A Brief (but Extremely Entertaining) History of Transportation Planning

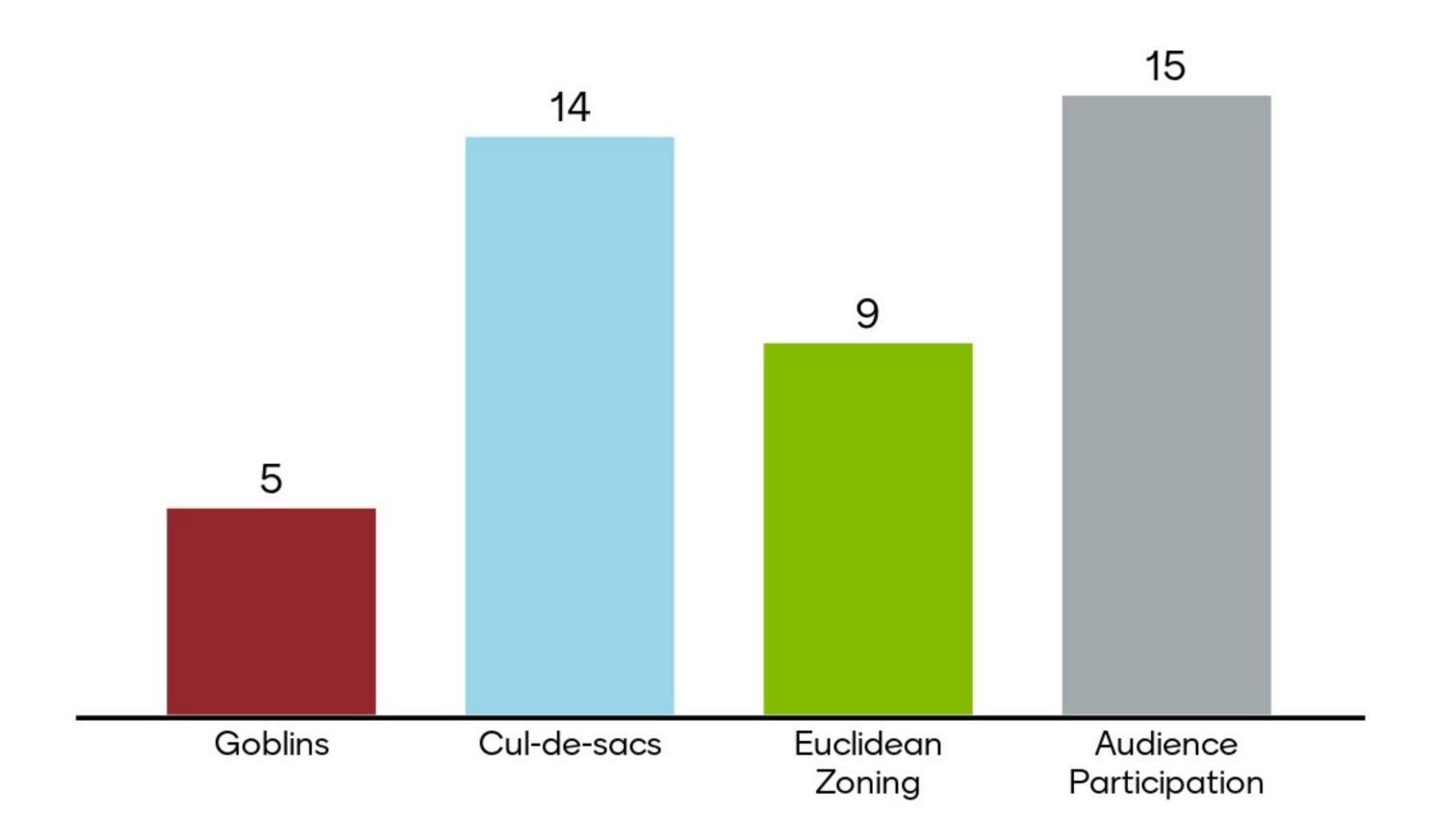
South Carolina Chapter of the American Planning Association Fall Conference | Thursday, November 2, 2023

Ernie Boughman, AICP
Director of Operations, Southern U.S. | Toole Design Group





What scares you most?



Why I'm Here





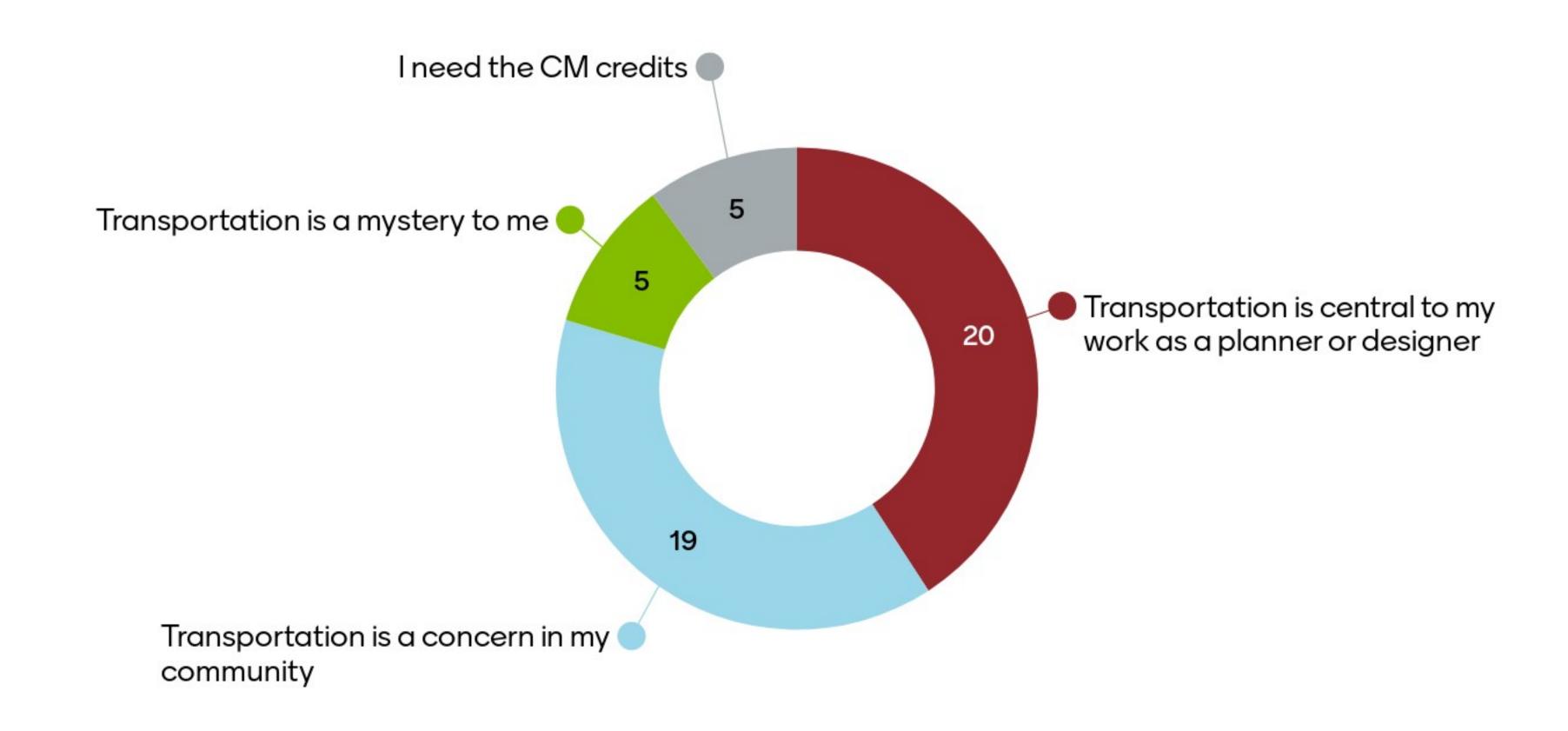








Why are you here?







HOW DID WE GET HERE?

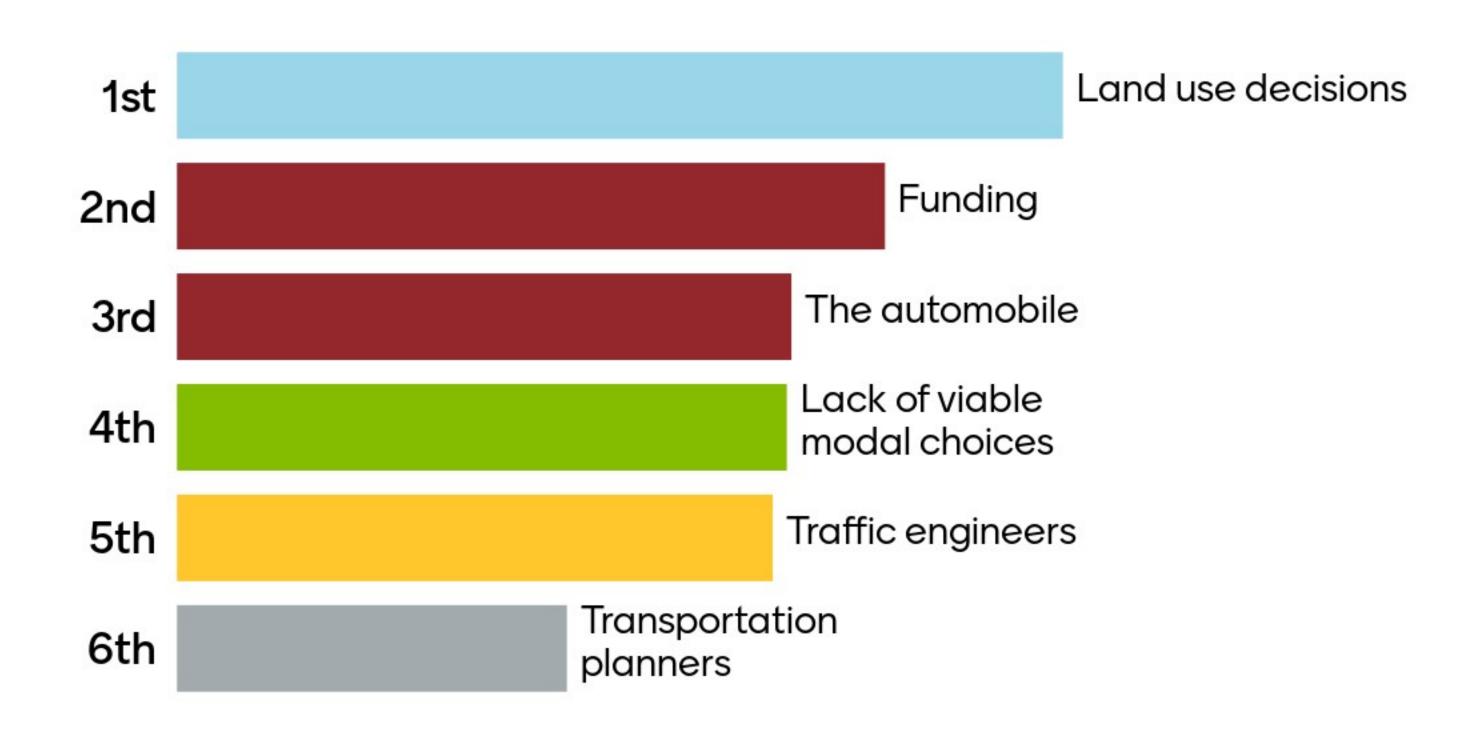
Specifically – How did we get here?







Who or what is to blame for our current transportation challenges?





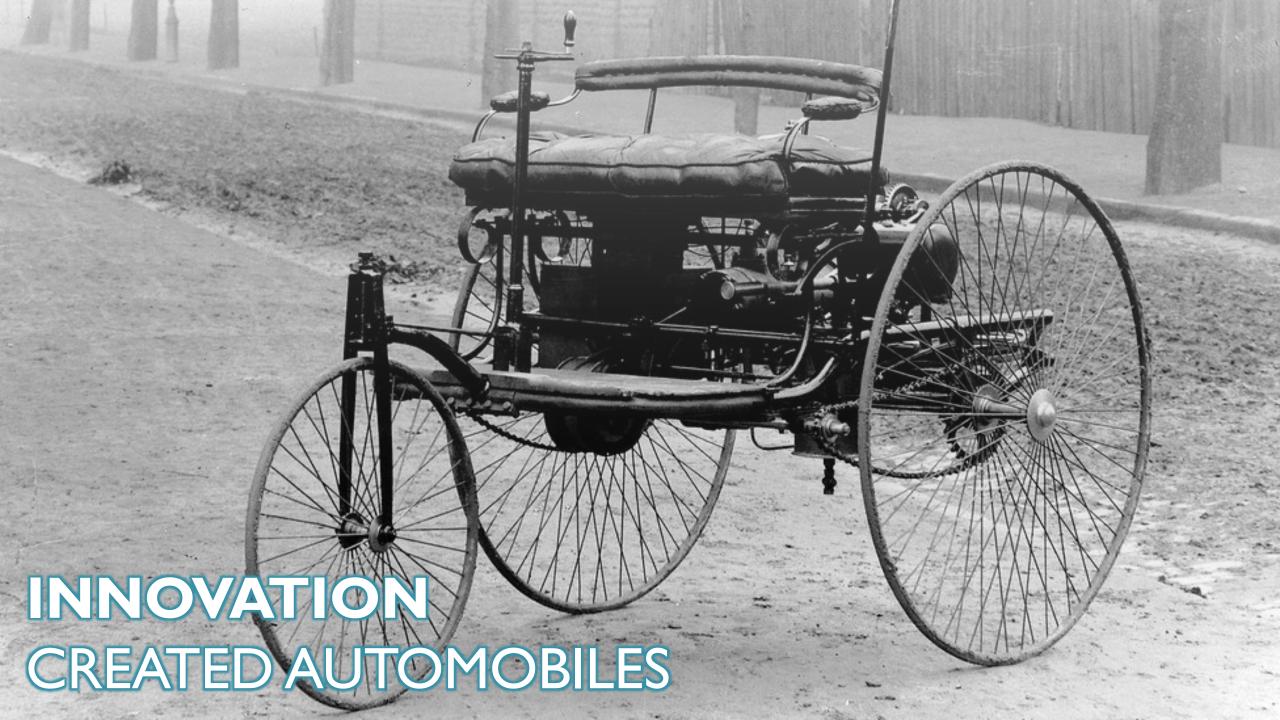














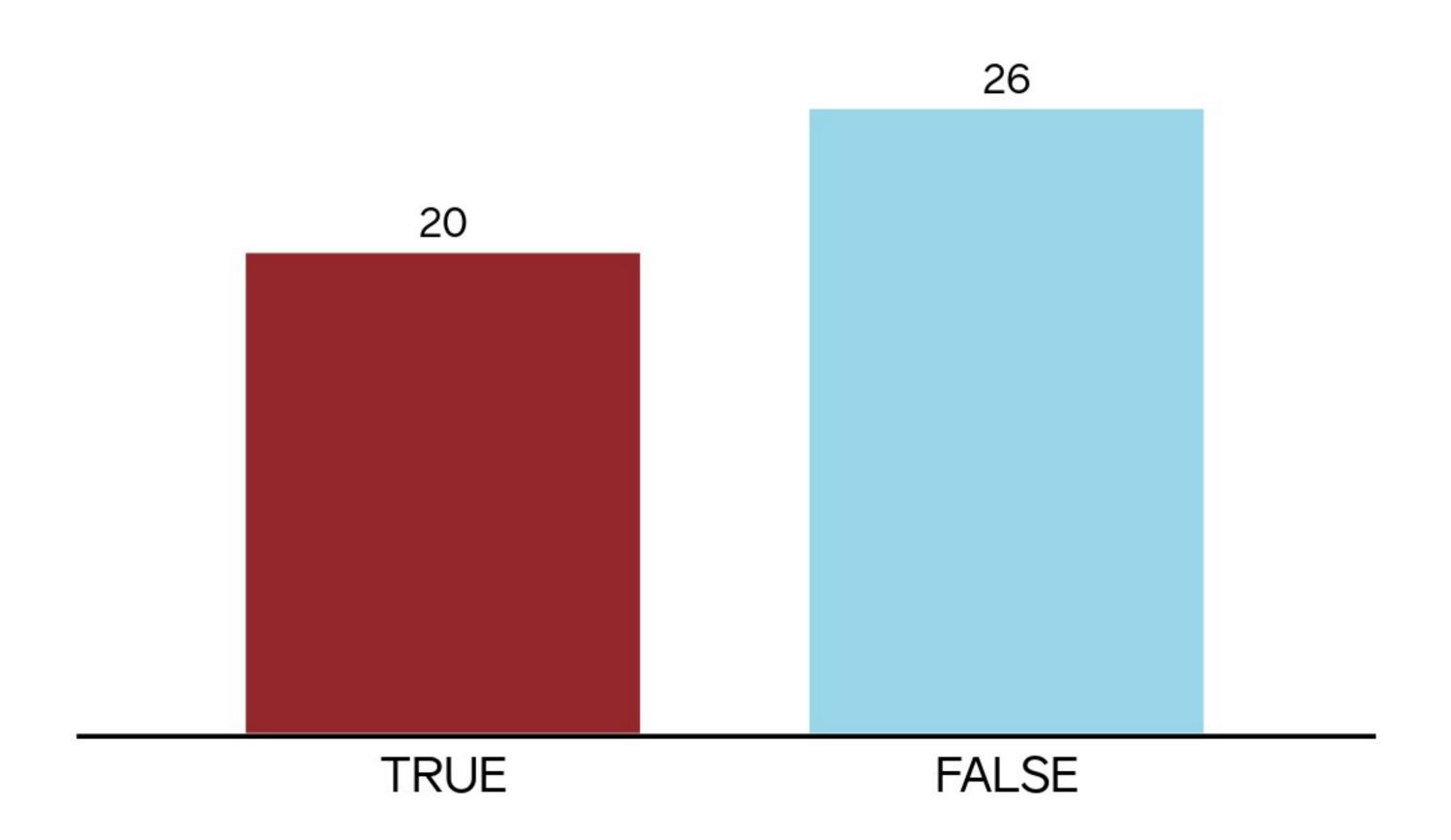




WHAT HAPPENED?



U.S. Roads are more dangerous than ever.



Audience Poll #5

TOOLE

What is your definition of a "street"?

39 responses

A travel way

Travel space

A pathway to bridge destinations

Framework

A path for travel

Place for all!!! Pedestrian and autoists

A designated travelway

Public rights of way between buildings or lots

Travel space





39 responses

A path to move

Avenue for transporting people and goods between destinations.

A parhway that connects various places

A safe human scaled pathway

Path for travel

Community thoroughfare with sidewalks

Path for people vehicles goods

A path that enables a means of transportation from on place to another.

Linear path which facilitates commerce both in travel and on the edge.





39 responses

A link for transportation

Travel way for vehicles

Designated right of way

a dedicated thoroughfare for transportation by all modes

A travel way

A path to connect commerce and communities.

Mechanism for travel

Space for people and vehicles

A route to use from a to b





39 responses

Travel way for transportation between destination

A designated Space used for traveling from one place to another

A path which is used for travel.

A road for vehicles

Centralized route to match origin to destination

Space for people, animals and vehicles

A designated route for the movement of people and goods.

An address.

A public connection between places.





39 responses

A linear improved surface occupied by motorized and non-motorized vehicles, and pedestrians.

Community thoroughfare for all modes of transportation

A path to connect commerce and communities



Streets

Public spaces for people, commerce, cars, trucks, transit, and bikes





Streets

Richmond, VA

Life on the street circa 1920





Streets

Spartanburg, SC Life on the street circa 1940s





Source: Herald-Journal



Historical Perspective

	POP.	AUTOS	AUTOS PER PERSON	VMT	FATALITIES	FATALS PER 100K PERSONS
1955	166M	52M	0.31	605B	37K	22.11
2021	333M	278M	0.83	3.2T	43K	12.89
CHANGE	x 2	×5.3	×2.7	x5.3	×1.2	×0.6

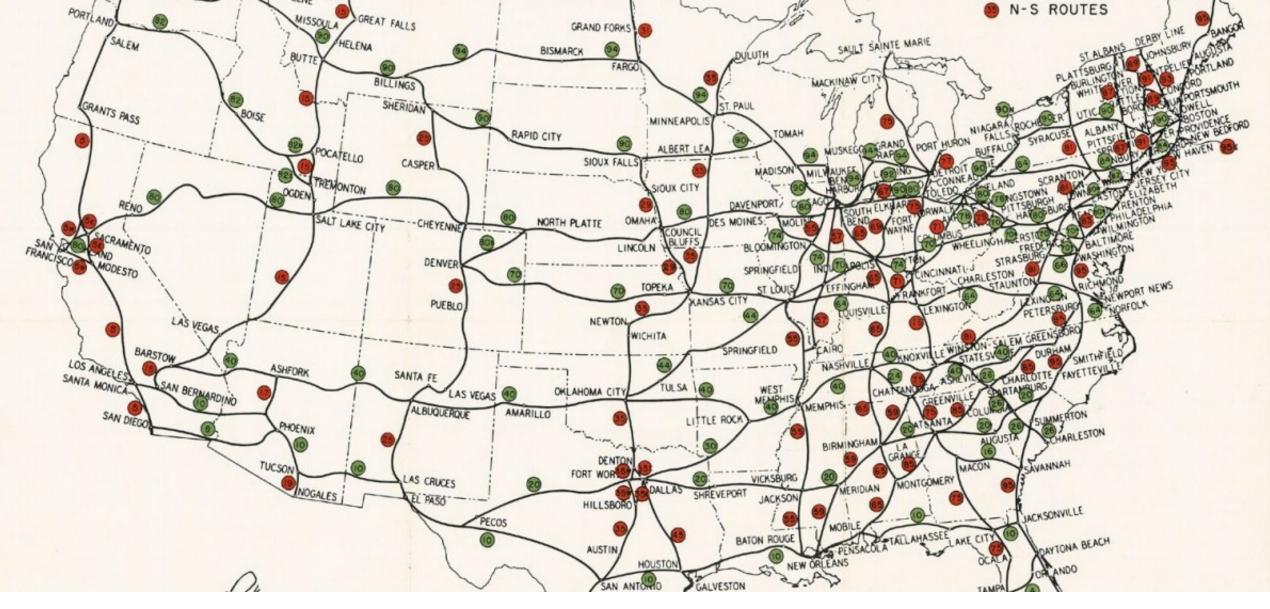


Historical Perspective

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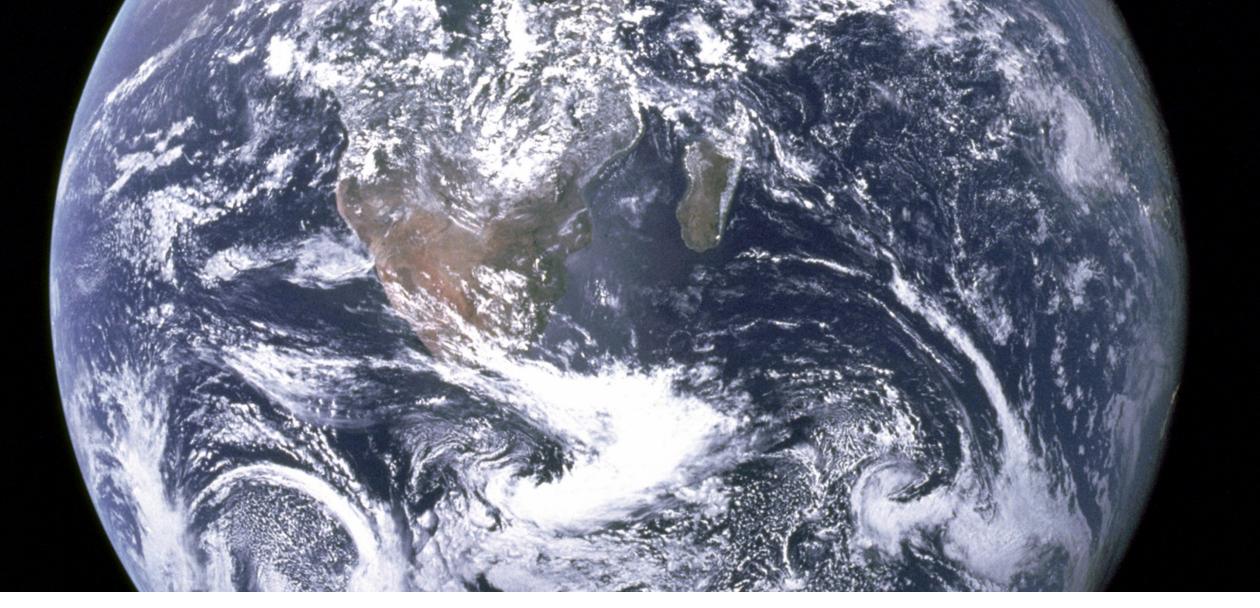
This does not diminish the danger on our roads today but rather recognizes that our nation has historically acknowledged dangerous conditions and proactively worked to reduce fatalities through design and infrastructure implementation.





We built 26,000 miles of highways in 15 years.

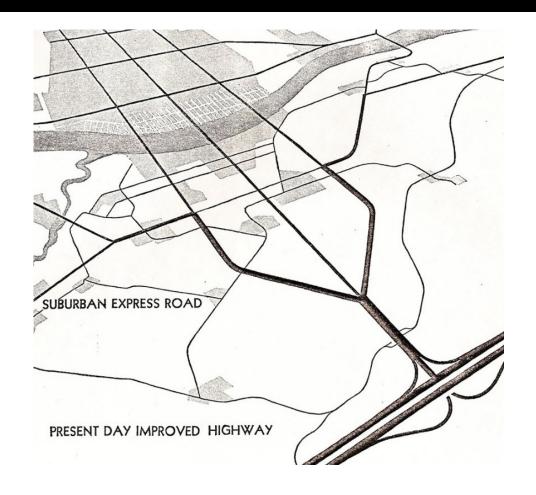






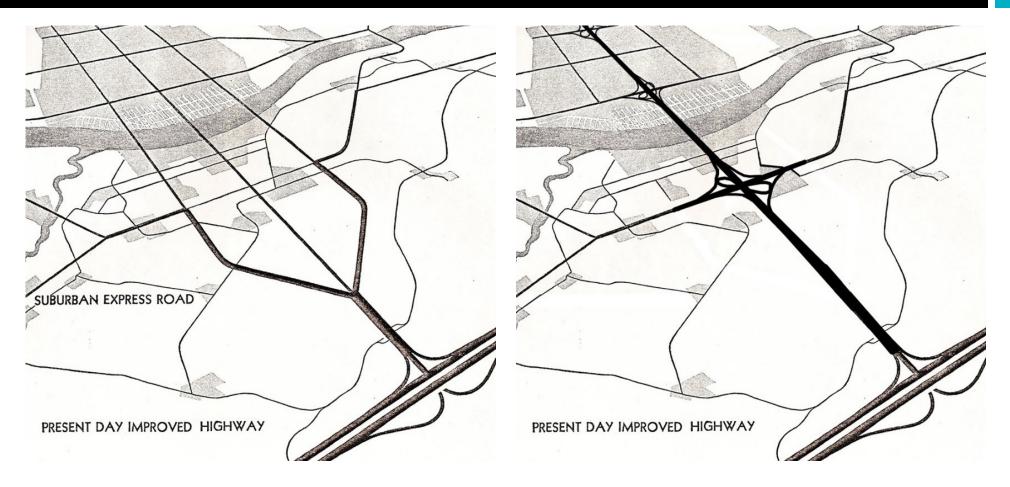
Interstate Highway System

We built 26,000 miles of highways in 15 years. Enough to circle the Earth plus the distance from Minnesota to New York.





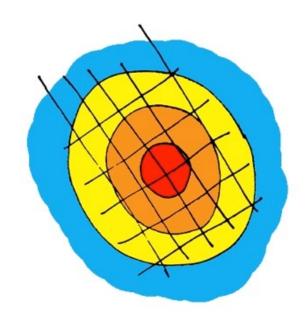
Highways as Intended It was an important system





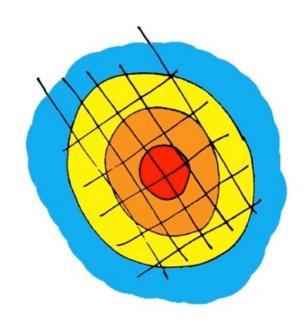
It was an important system but deviated from original intent.



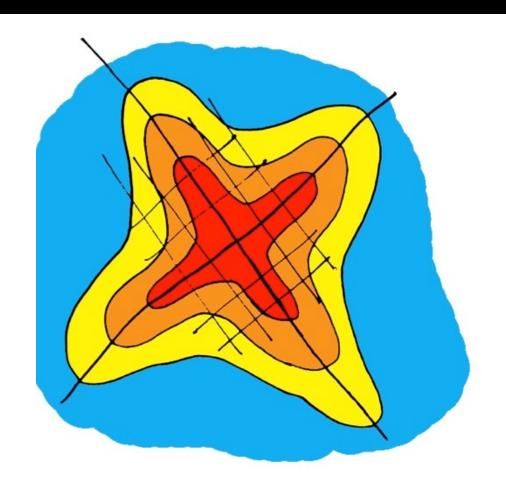








Traditional City
Value = fn (proximity to center)



Conventional Theory
Value = fn (travel time to center)



Modern Values

Reward Long Trips

Automobile Focus

Speed is Important

The Fabric Doesn't Matter

Congestion is Bad

Single Use Land Use

Dendritic Street Hierarchy



Modern Values

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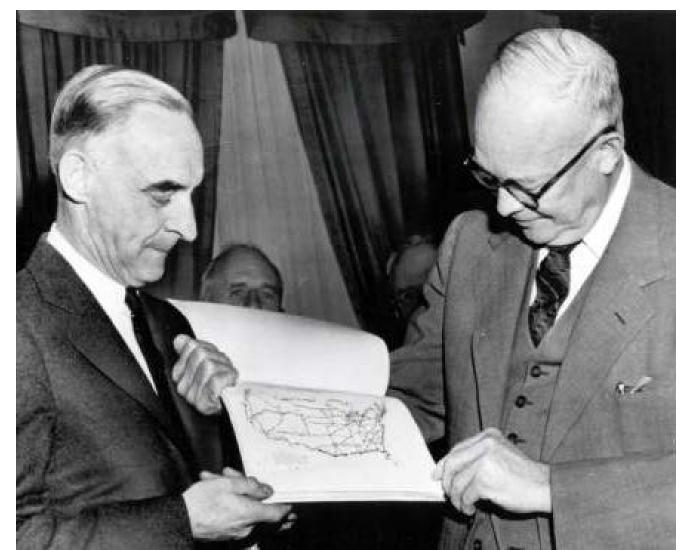
Single Use Land Use

Dendritic Street Hierarchy

Level of Service for Motorists



What Happened?



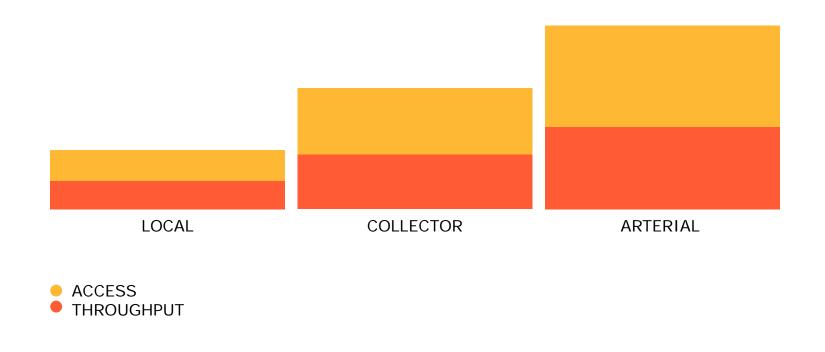
President Eisenhower went on to say that the matter of running Interstate routes through the congested parts of the cities was entirely against his original concept and wishes.

Source: Memorandum of a 1960 meeting in the Oval Office.



Traditional Conception of the Purpose of Streets

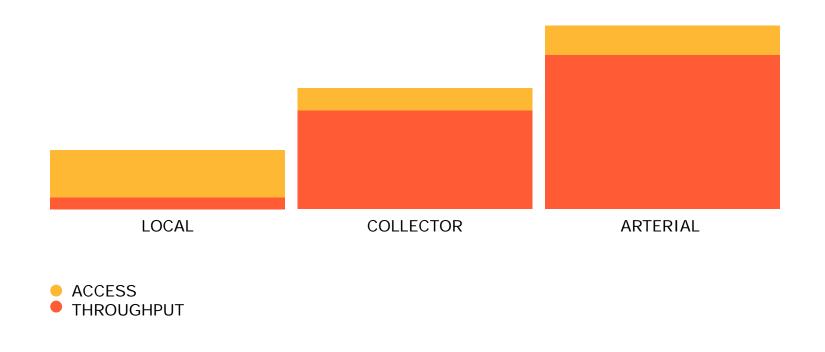
Access to goods and services was a key function on arterials





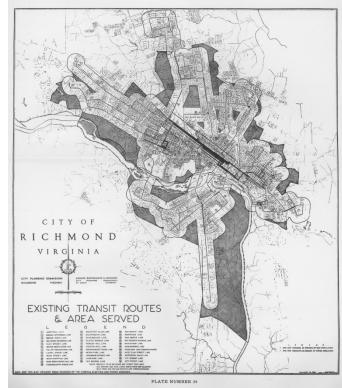
Modern Conception of the Purpose of Streets

Arterials started to serve more of a throughput function





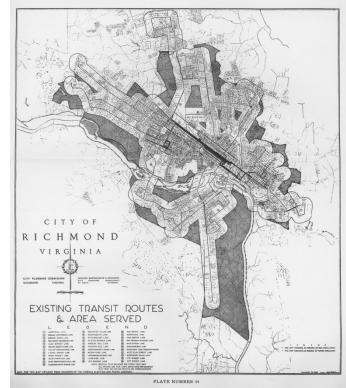




Historically Arterial Streets in American Cities were about Access and Social and Economic Exchange







Historically Arterial Streets in American Cities were about Access and Social and Economic Exchange

Until 1949 when Modern Values prevailed

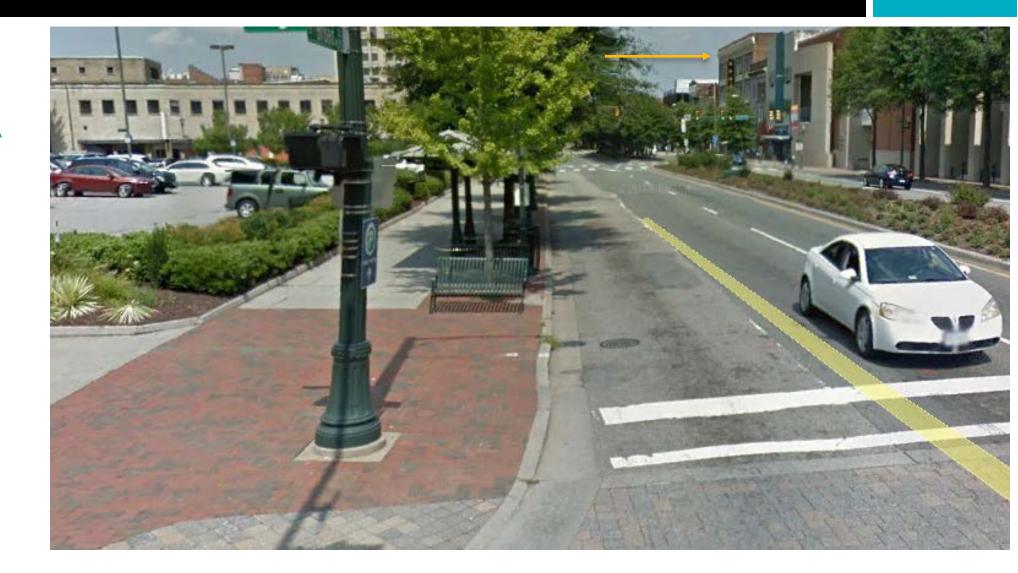


Richmond, VA Life on the street circa 1920





Richmond, VA
Today
Level of Service A





Spartanburg, SC Life on the street circa 1940s





Source: Herald-Journal

Spartanburg, SC
Today
Level of Service B





Audience Poll #6



What is your definition of "mobility"?

37 responses

Freedom of choice for movement

Moving from point A to point B

The ability to move freely

The ability to move from one location to another

The ability for people to get to destinations they need to access

The movement of goods and people.

The ability to move around a place

Ability to move from one location to another

Access to move





What is your definition of "mobility"?

37 responses

Ease of travel

Moving from place to place

Being able to move where you want

Ability to move

ability to get around your city town

Ability for all to move as they need

Being able to move around

Means of movement from one location to another

Ease of travel through multiple modes





What is your definition of "mobility"?

37 responses

Ability to get from one point to another

Ease of moving from one point to another

Movement by any use from one location to another

Being able to move from place to place

Ease and ability to move freely from one place to another

Able to move freely

Freedom of movement and choice of transport.

Being able to travel from one place to another.

Ability for transient movement and access





What is your definition of "mobility"?

37 responses

Flexibilty in movement

Ability to move

Ability to travel to where you want to go.

The ability to go from one spot to another.

Getting around without alot of interference

Ease of travel through multiple modes

Access to life

Ease of movements for all modes fro place to place

Getting from one place to the other





What is your definition of "mobility"? 37 responses

Getting from one place to the other

Mobility – The movement of people and goods





Mobility – The movement of people and goods





Mobility – The movement of people and goods





Reality

HOW DO WE SHIFT THE PARADIGM?



Audience Poll #7



What can YOU do to shift the transportation paradigm? 39 responses

Walk or bike more

Support multiple modes more

Not much

Try to find solutions to work effectively with SCDOT.

Increase density at nodes to create demand transit options

Promote a culture of multimodal transportation

Always be honest and plan with the communities best interest in mind

Focus on shopping locally.

Educate decision makers and the next generation that new ideas can work.





39 responses

Change my travel	behavior	and	encourage other
to			

change habits ..

Advocate to change state policy, choose to live close to amenities

Plan for more trails that people will use

Vote for public transportation initiatives and multimodal uses

Insist on complete streets policies and construction in comp plans

Use other forms of transportation

Work and live in a community that has high walkability.

Focus on multimodal connectivity





39 responses

Encourage developers to provide walking and biking trails

Buy an EV.

Mitigate the number of vehicles on the road driven by teens.

Live near work

Teach students to look at transportation anew

Maybe let the users experience different settings / locations

Better Consider transportation issues in land use planning and regs

Be example to my kids so they will find their own way to make a change

Use alternate forms of transportation





39 responses

Multimodal support

Walk more and utilize public transportation.

waking school bus

Move to a community why I can safely access mobility options.

Give more incentives to people who use alternative modes of transportation, other than a car.

Embrace new modes of commuting

Consider human needs and what can give them a better, safer community Ana long them to be part of the place without needing anything but their foot

Educate the next generation.

Never leave my house





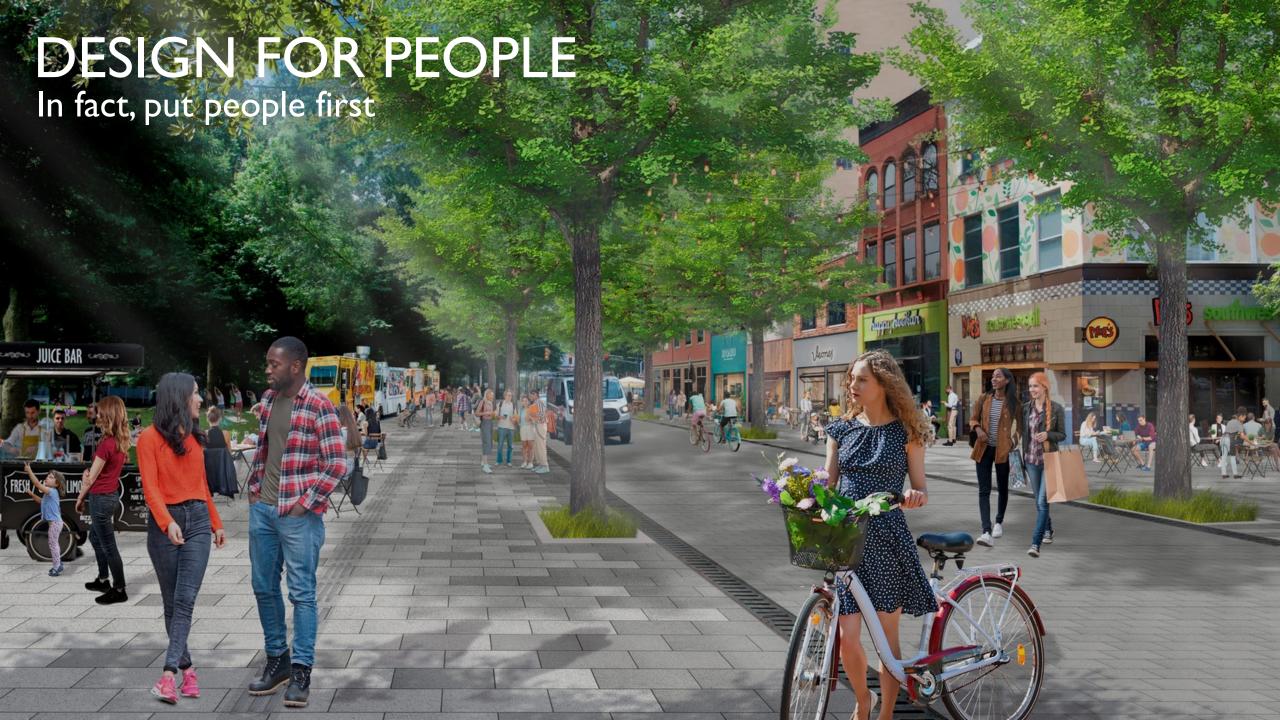
39 responses

Better consider transportation issues in land use planning and regulations

Advocate for new ideas

Work from home





Streets ...

... are typically the largest area of public real estate in our communities.

... are typically the least "designed" parts of our communities.

Streets ...

... communicate the values and priorities of our communities.

... are the first impression of visitors to our communities.

Streets

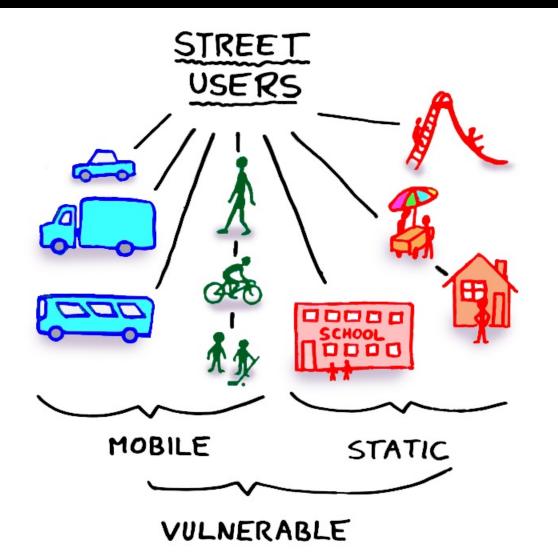
... should be more than a conduit for cars.

... should be where people meet and converge.

... define our communities.

bo you want your streets to **go through** your community, or do you want your streets to **be part of** your community?

- Ernie Boughman









"Capacity" of a Street



Great Streets Approach

People as priority

People who drive cars, trucks, walk, bike, ride transit, and live and work along/near the street

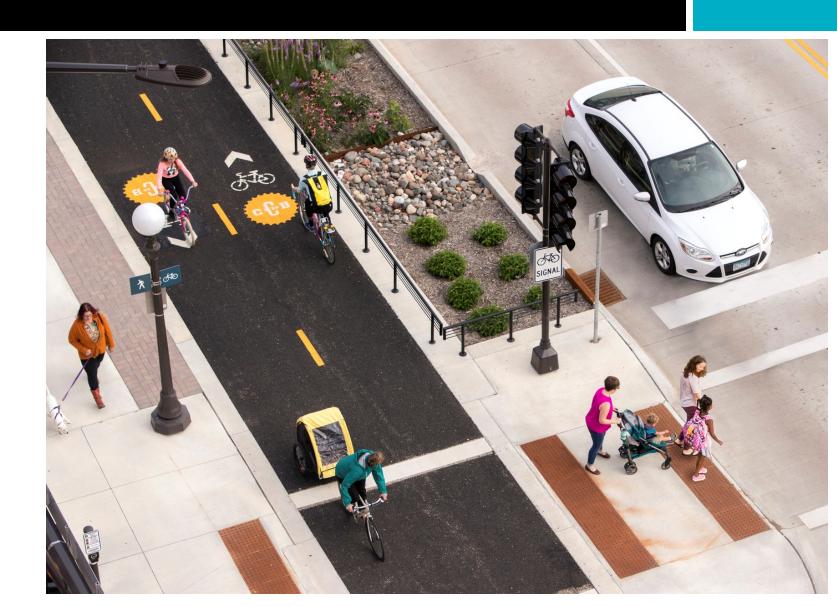
Quality of design

Quality of service for transportation

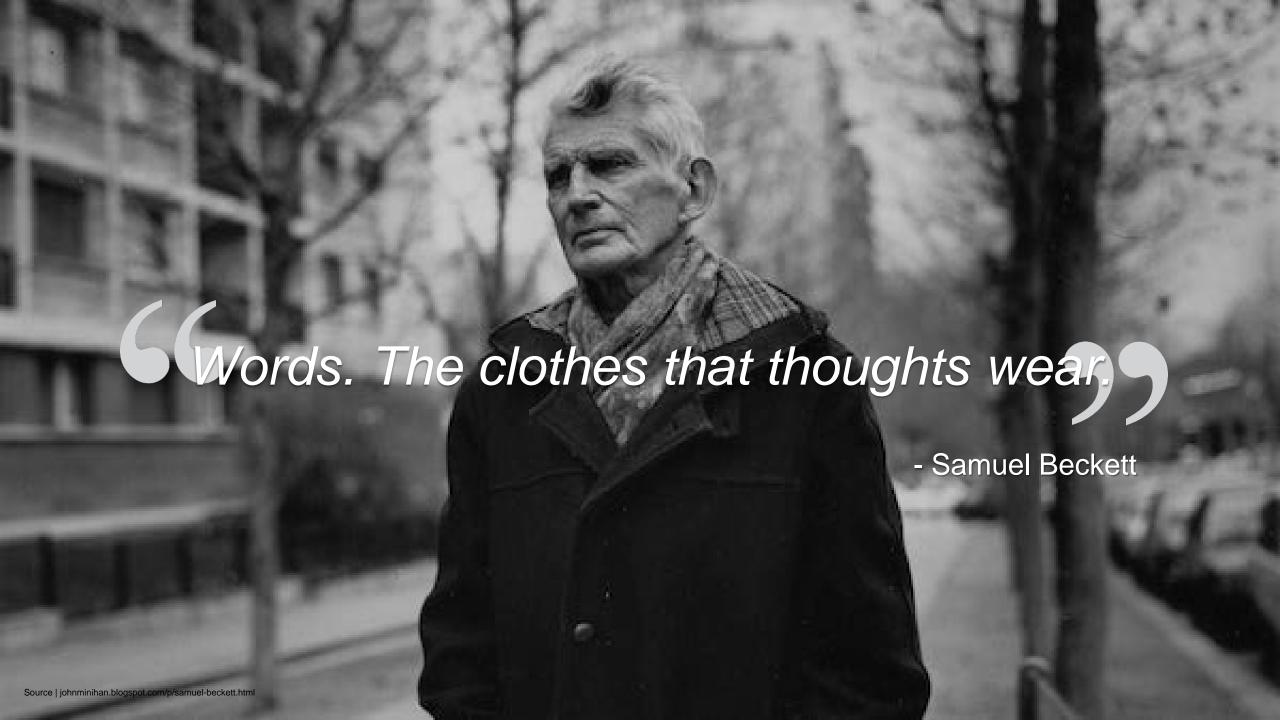
Quality of life for residents and users

Make the trip as enjoyable as the destination









Communication isn't Semantics





Communication isn't Semantics

Improvement Functional Classification

Upgrade Right-of-Way

Traffic Demand Preservation

Efficient Freeway

Accidents Capacity Deficiencies

Capacity Conflict Points

Delay Reliability







Solidify ideas





Set priorities





Have consequences

Shifting Language

From: -

To:

Alternative Transportation

Improvements

Demand

Efficient

Upgrade

Delay

Walking, Biking, Transit (be specific)

Modification or Change

Use or Expected Use

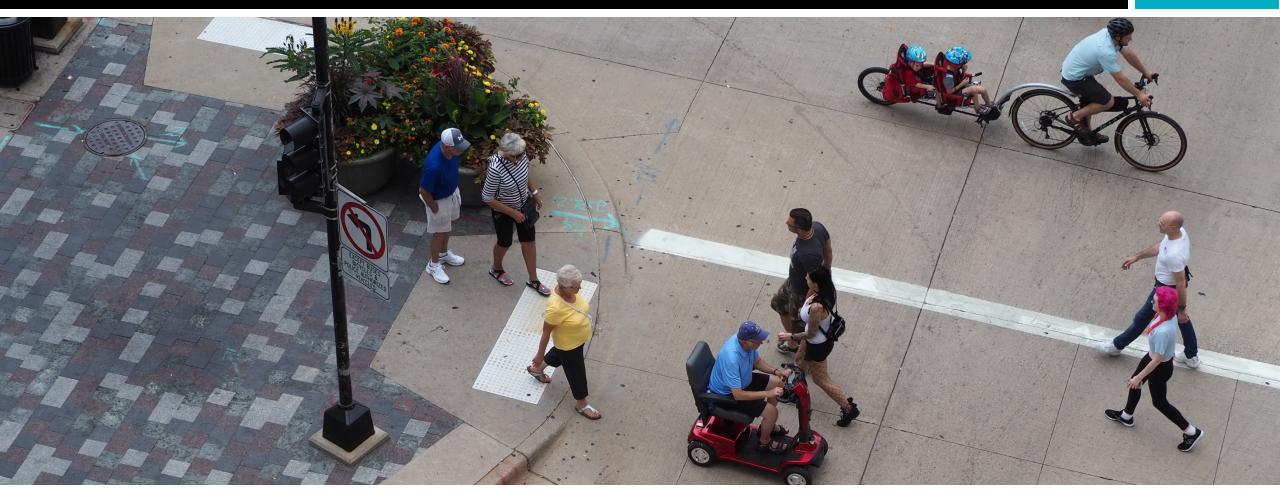
Increase Speeds/Faster

Expansion or Reconstruction

Travel Time



Clear Communication is Critical











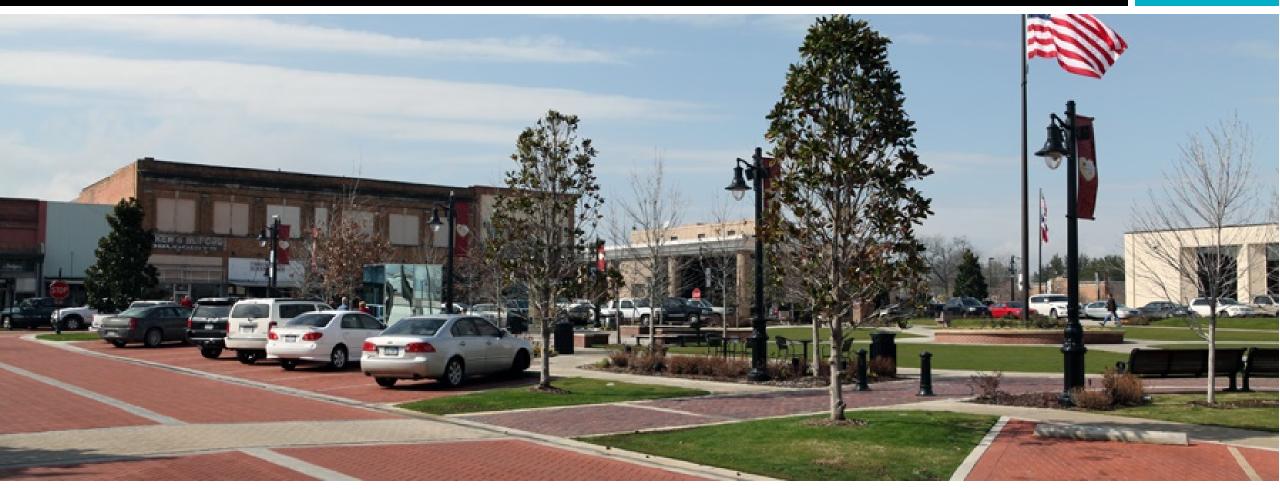


Access and quality, not throughput.





Modes can coexist. It's a matter of priorities.





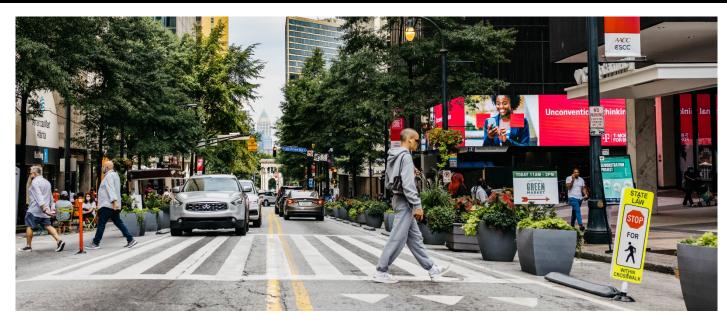
Create spaces for all ages and abilities.





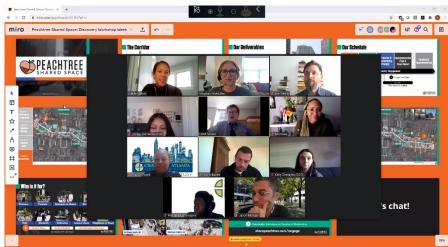
Multiple voices at the table from the beginning.

Convene Community and Technical Experts















Convene Community and Technical Experts



DOWNTOWN

City plans to remove peoplefriendly project on Peachtree Street

Downtown shared lanes experiment was supposed to signal "beginning of a cultural shift"

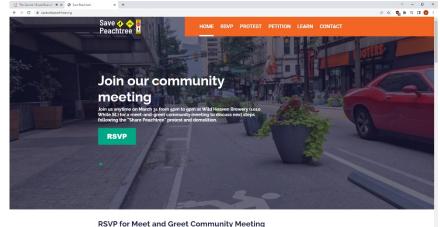
MARCH 10, 2022, 11:29AM JOSH GREEN + 108 COMMENTS



Letters show downtown heavyweights support shared Peachtree lanes

Westin Peachtree Plaza, AmericasMart, office tower owners put support in writing

MARCH 11, 2022, 11:35AM JOSH GREEN ↓ 25 COMMENTS



3/15/22, 12:59 PM

Atlanta advocates protest removal of bike lanes on Peachtree Street

Ξ

The Atlanta Journal-Constitution

Advocates protest removal of project to protect lanes on Peachtree St.



Atlanta's Peachtree Street traffic program to shut down





Convene Community and Technical Experts





















DRINE



















Thank you!

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"Trust every quote you find on the internet."
- Abraham Lincoln

