

BUILDING THRIVING, HEALTHY, & EQUITABLE COMMUNITIES



MARCH 4 & 5, 12, 19, 25 & 26



## Transit, Mobility and Equity: A Way Forward



### **RMLUI 2021**

WESTERN PLACES | WESTERN SPACES

### CLARION

### OTTENJOHNSON ROBINSON NEFF+RAGONETTI



Working together for Colorado's children



Brownstein Hyatt Farber Schreck









A Center of the Lincoln Institute of Land Policy









DOWNTOWN COLORADO inc.











## OTTENJOHNSON ROBINSON NEFF+RAGONETTI





Susan A. Wood Regional Transportation Authority (RTD)

### Panelists

### **Christof Spieler**

**Huitt-Zollars** 

#### **Beth Osborne**

Transportation for America

### **Eulois Cleckley**

Denver Department of Transportation and Infrastructure











...urban design is **not neutral**. It either perpetuates or reduces social inequities within cities. And that is very hard for people to wrap their minds around because urbanists are taught that they are good, that they make communities better, and that they are the bringers of solutions."

Jay PitterGJay\_Pitter

## Railroad infrastructure has placed disproportionate impacts on Black and Hispanic neighborhoods.



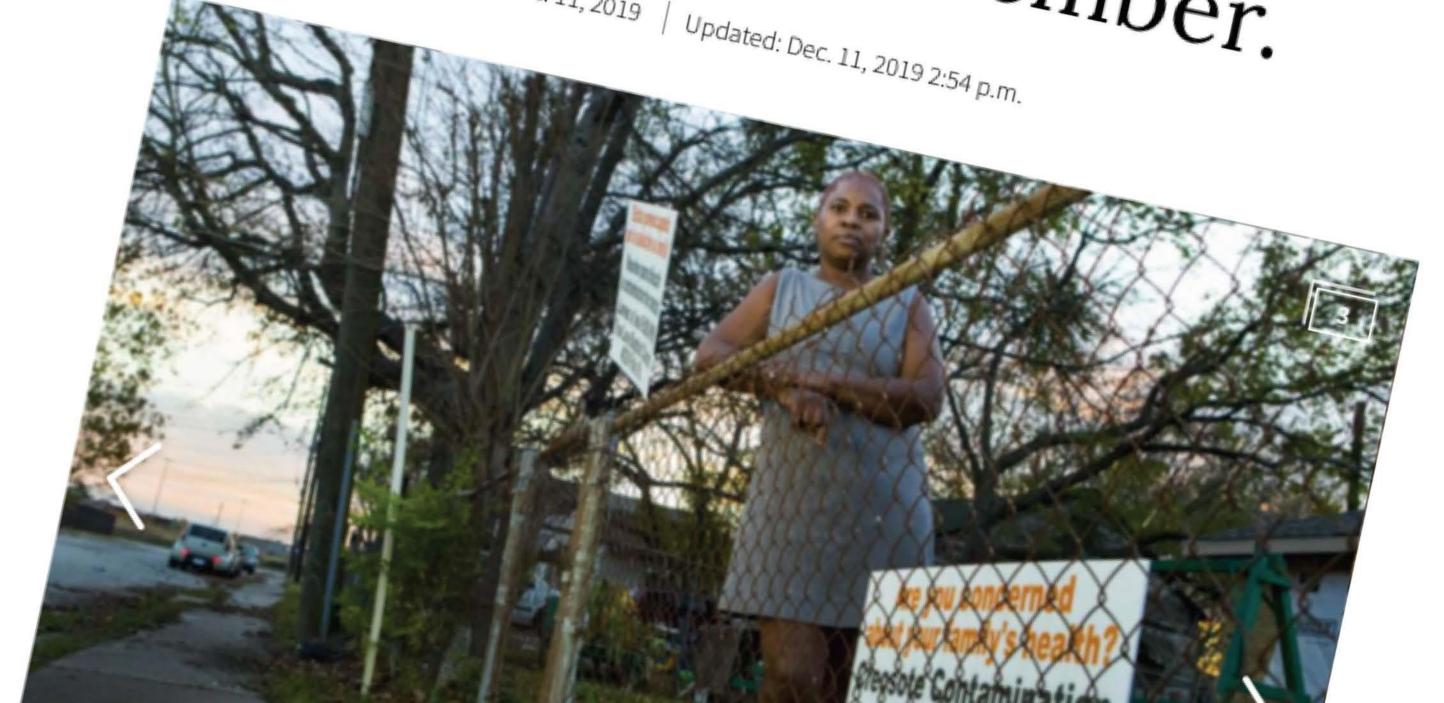


### BUSINESS

Texas found a cancer cluster in Houston in August. Residents didn't find out until December.



Erin Douglas | Dec. 11, 2019 | Updated: Dec. 11, 2019 2:54 p.m.

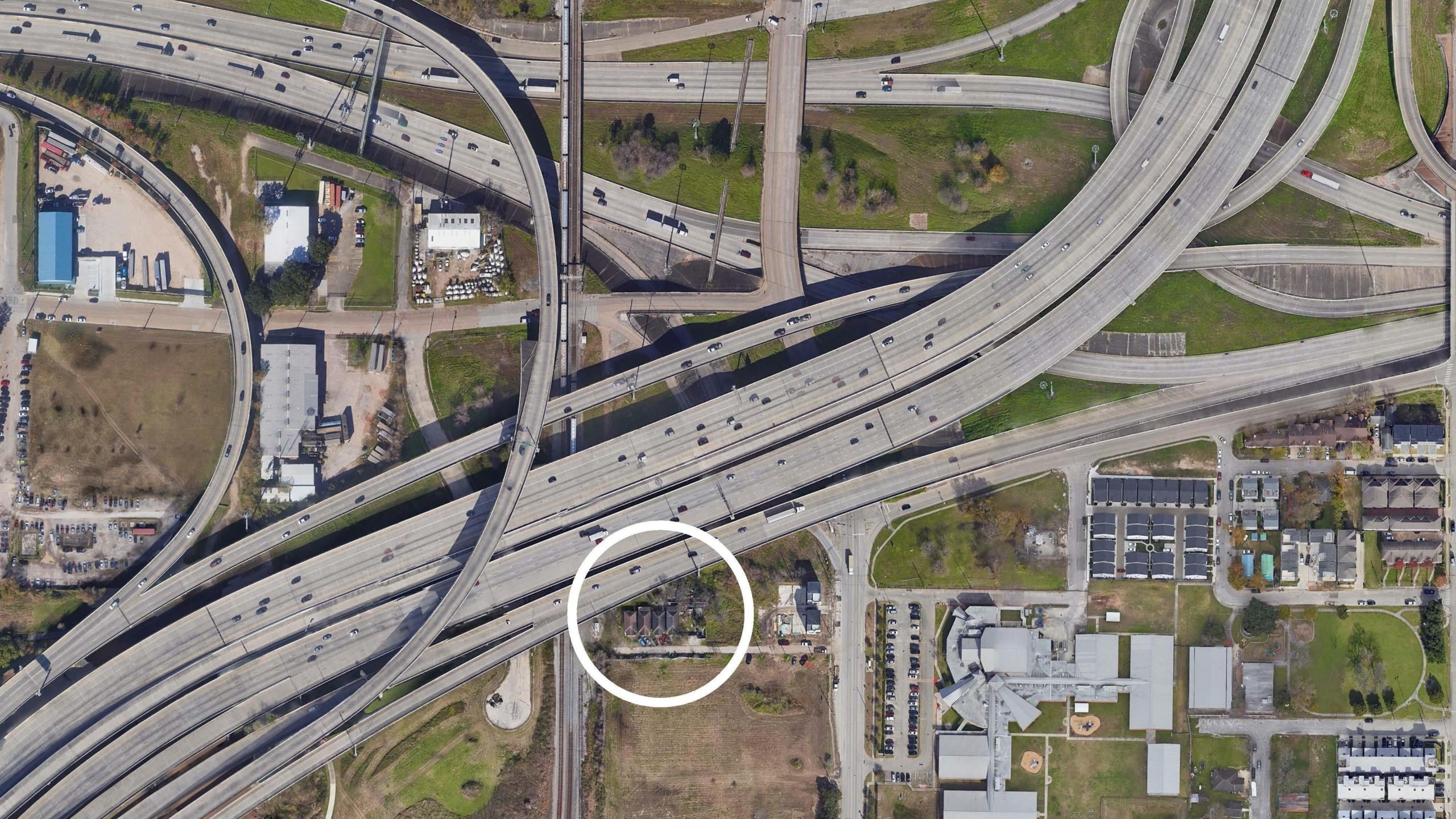


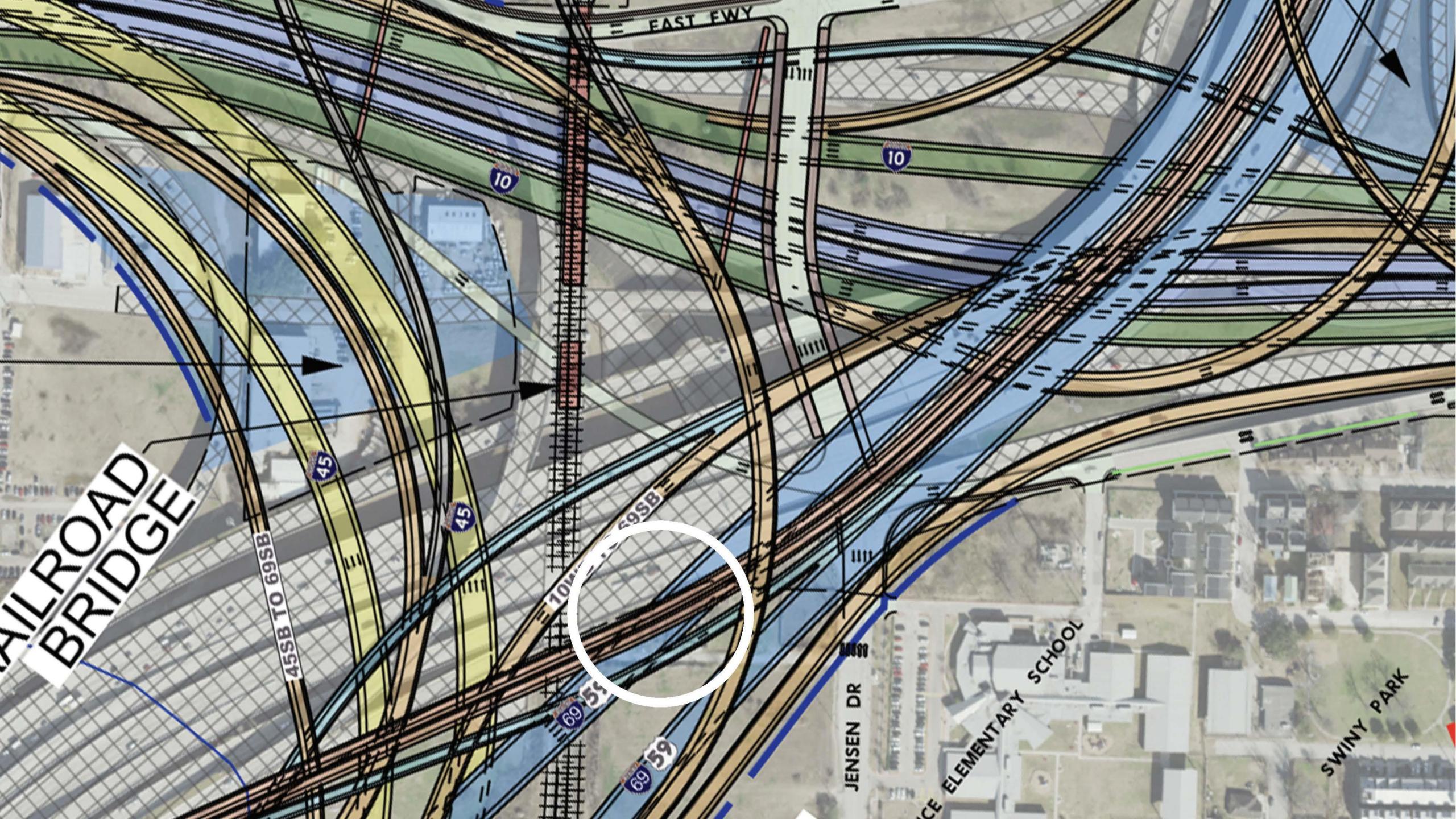
# Highways were built through Black and Hispanic neighborhoods to enable White suburban commuters to pass through quickly.



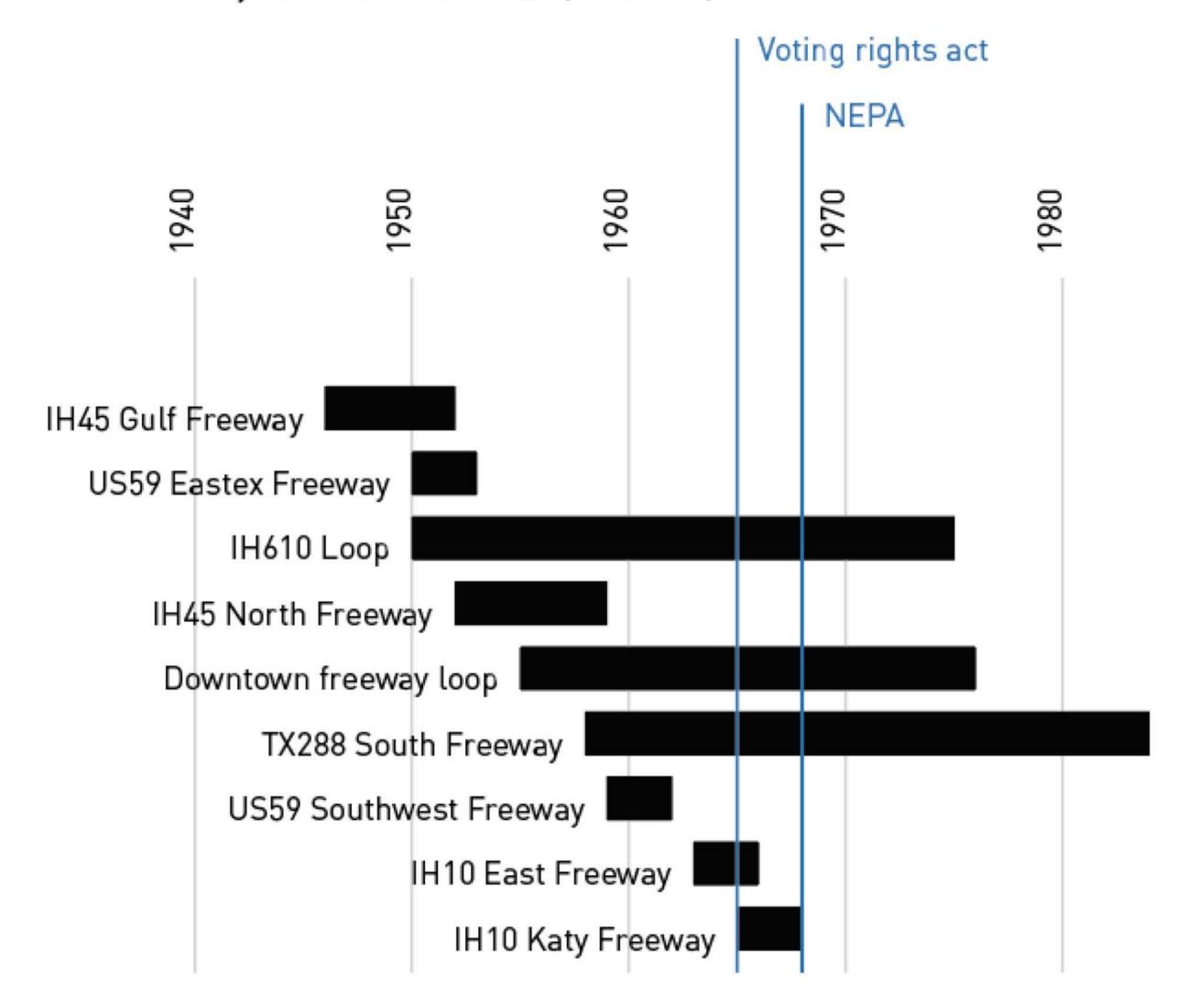






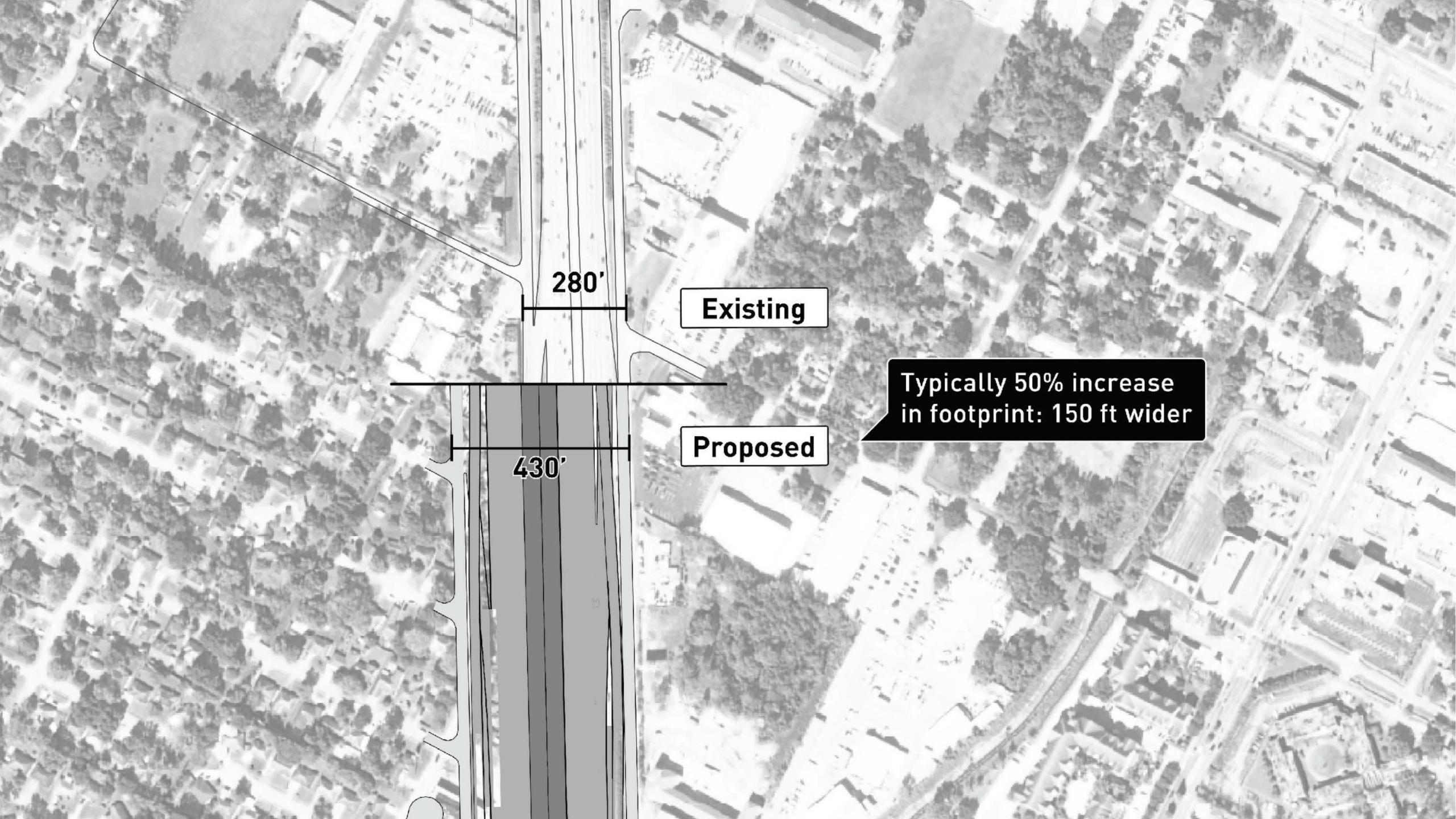


#### Houston Freeway Construction Timeline (inside 610)





Cons. truction Of 0



### Traffic enforcement has long been used to harass people of color.







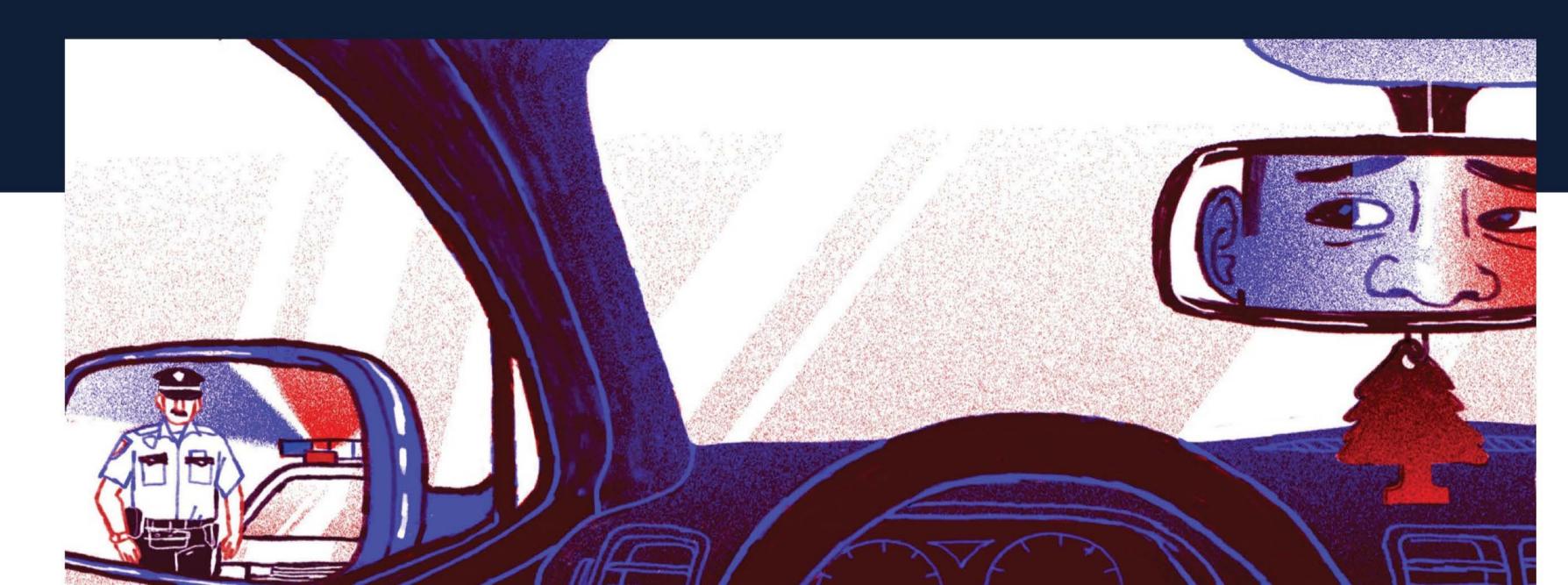




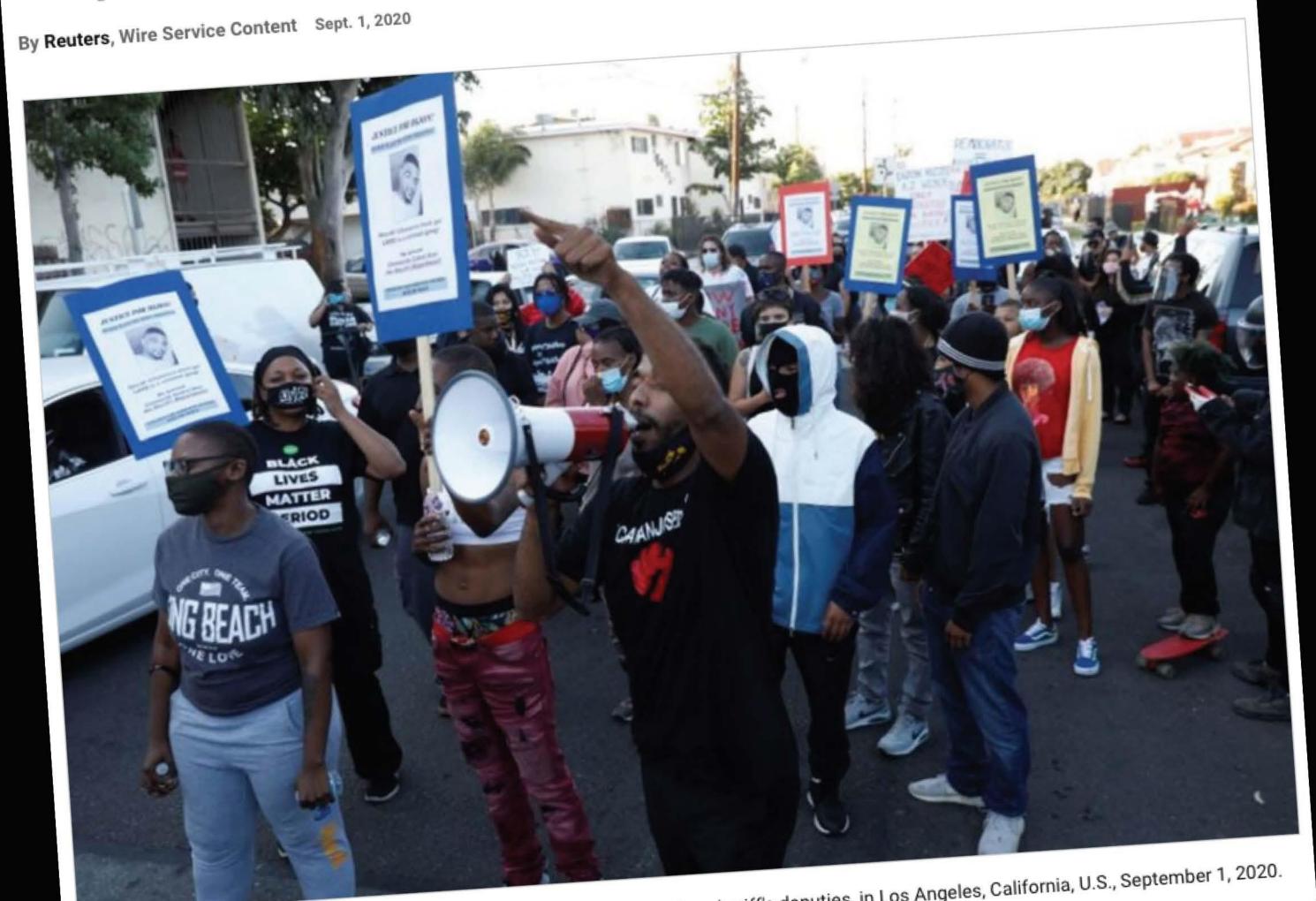
& NEWS

### Inside 100 million police traffic stops: New evidence of racial bias

Stanford researchers found that black and Latino drivers were stopped more often than white drivers, based on less evidence of wrongdoing.



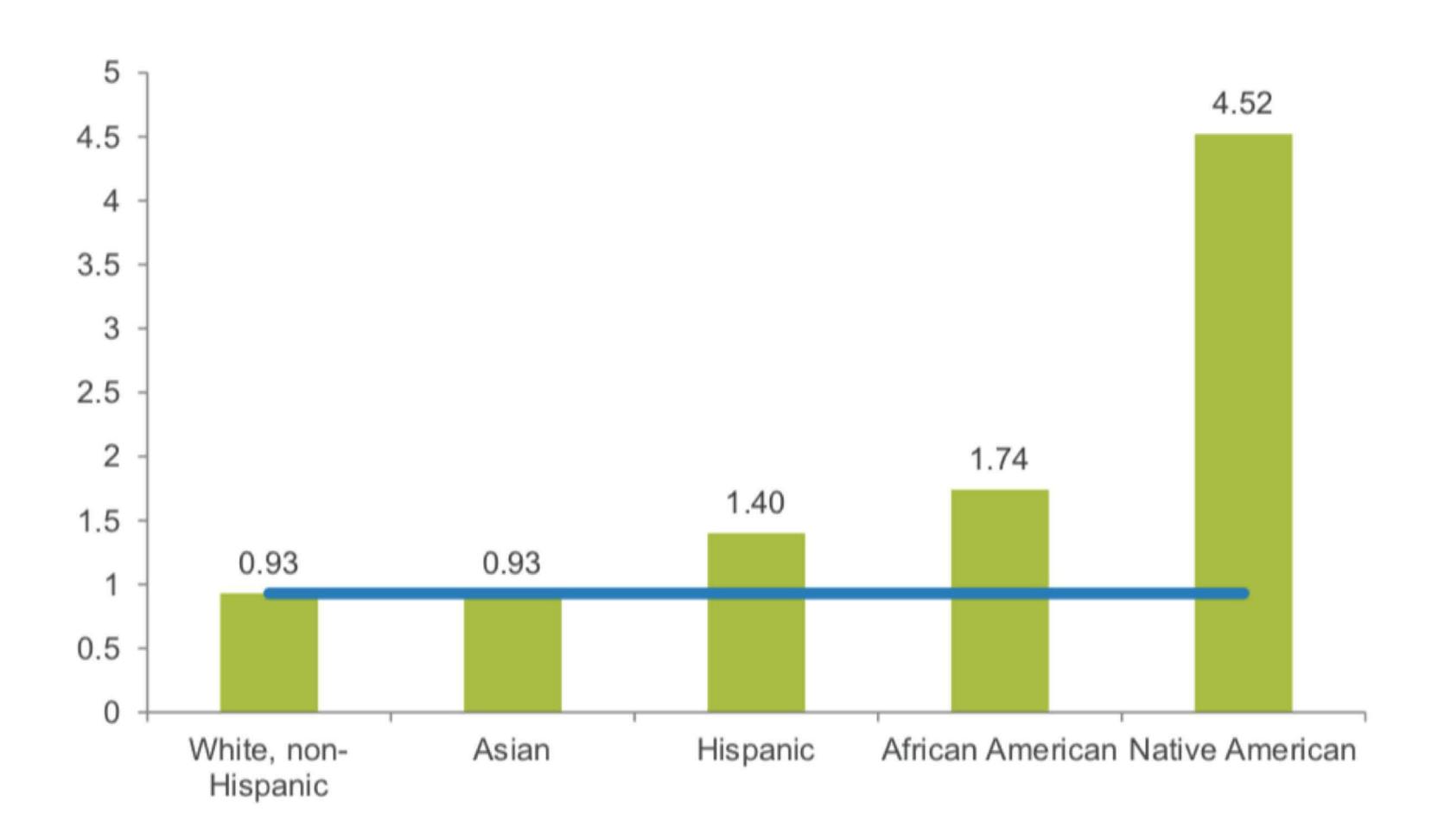
### L.A. Sheriff's Deputies Fatally Shoot Black Man After Suspected Bike Violation



Demonstrators protest against the shooting of Dijon Kizzee by Los Angeles sheriff's deputies, in Los Angeles, California, U.S., September 1, 2020. REUTERS/Patrick T. Fallon @ REUTERS

## The lack of safe pedestrian infrastructure is killing Blacks, Hispanics, and Native Americans.

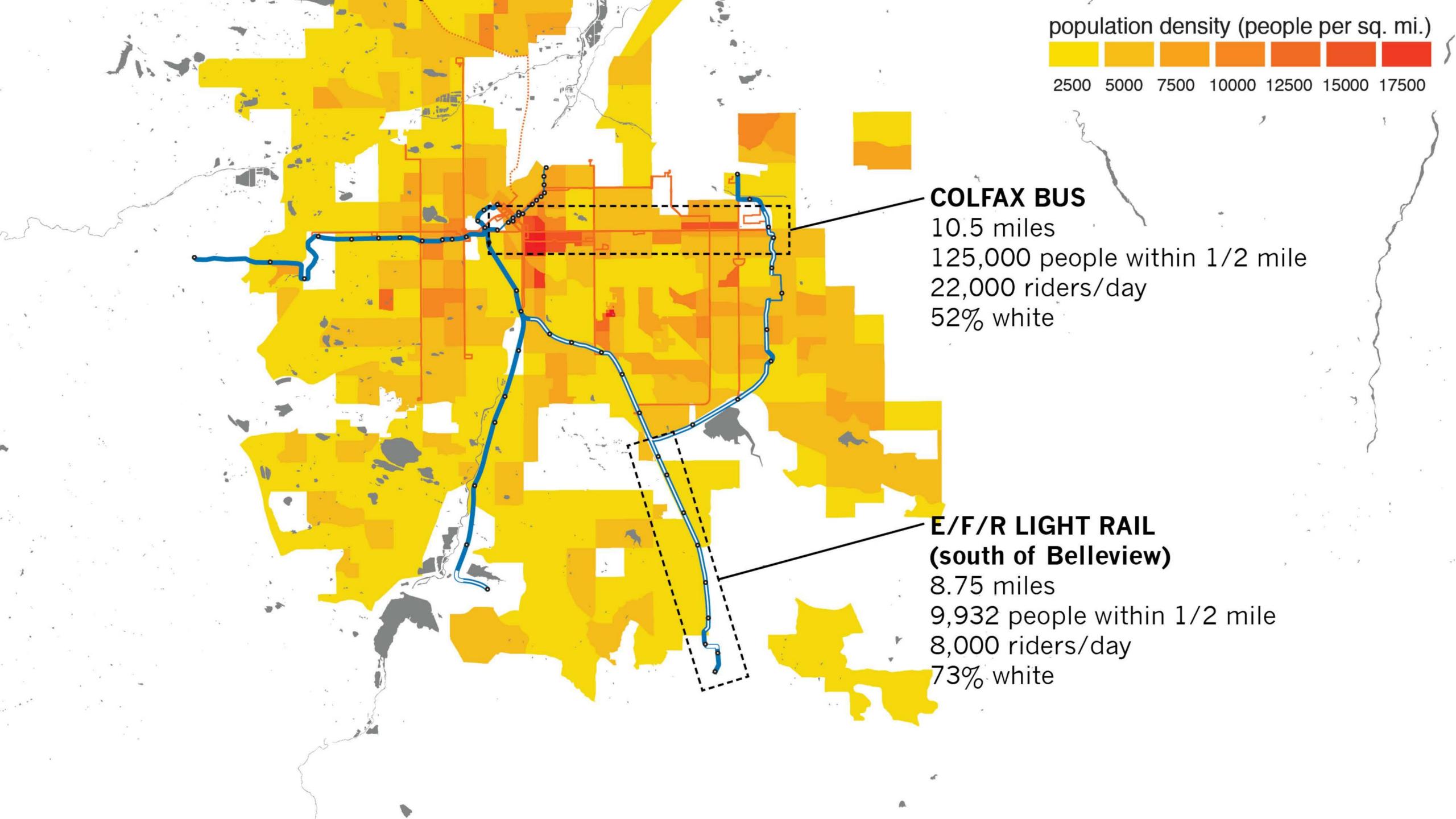
FIGURE 6
Annual pedestrian fatalities per 100,000 people by race/ethnicity (2005-2014)



Many agencies have essentially built and operated two systems with different standards for amenities, service levels and levels of subsidy.





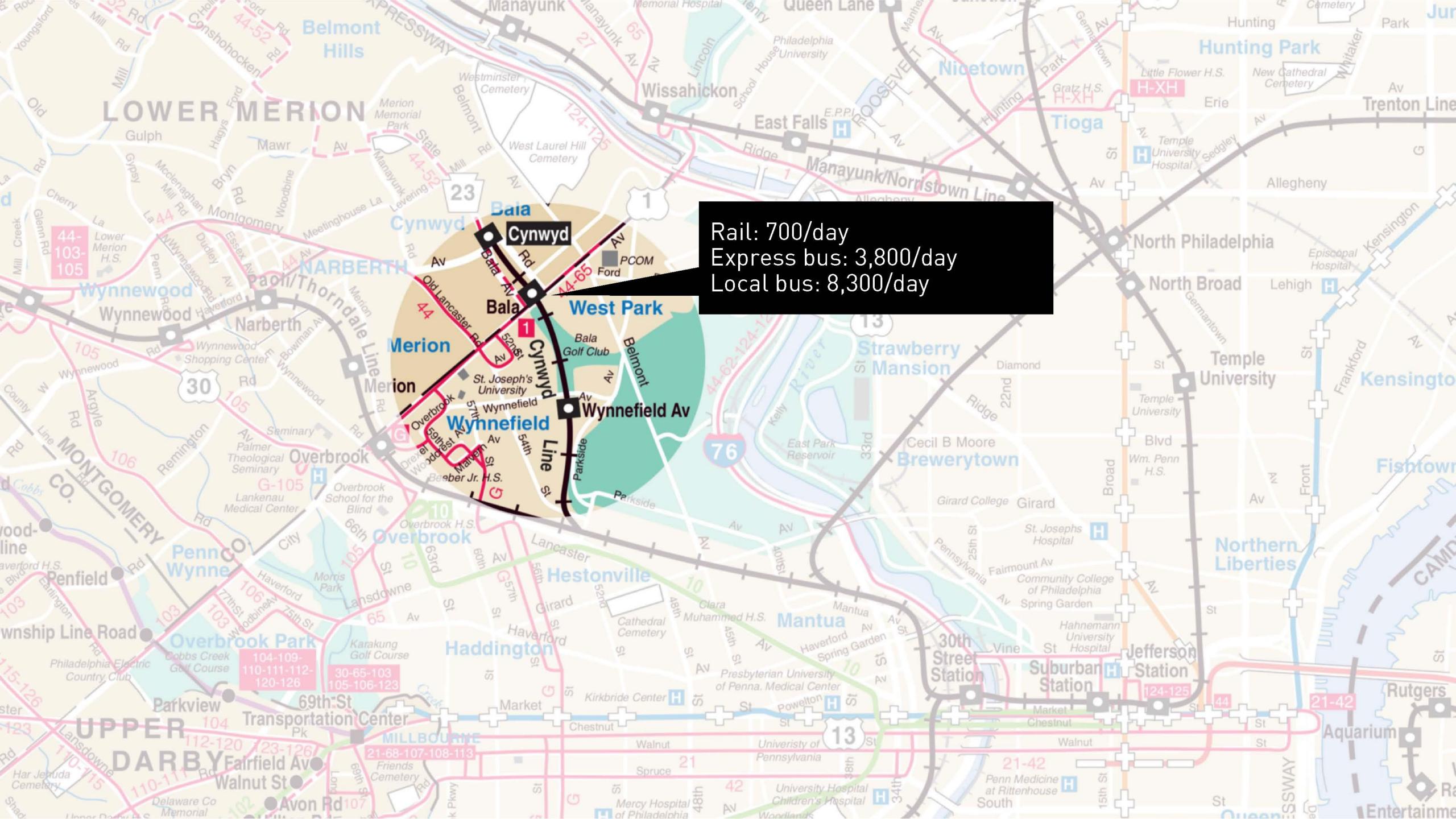




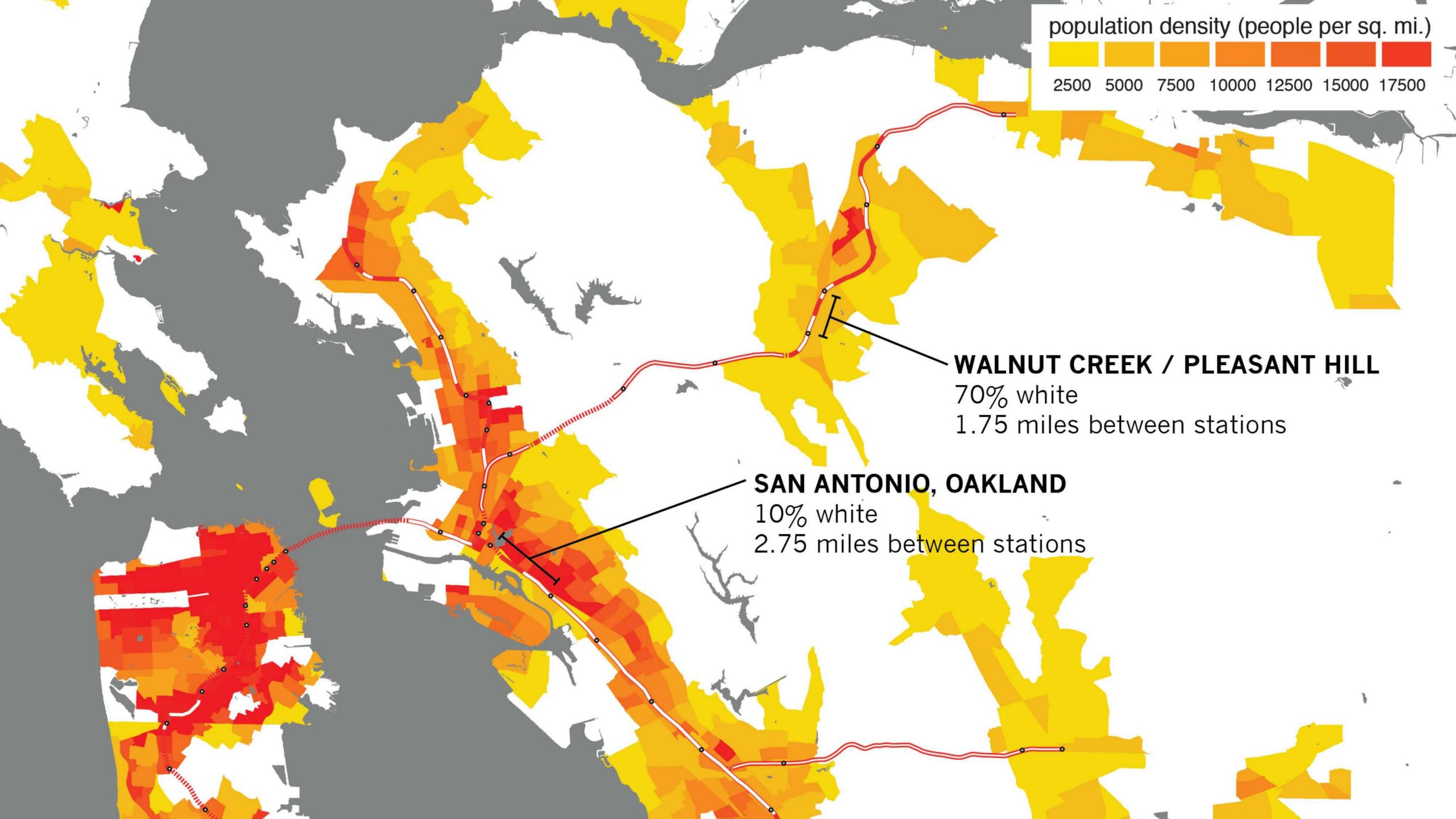
	Productivity				Service Quality			
	Boardings per Trip	Boardings per Revenue Hour	Subsidy per Boarding	Passenger Miles per Platform Mile	Passenger Load	On-Time Performance	Customer Complaints	Operated as Scheduled
ST Express  FAST, FREQUENT REGIONAL BUS SERVICE (SEE PAGE 15)	analysis of e	egularly and report ach route's perforn ets are adjusted acc	nance and a peer o		Standing passengers not to exceed 1.23 - 1.5 times total seats and limit standing time to 30 minutes	85% of trips arrive within five minutes of schedule, never early	Less than 15 complaints per 100,000 boardings	99.8% of scheduled trips operated
Sounder HIGH CAPACITY COMMUTER RAIL (SEE PAGE 19)	<ul> <li>Monitored regularly and reported annually with a peer comparison analysis</li> <li>Annual targets are adjusted accordingly</li> </ul>				Most riders have a seat, otherwise limit standing time to 30 minutes	95% of trips arrive at route terminals within seven minutes of schedule	Less than 15 complaints per 100,000 boardings	99.5% of scheduled trips operated
Tacoma Link LIGHT RAIL WITH MULTI-MODAL CONNECTIONS (SEE PAGE 21)	<ul> <li>Monitored regularly and reported annually with a comparative analysis by time of day and a peer comparison analysis</li> <li>Annual targets are adjusted accordingly</li> </ul>				Standing passengers permitted up to 1.86 times number of seats	98.5% of trips depart/arrive route terminals within three minutes of schedule	Less than 15 complaints per 100,000 boardings	98.5% of scheduled trips operated
Link  FREQUENT, RELIABLE HIGH-CAPACITY LIGHT RAIL (SEE PAGE 24)	analysis by t	egularly and report me of day and a po ets are adjusted acc	eer comparison an	,	Standing passengers not to exceed two times number of seats and limit standing time to 30 minutes	90% of headways within two minutes of schedule	Less than 15 complaints per 100,000 boardings	98.5% of scheduled trips operated











## We manage, operate, and police transportation systems to promote "white comfort."

"I think the entire field of transportation and urban planning is a host to white comfort."

-Dr. Destiny Thomas The Thrivance Group @DrDesThePlanner

### **Cities**

### 'Addicts, crooks, thieves': the campaign to kill Baltimore's light rail

Residents of a progressive and wealthy county claim public transport has brought city crimes to their area - and are fighting to have it closed



▲ Kim Hahn wants a nearby light rail stop closed after she and her husband, Chris, found an intruder in their home in Glen Burnie, Maryland, last year. Photograph: JM Giordano/The Guardian



### Lucia Graves in Glen Burnie, Maryland

✓ @lucia\_graves
Wed 22 Aug 2018 06.30 EDT











New York Police Department Transit Bureau police officers at the 125th Street station. Hiroko Masuike/The New York Times

Subway crime remains at record-low levels.

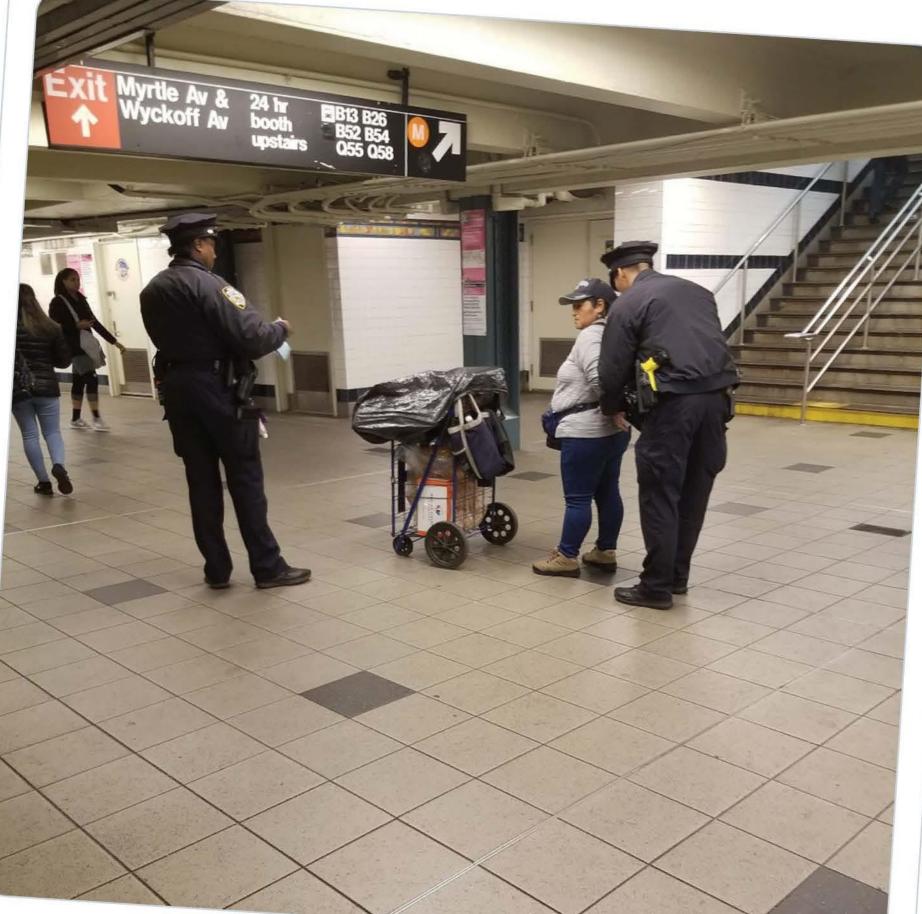
So it was confusing that the Metropolitan Transportation Authority board voted this week to hire 500 additional police officers to patrol the subway and other parts of the transit system, diverting an estimated \$250 million over four years in precious funds that



### @JuliaCarmel\_ @RLEspinal @jamaale @JumaaneWilliams

Photo of another Churro Vendor in Handcuffs, at Myrtle

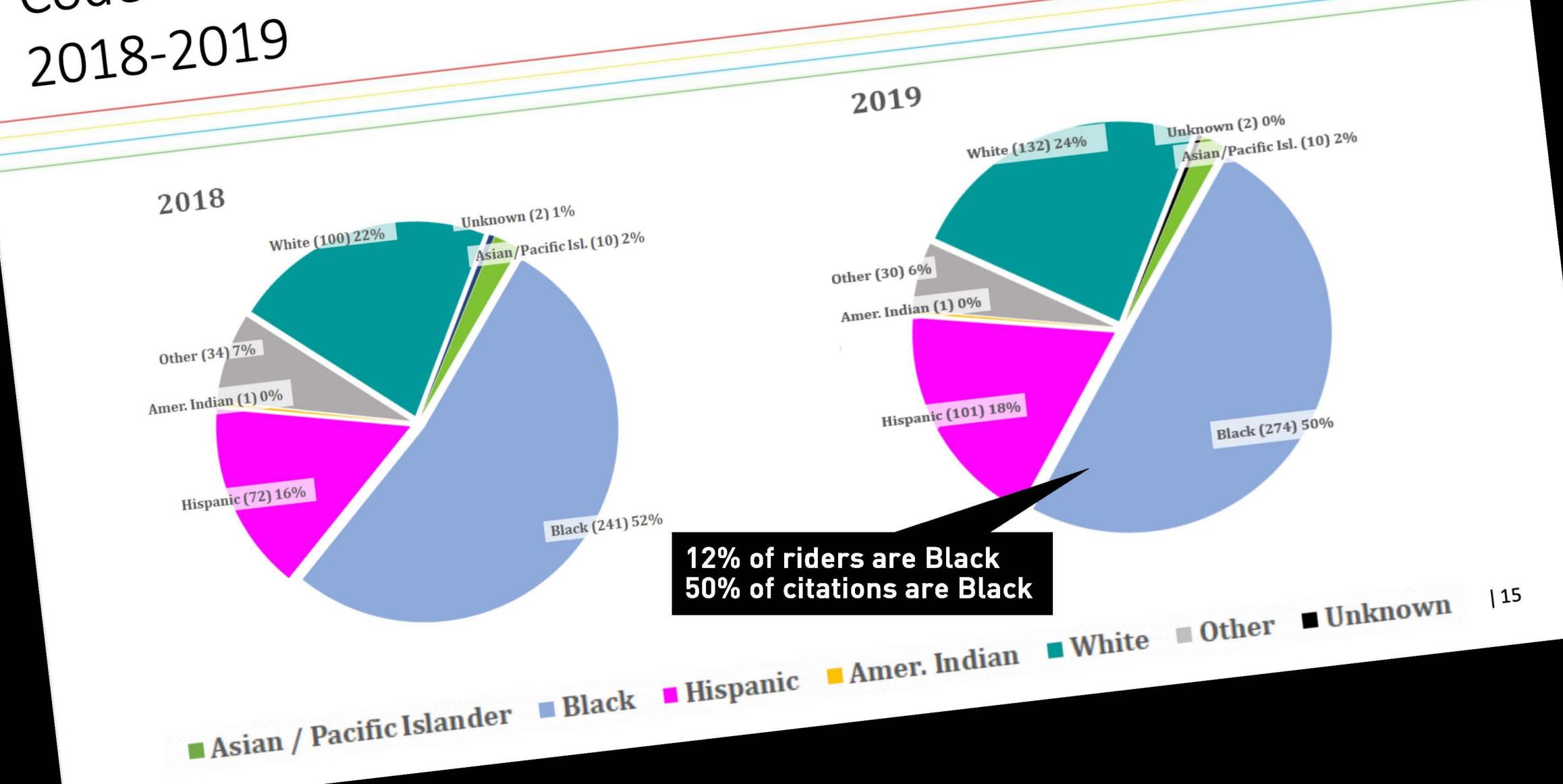
Photo taken at 11:40 a.m. this morning, minutes before rally held at Broadway Junction



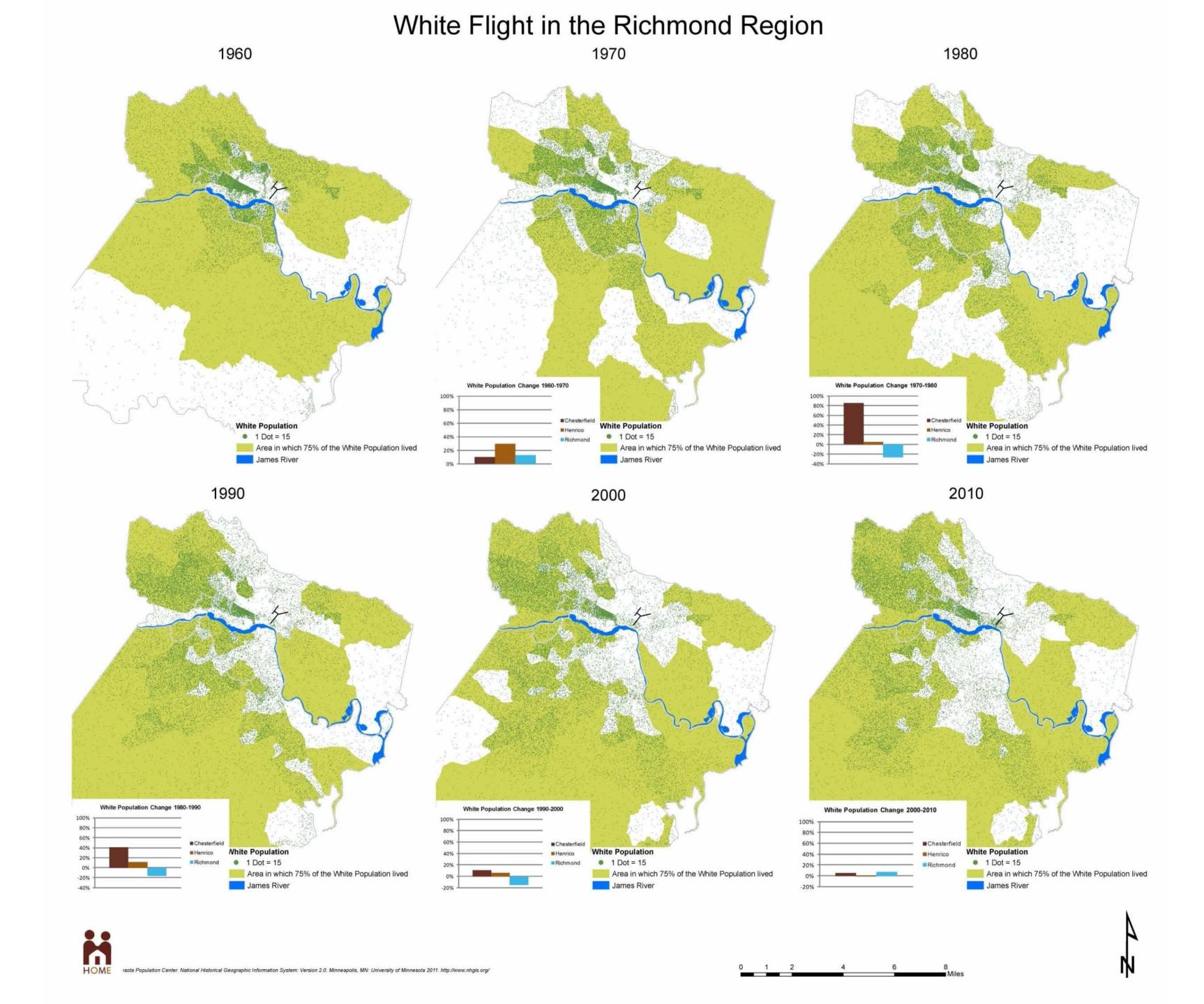
12:38 PM · Nov 11, 2019

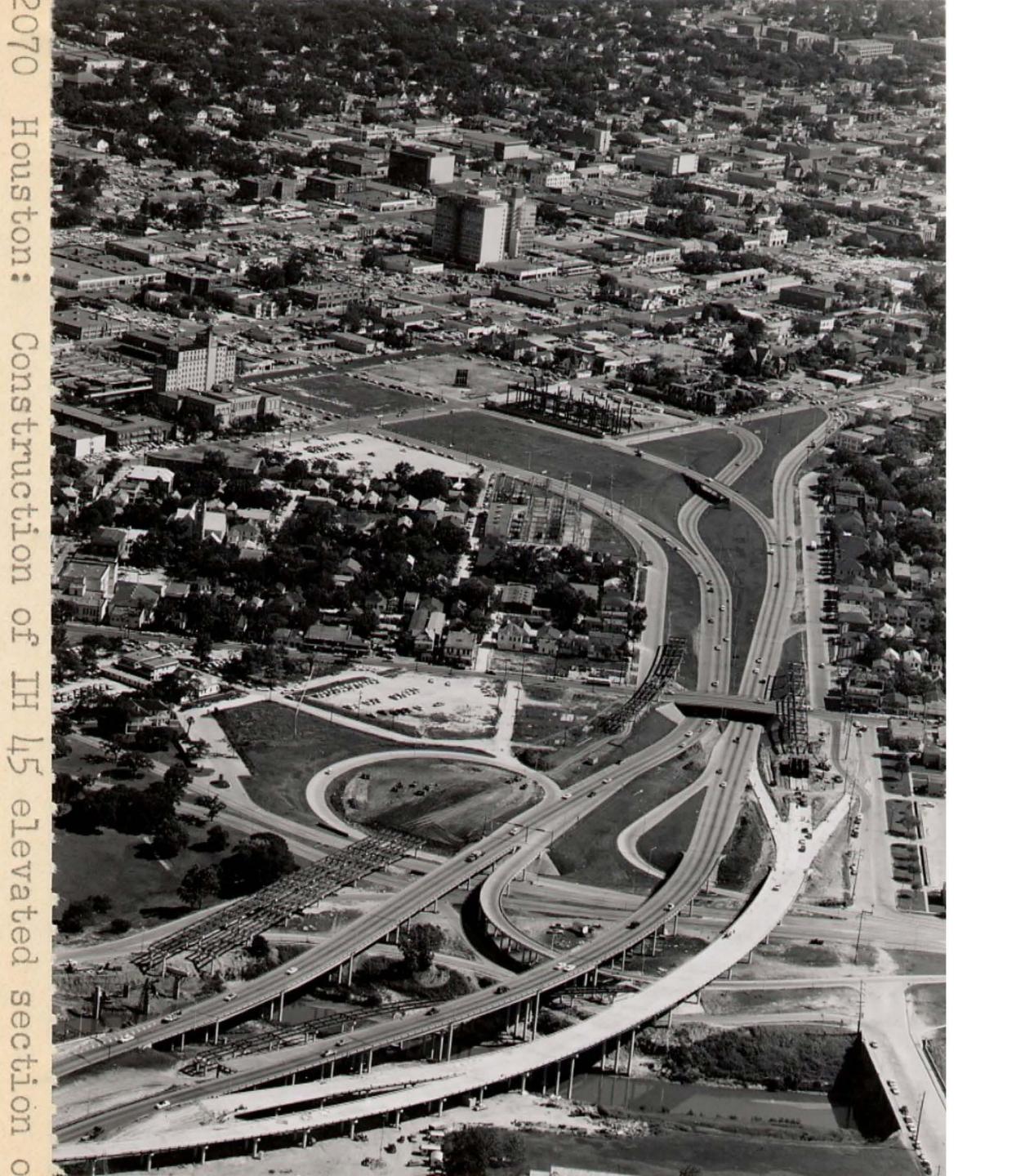
### Code of Conduct Enforcement by Race





The era of the re-segregationist response to the civil rights movement has shaped how we think about cities and how we talk about transportation.









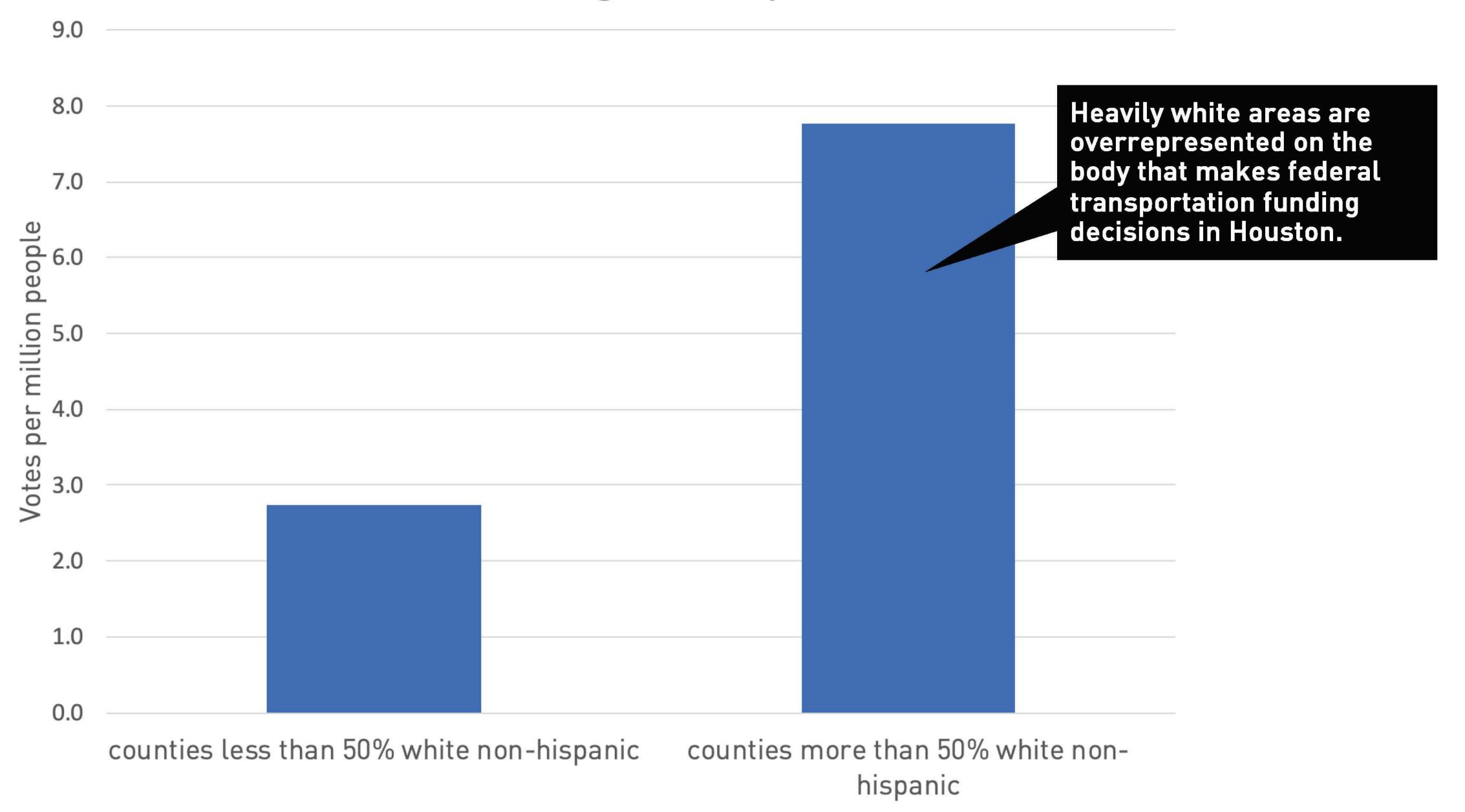


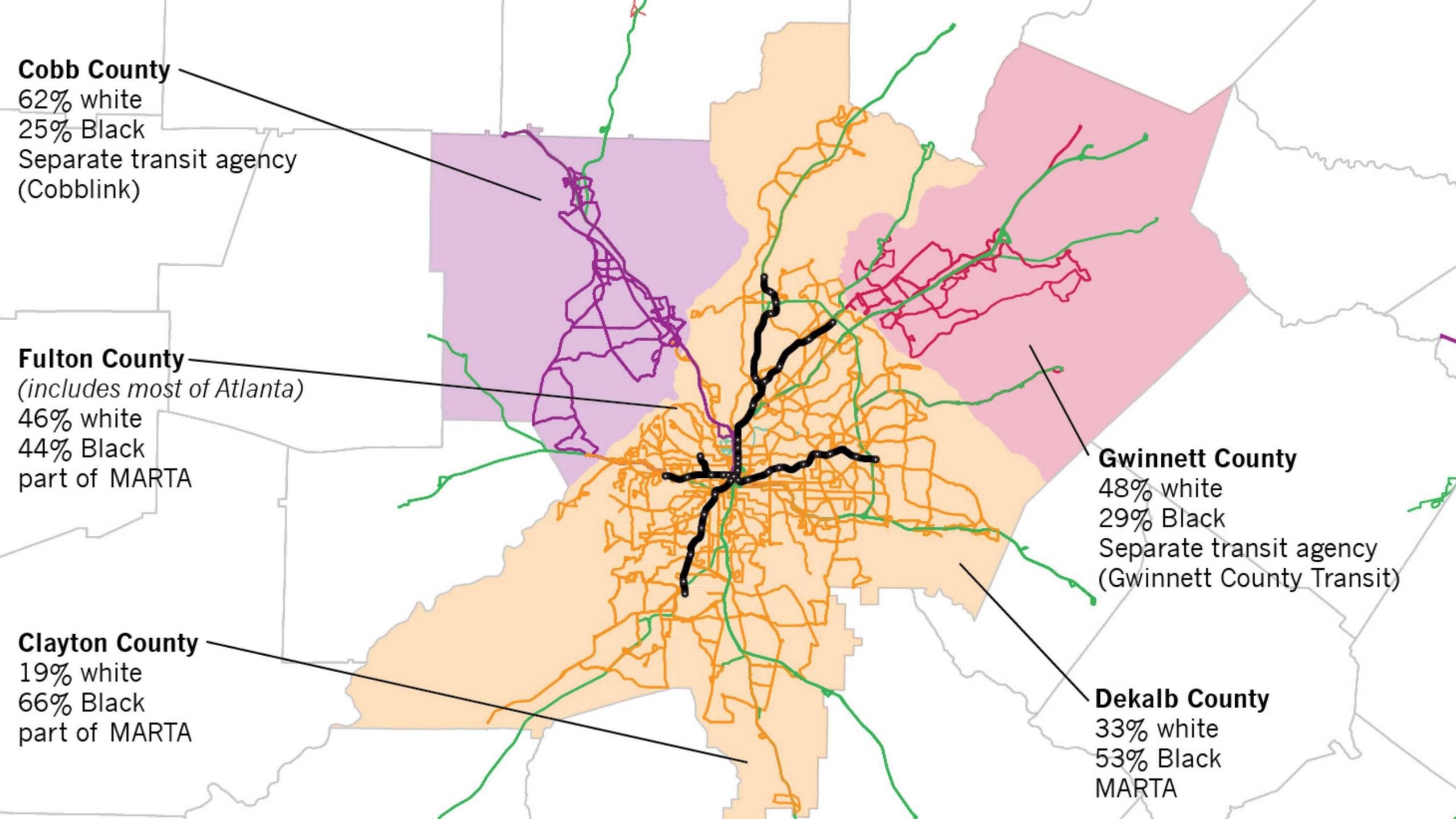
# Transit systems have racism built into their schedules, their fleets, their route structures and their infrastructure.

...when you look at transportation or you look at built environments, what you realize very quickly is that the systems are designed exactly how the people in power wanted them to be designed, and they are working."

-Tamika Butler @TamikaButler

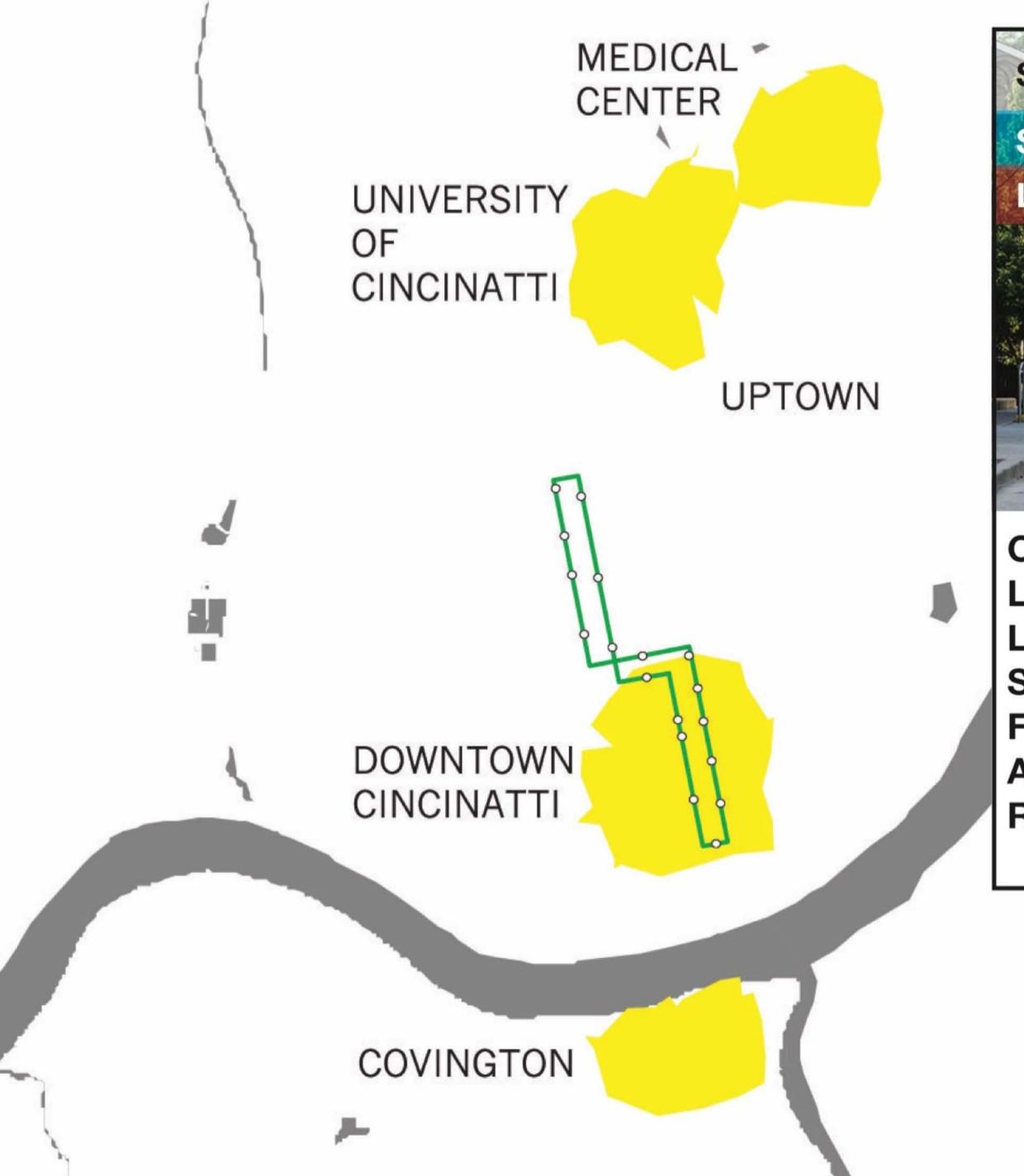
### H-GAC TPC Voting Power by Race





Every transit line, every bit of infrastructure, every bus that runs down a street and every train that runs down a track does so in pursuit of a motive.







**Opened:** 2016

Last Expanded: N/A

Length: 2 miles

Stations: 9

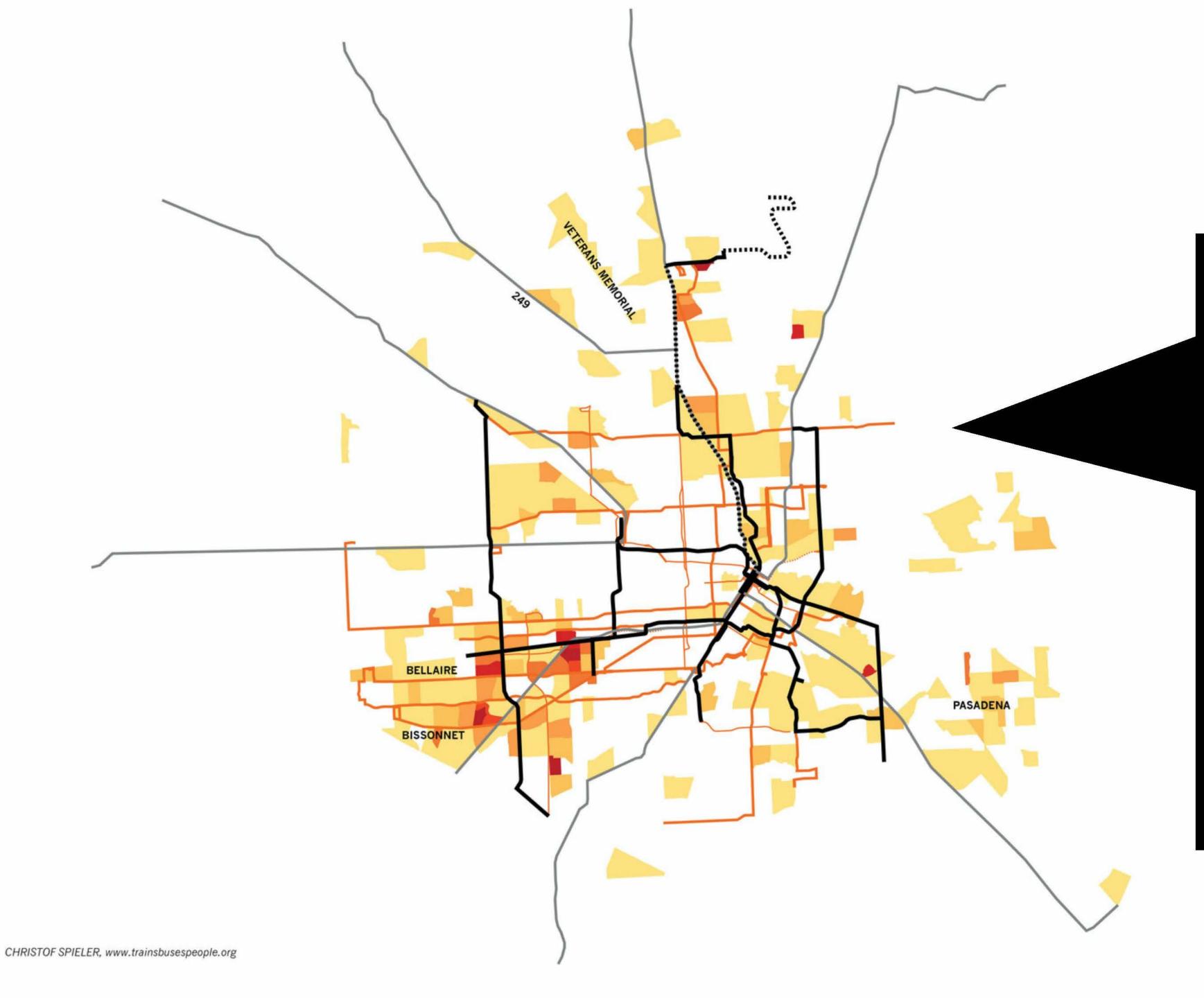
Frequency: 12-15 min

Avg weekday ridership: 1,300

Ridership per mile: 650



Transportation can absolutely be a powerful tools for equity, opening up a metropolitan area — and its jobs and opportunities — for all of its residents.



### METRONext:

Rail+BRT link Black and Hispanic neighborhoods to jobs and education

BOOST improves local bus routes with shelters, service, speed, reliability

Regional express service integrated with local network for reverse commutes and faster trips

Accessibility improvements across the network

### To build more equitable networks, we need equitable decision-making.

# To build more equitable networks, we in the transit world have to be thoughtful about what we do.

We can't rely on rules to get equity.

FTA C 4702.1B Chap. IV-11

subject to this requirement are responsible for complying with the DOT Title VI regulations which prohibit disparate impact discrimination, and therefore should review their policies and practices to ensure their service and fare changes do not result in disparate impacts on the basis of race, color, or national origin.

To further ensure compliance with 49 CFR Section 21.5(b)(2), 49 CFR Section 21.5(b)(7), and Appendix C to 49 CFR part 21, all providers of public transportation to which this Section applies shall develop written procedures consistent with this Section to evaluate, prior to implementation, any and all service changes that exceed the transit provider's major service change threshold, as well as all fare changes, to determine whether those changes will have a discriminatory impact based on race, color, or national origin. The written procedures and results of service and/or fare equity analyses shall be included in the transit provider's Title VI Program.

One purpose of conducting service and fare equity analyses prior to implementing service and/or fare changes is to determine whether the planned changes will have a disparate impact on the basis of race, color, or national origin.

is changed, not of existing inequity

pical measure of disparate impact involves a comparison between the proportion of sons in the protected class who are adversely affected by the service or fare change and Equity analysis when service ortion of persons not in the protected class who are adversely affected. The on population for a statistical measure of disparate impact is all persons who are fected by the service or fare changes or who could possibly be affected by the service

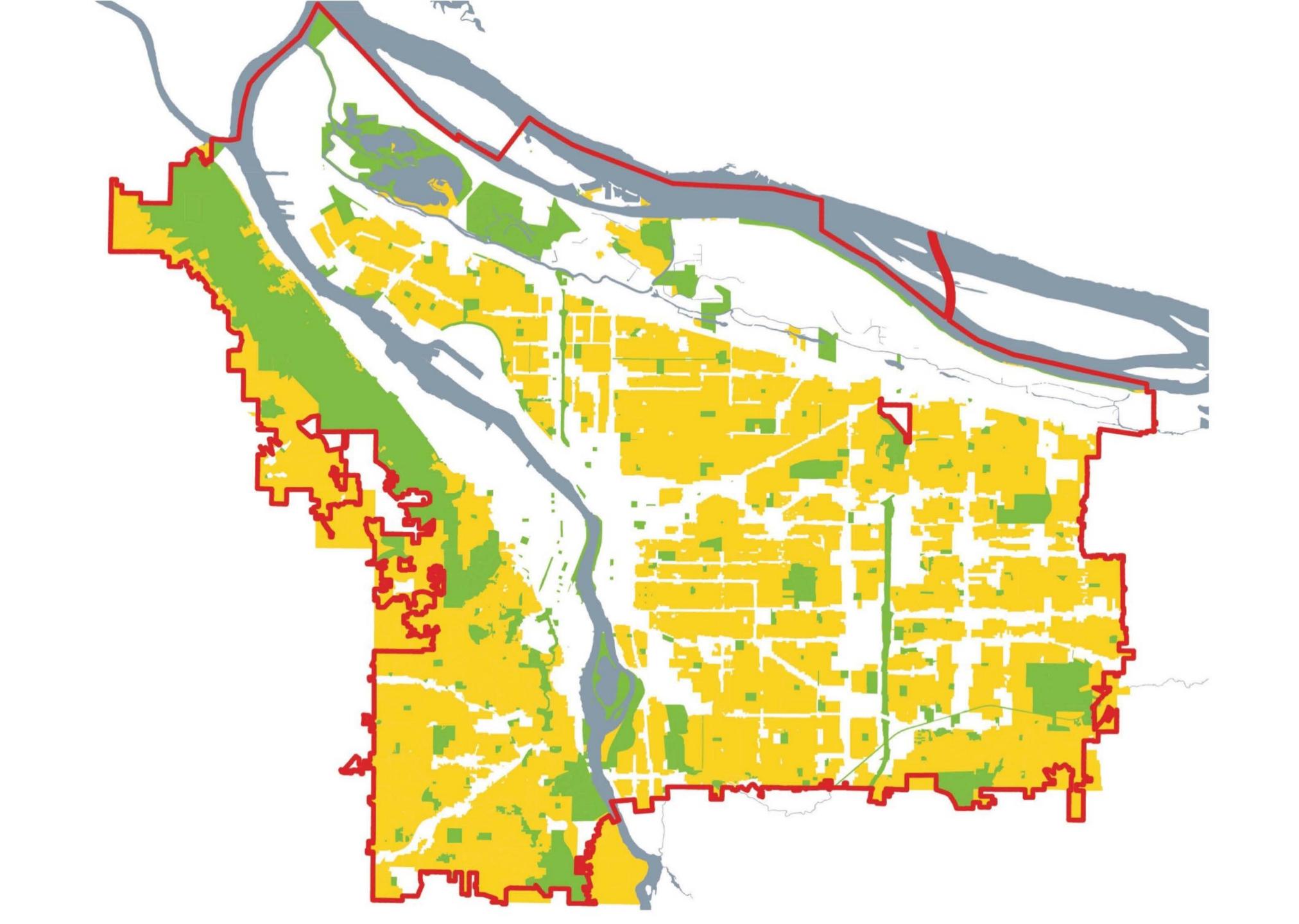
> or fare change (e.g., potential passengers). When a transit provider uses ridership as the comparison population, the transit provider will compare the ridership of the affected route(s) with the ridership of the system. For example, if the ridership of affected route(s) is 60 percent minority and the system ridership is 40 percent minority, then changes to the route(s)

Table 110: MDOT MTA Major Service Change Policies

	Mode	Major Service Change Policy
C	ore Bus	<ul> <li>Alteration of a route's revenue miles or revenue hours on a given service day by 25 percent or more, including establishment or abandonment of a route.</li> <li>Change to the span of service on a route by 90 minutes or more on a given service day.</li> </ul>
Measured by renot quality of se		<ul> <li>Alteration of a route's revenue miles or revenue hours on a given service day by 25 percent or more, including establishment or abandonment of a route.</li> <li>Change to the span of service on a route by 90 minutes or more on a given service day.</li> <li>Elimination of service to a stop, unless there is another stop within three miles of its location.</li> <li>Establishment of a new stop.</li> </ul>
M	ARC	<ul> <li>Alteration of a line's revenue miles or revenue hours on a given service day by 25 percent or more, including establishment or abandonment of a line.</li> <li>Change to the span of service on a line by 90 minutes or more on a given service day.</li> <li>Change to the number of stops at a station on a given service day by 25 percent or more.</li> <li>Establishment or abandonment of a station.</li> </ul>
Li	ght RailLink	Alteration of a line's revenue miles or revenue hours on a given service day by 25  percent or more including establishment or abandonment of a line.

### We have to reject "we've always done it that way" as an answer.

### We have to recognize that transportation fits into larger systems.



### We have to be willing to call out decision-makers.

We have to to listen to all riders.

### We all have to be willing to talk about race.





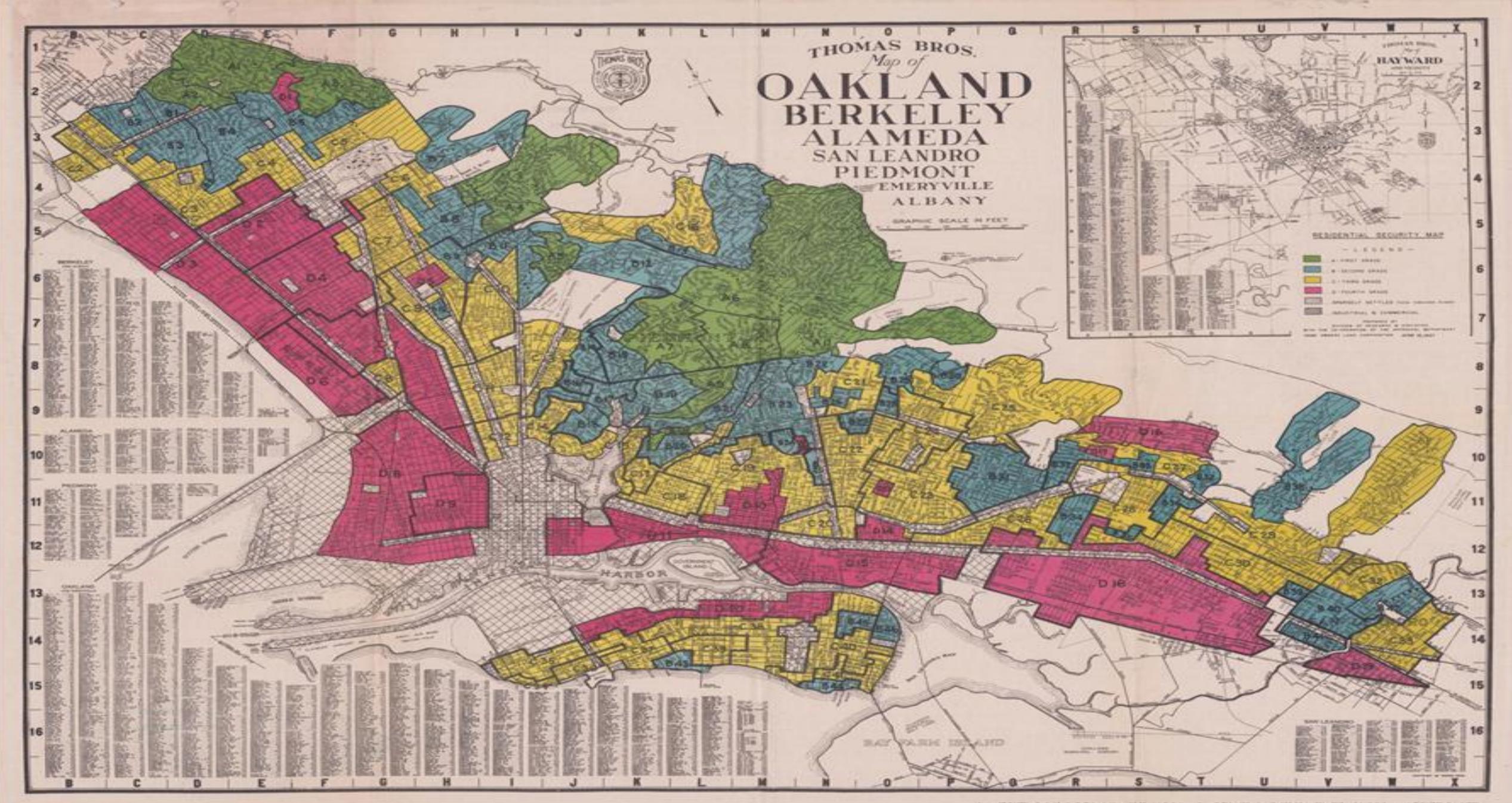
**Rocky Mountain Land Use Conference** 

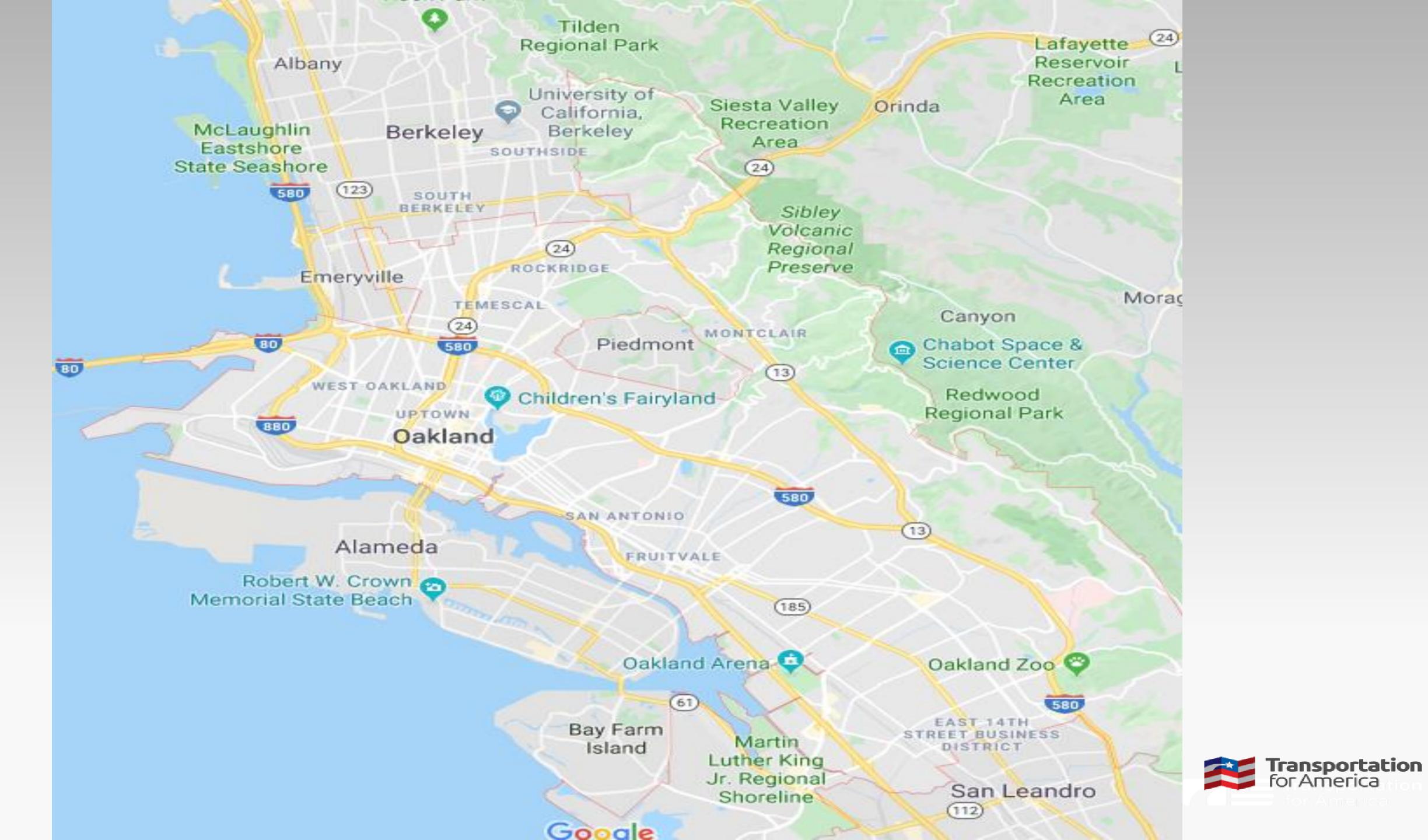
Beth Osborne, Director March 26, 2021

www.T4america.org
@t4america

### Inequities of the Early Highway Program

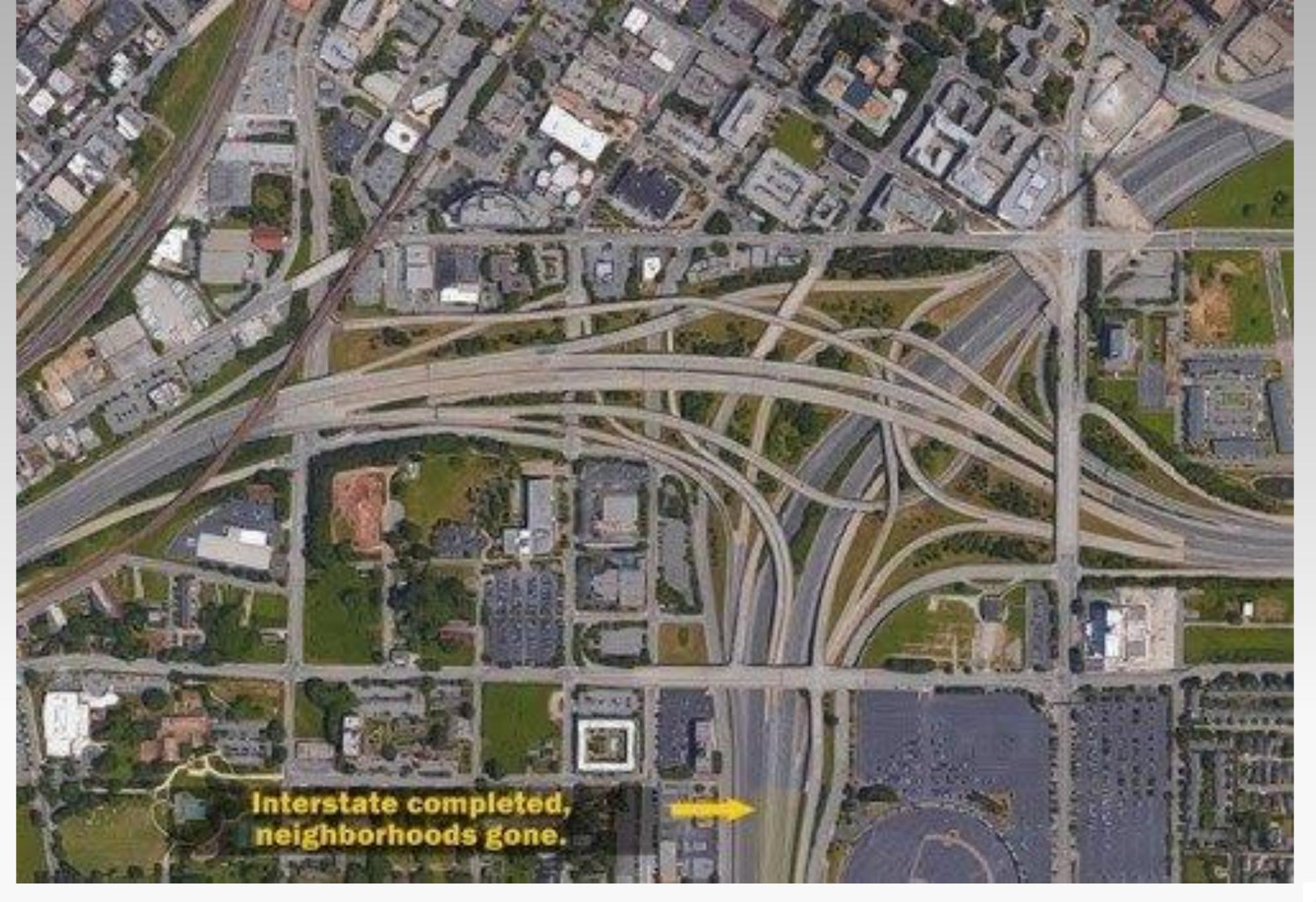






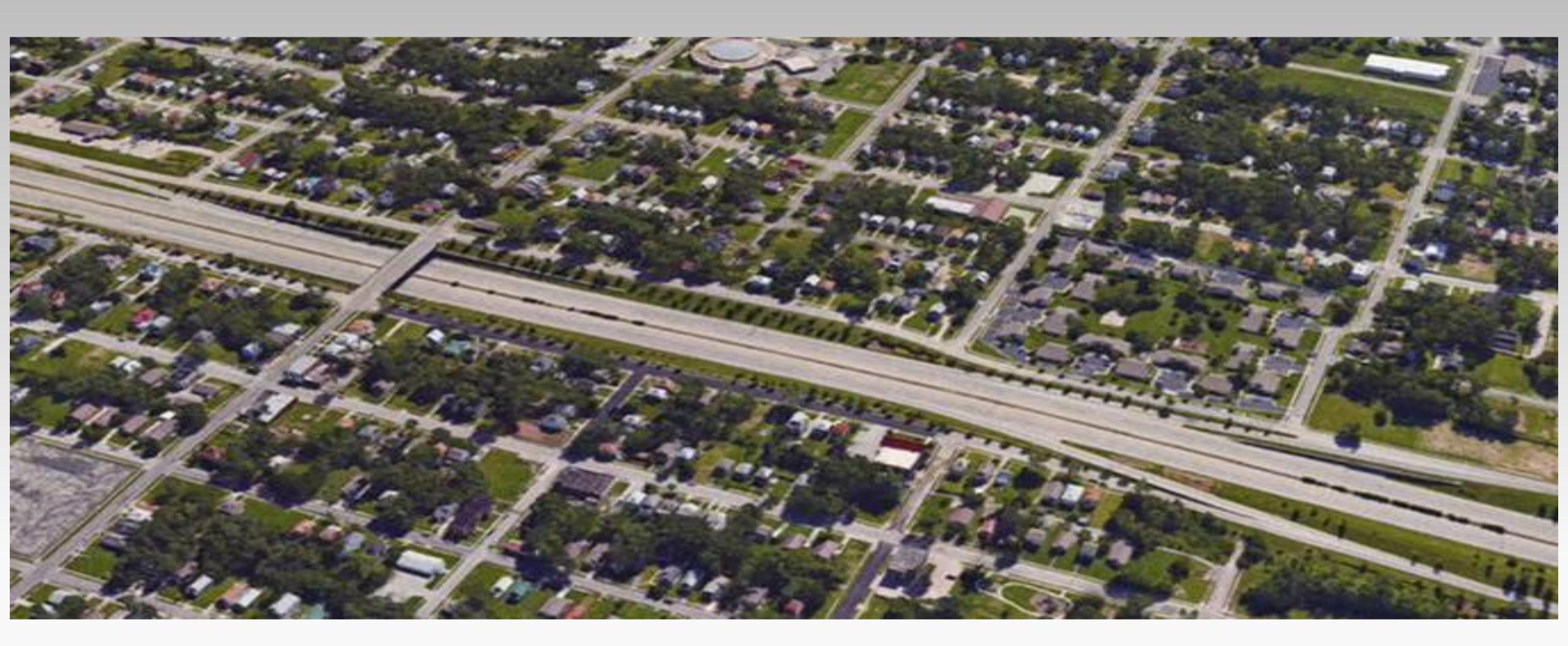








## Kansas City — Bruce R. Watkins Highway



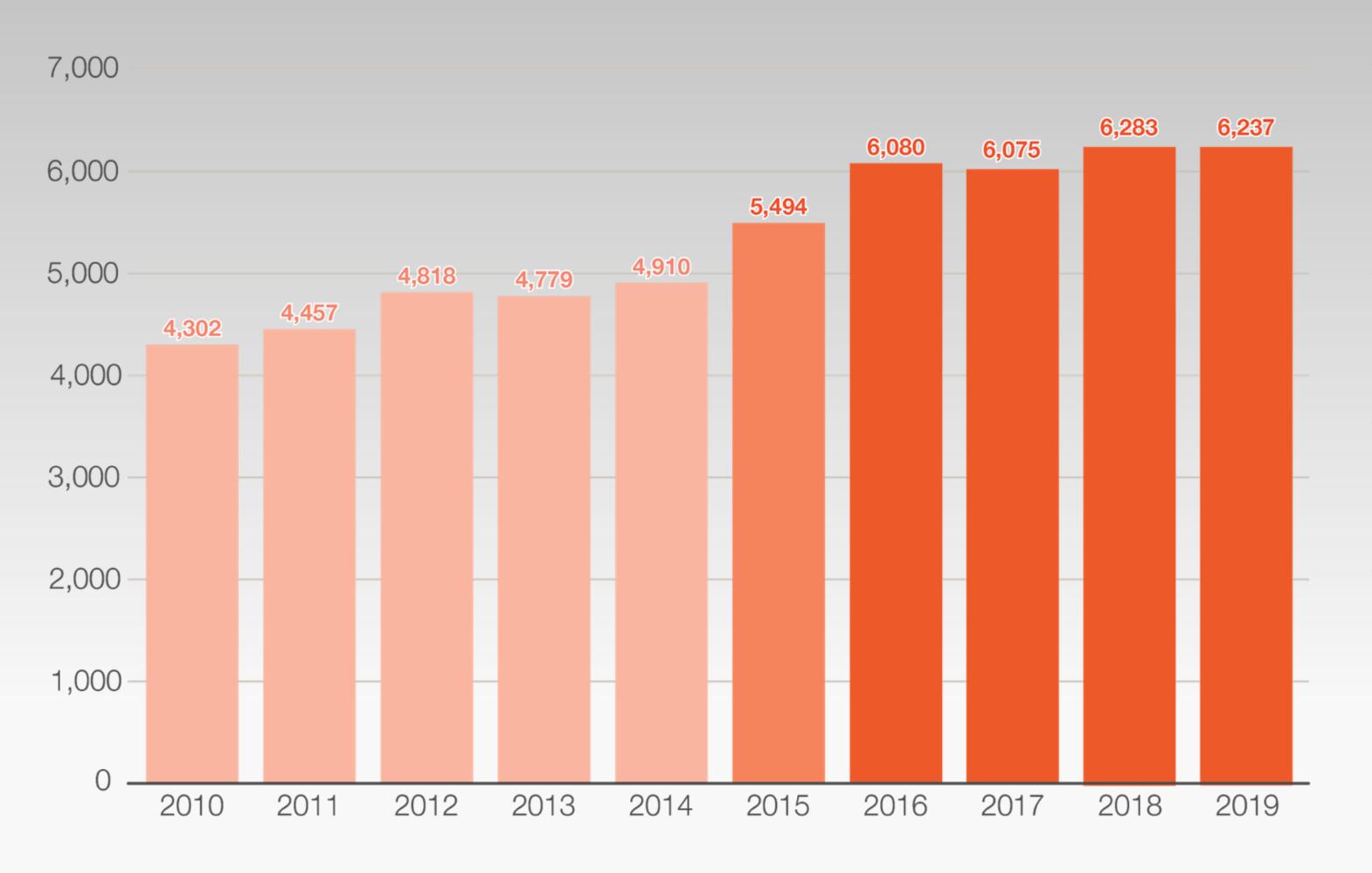
Completed in 2002 through Ivanhoe neighborhood (photo courtesy of @JSchnauzer via twitter)



### Inequities of Current Transportation Program



#### 2010-2019: historic increase in fatalities

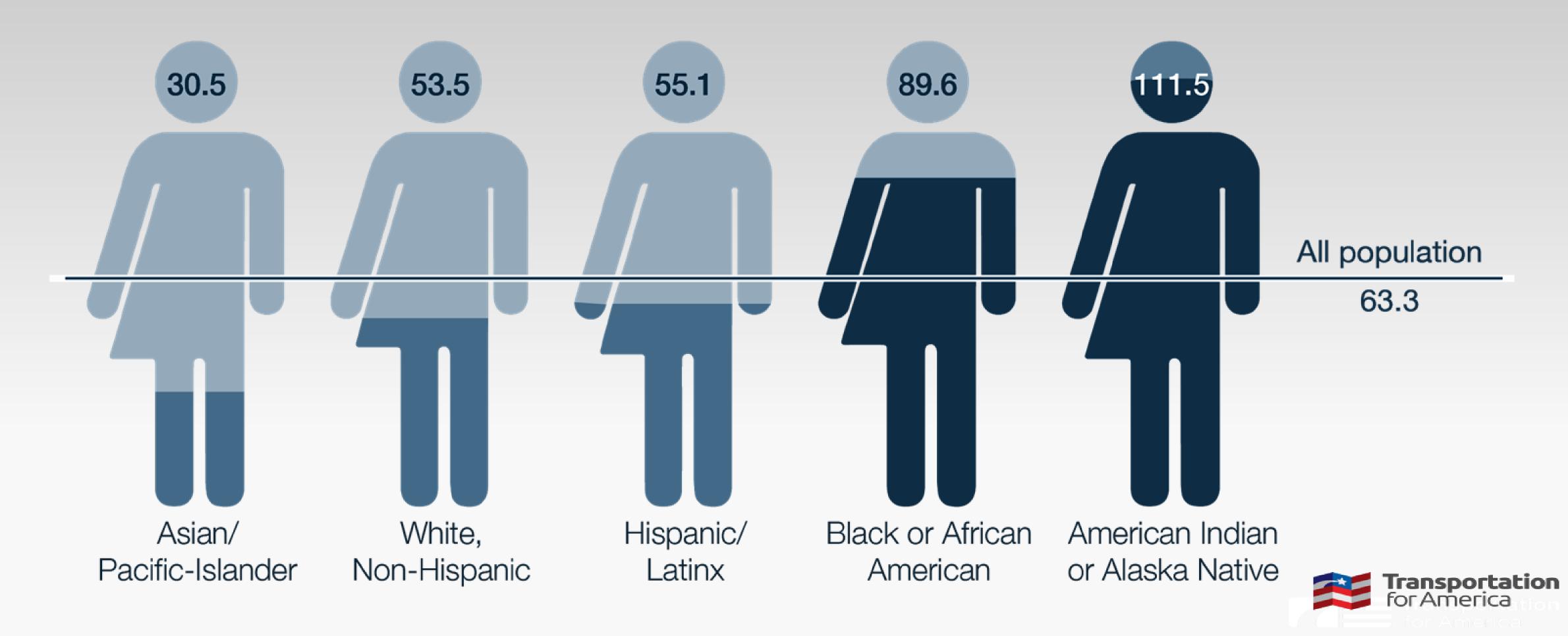


- 45 percent increase in people struck and killed while walking.
- 53,435 people were hit and killed by drivers.
- More than 17 people killed per day in 2019.
- It is trending worse almost everywhere:
   Since our 2019 report
   49/50 states and 84/100 metro areas got worse.

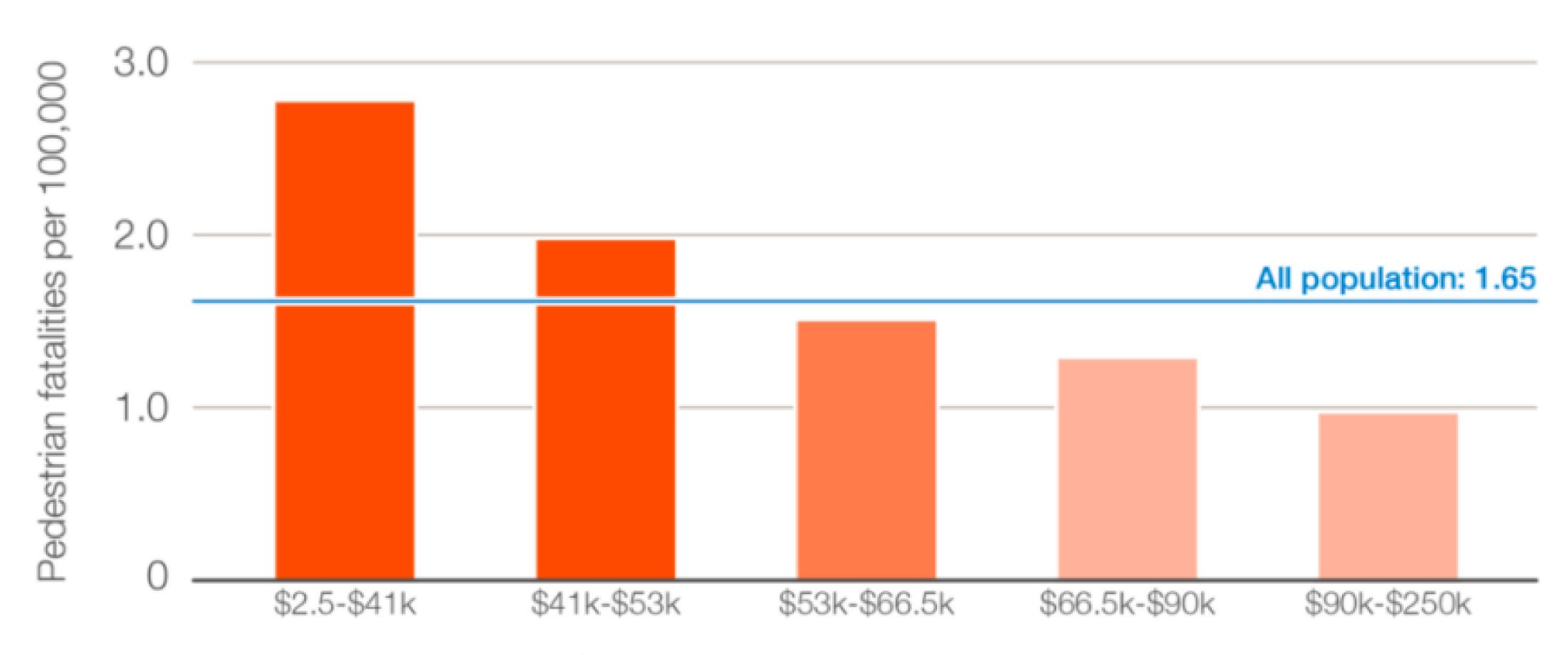


### People of color are disproportionately represented

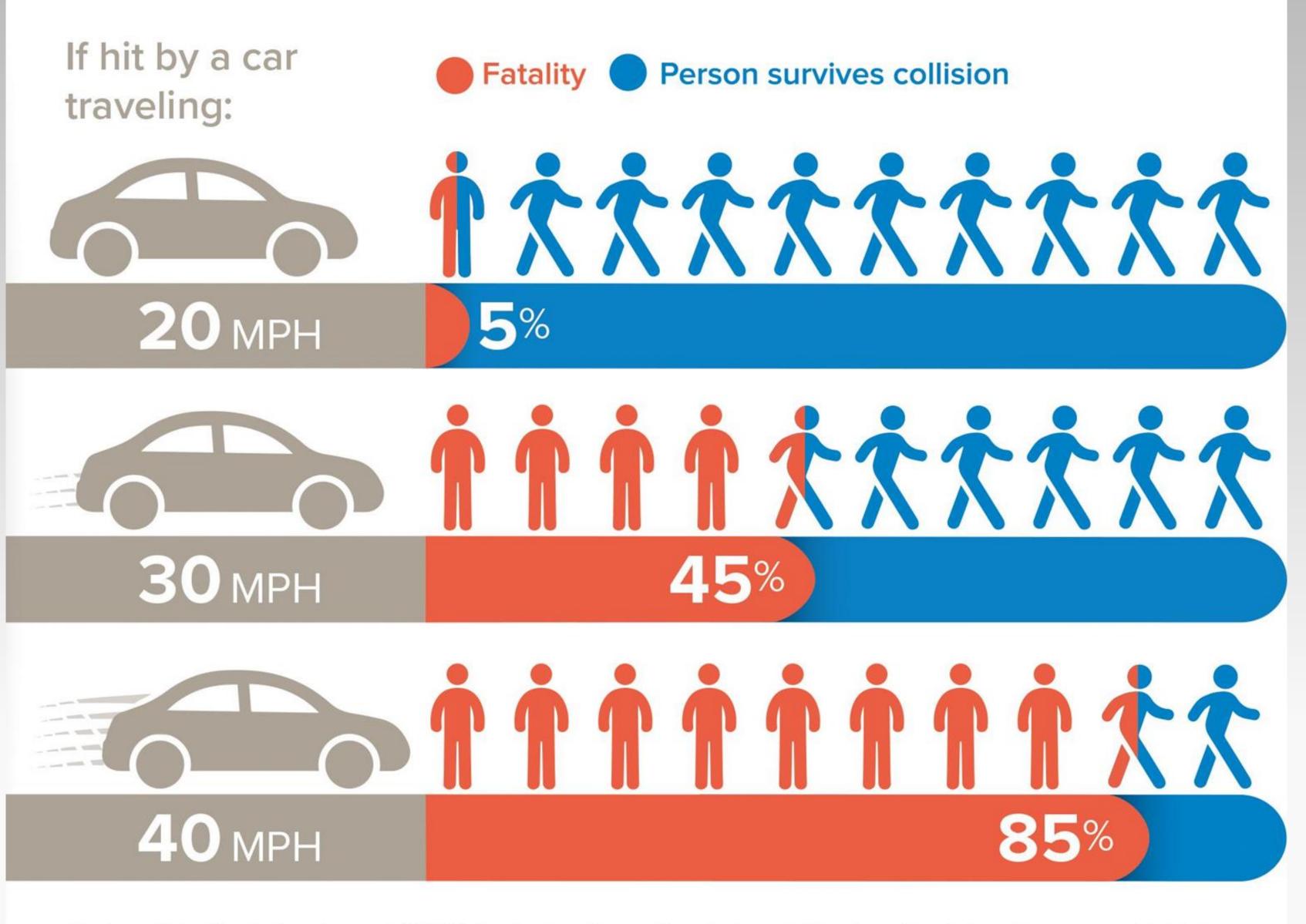
Relative pedestrian danger by race and ethnicity (2010-2019)



# People walking in lower-income areas are struck and killed at much higher rates. People walking in wealthier neighborhoods are killed at far lower rates

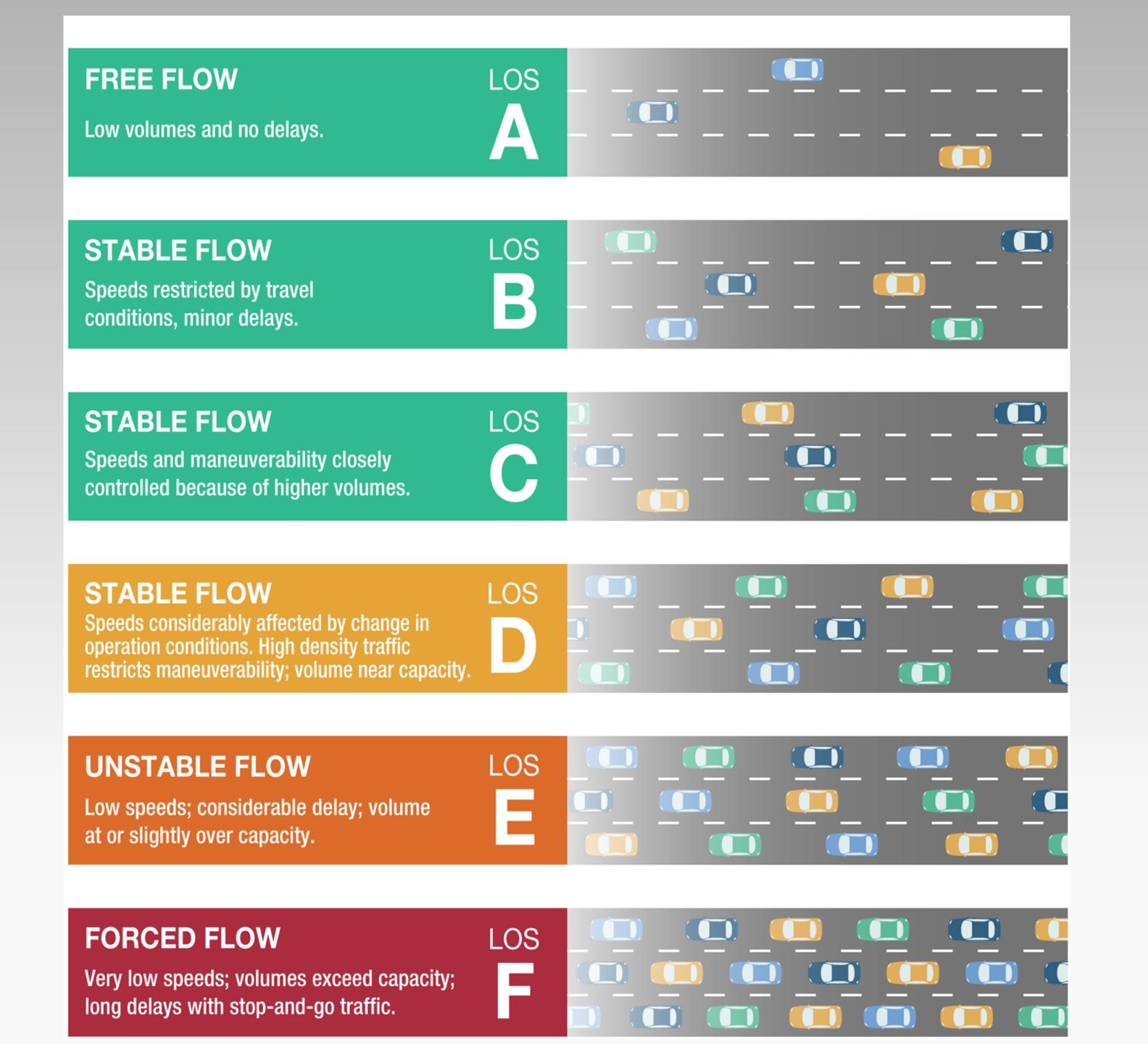


### You can't prioritize both safety and speed





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

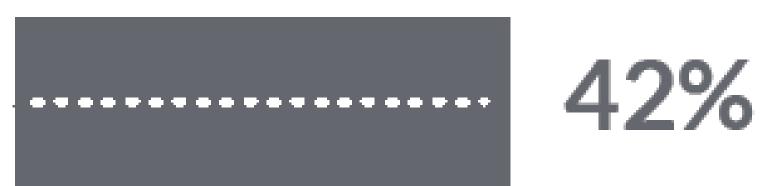




### Conflicting messages to drivers



### Freeway capacity grew faster than population, yet delay exploded





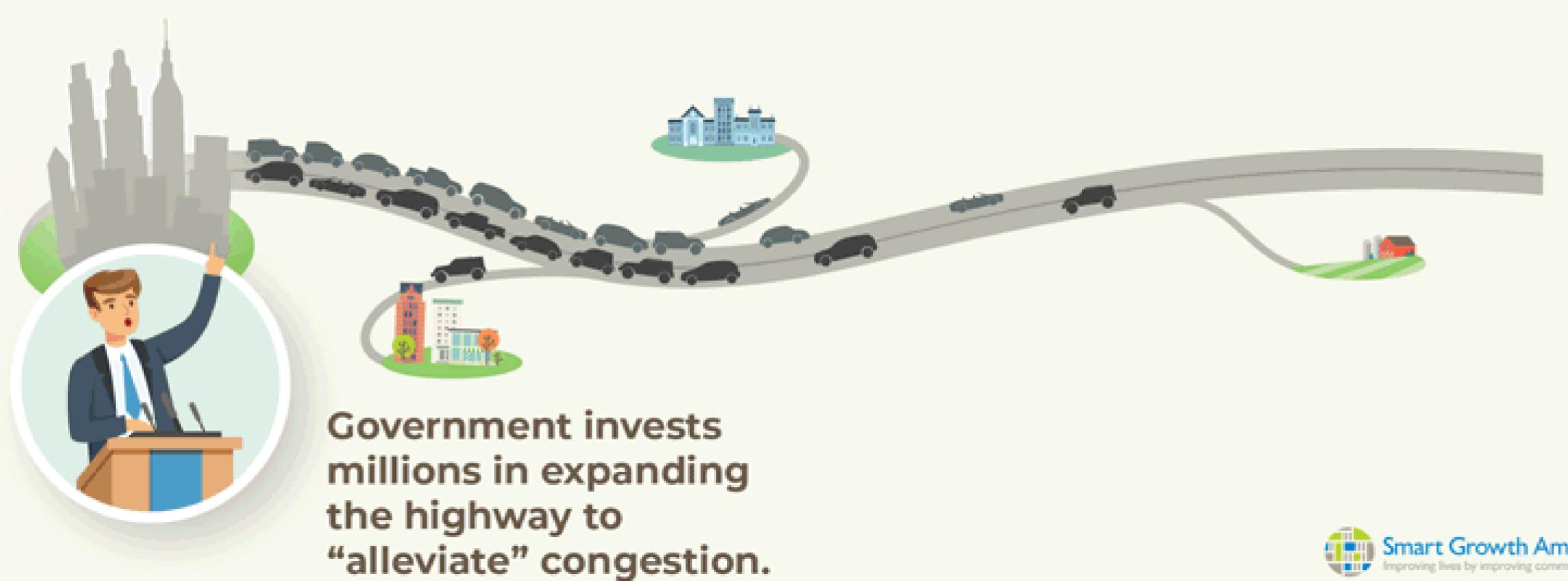


Change in freeway lane-miles, population growth, and annual hours of delay in the largest 100 urbanized areas from 1993-2017. Delay is defined as extra time spent traveling at congested rather than free-flow speeds. While FHWA only provides data on lane-miles of freeway, TTI's delay metrics capture both freeways and arterial roads.



### Induced demand

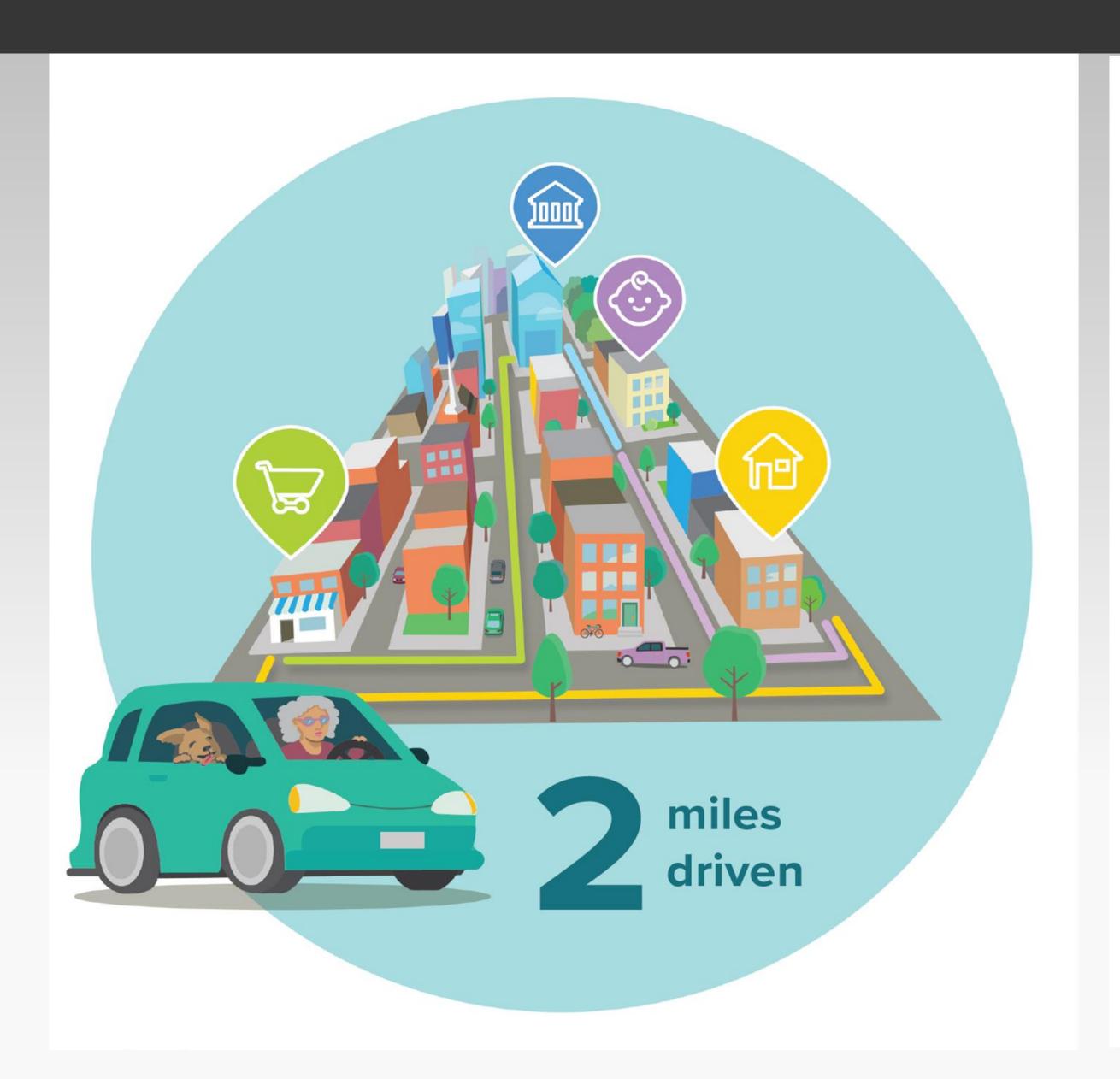
How highway expansion actually creates more traffic







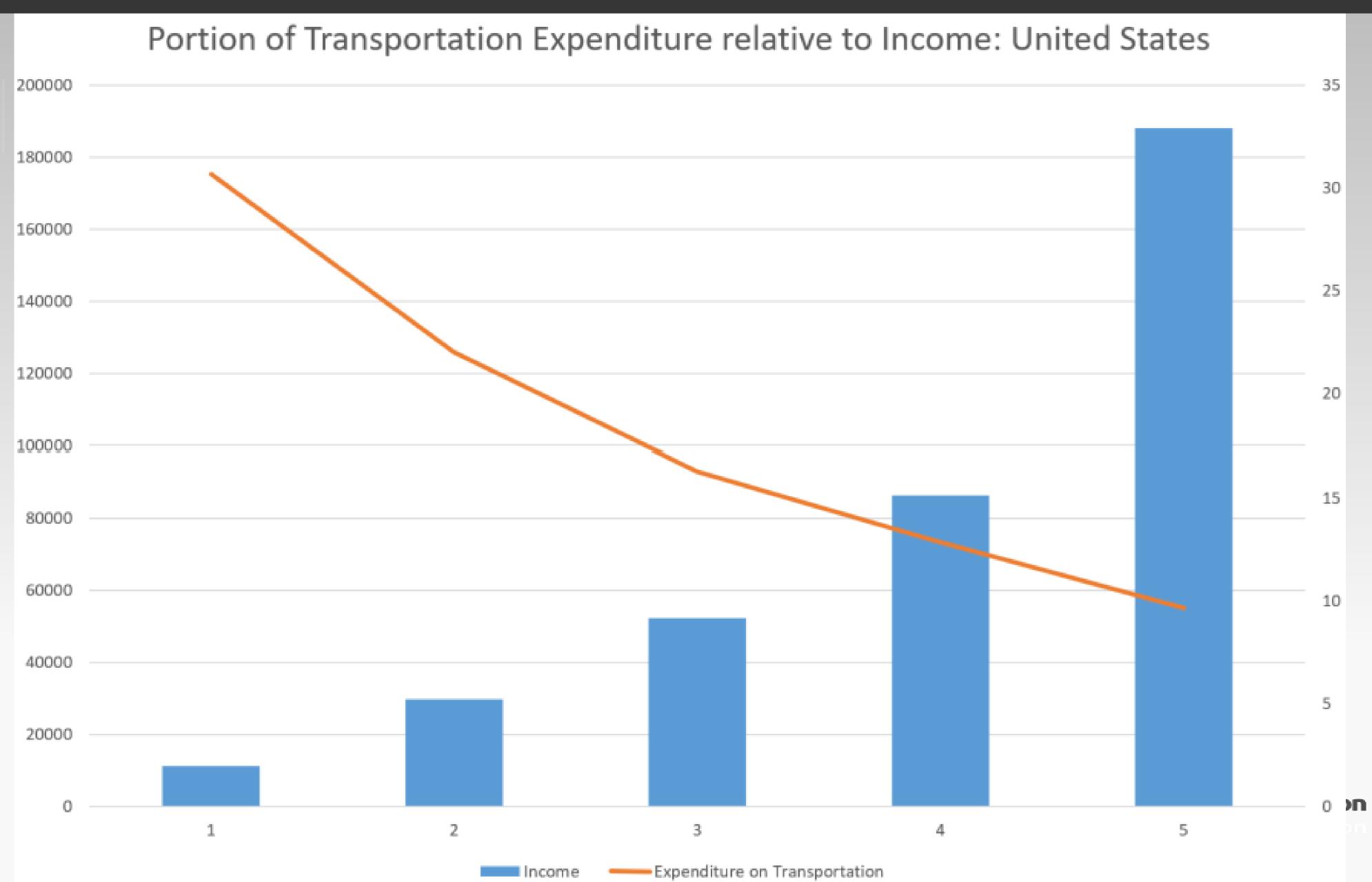
### The way we build creates/lengthens trips





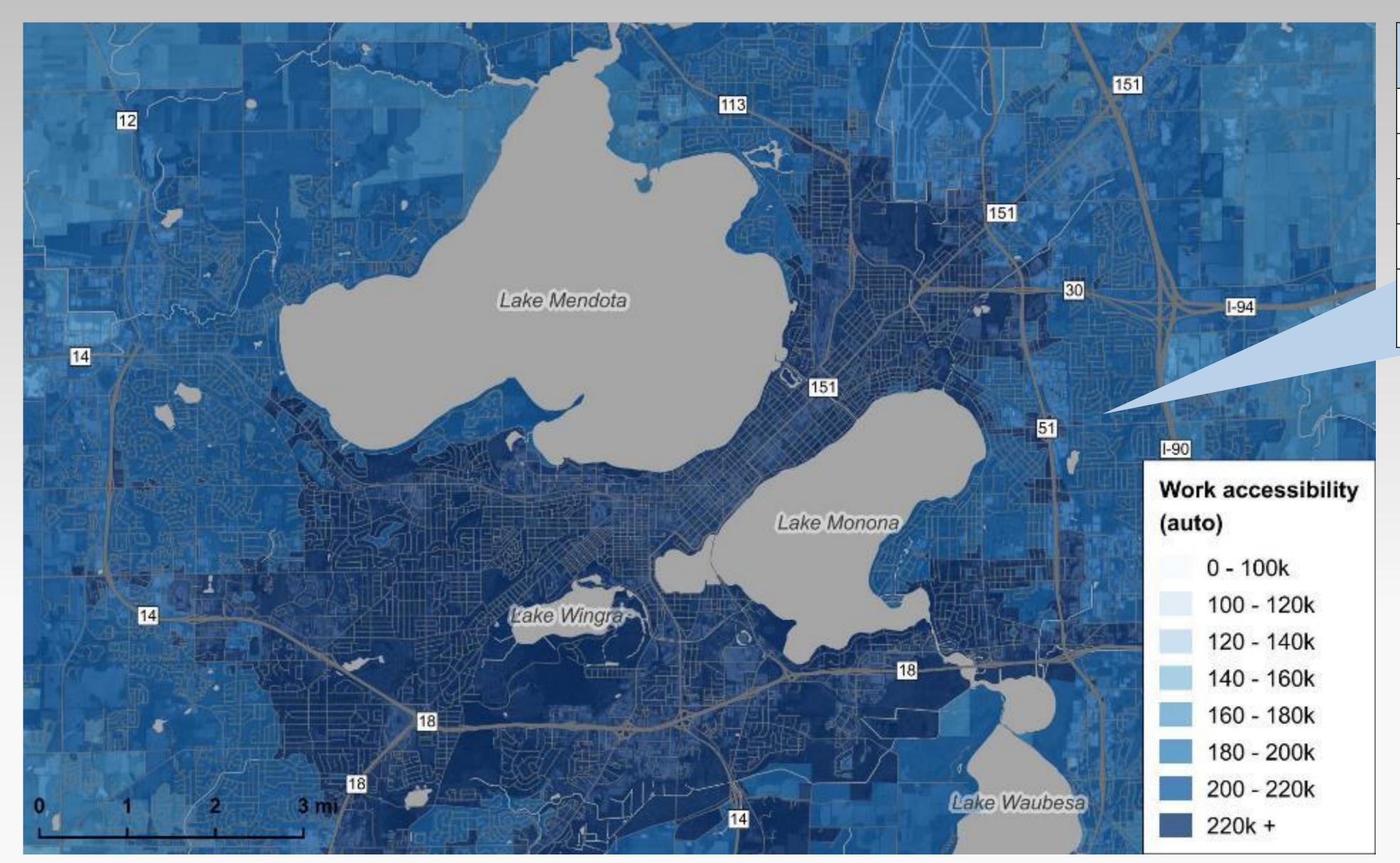
### The High Cost of Transportation in the US





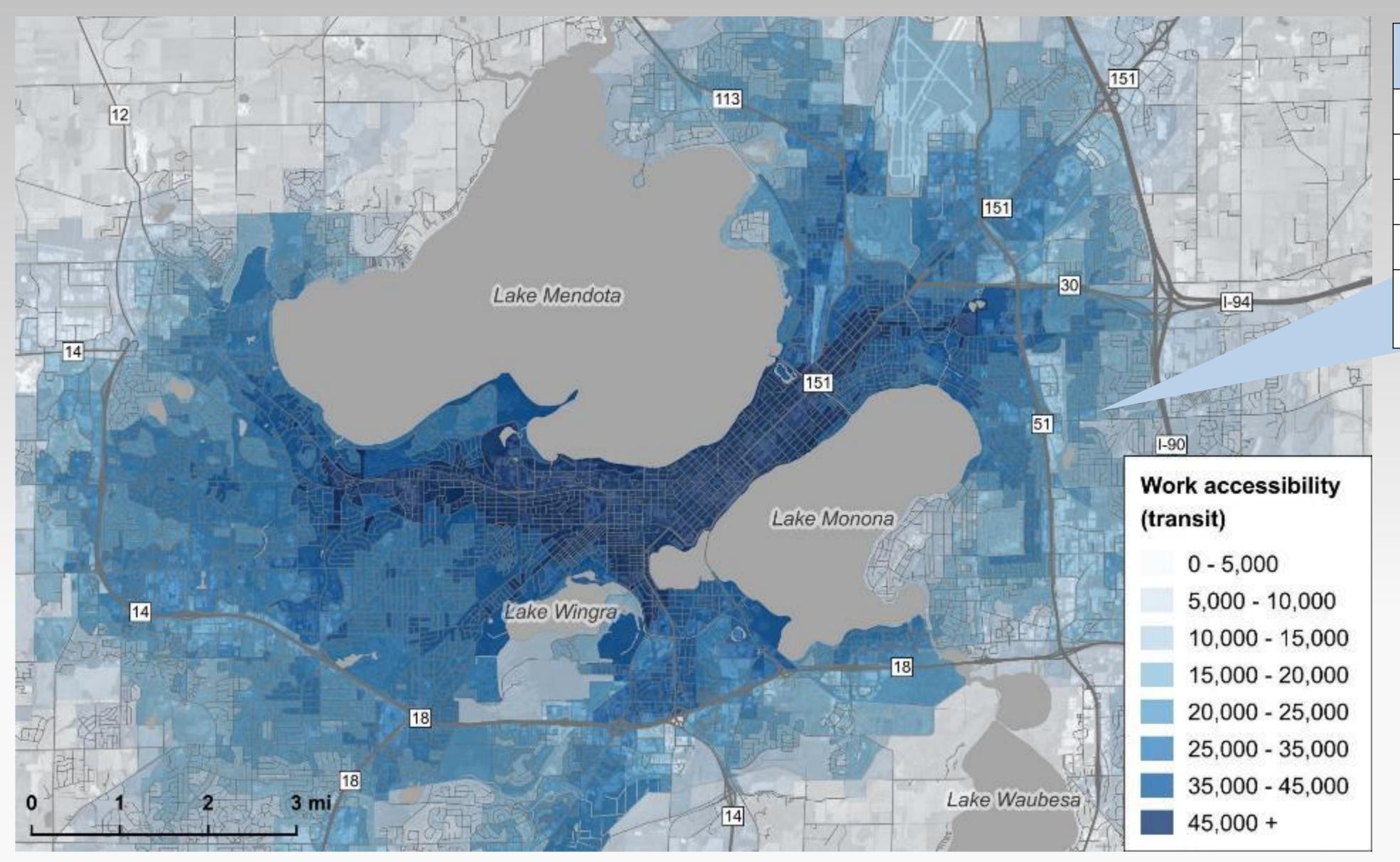
### Making Transportation More Equitable





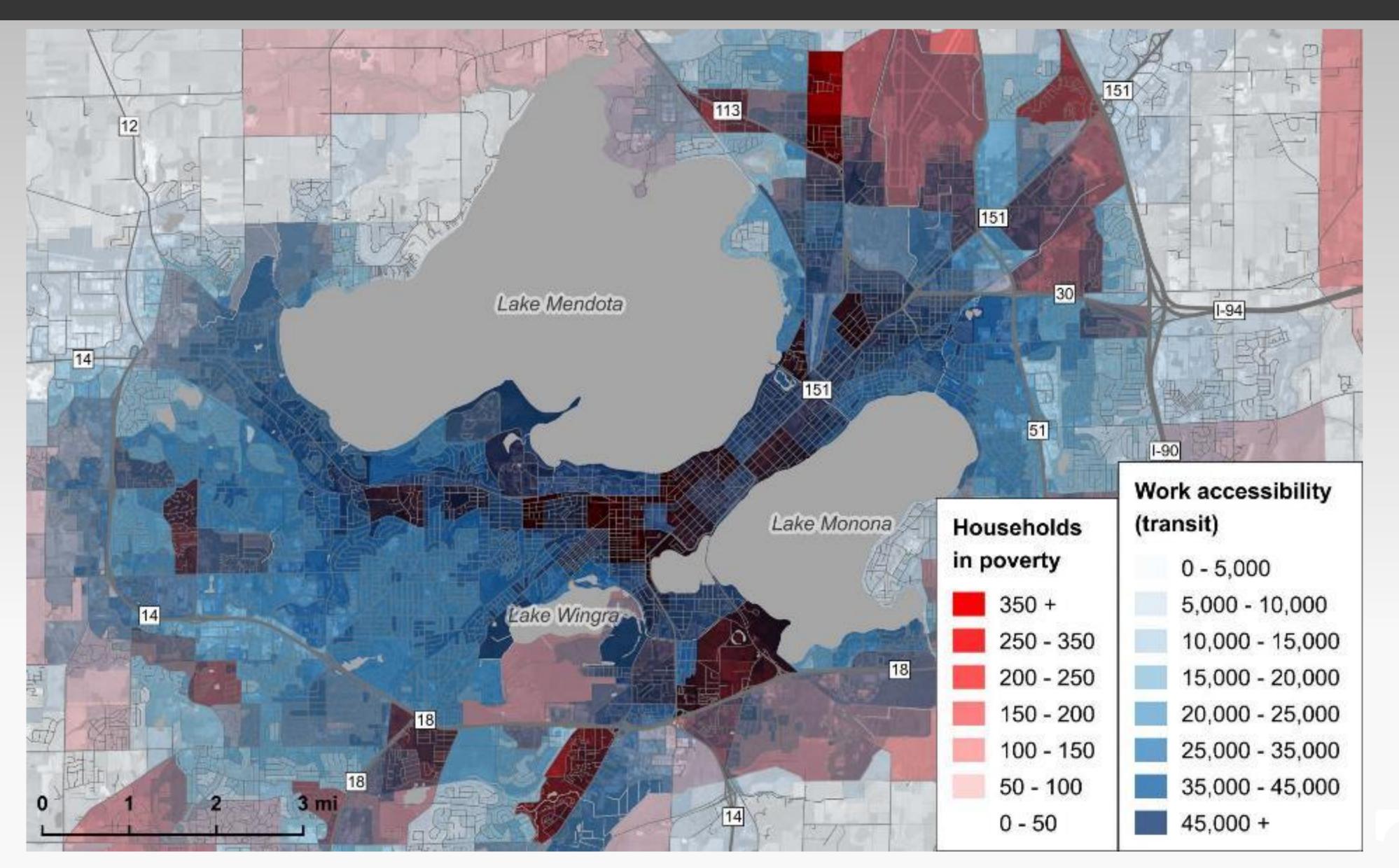
Jobs accessible		
< 15 min	29,000	
< 30 min	293,000	
< 45 min	308,000	
< 60 min	308,000	
Final score	212,000	



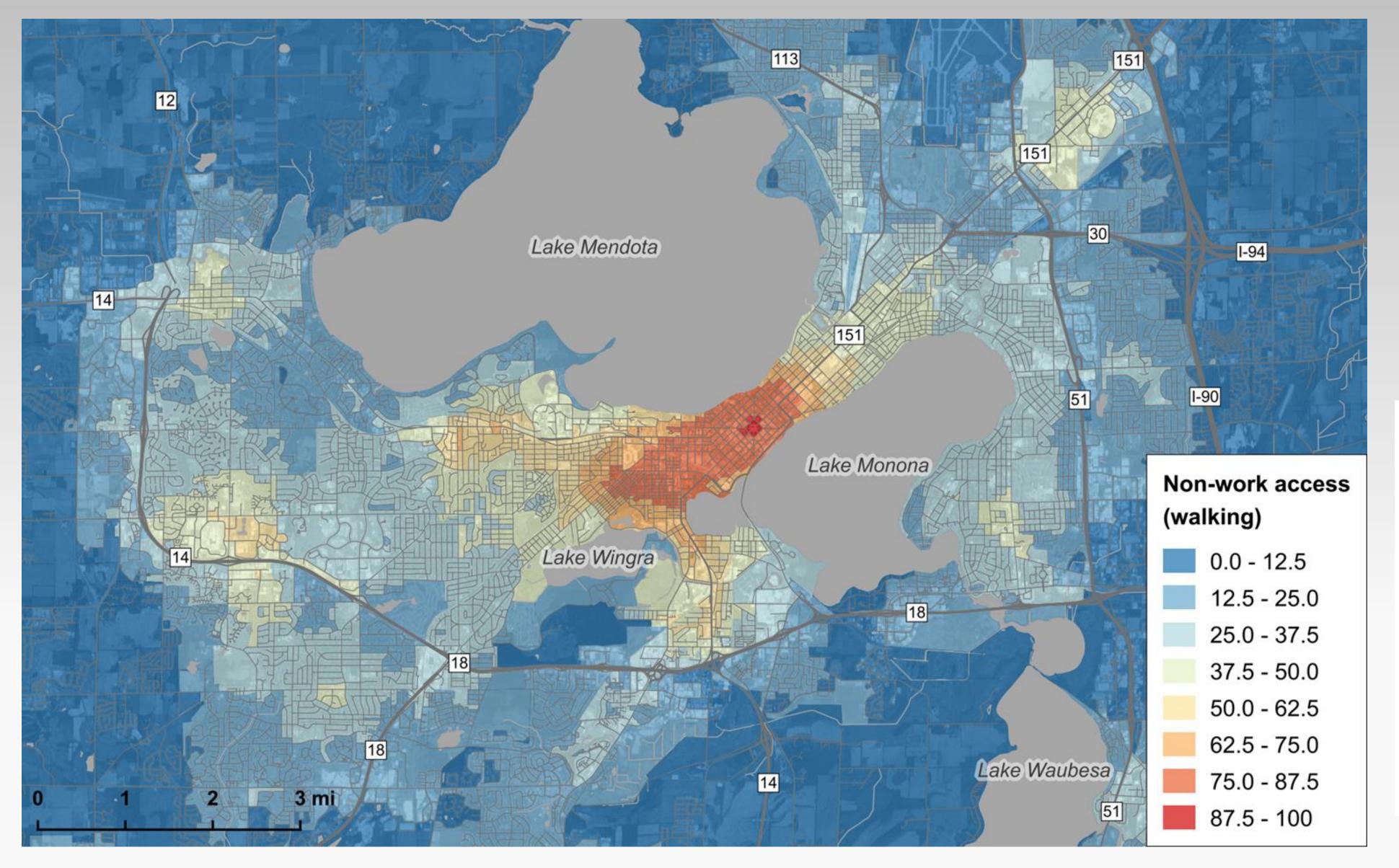


Jobs accessible		
< 15 min	250	
< 30 min	24,000	
< 45 min	33,000	
< 60 min	122,000	
Final score	18,000	



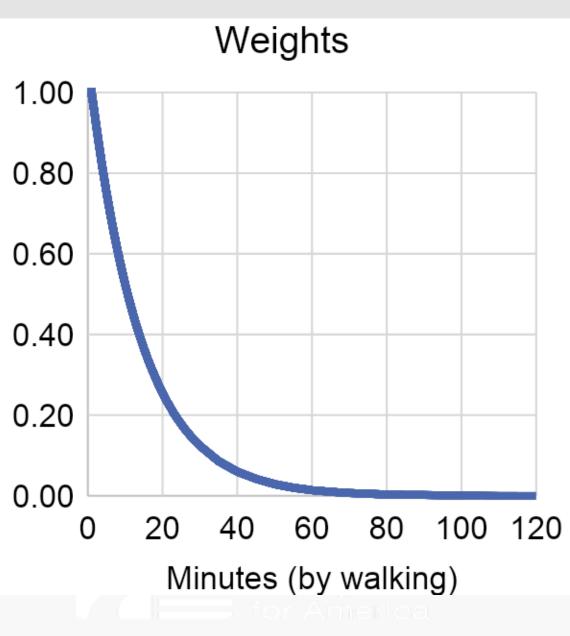




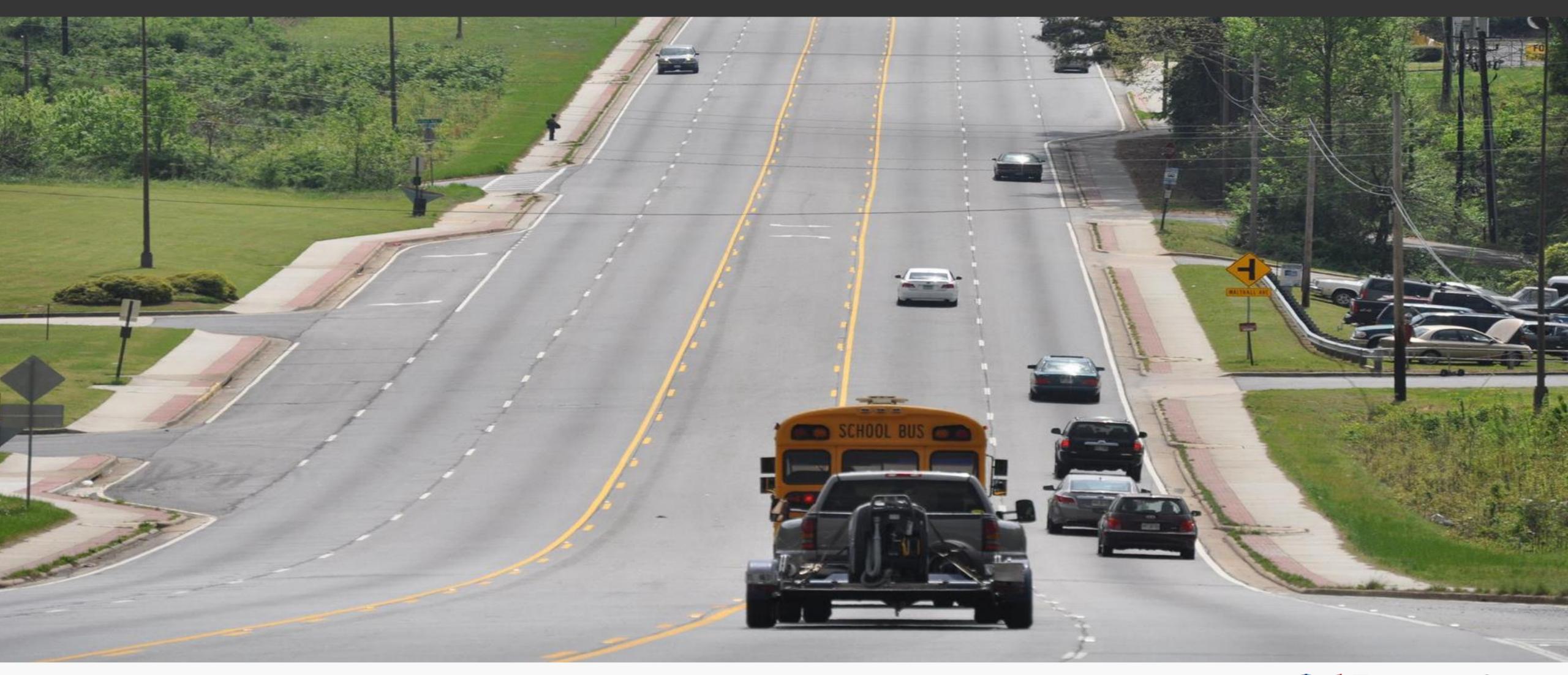


#### Access to:

- Schools
- Shopping
- Grocery stores
- . Food and drink
- Recreation
- Healthcare
- Public services
- . Banks and ATMs



### Update standards and scoping

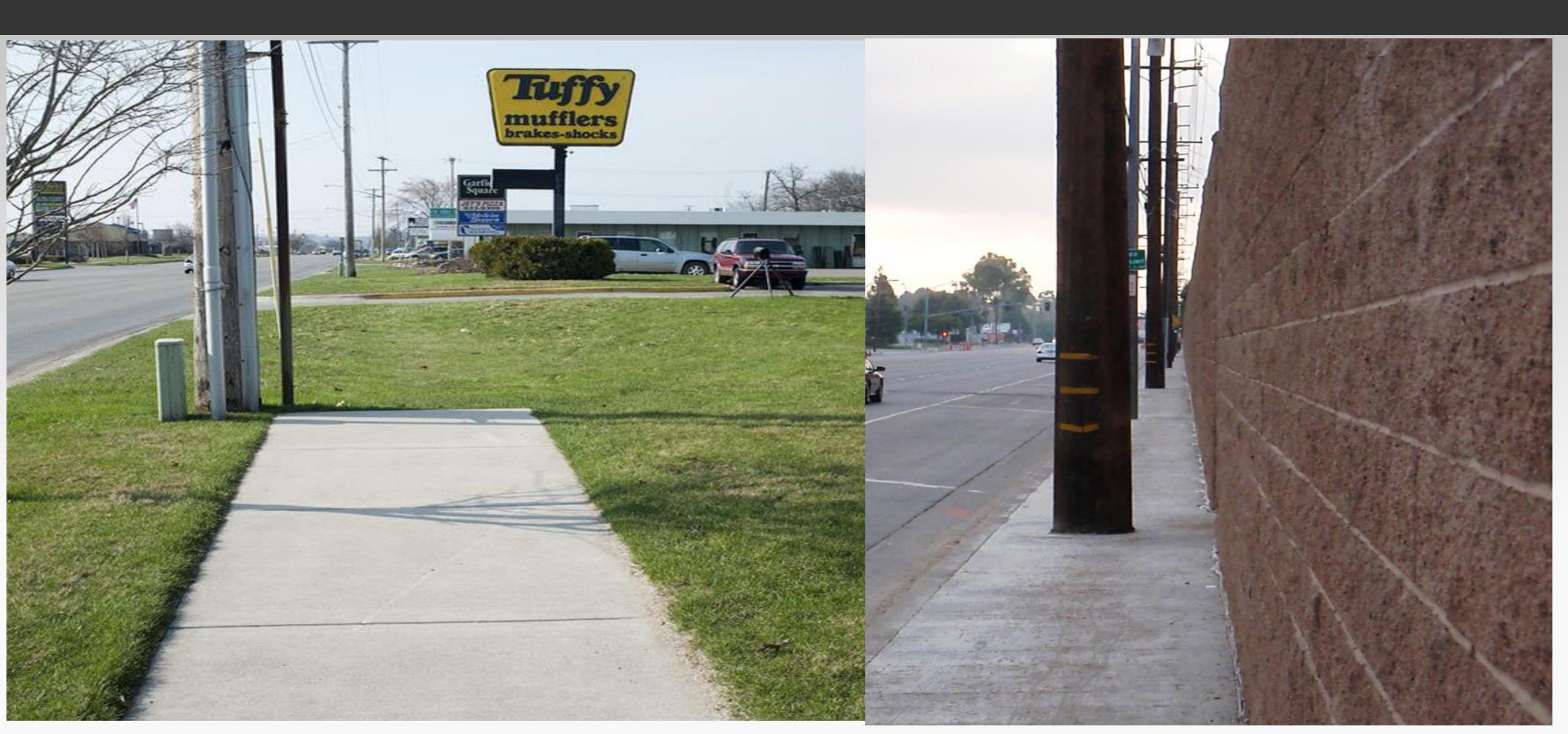




### Update standards and scoping



### Build better infrastructure for people



# Use Better Design, NACTO

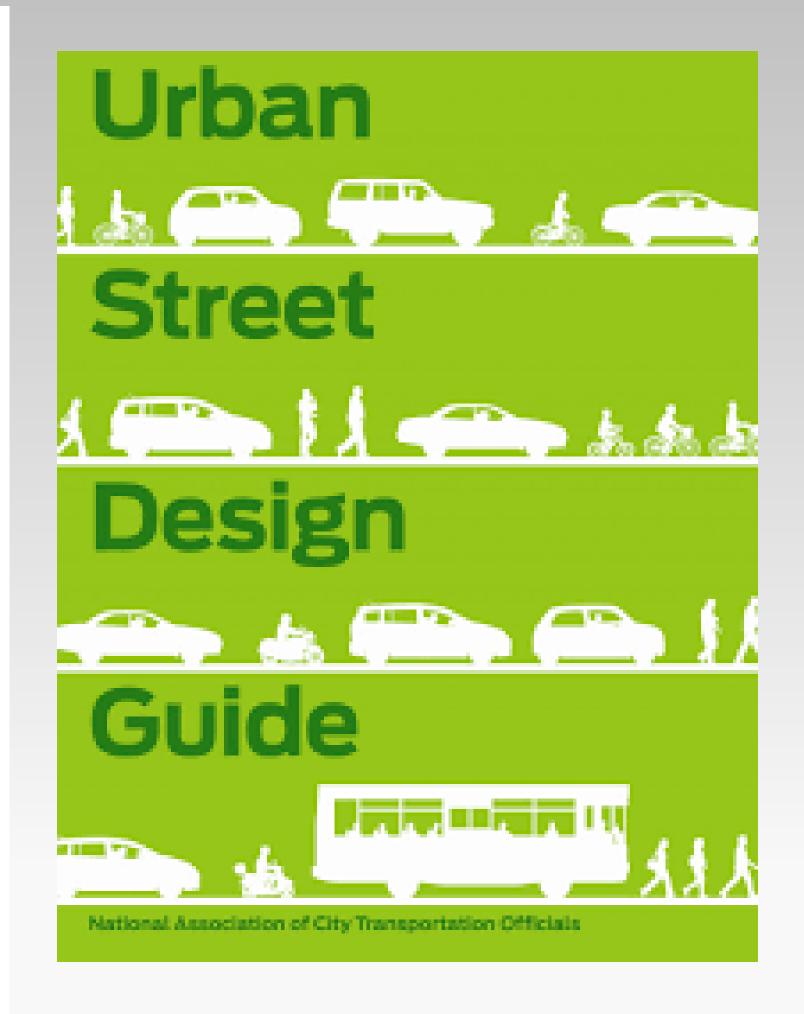
# Tennessee Adopts NACTO Guidelines; Still Waiting on New York, New Jersey and Connecticut

POSTED BY: MATTHEW NORRIS JUNE 23, 2014

Tennessee recently became the sixth state to formally endorse the National Association of City Transportation Officials (NACTO) Urban Street Design Guide. The guide provides technical standards that departments of transportation can use to create streets that safely accommodate all road users, including pedestrians, bicyclists and transit riders. Thirty-seven cities, including New York City, and six states have adopted



The NACTO Urban Street Design Guide provides detailed guidance on how to create vibrant streets that accommodate all road users as safely as possible. | Image: NACTO





# Use Better Design, FDOT

FIGURE 2 FDOT CONTEXT CLASSIFICATIONS



#### C1-Natural

Lands preserved in a natural or wilderness condition, including lands unsuitable for settlement due to natural conditions.

#### C2-Rural

Sparsely settled lands; may include agricultural land, grassland, woodland, and wetlands.

#### C2T-Rural Town

Small concentrations of developed areas immediately surrounded by rural and natural areas; includes many historic towns.

#### C3R-Suburban Residential

Mostly residential uses within large blocks and a disconnected or sparse roadway network.

#### C3C-Suburban Commercial

Mostly non-residential uses with large building footprints and large parking lots within large blocks and a disconnected or sparse roadway network.

#### C4-Urban General

Mix of uses set within small blocks with a well-connected roadway network. May extend long distances. The roadway network usually connects to residential neighborhoods immediately along the corridor or behind the uses fronting the roadway.

#### C5-Urban Center

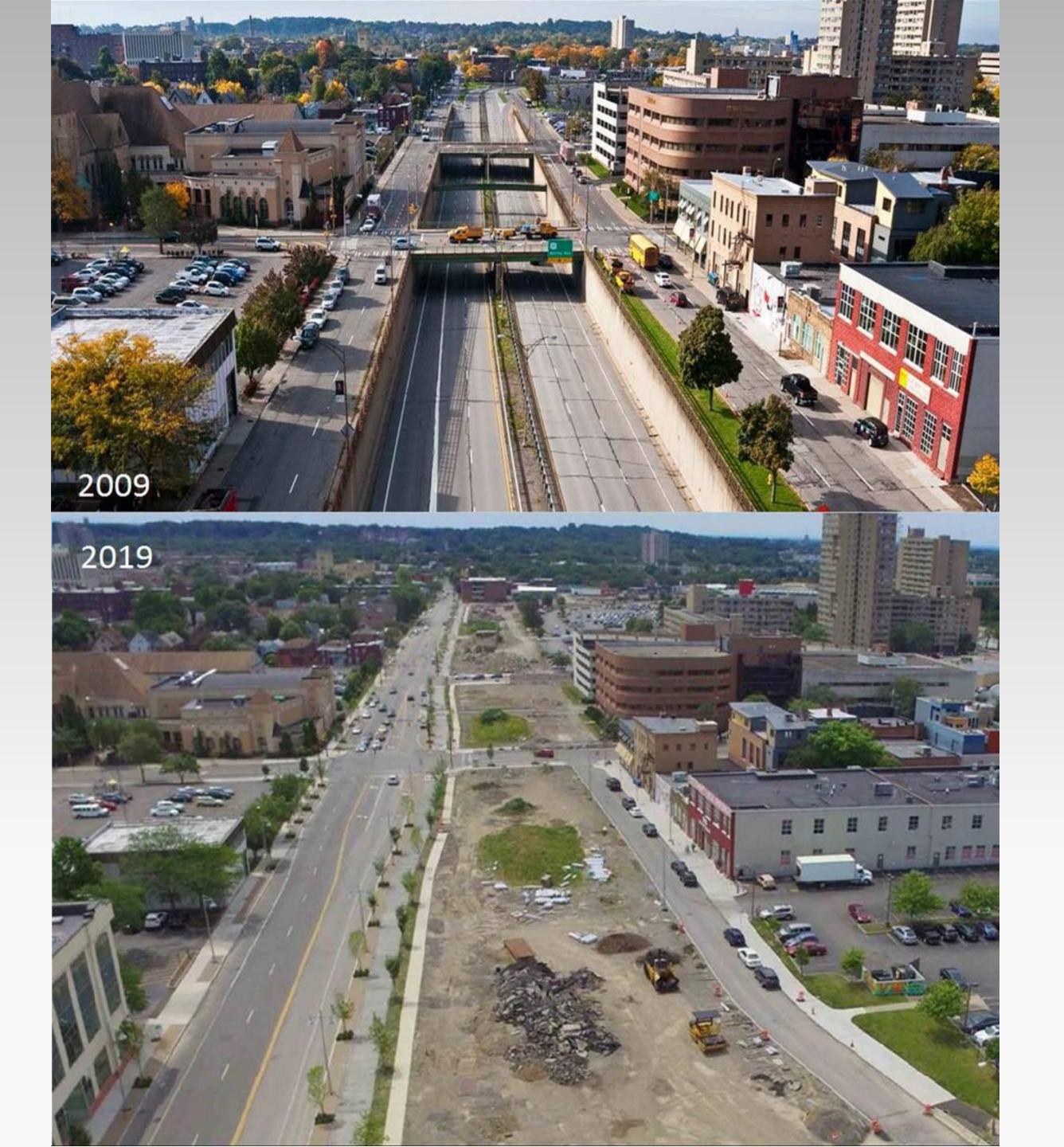
Mix of uses set within small blocks with a well-connected roadway network. Typically concentrated around a few blocks and identified as part of a civic or economic center of a community, town, or city.

#### **C6-Urban Core**

Areas with the highest densities and building heights, and within FDOT classified Large Urbanized Areas (population >1,000,000). Many are regional centers and destinations. Buildings have mixed uses, are built up to the roadway, and are within a well-connected roadway network.

# Rochester, NY





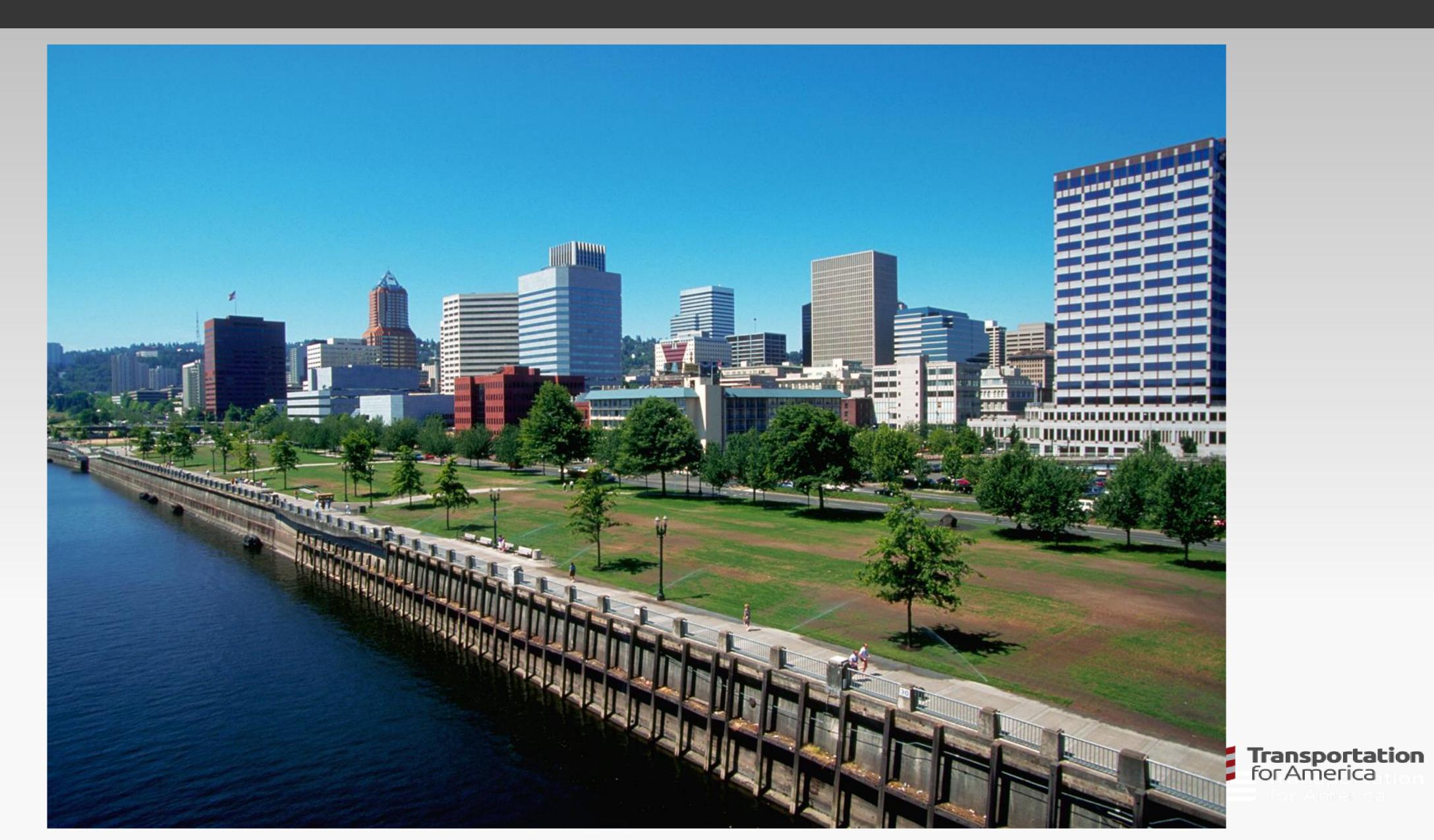


# Harbor Drive, Portland, OR



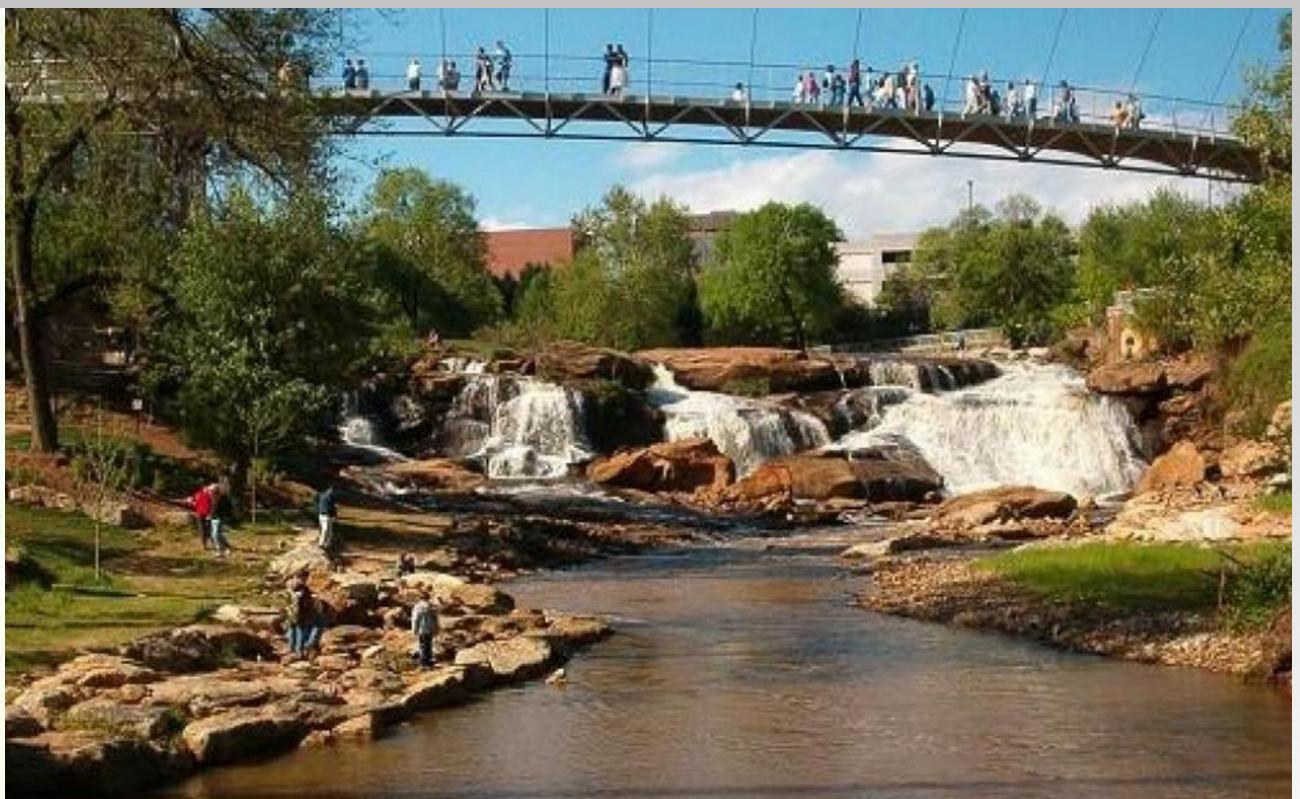


# Harbor Drive, Portland, OR



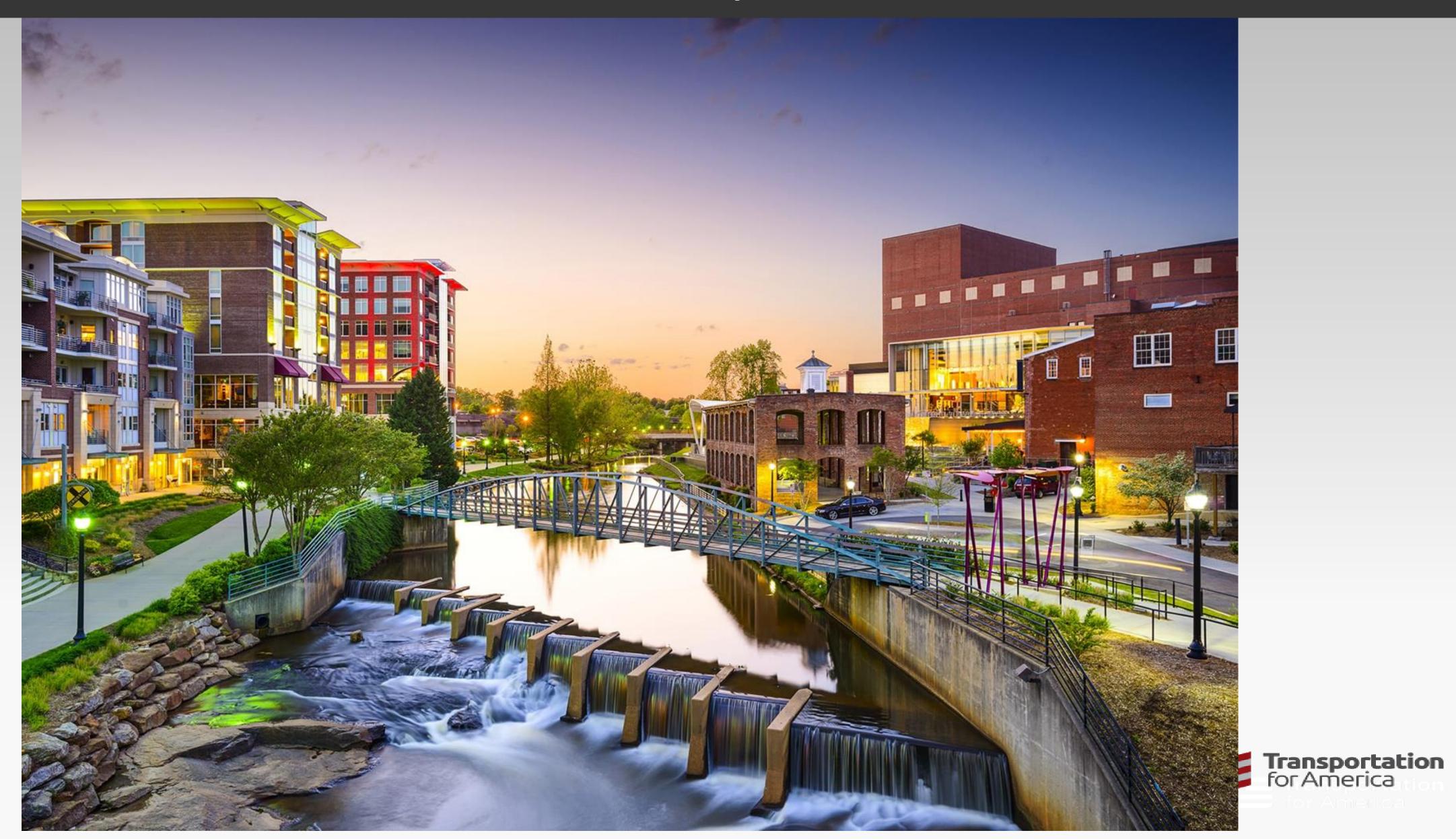
### Greenville, SC







## Greenville, SC





# beth.osborne@t4america.org



@t4america



www.t4america.org

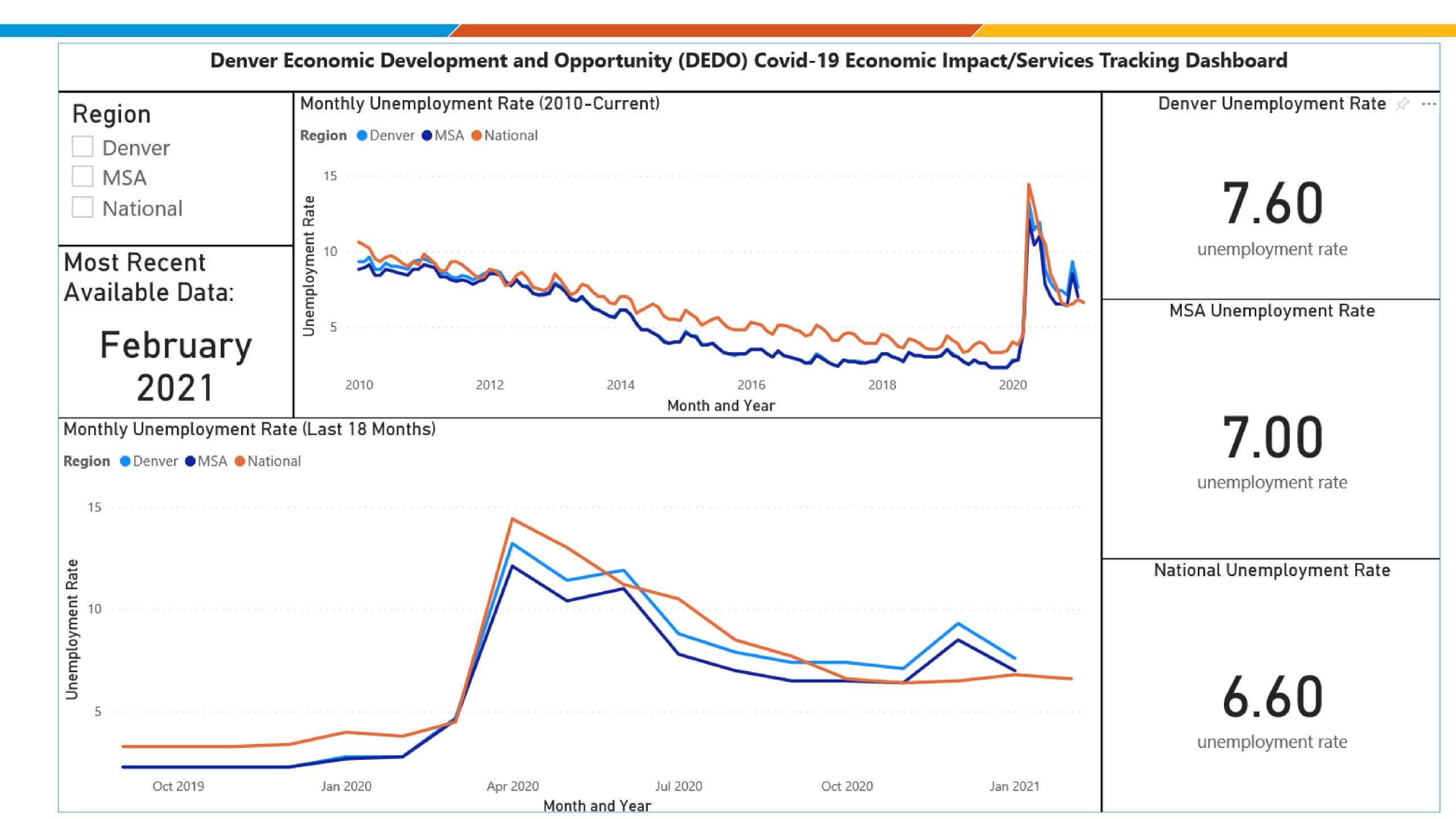






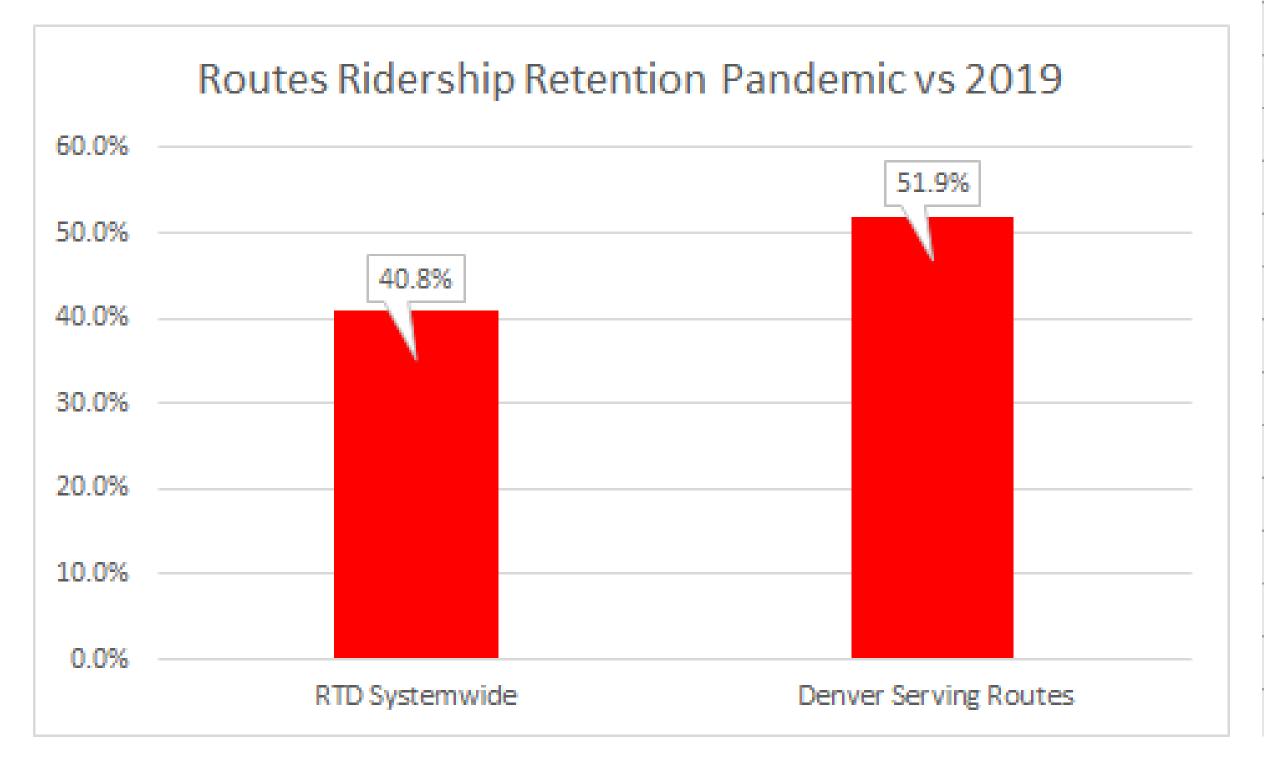
## COVID-19 Economic Impact

- 23% of the region's workers (420,000) are vulnerable to the immediate effects of the pandemic response
- 30.3 million initial jobless claims nationally
- 338k initial jobless claims in Colorado
- DEN ridership down 95% (now over 80% of pre-COVID volume), RTD ridership down 70% (now 50% of pre-COVID)
- Traffic fatalities down 28%
- City budget losses over 200M, 127M received from the CARES act and ~150M Rescue Plan



# RTD Snapshot

### (Presented 12/8)



Route Name/Corridor	Pandemic Ridership Retention
36: Fort Logan	99%
16: West Colfax Avenue	86%
48: East 48th Avenue / Commerce City	85%
51: Sheridan Blvd	80%
15L: East Colfax Limited	70%
153: Chambers Road	69%
92: 92nd Avenue	69%
4: Morrison Road	67%
31: Federal Blvd	65%
120: 120th Avenue / Brighton	62%
45: Montbello / Green Valley Ranch	62%
15: East Colfax Avenue	61%
73: Quebec Street	61%
121: Peoria Street	61%
88: Northglenn/Commerce City/Stapleton	61%
40: Colorado Boulevard	61%
105: Havana Street	61%
29: Riverbend	61%
12: Downing / N Washington	58%
38: 38th Avenue	55%

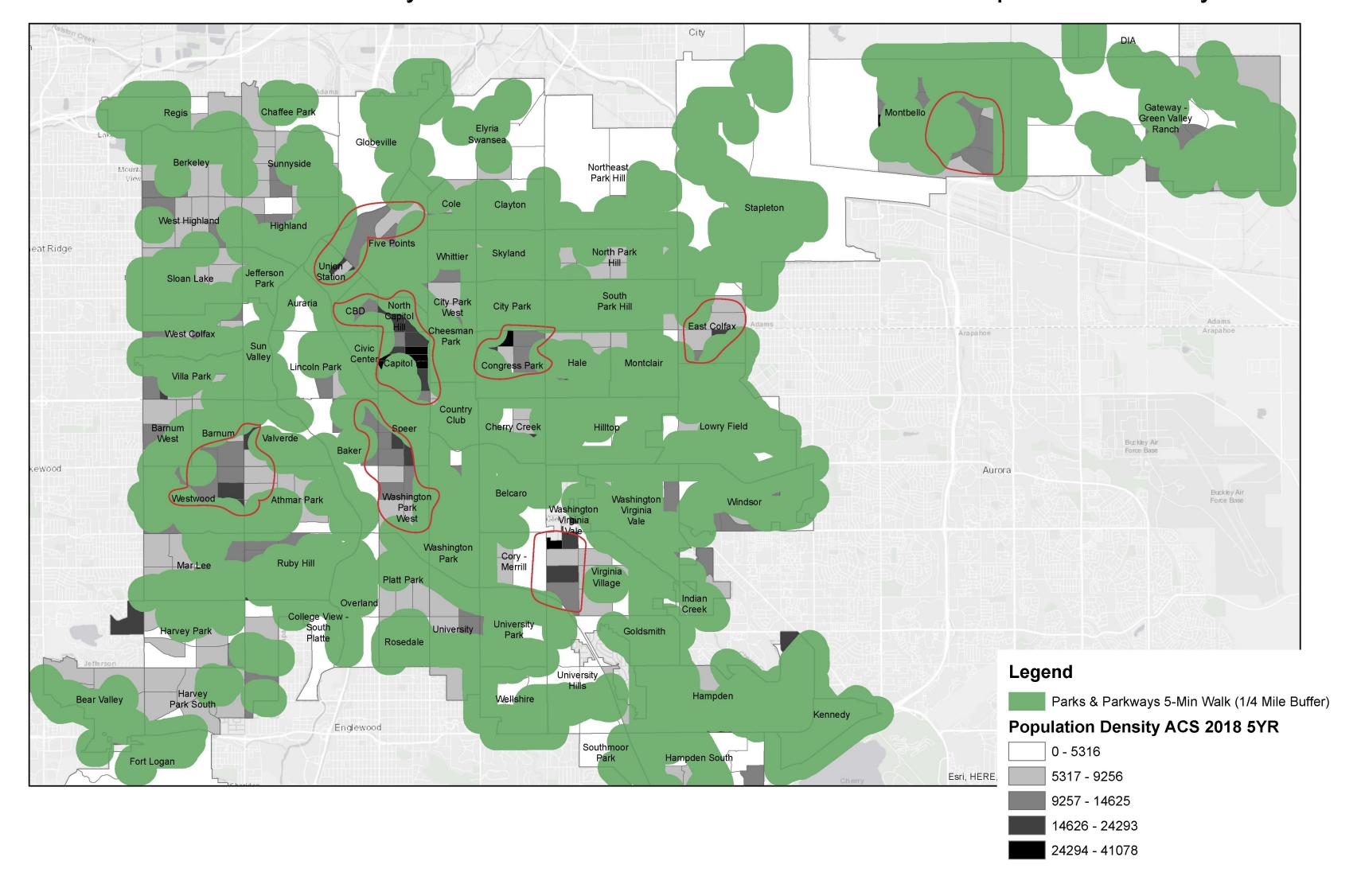
# Rethinking the Street

<u>Issue</u>: Initial COVID impact created parks and trails experiencing overcrowding due to individuals seeking space to recreate.

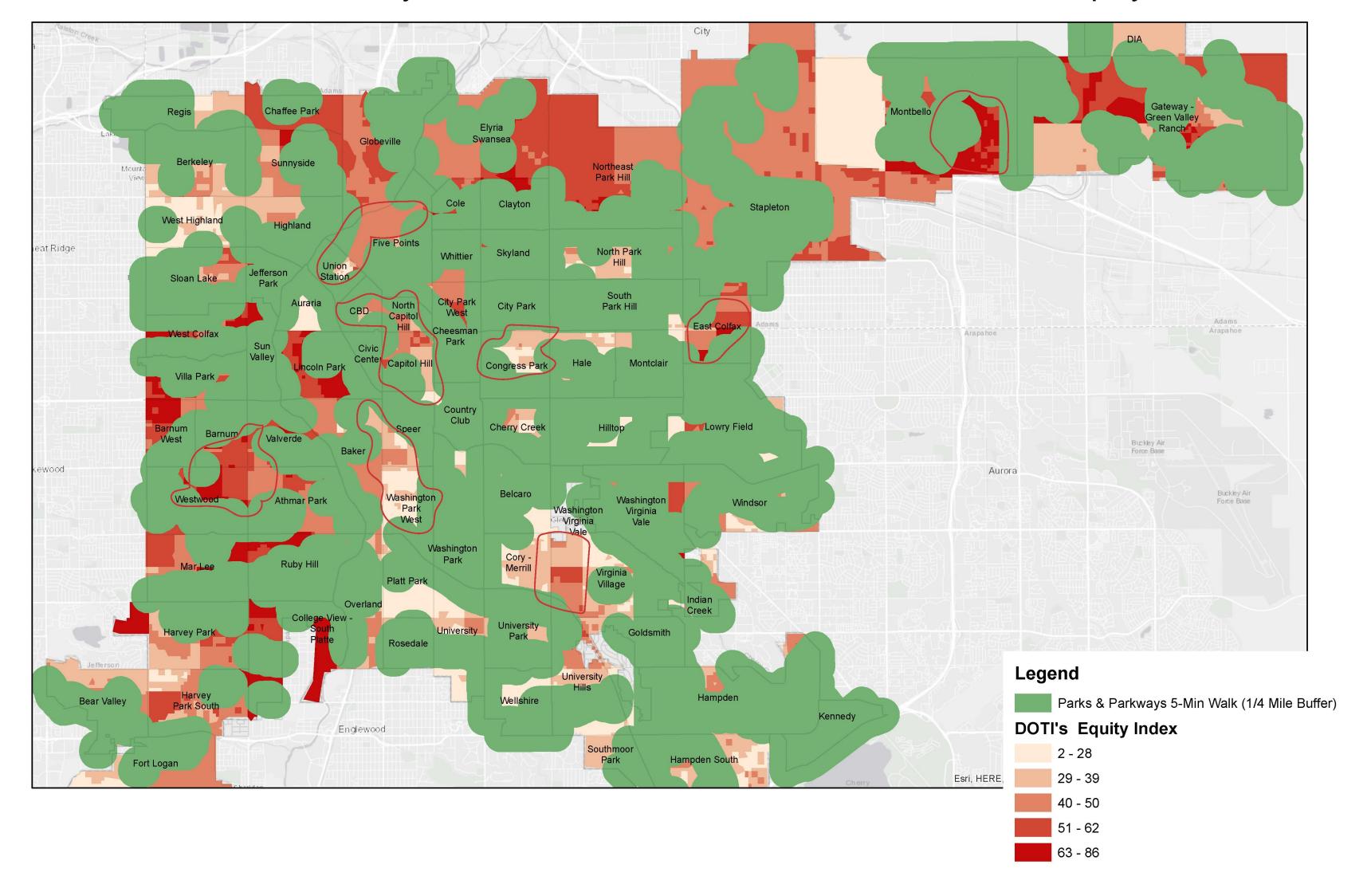
<u>Solution</u>: Denver created temporary shared streets to provide safe and high-comfort space for people to recreate and travel close to home.



### Denver's Parks and Parkways 1/4 Mile or 5-Minute Walk Buffer With Population Density Below



### Denver's Parks and Parkways 1/4 Mile or 5-Minute Walk Buffer With DOTI's Equity Index Below



### KPIs: Count Data



77% fewer vehicle trips



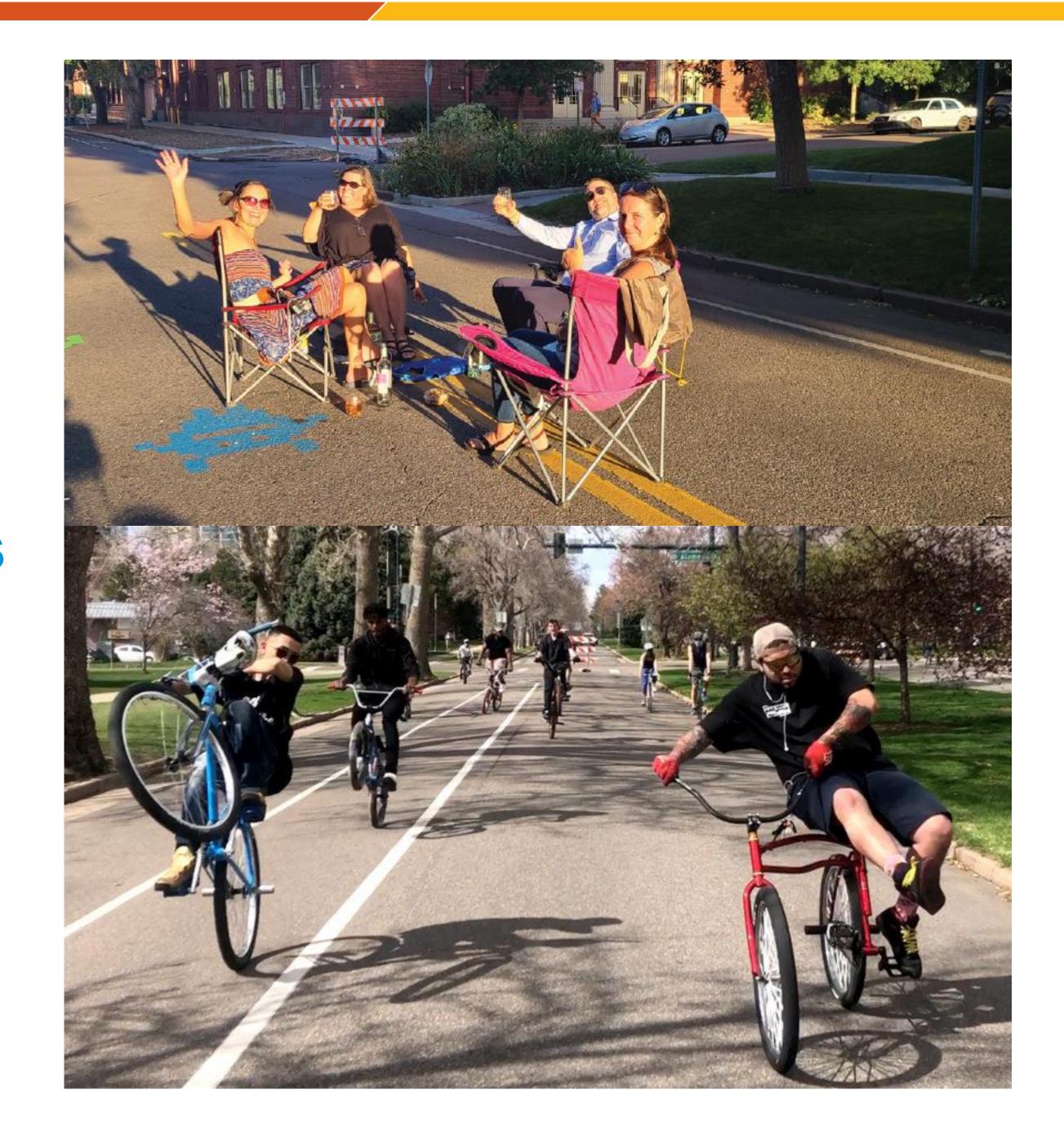
28% slower vehicle speeds



11<sup>th</sup>/16<sup>th</sup>/Marion > bicyclists than Cherry Creek Trail



~10K people per day



# KPIs: Micromobility Data







# Community Feedback



Unanimous political support



Strong community support



Advocacy praise



State & national recognition

# Making Equity a Reality

Providing attention and resources to the areas, assets and people of the city with the greatest need.

"Recognize that disparities exist."

"Relentless pursuit of closing the gaps and removing barriers."