.0
3.0
2.0
1.0
0.0
10
12
14
16
18
20
22
24
26
28
30
32
34
36
38
Impact Speed (mph)

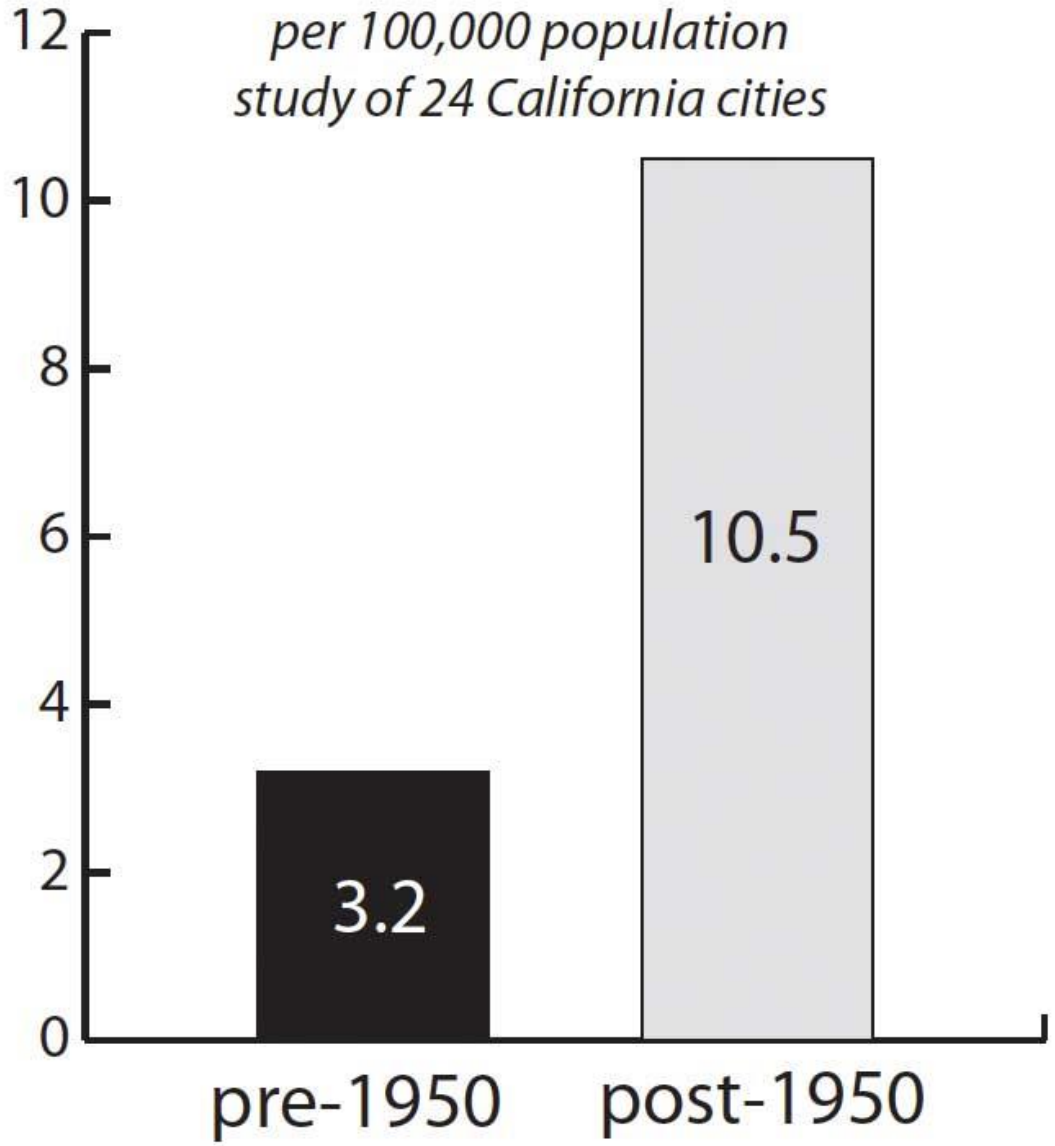
Safety in Numbers



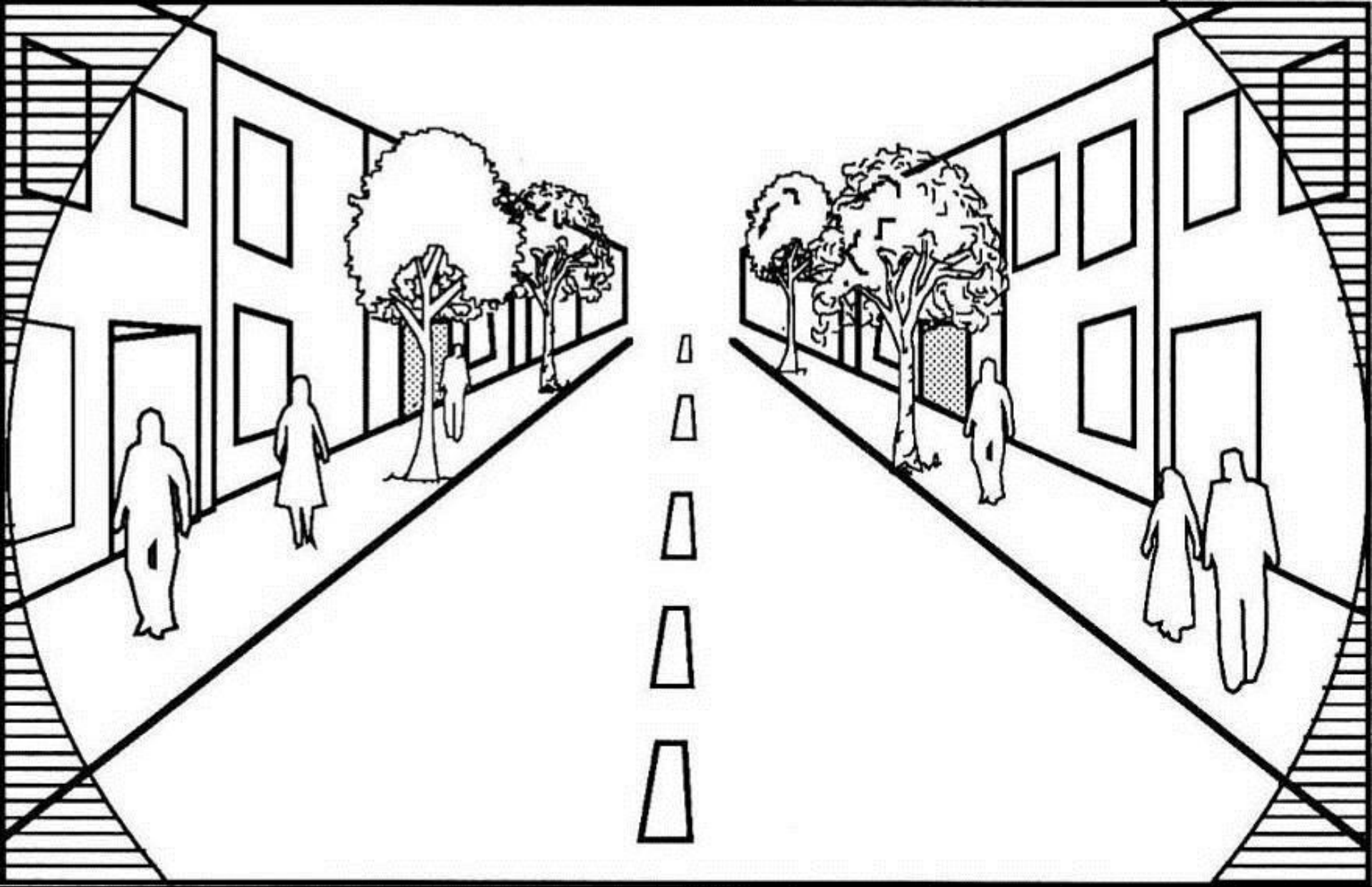
Safety in Numbers

Key West

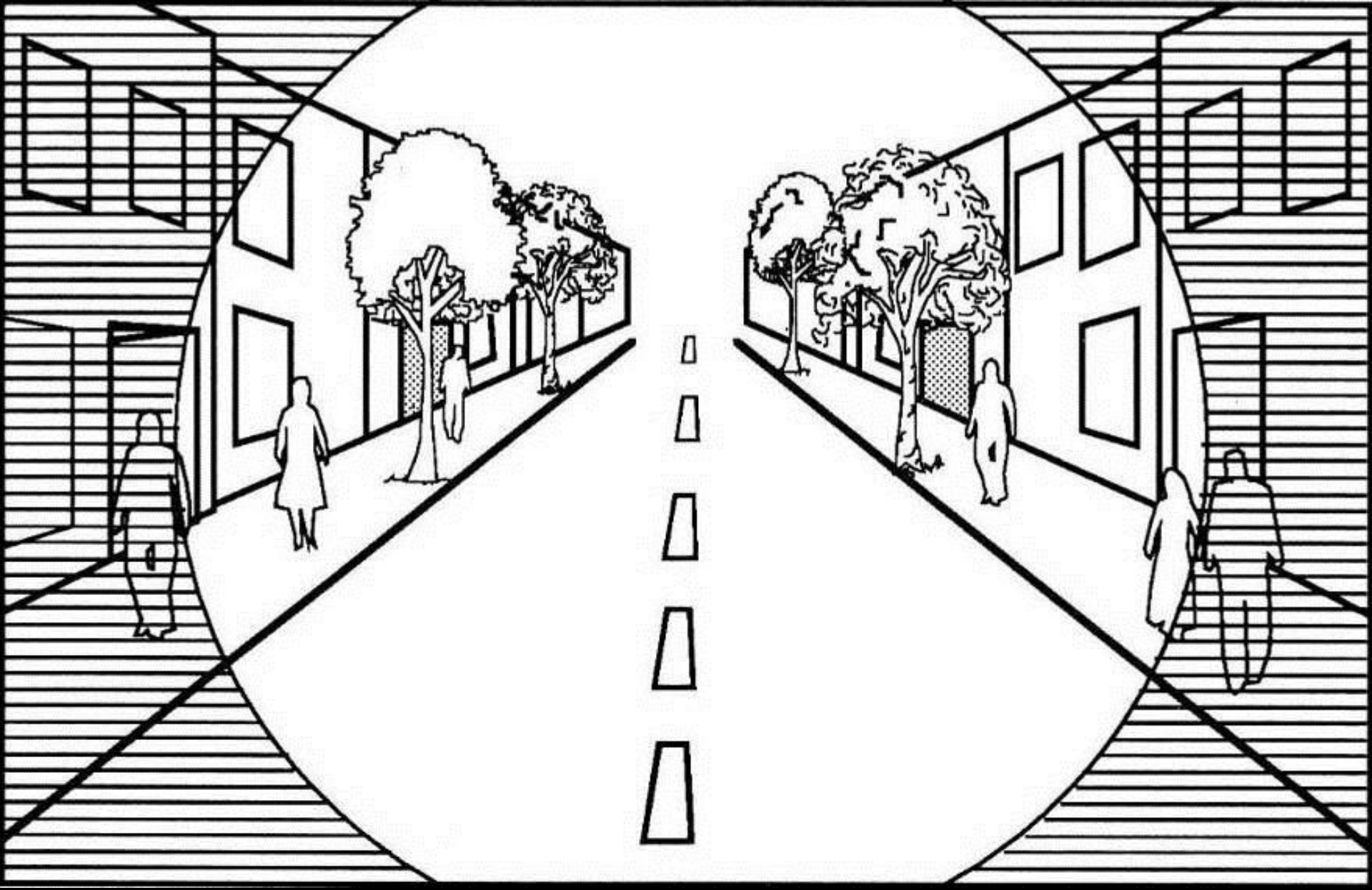
Traffic fatalities, by street grid



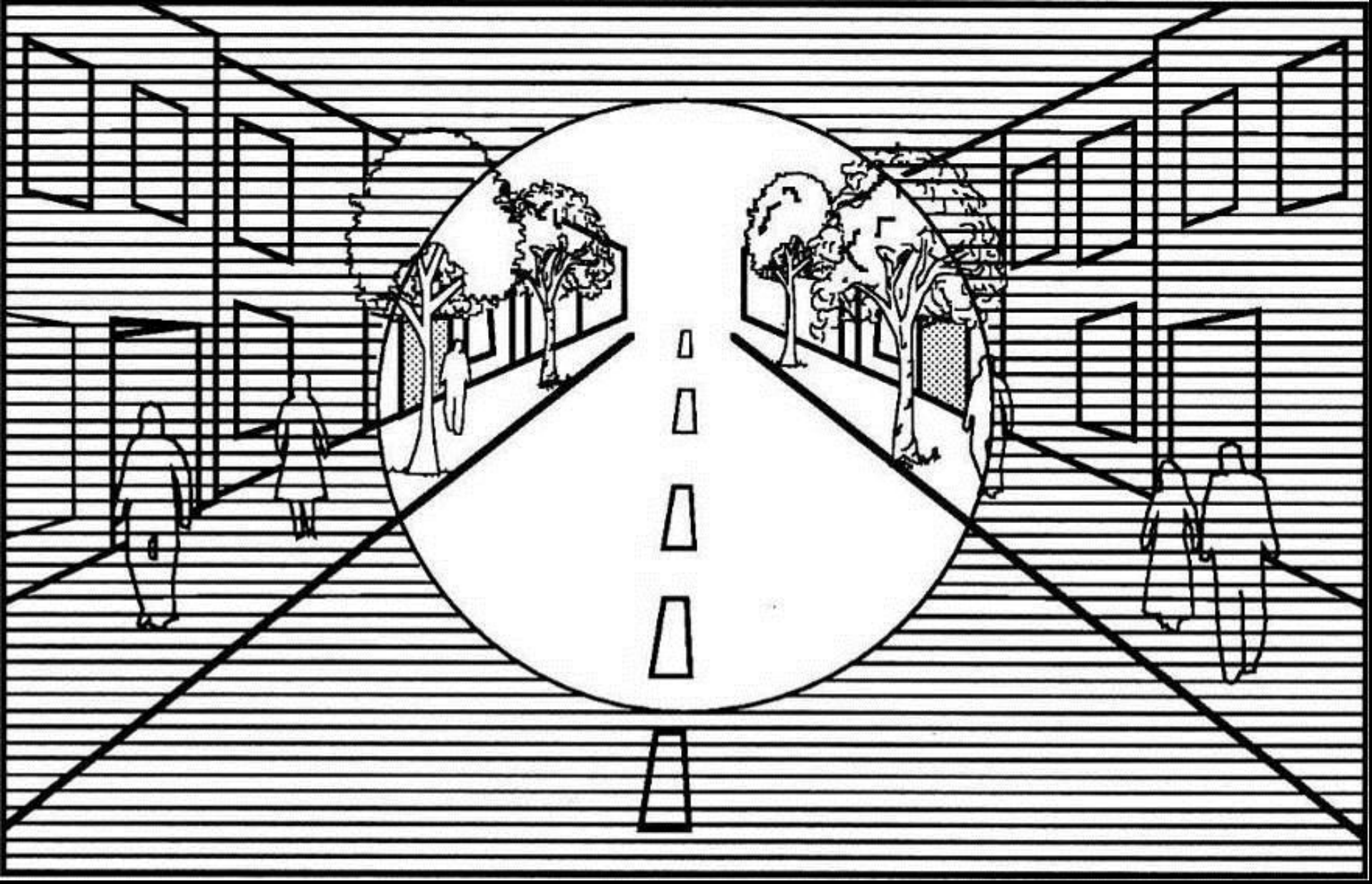
Garrick and Marshall, 2008



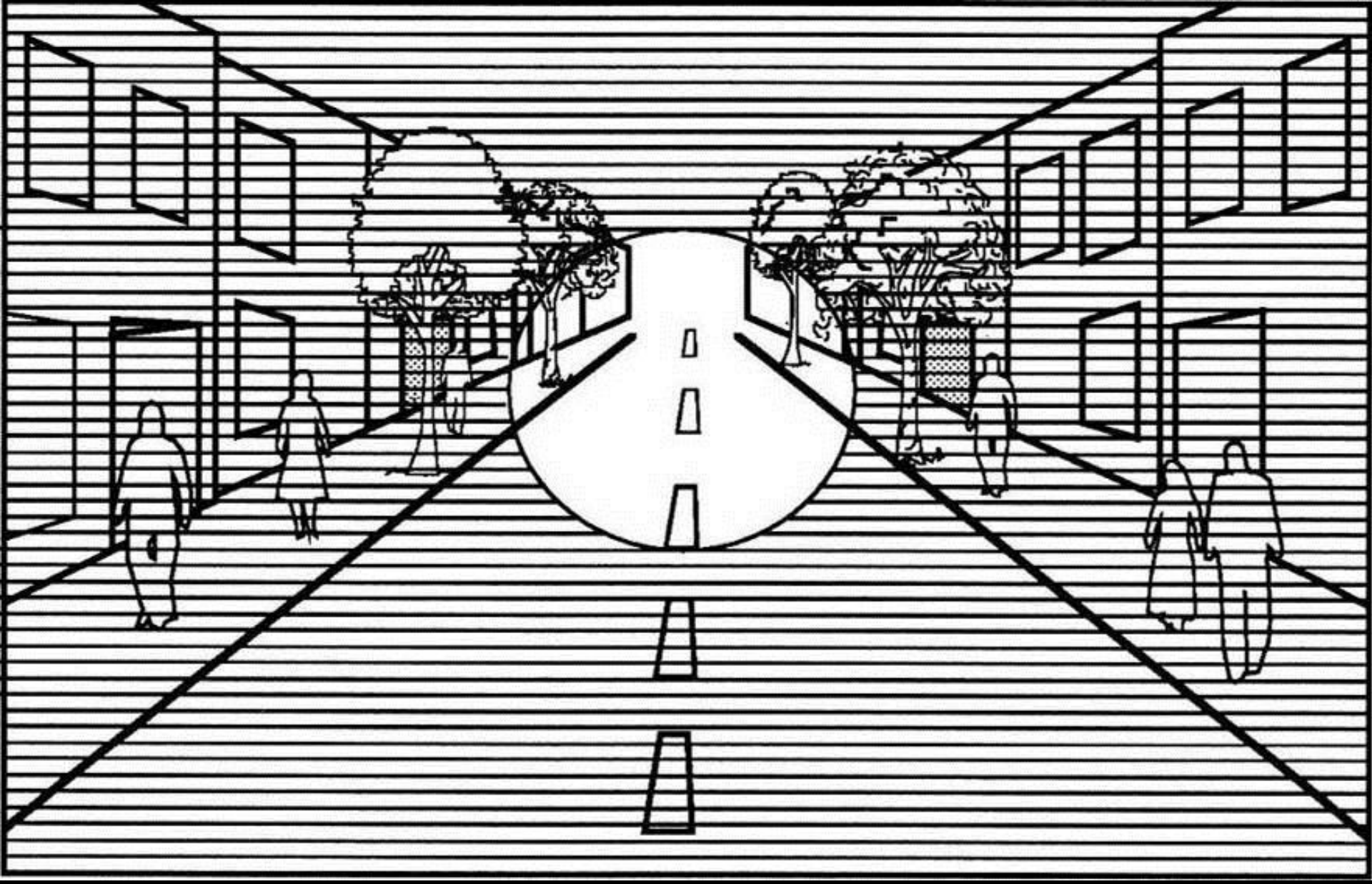
15 MPH



20 MPH

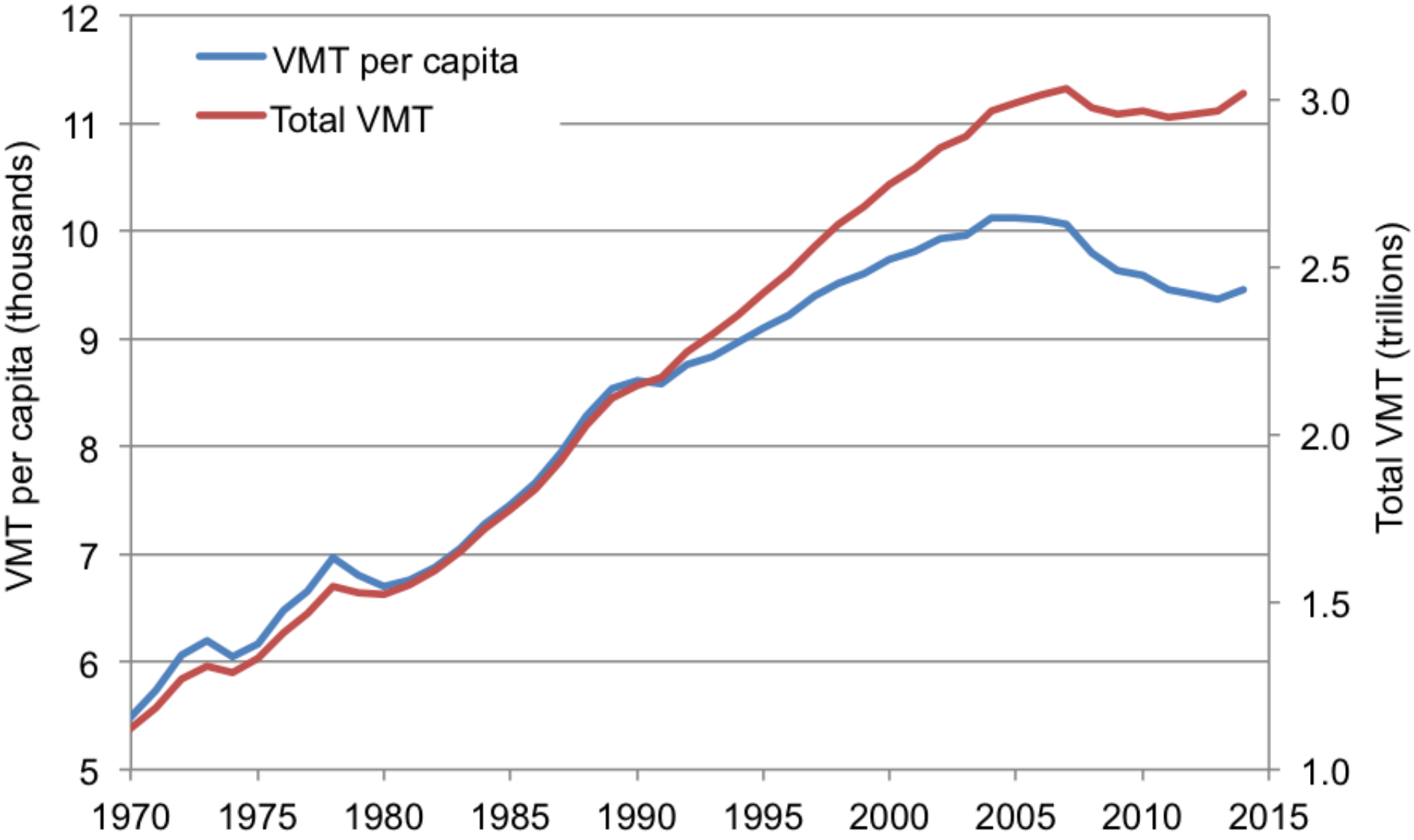


25 MPH

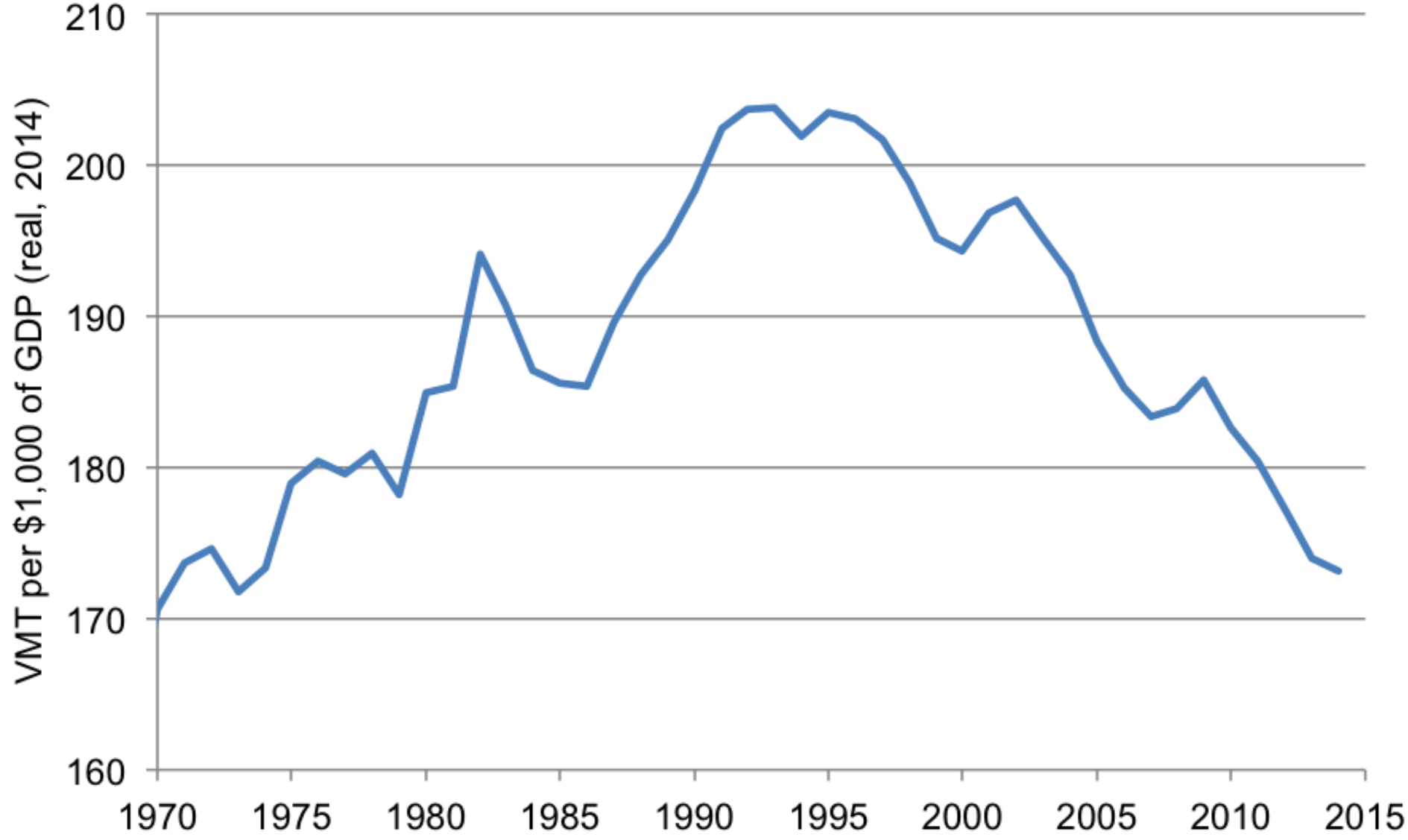


30 MPH

Driving in United States



Driving Relative to Economy



Traffic Evaporation

-11%

1. absorbed
2. reallocated
3. travelers shift mode, destination, frequency

TECHNIQUES

Planning Cities for People

A Guide to Prosperous, Low-Carbon Urbanization

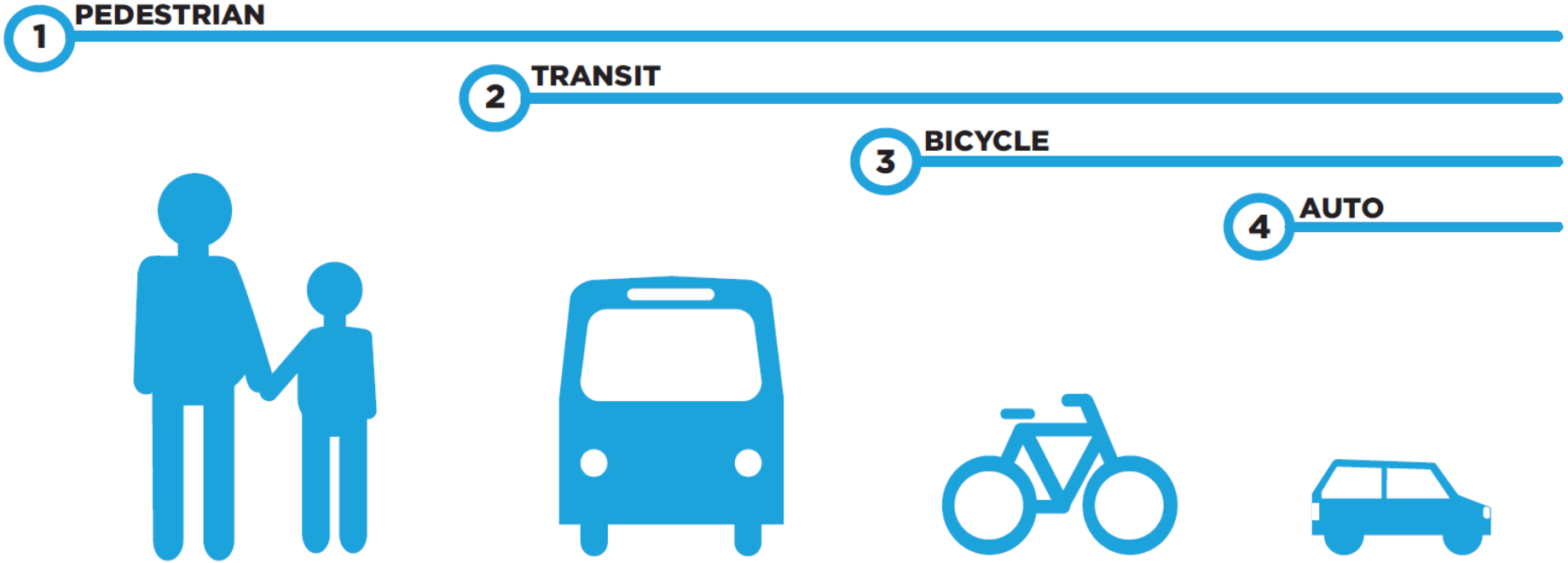
The eight principles

1. Develop neighborhoods that promote walking
2. Prioritize bicycle networks
3. Create dense networks of streets and paths
4. Support high-quality transit
5. Zone for mixed-use neighborhoods
6. Match density to transit capacity
7. Create compact regions with short commutes
8. Increase mobility by regulating parking and road use

Transforming an underused parking area:
Pearl Street (Brooklyn)

Creating a seating area out of curb lane:
Pearl Street (Manhattan)

Mode Hierarchy



Chicago DOT

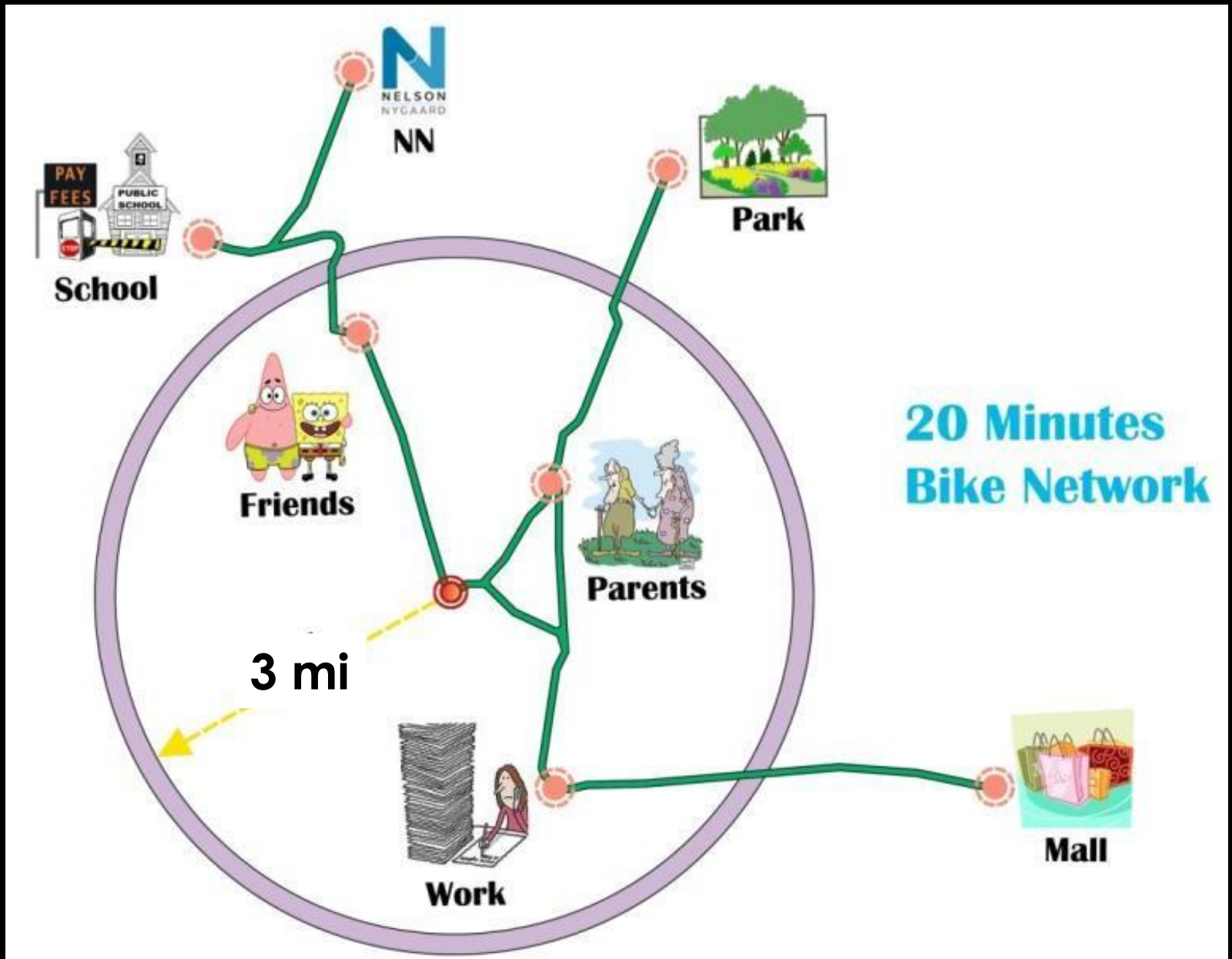
Traffic Engineers Grade

Jacksonville & West Palm Beach

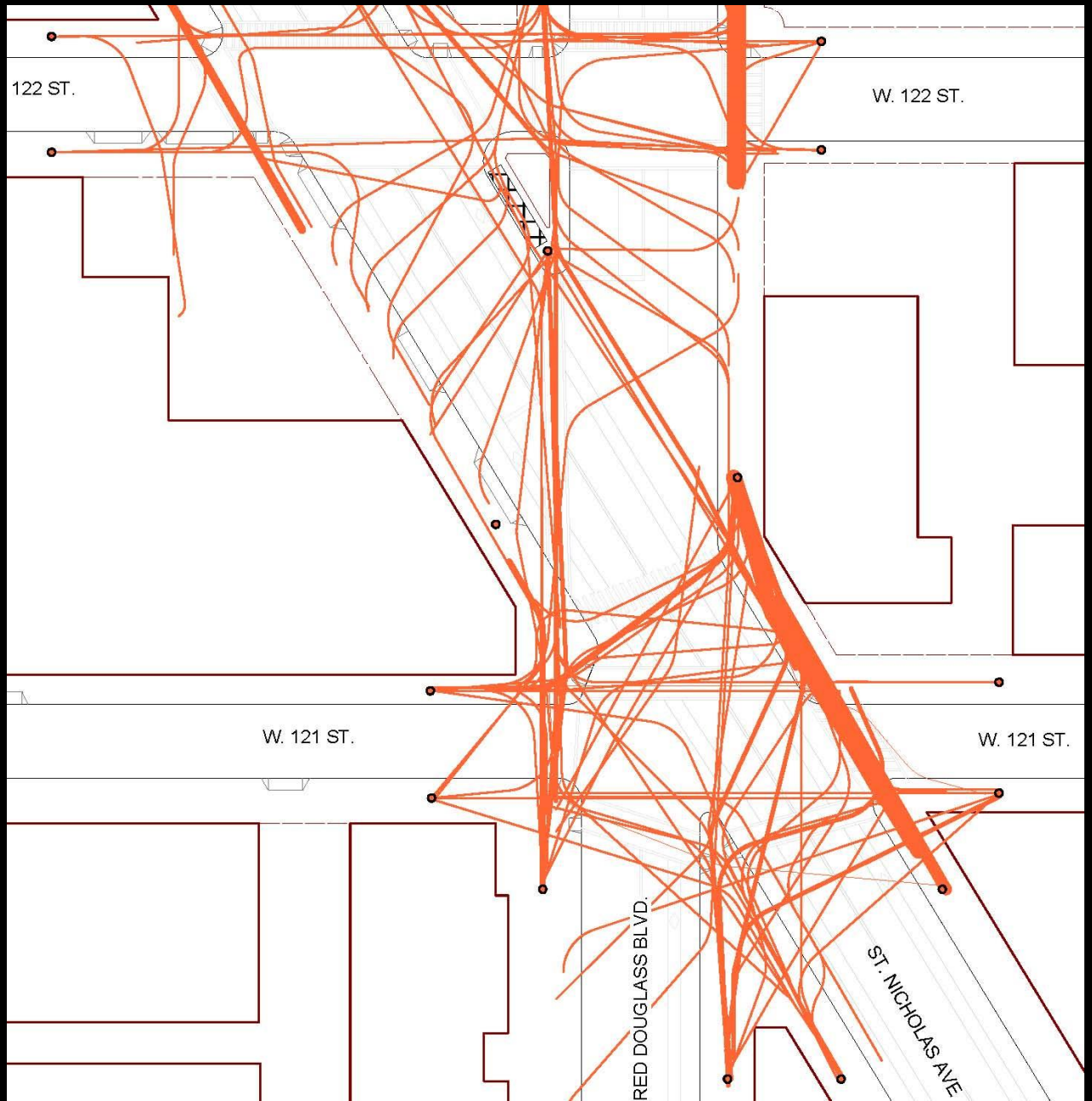
Economist Grade

Jacksonville & West Palm Beach

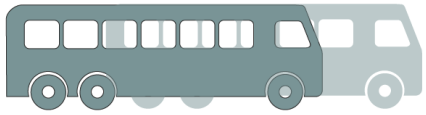
No sweat cycling



Where People Walk



Space per Person

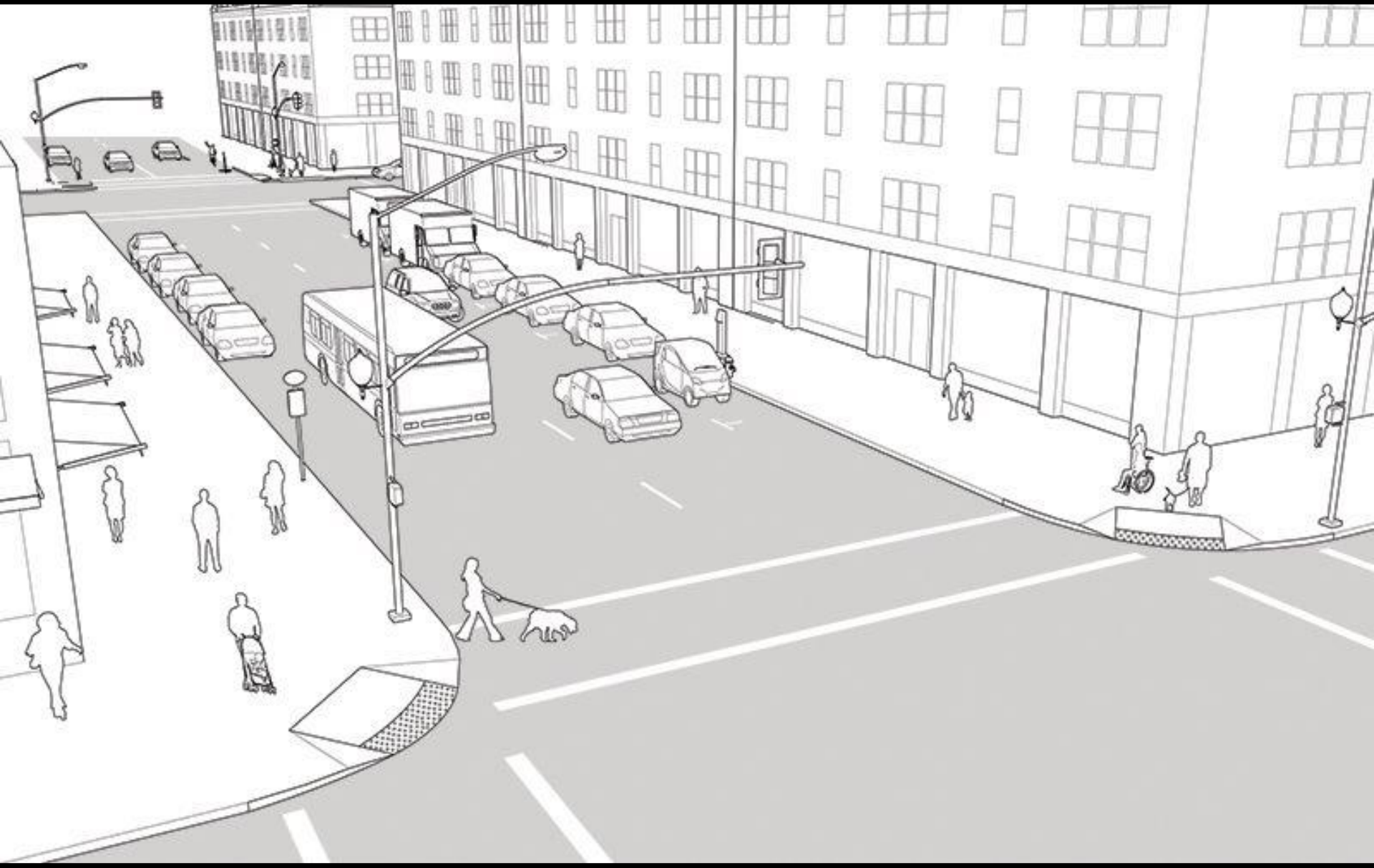
STATIONARY	MOVING
5	3 mph
20	10 mph
20	 30 mph, 50 pax
150 - 400	30 mph, Single Occupant

ACT NOW!

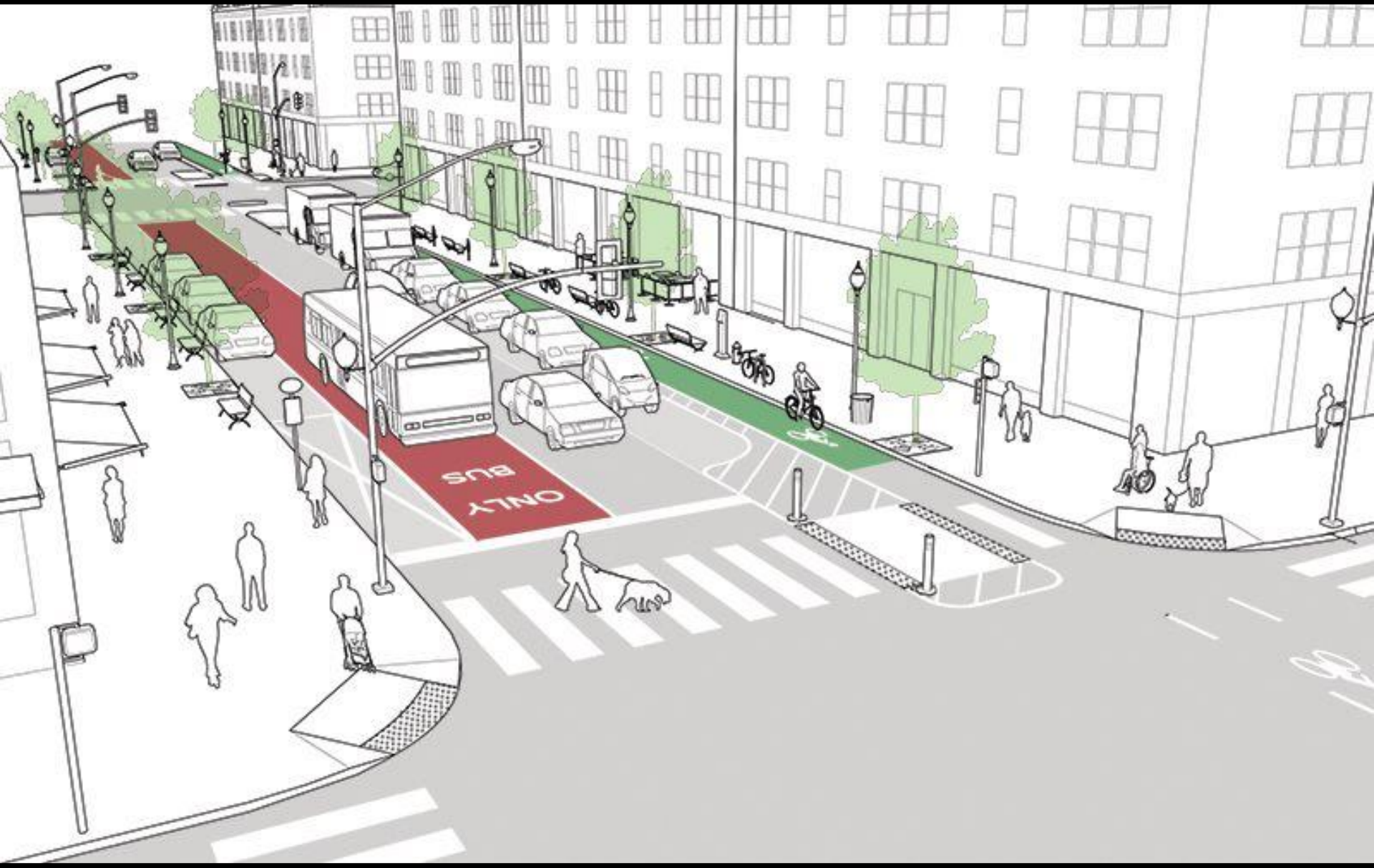
BROWARD COUNTY
BUS STOP
2
12
the Breeze
LIMITED SERVICE
954.357.8400
PATH
CLOSED

	CONVENTIONAL PROJECT DEVELOPMENT	PHASED / INTERIM DESIGN STRATEGY
Year 1	Concept	Concept
	Plan/Outreach	Plan/Outreach
Year 2		Interim Installation
		Impacts Analysis
Year 3	Design	Design
Year 4		
Year 5	Construction	Construction

NACTO USDG



NACTO USDG



NACTO USDG

NACTO USDG

St. Louis

Philadelphia

Key West

Del Ray Beach

video

Santa Monica

video

Florianópolis, Brazil

Fantasy

- Make people behave
- Non-polluting cars
- Build our way out of congestion

Reality

- Eliminate or reduce severity of crashes
- Recapture urban space for people
- Minimize pollution and noise
- Maximize infrastructure usage

NELSON
NYGAARD

Thank You

mking@nelsonnygaard.com

trafficcalmer.tumblr.com

vimeo.com/channels/trafficcalmer