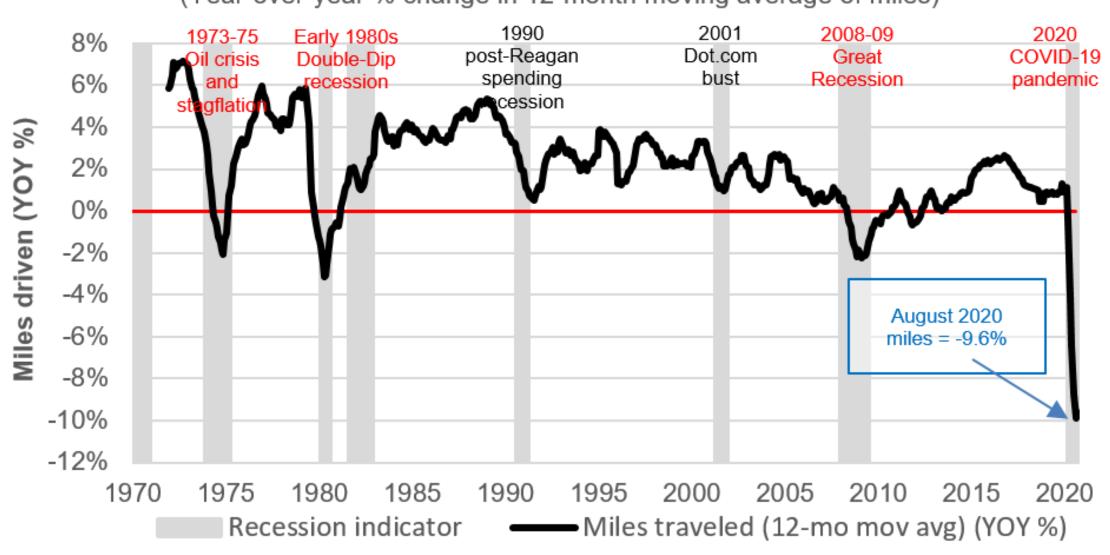


Charles L. Marohn, Jr. | Civil Engineer, Urban Planner, Author @clmarohn | @strongtowns | www.strongtowns.org



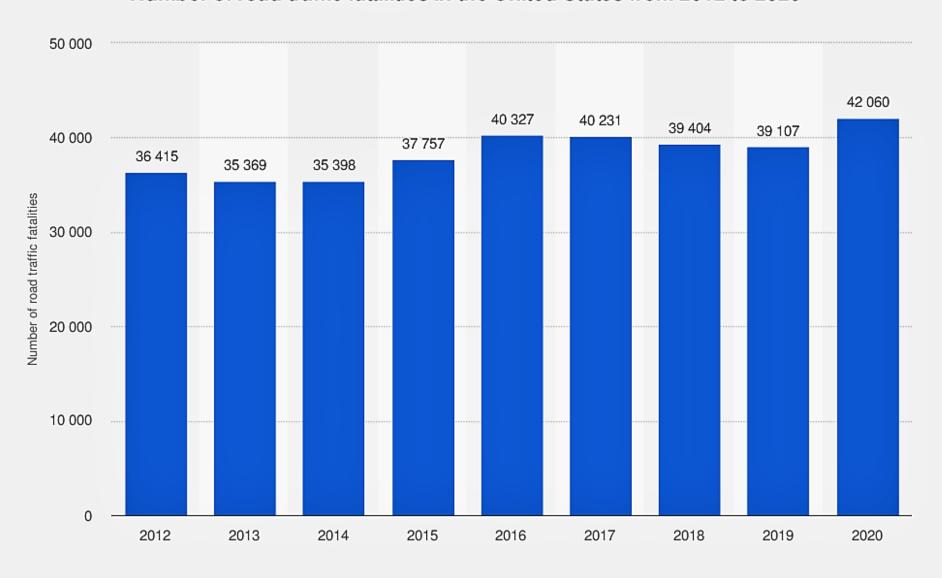


(Year-over-year % change in 12-month moving average of miles)



Source: FHA; NBER; RSM US

Number of road traffic fatalities in the United States from 2012 to 2020



How do we explain this?









The Reckless Driver™



2020 Fatality Data Show Increased Traffic Fatalities During Pandemic

Risky Driving Behaviors Including Failure to Wear a Seatbelt, Speeding, and Drinking While Driving Identified as Contributing Factors

Pedestrian Deaths Spike in U.S. as Reckless Driving Surges

Fatalities are climbing to record levels two years into the pandemic. Authorities cite drivers' anxiety levels, larger vehicles and fraying social norms.



It's not just your imagination. Drivers in the pandemic have gotten more reckless

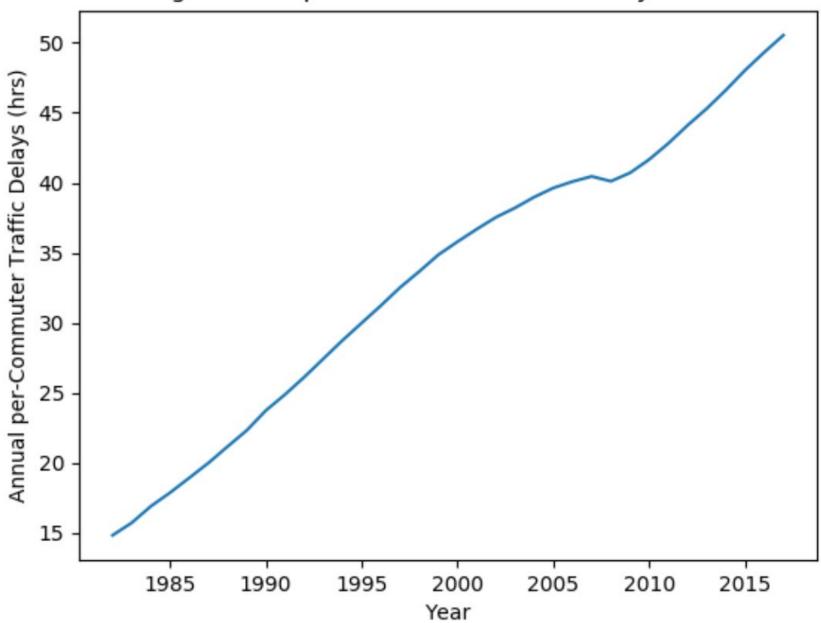


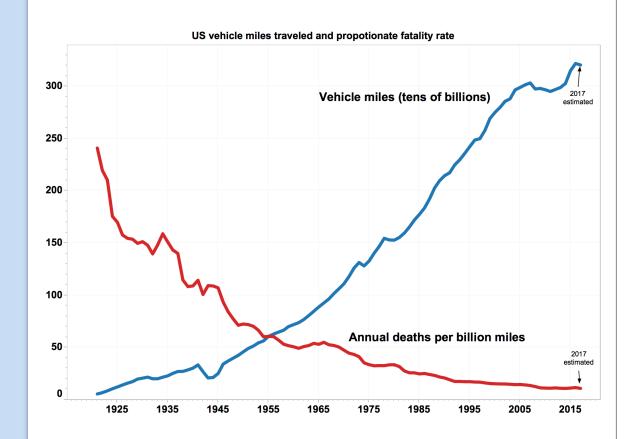
Car crash deaths have surged during COVID-19 pandemic. Here's why

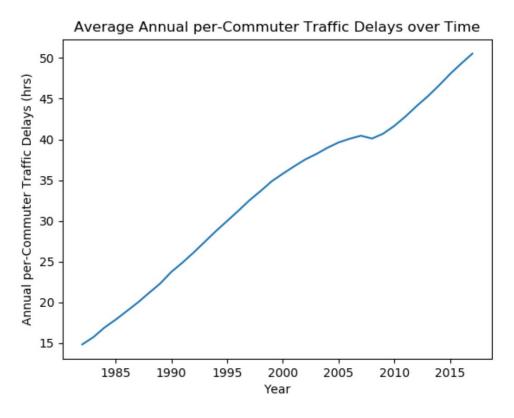
[Reckless driving is] "a sign of the overall lack of consideration we're showing for other citizens, whether it be wearing masks, or not getting vaccinated, or how we drive.

It's very aggressive. It's very selfish."

Average Annual per-Commuter Traffic Delays over Time



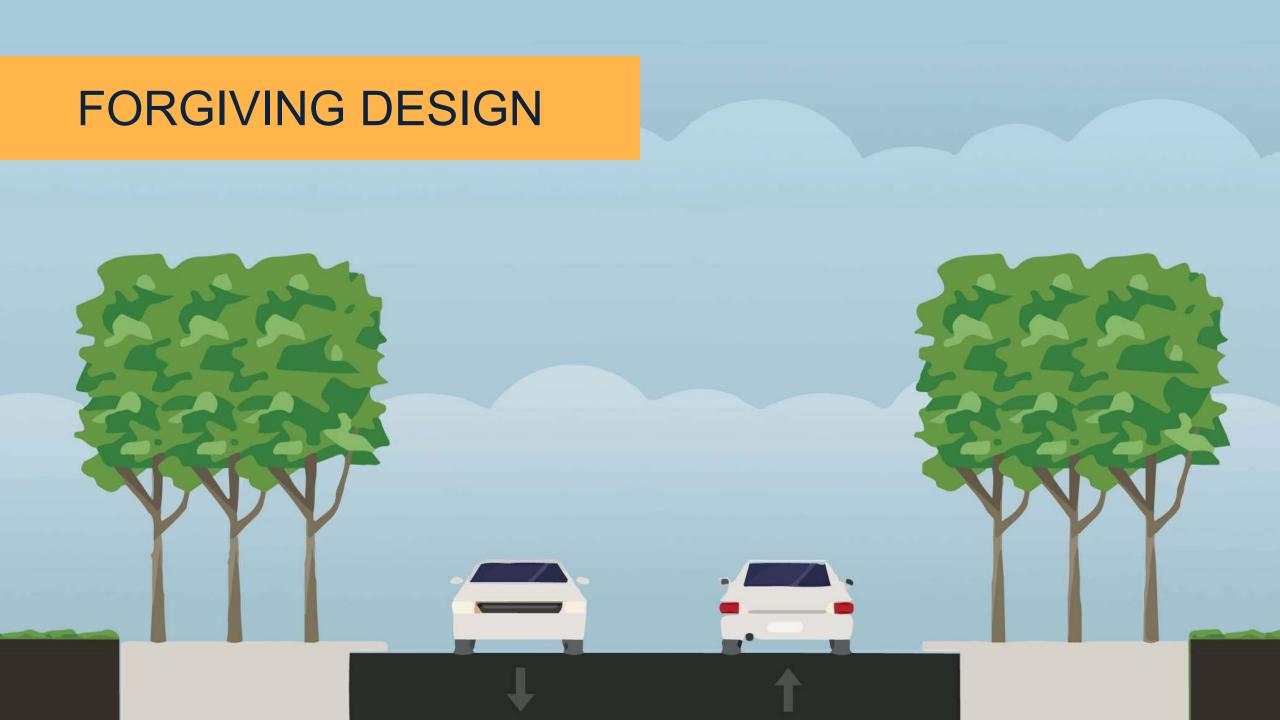


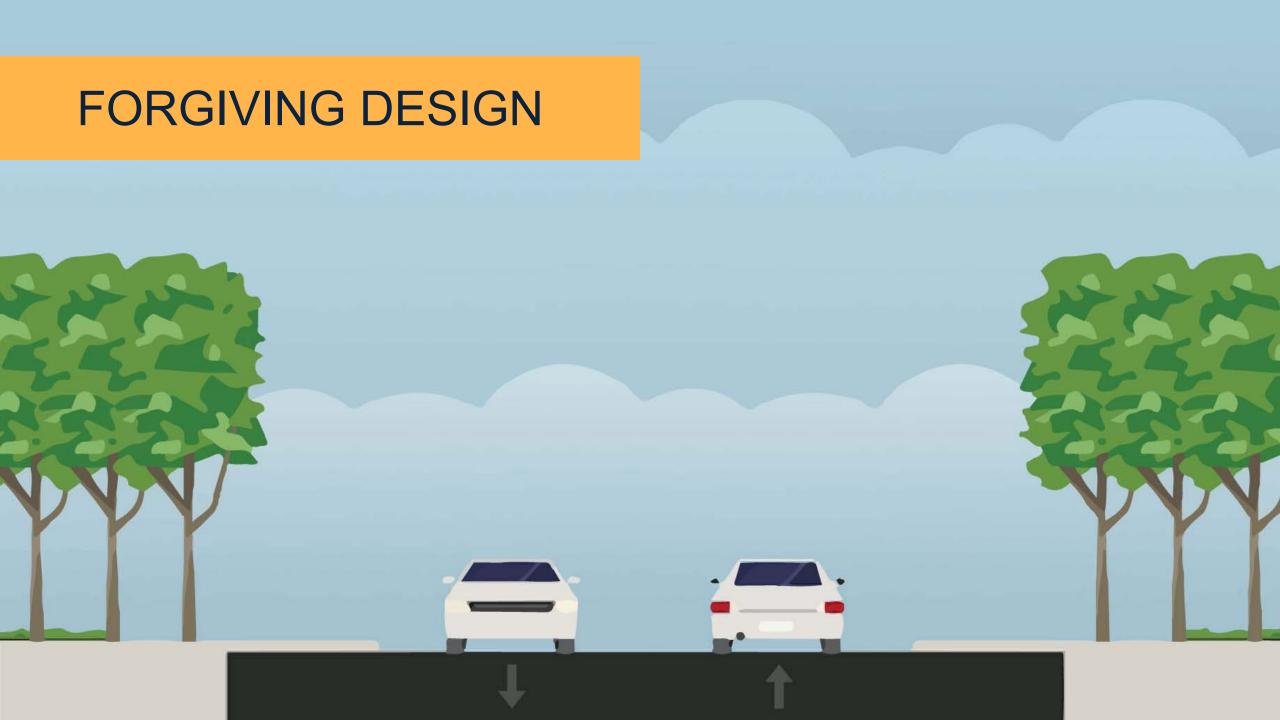


FORGIVING DESIGN

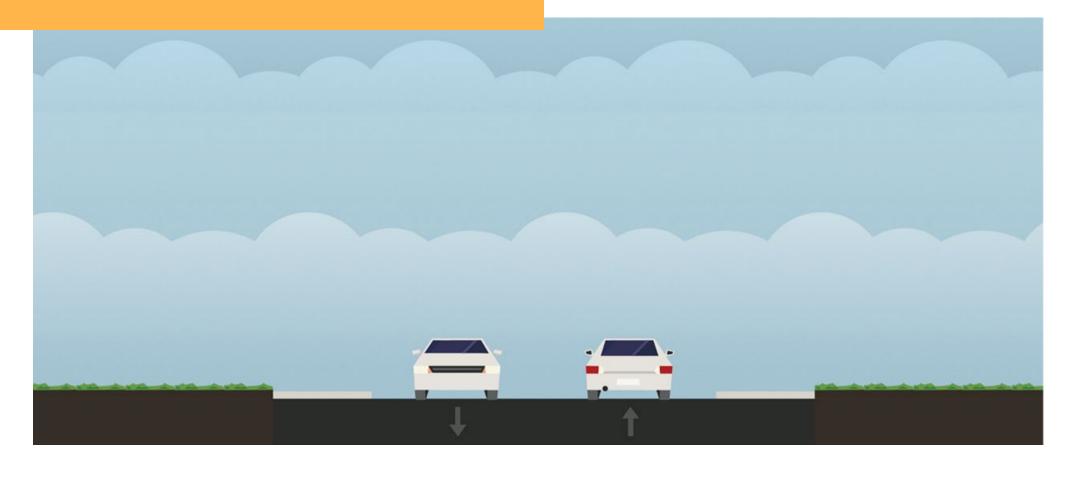


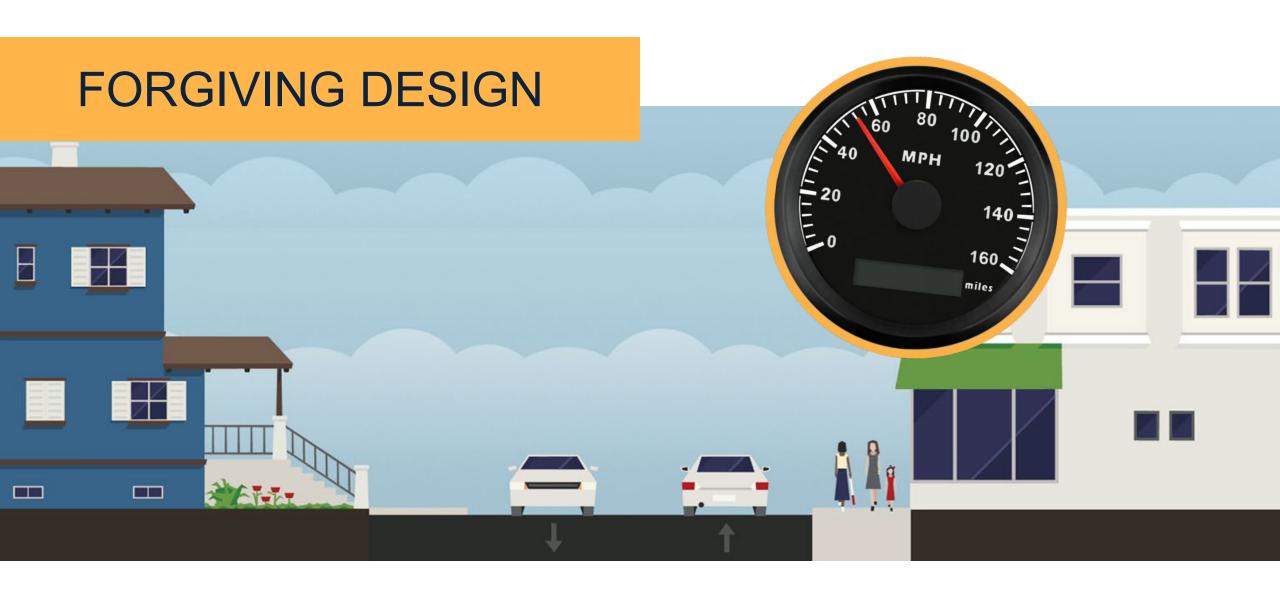
FORGIVING DESIGN





FORGIVING DESIGN



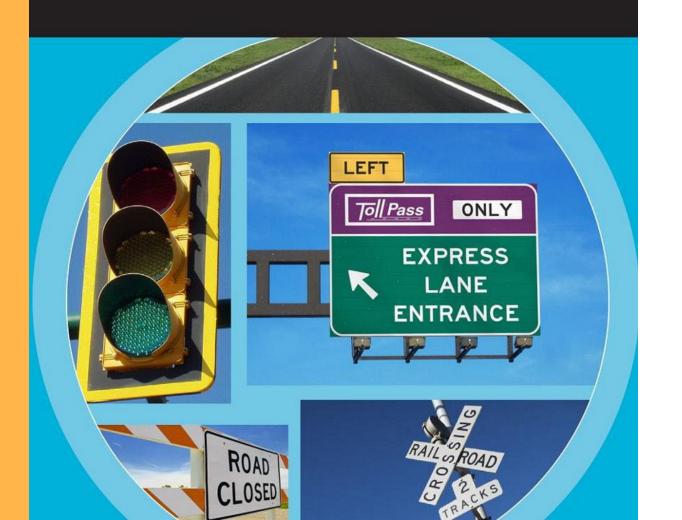


225. Street – see Highway

Manual on Uniform Traffic Control Devices

for Streets and Highways

2009 Edition





SYSTEM 1

Intuition & instinct



Unconscious
Fast
Associative
Automatic pilot



SYSTEM 2

Rational thinking



Takes effort
Slow
Logical
Lazy
Indecisive

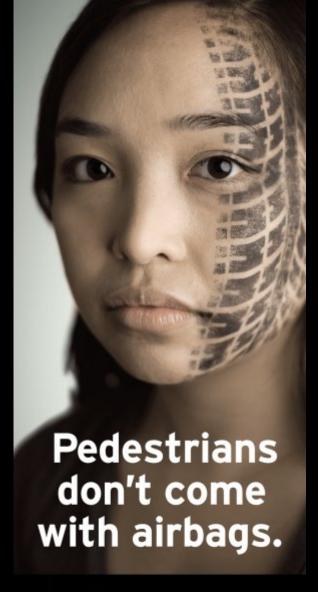
Uncomfortable Truth

People will tend to drive the speed they feel comfortable driving, regardless of any other factor.



Stop for pedestrians at crosswalks.

BE SAFE. DRIVE SMART. #EndTheStreakTX



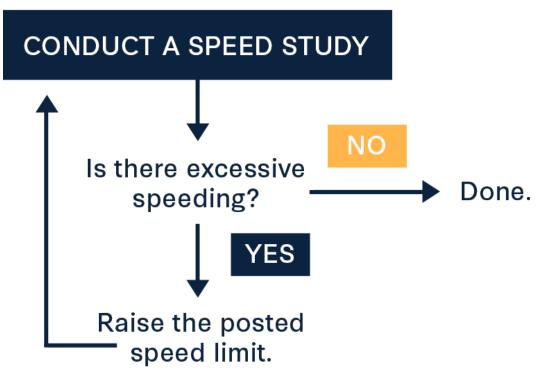
Yield the right of way to pedestrians.

BE SAFE. DRIVE SMART. *** #EndTheStreakTX

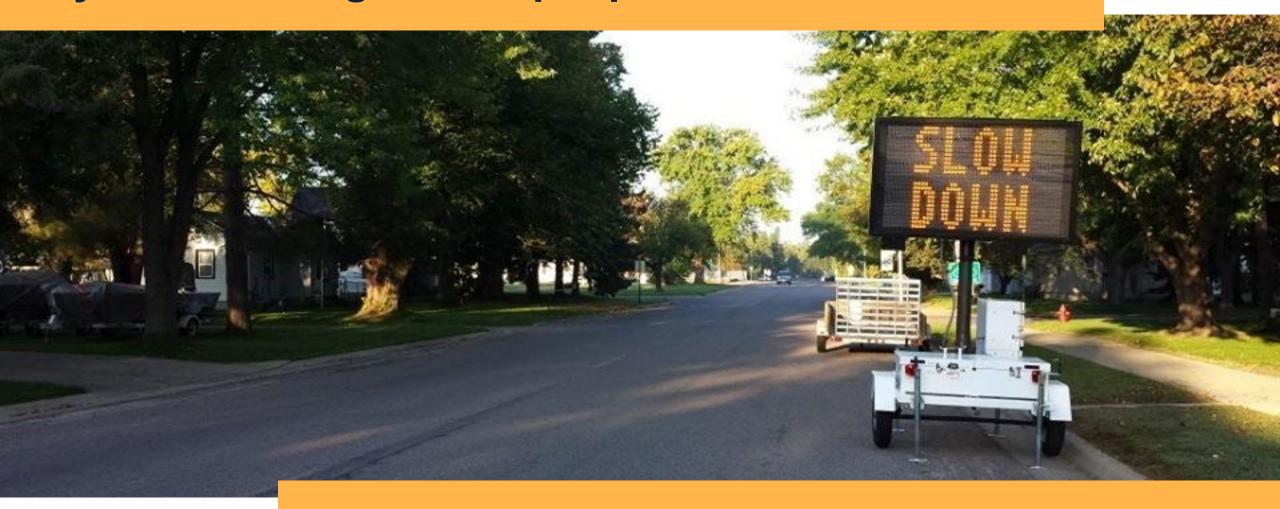


Slow down and watch for pedestrians.

Standard Engineering Approach



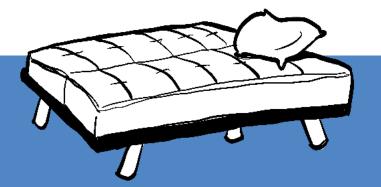
If you need a sign to tell people to slow down...

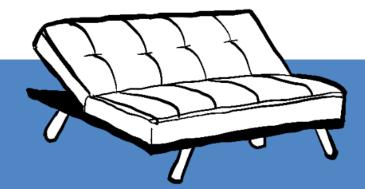


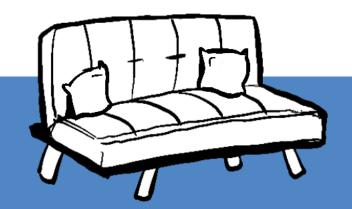
...you designed your street wrong.

Question:

Can we talk about Stroads?





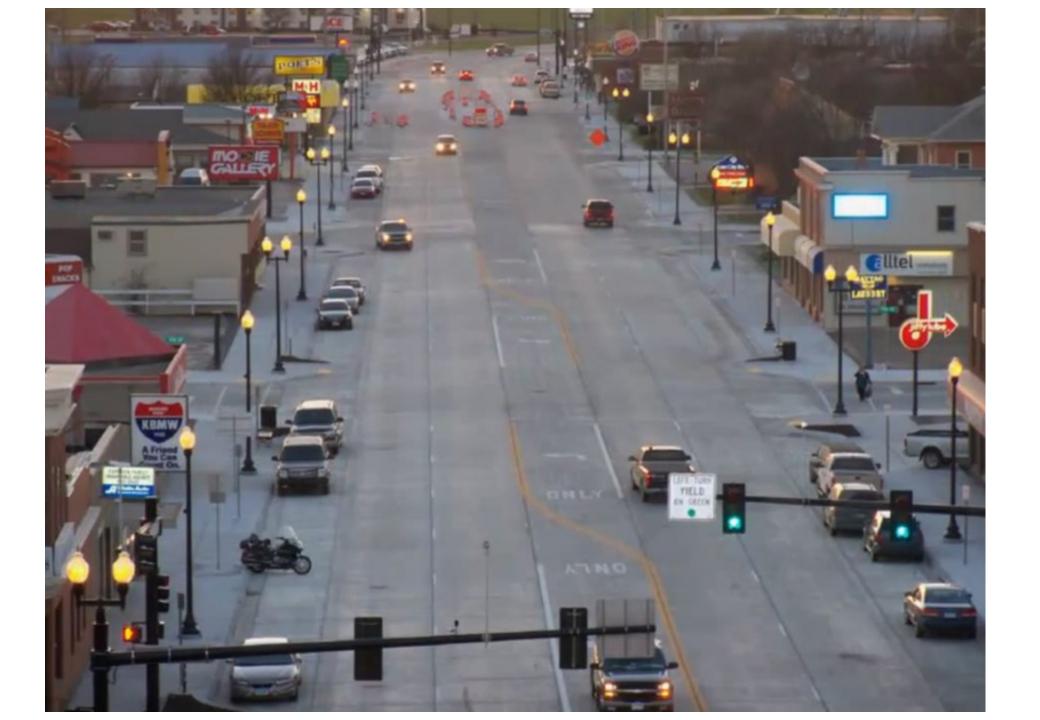


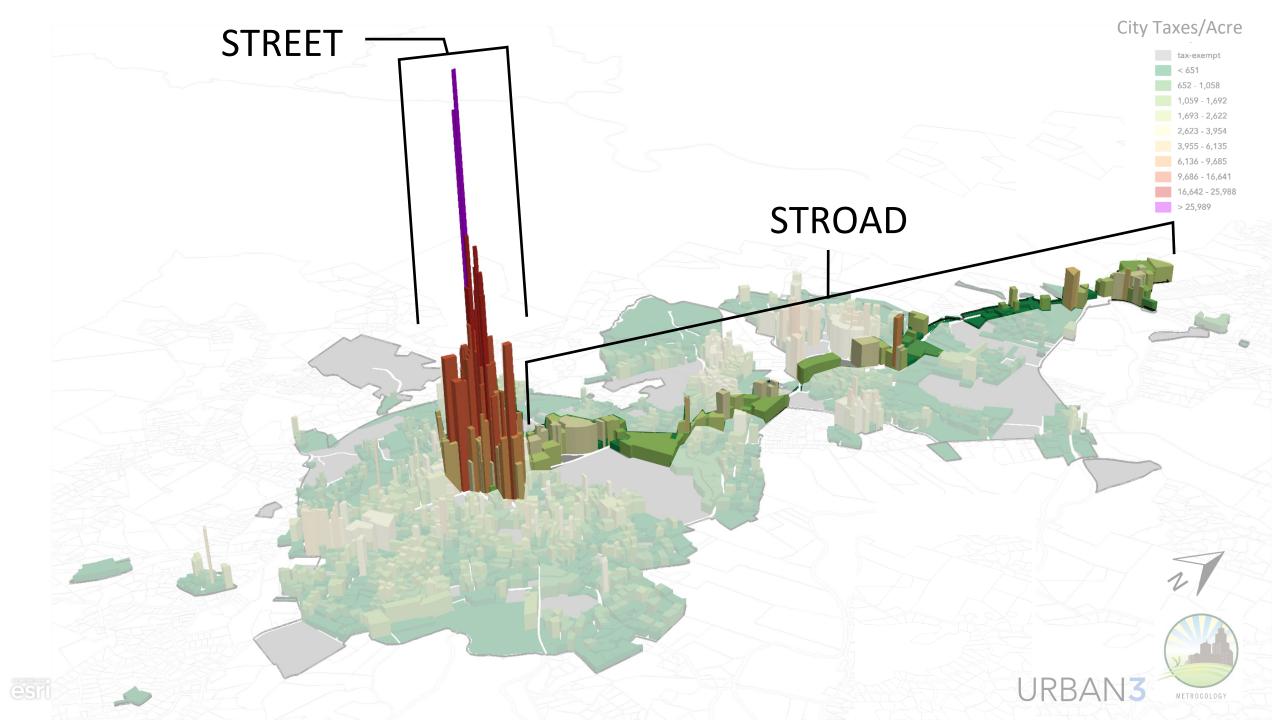


ROAD

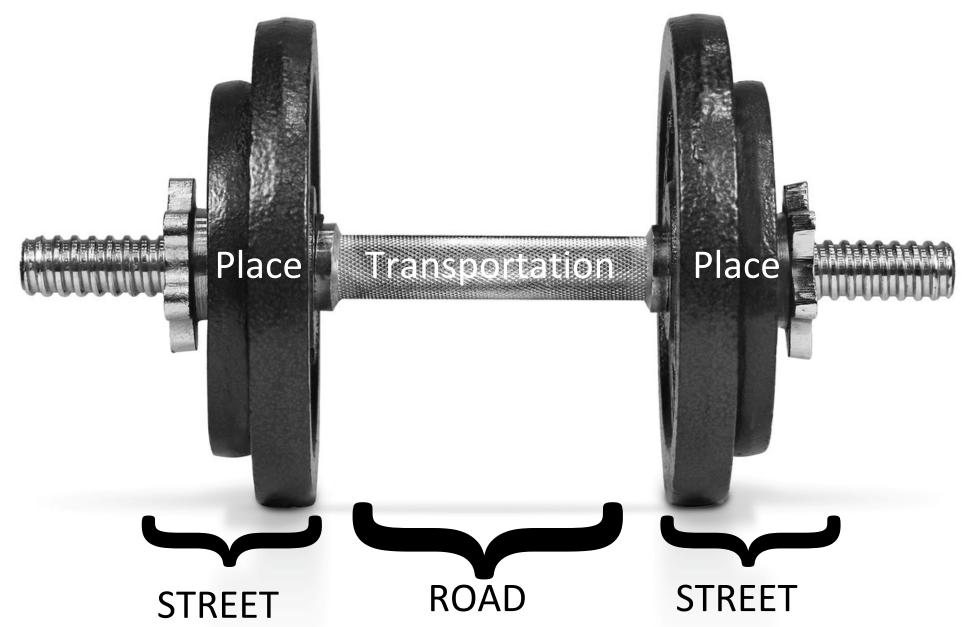
STROAD

STREET









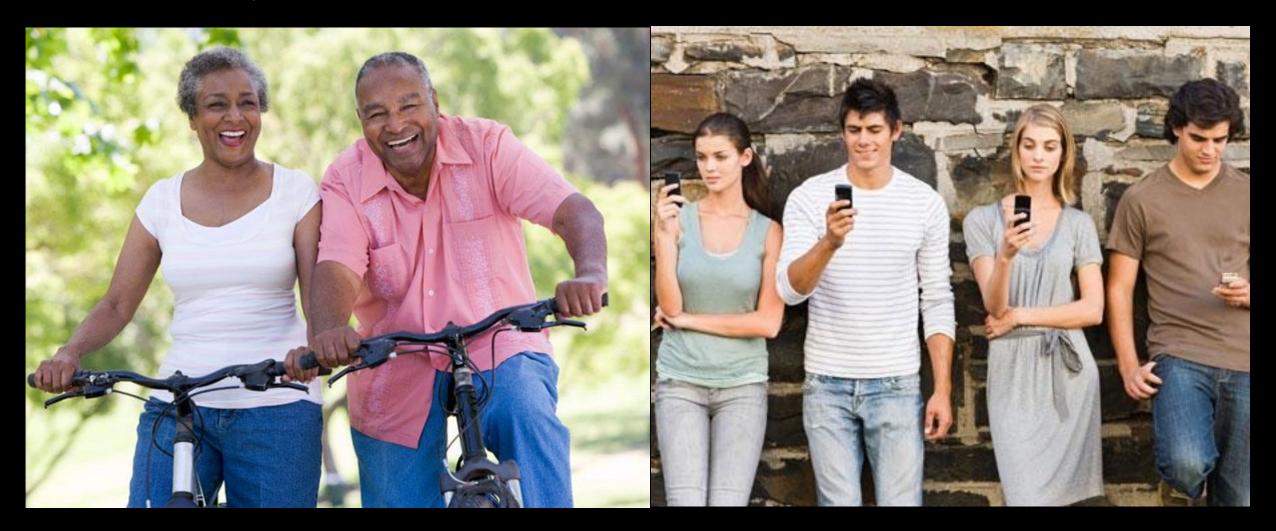
URBAN3

Too many needs....



....and not enough money.

Too many demands....



....and not enough money.

Too many additional things to do....



....and not enough money.



We need more money.

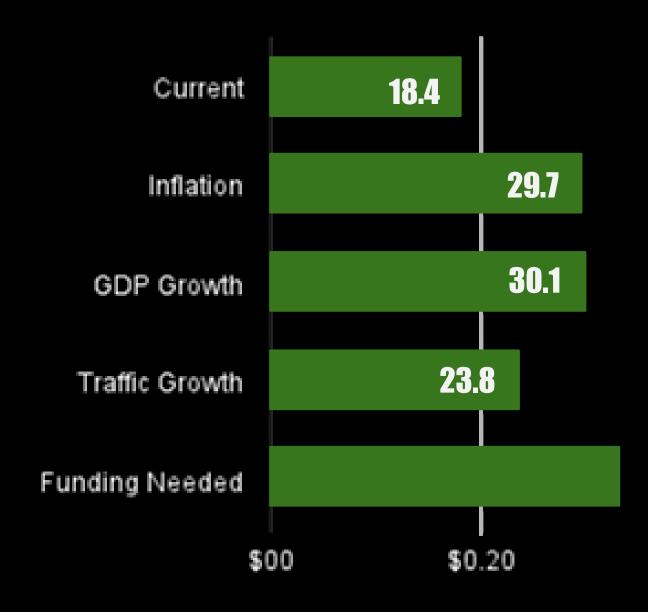


Transportation Funding Gap

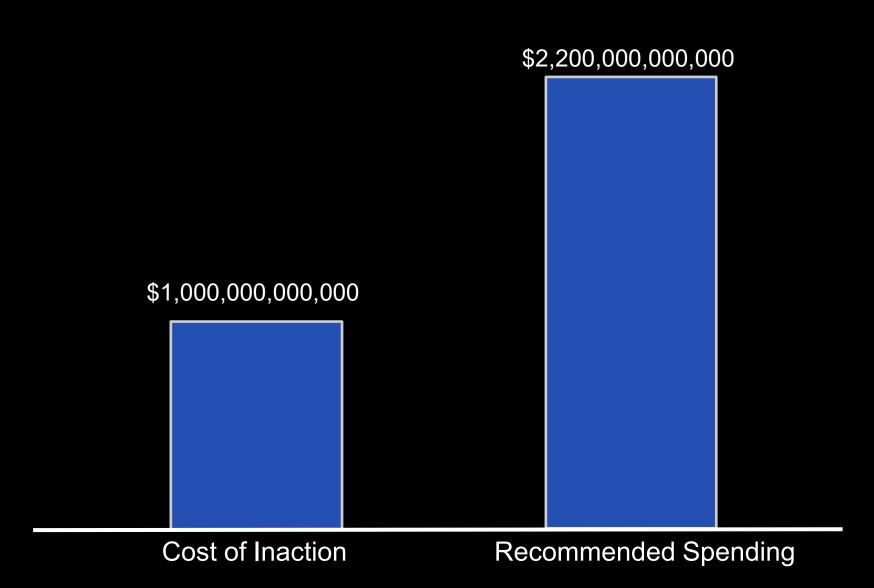
\$94 Billion/Year



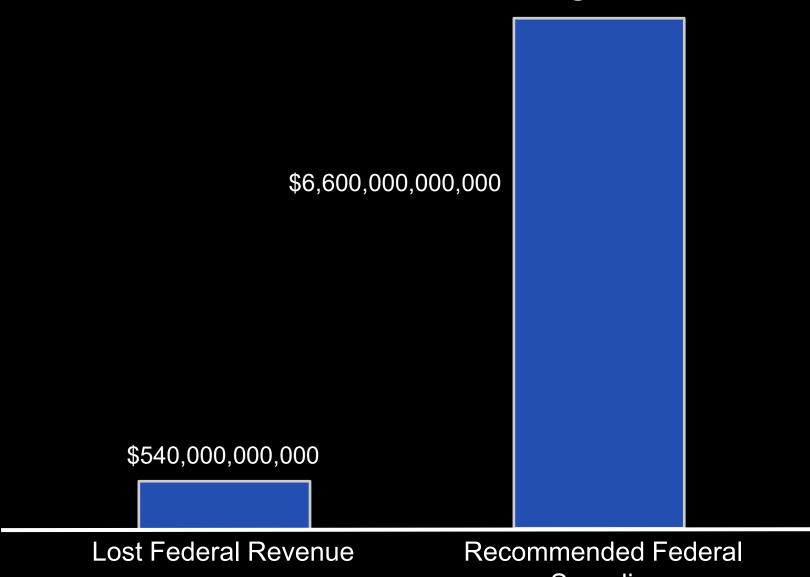
Federal Gas Tax



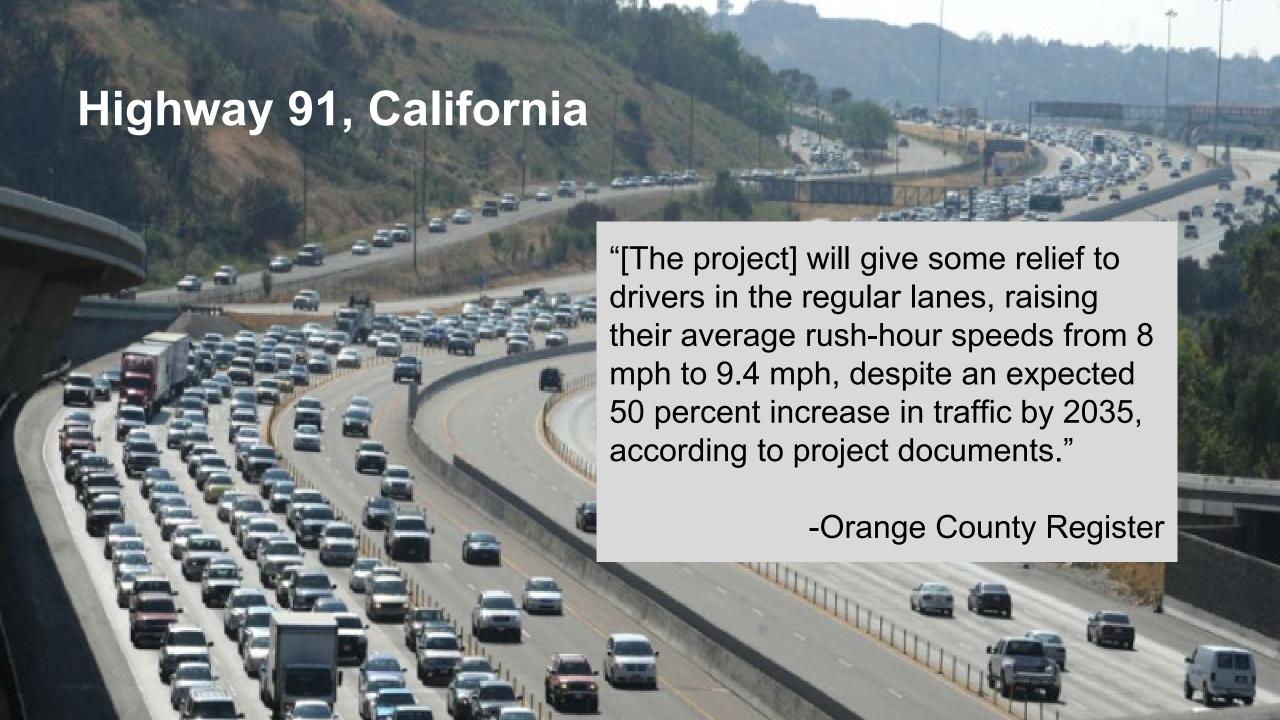
ASCE Estimates, Ten Year



ASCE Estimates, Thirty Year



Spending

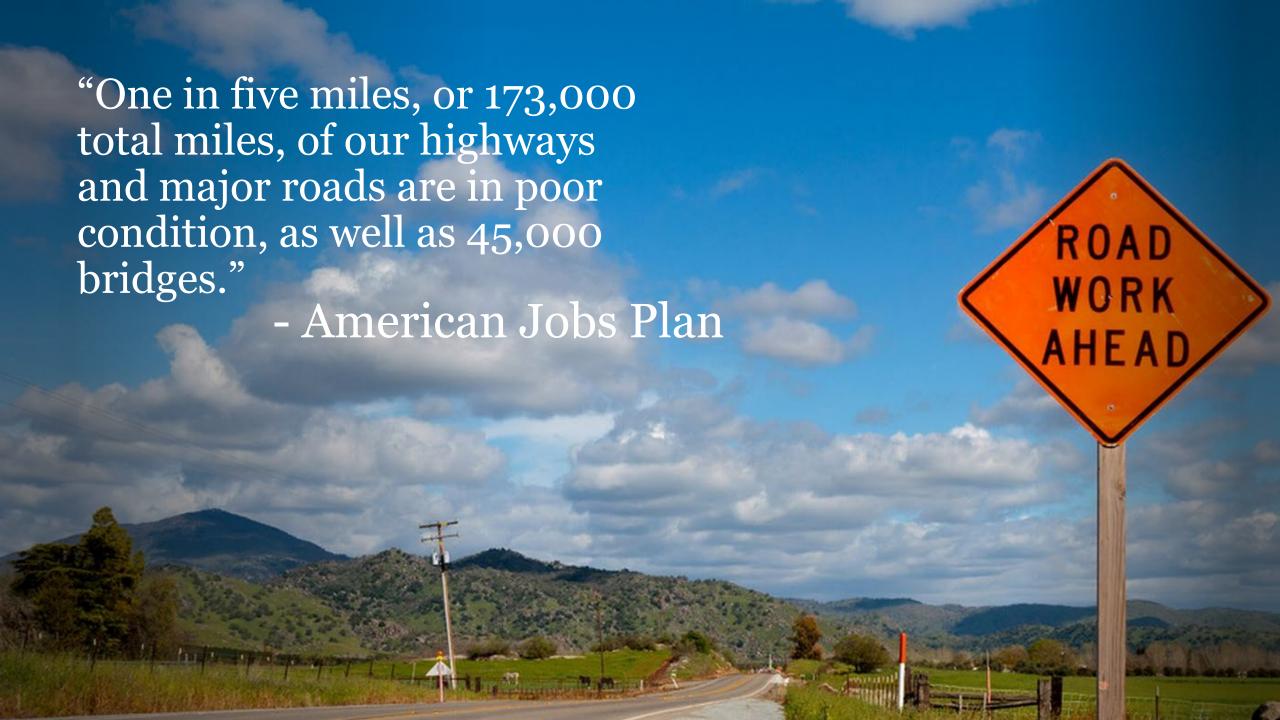




We need more money.









Miles of Road in Poor Condition

Miles of Road to Modernize

)

Bridges in Poor Condition

Bridges Repaired

(

If we don't have the money, what then?





AASTO.

A Policy on

Geometric Design of Highways and Streets

2018



THE GREEN BOICK







A Policy on Geometric Design of Highways and Streets

2018



HE GREEN BOOK

SAFETY







A Policy on Geometric Design of Highways and Streets

2018



HE GREEN BOOK

SAFETY



Engineer's Priorities

SPEED

VOLUME

SAFETY

COST





Engineer

Society

SPEED

SAFETY

VOLUME

COST

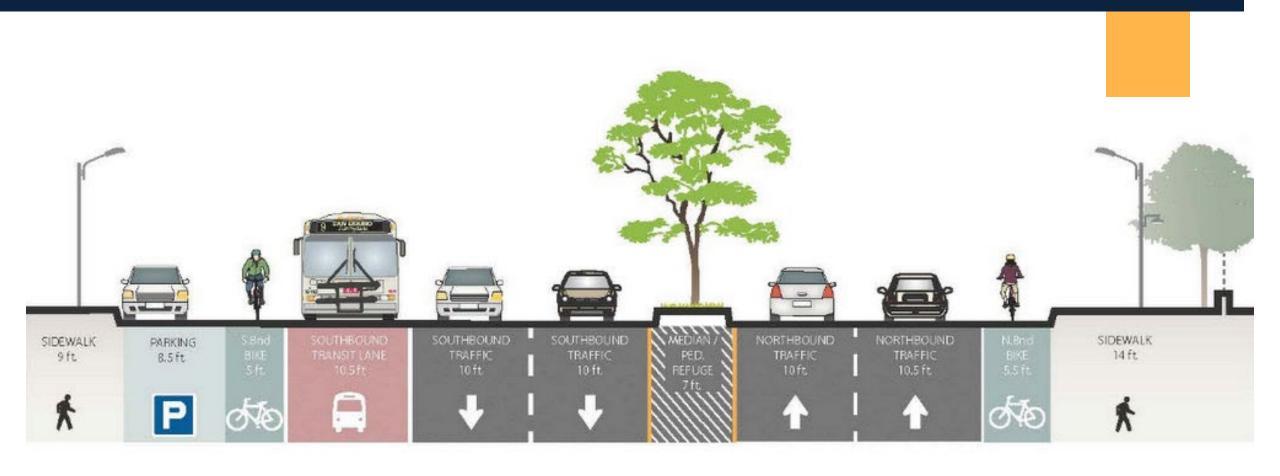
SAFETY

VOLUME

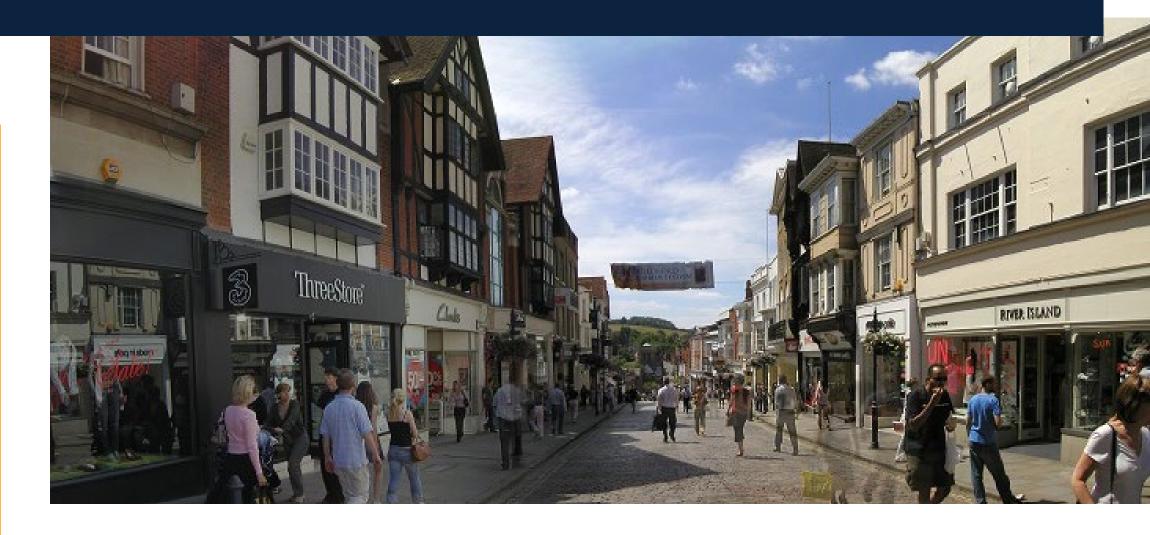
COST

SPEED

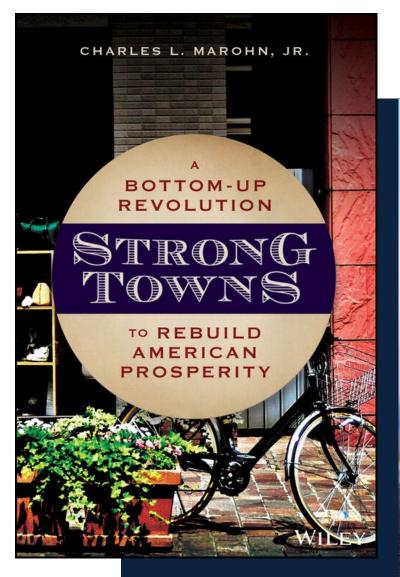
Complete Streets <u>accommodate</u> pedestrians within an auto-dominated environment.

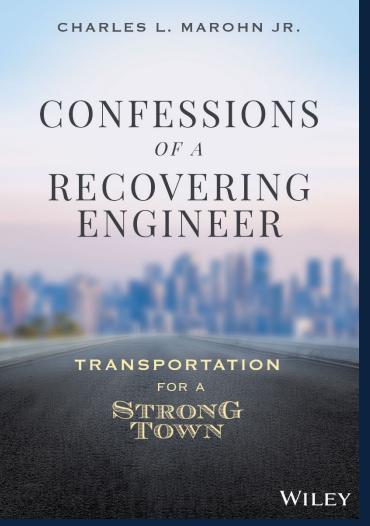


Strong Towns <u>accommodate</u> automobiles within an environment dominated by people.



More on the Strong Towns Approach





Coming March 2024

