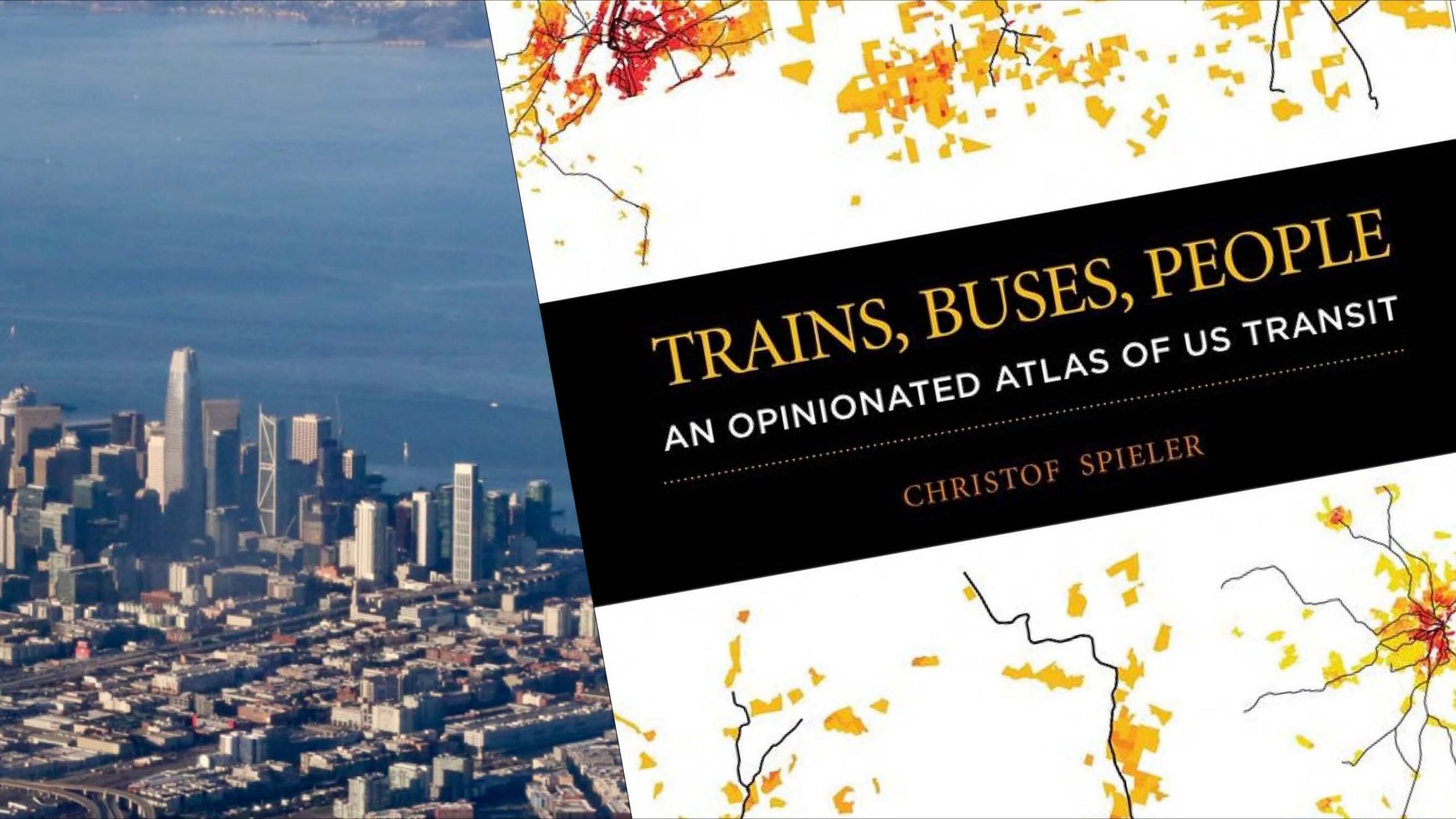
## SPUR MWSPUR

Ideas + Action for a Better City

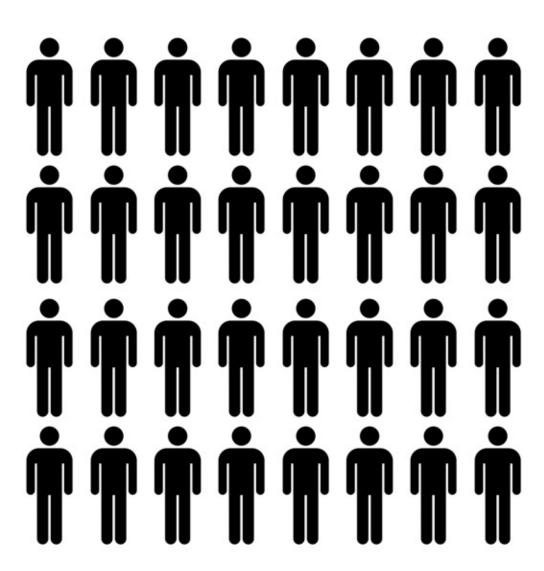
learn more at SPUR.org





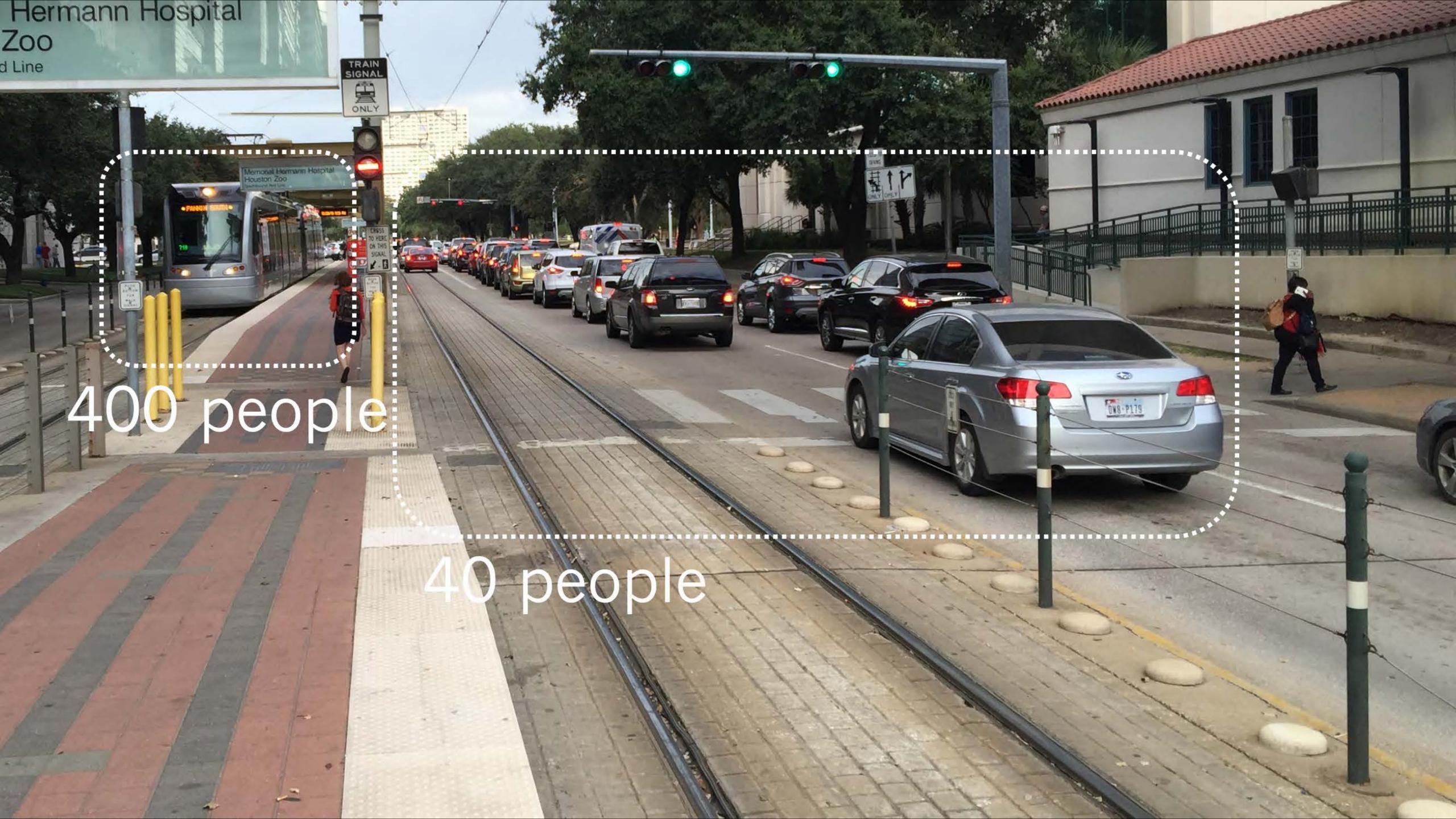








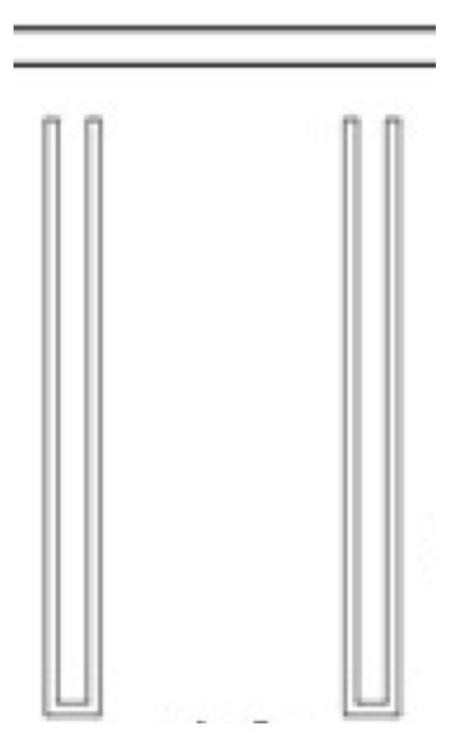


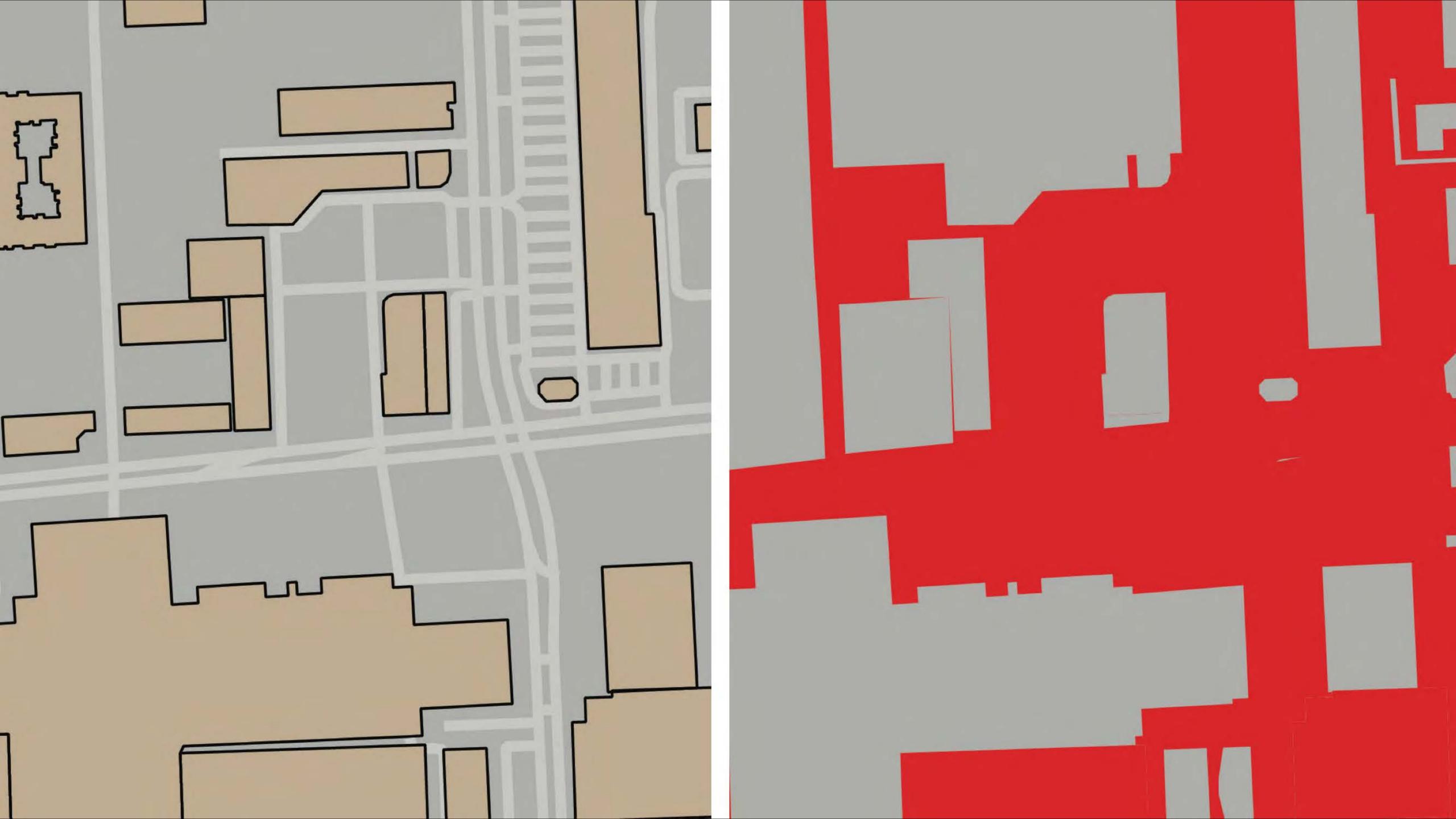


8'6" x 8' 6"



## 8'6" x 18' 0"











## FUNDING AND GOVERNANCE



The most common structure for large systems today is an independent agency. Created by state logislatures and often ostified by a public vote, there agencies are and often ostified by a public vote there agencies are independent of offic course; and state government, and they can have same that cover entire metropolitan they can have same public tanks of officials. But sometimes the companies are a big part of operating trends entirely can have same public tanks of operating trends of officials, but sometimes and course the property of the task vegets business in the task vegets and positions. But the task vegets have same business of the task vegets business in the task vegets and task to task the task vegets and the task vegets and task to task task the task vegets and task to task the task vegets and task ta



WALKABILITY

29. CINCINNATI

29. Cincinnati—Wilmington—Maysville, OH-KY-IN

population 2,208,450 (32nd) weakday trips per 1,000 31

Cincinnati has an obvious primary trainit corridor: (mmx Covington, Kentucky, across the river through Diseasement, and then up the half to Upstom, Covington and University of Cincinnati, and its medical scener. Unfortunately, it has the University of Cincinnati, and its medical scener. Unfortunately, it has suffered of these.

The Cincinnati streetical; like many other recont streetical systems, came to the development of the city is population praced at 500,000 in 1950 and has been declaring ever since, dropping below 300,000.

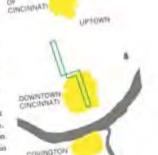
Southward Training Street, and the control of the city is population praced at 300,000 in 1950 and has been declaring ever since, dropping below 300,000.

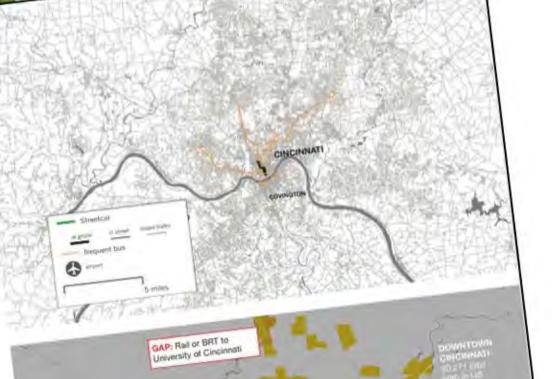
Southward Training Street, and the Upstom, and the Upstom of the city is population praced that "he city is not leading in properties of isolation by the city manager identified that "he City manager identified that "he City isolated that "he City is not leading population of which should appreciated a street and properties of isolation of which should ink Downtown and Upstown, the city too leading population of which should link Downtown and Upstown, the city too leading population of which should link Downtown and Upstown, the city too leading population of which should link Downtown and Upstown, the city too leading population of which should link Downtown and Upstown in new development of the city is not leader to should appreciate the content of the city is not been declaring population of the city is not been declaring population of the city is not been declaring population of the city is not been declaring and the city is not leading population.

The Cincinnati Breen declaring the city is not leader to the city is not lea



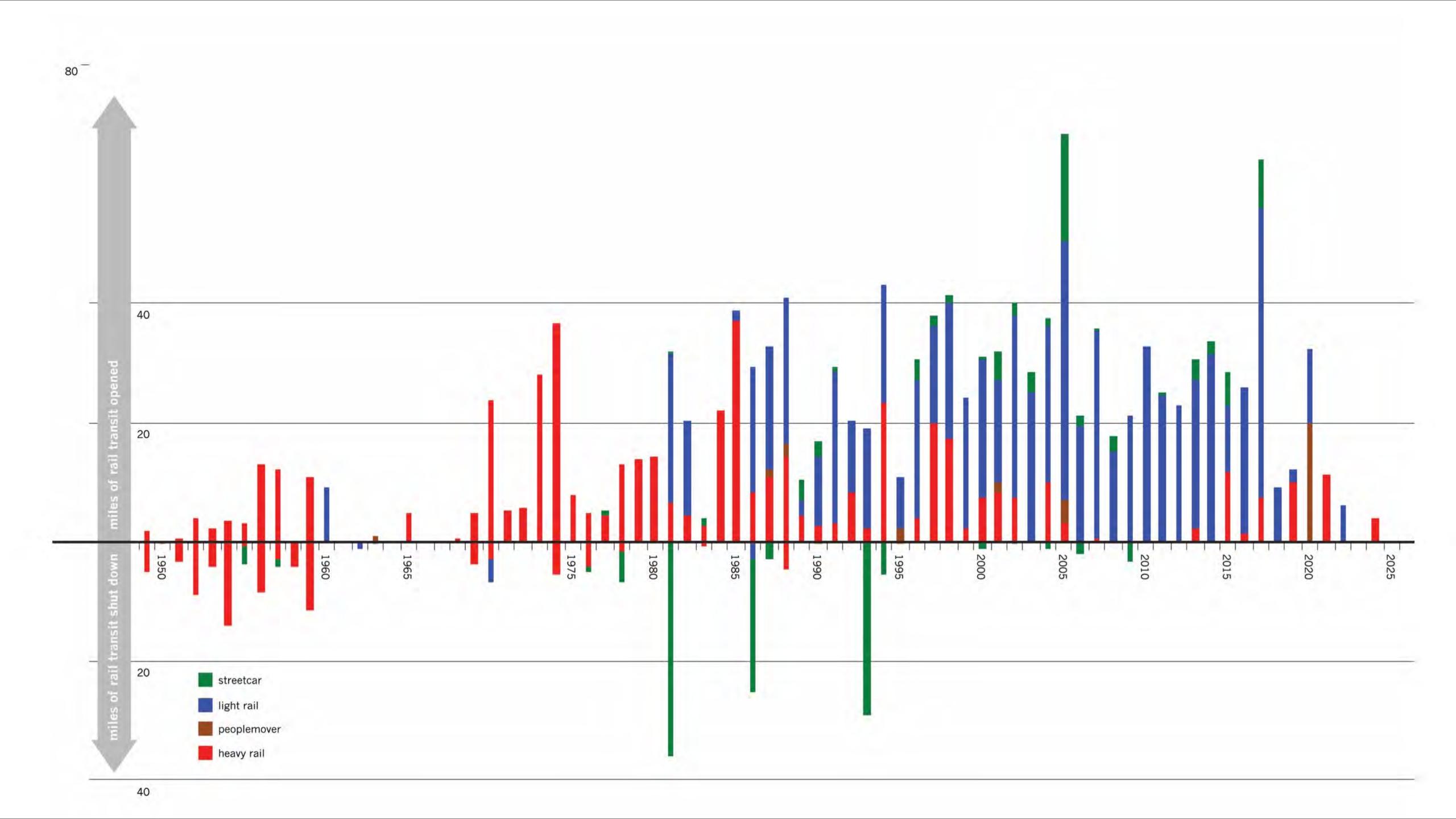


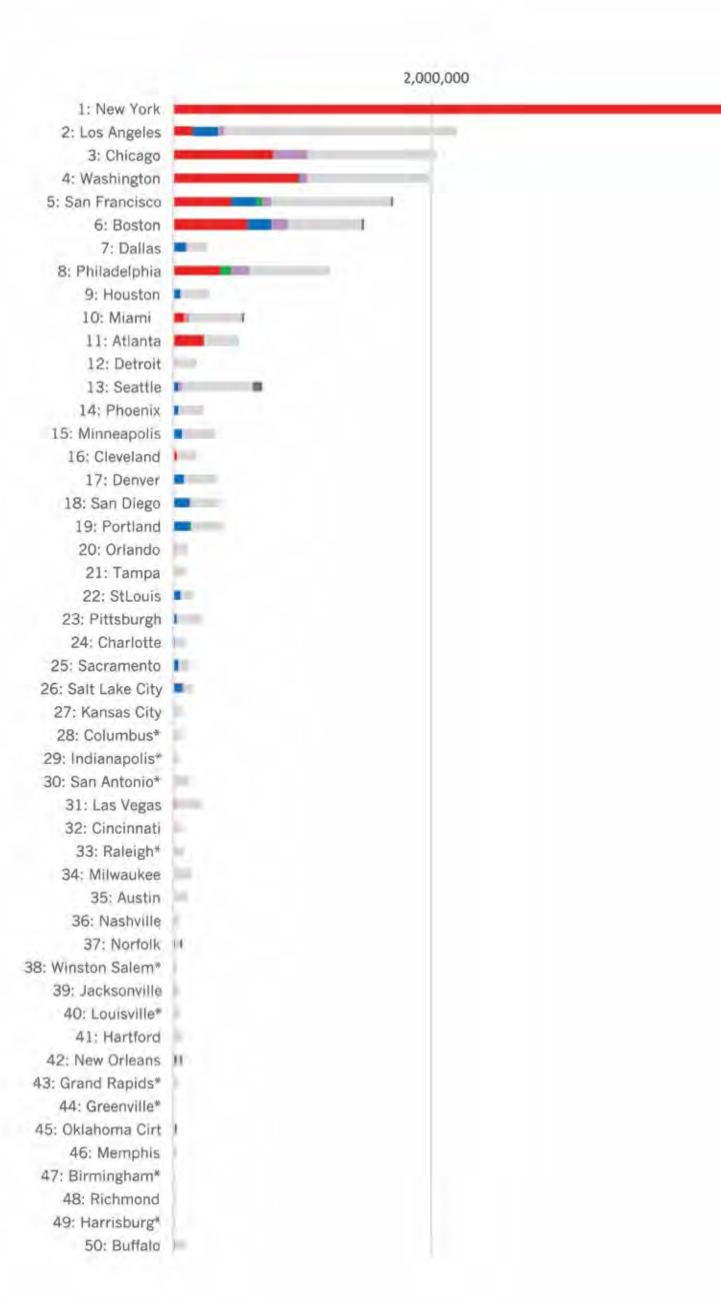




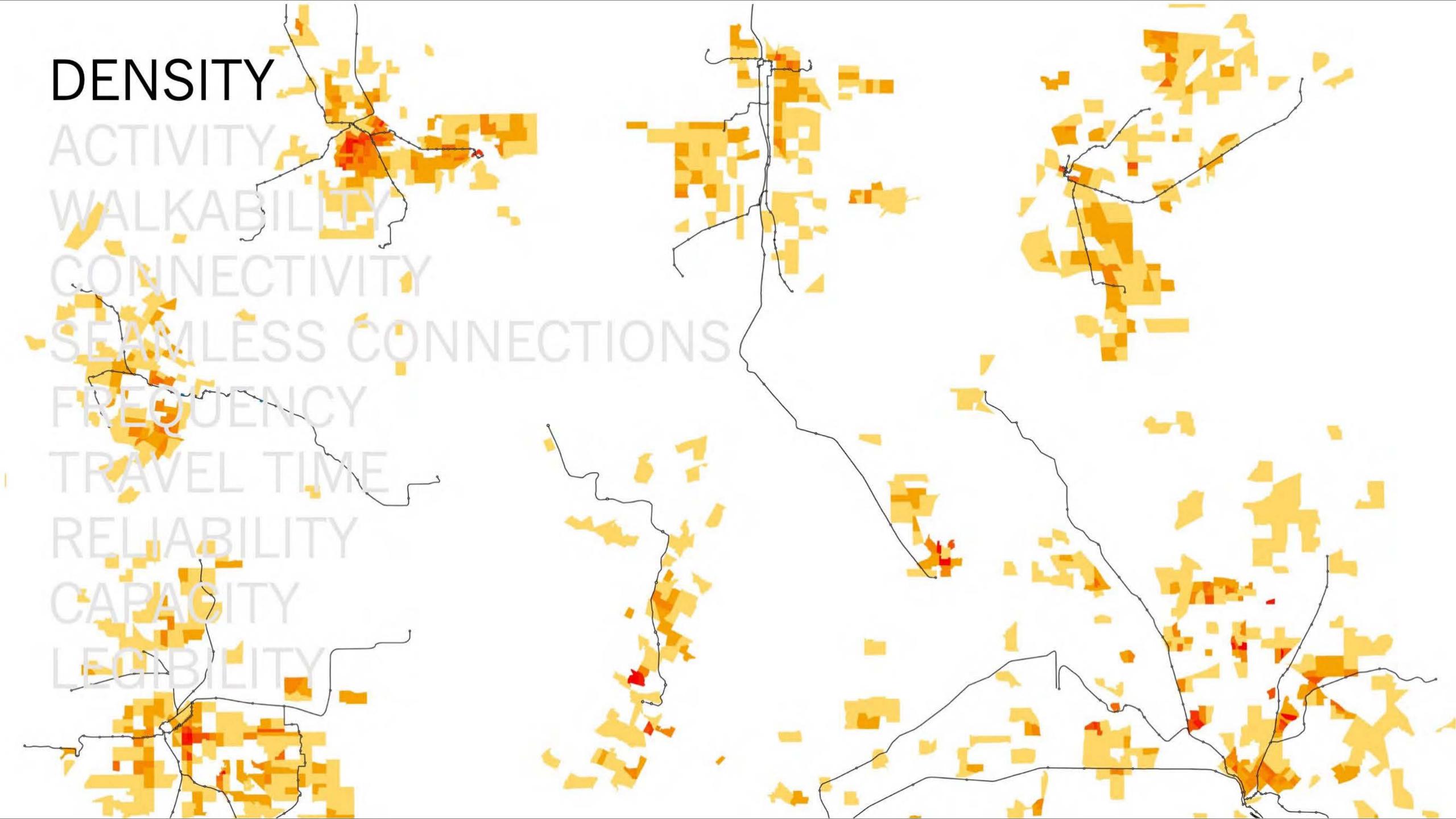


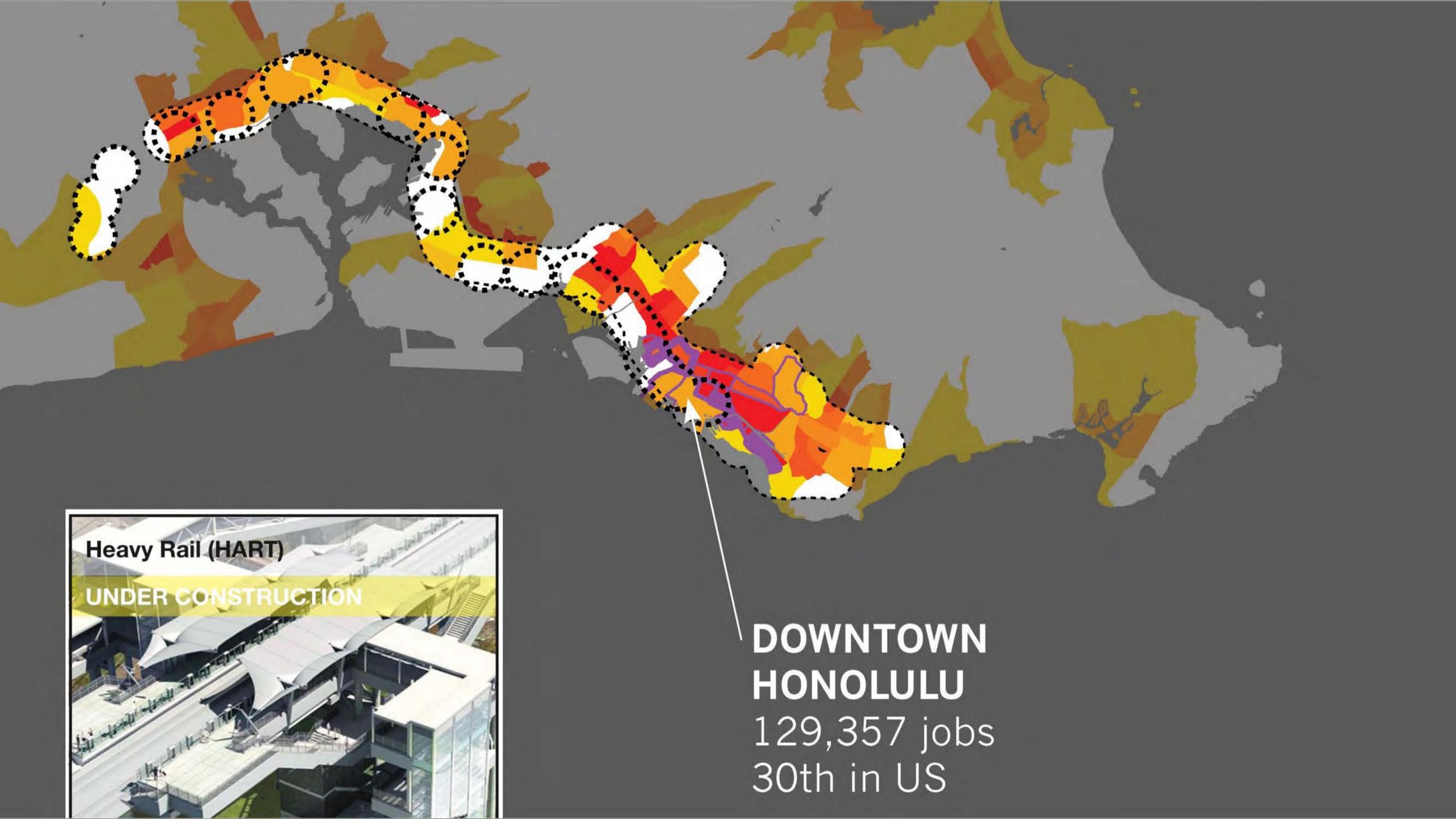


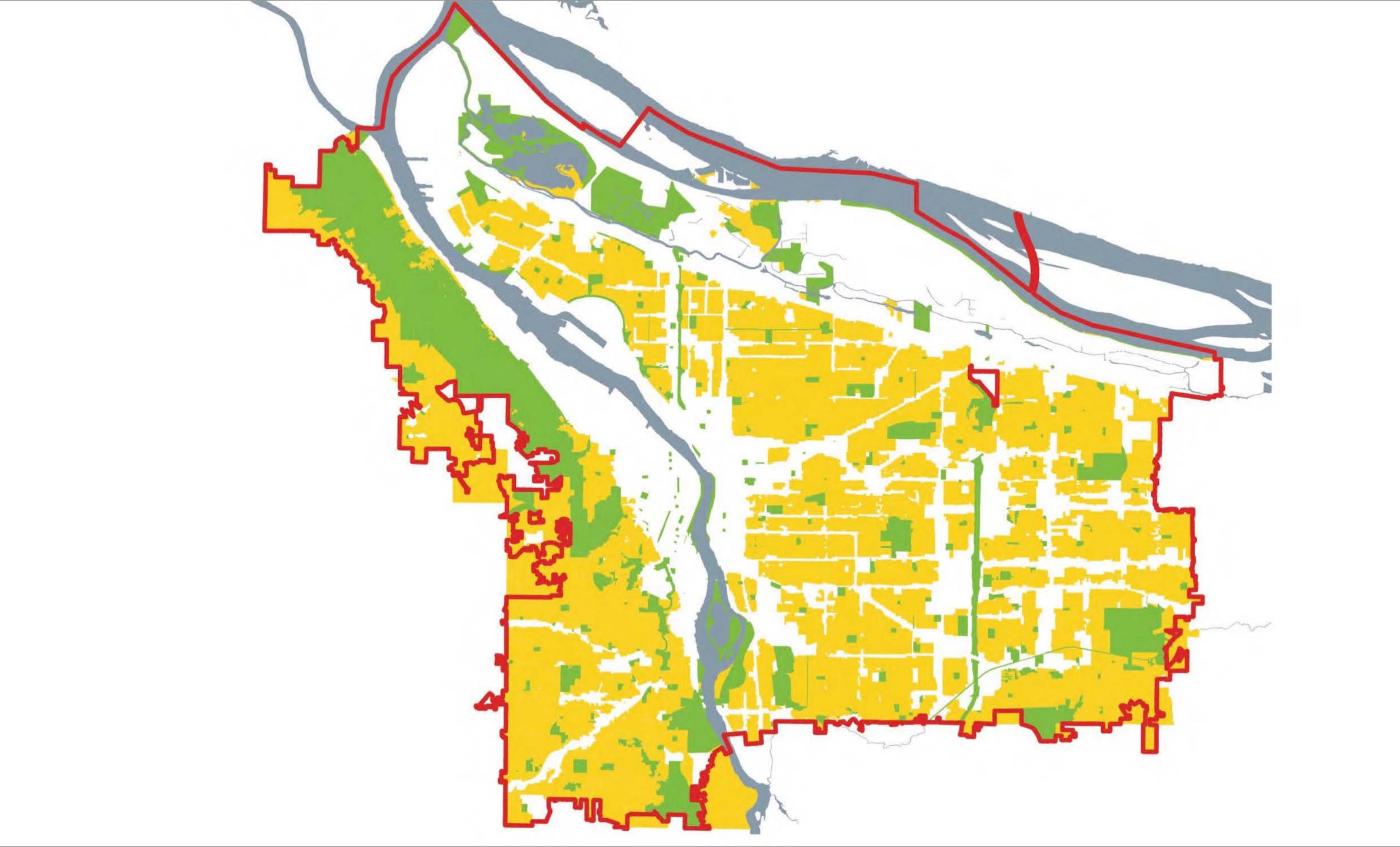




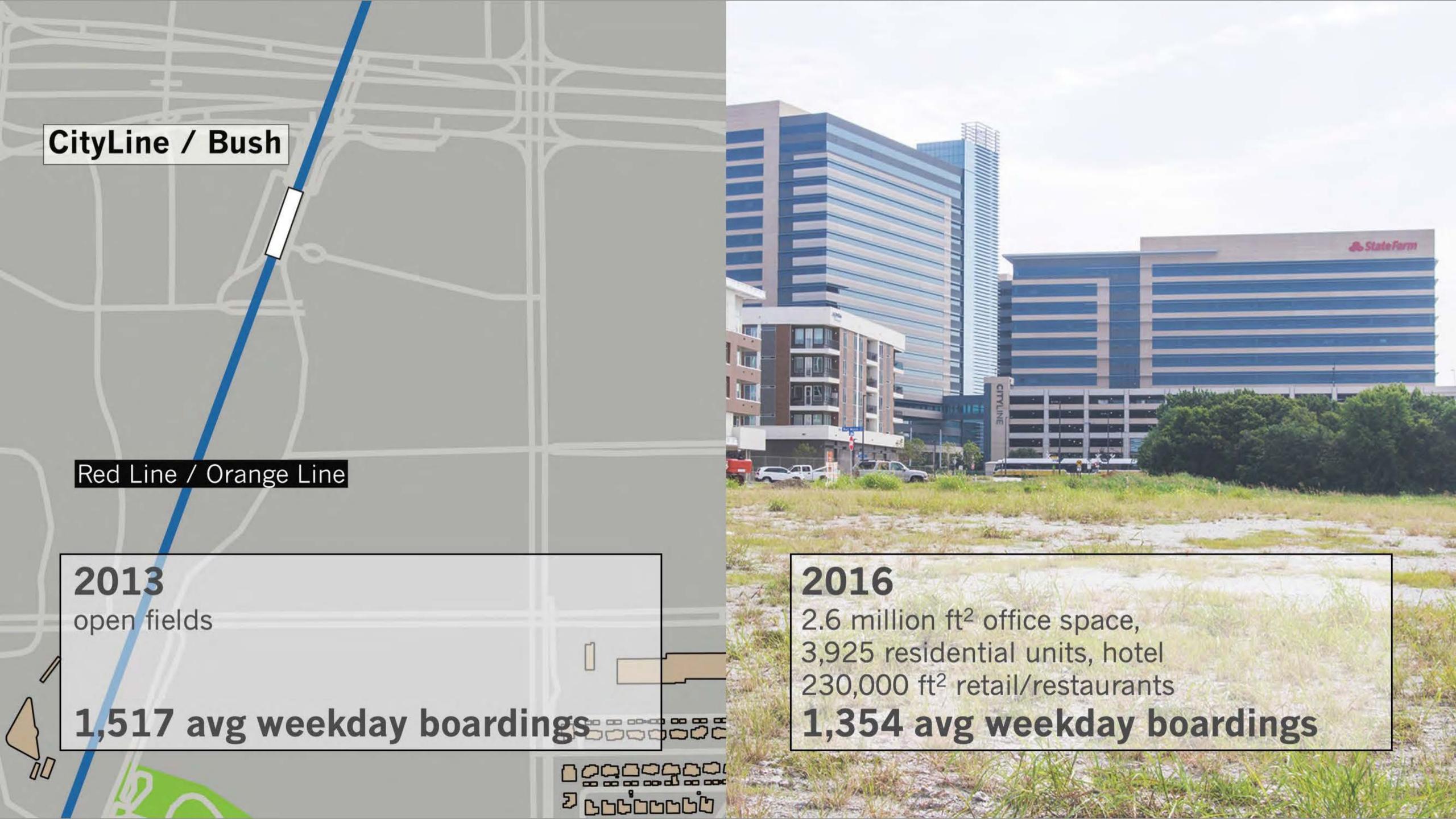




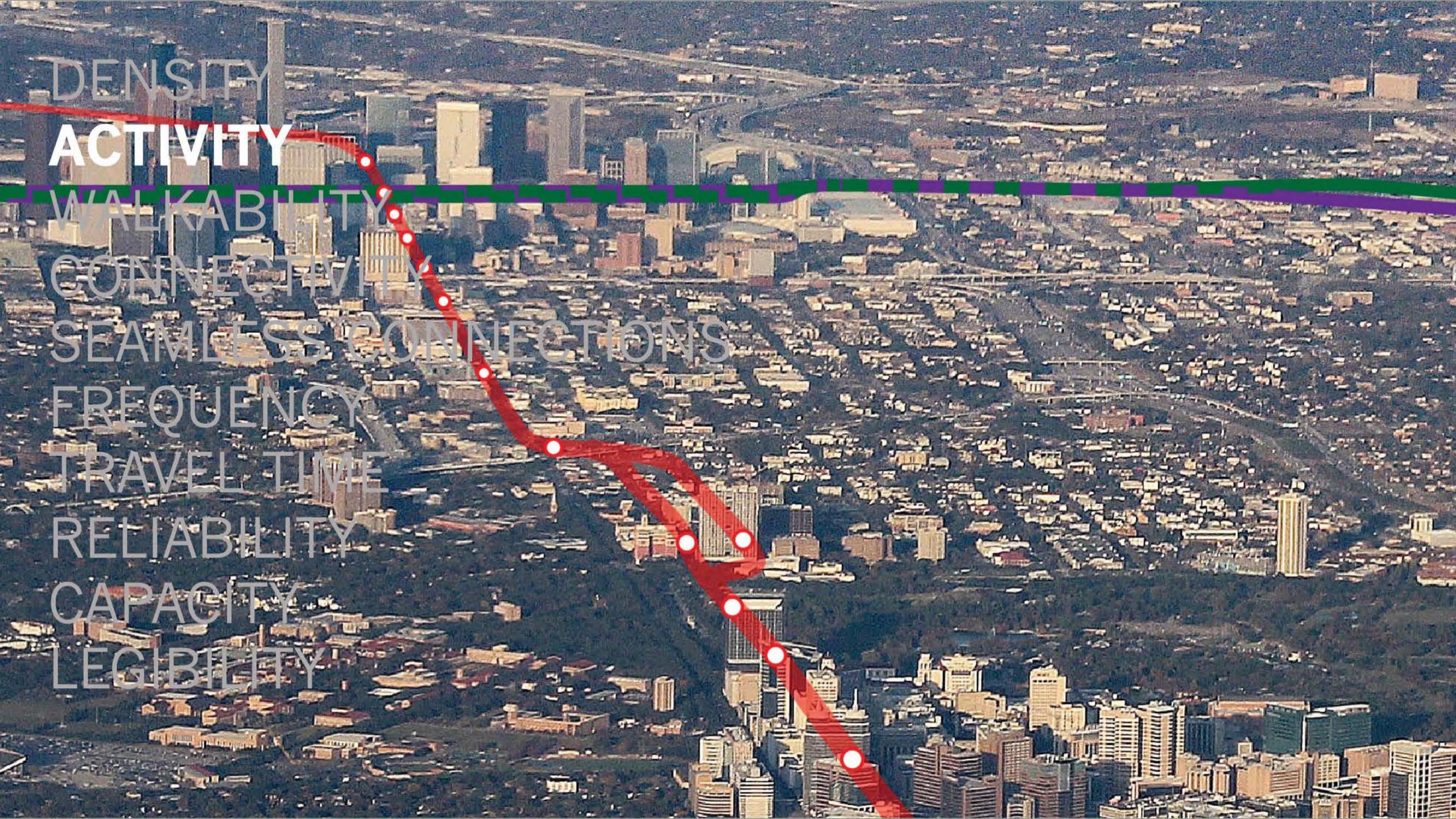


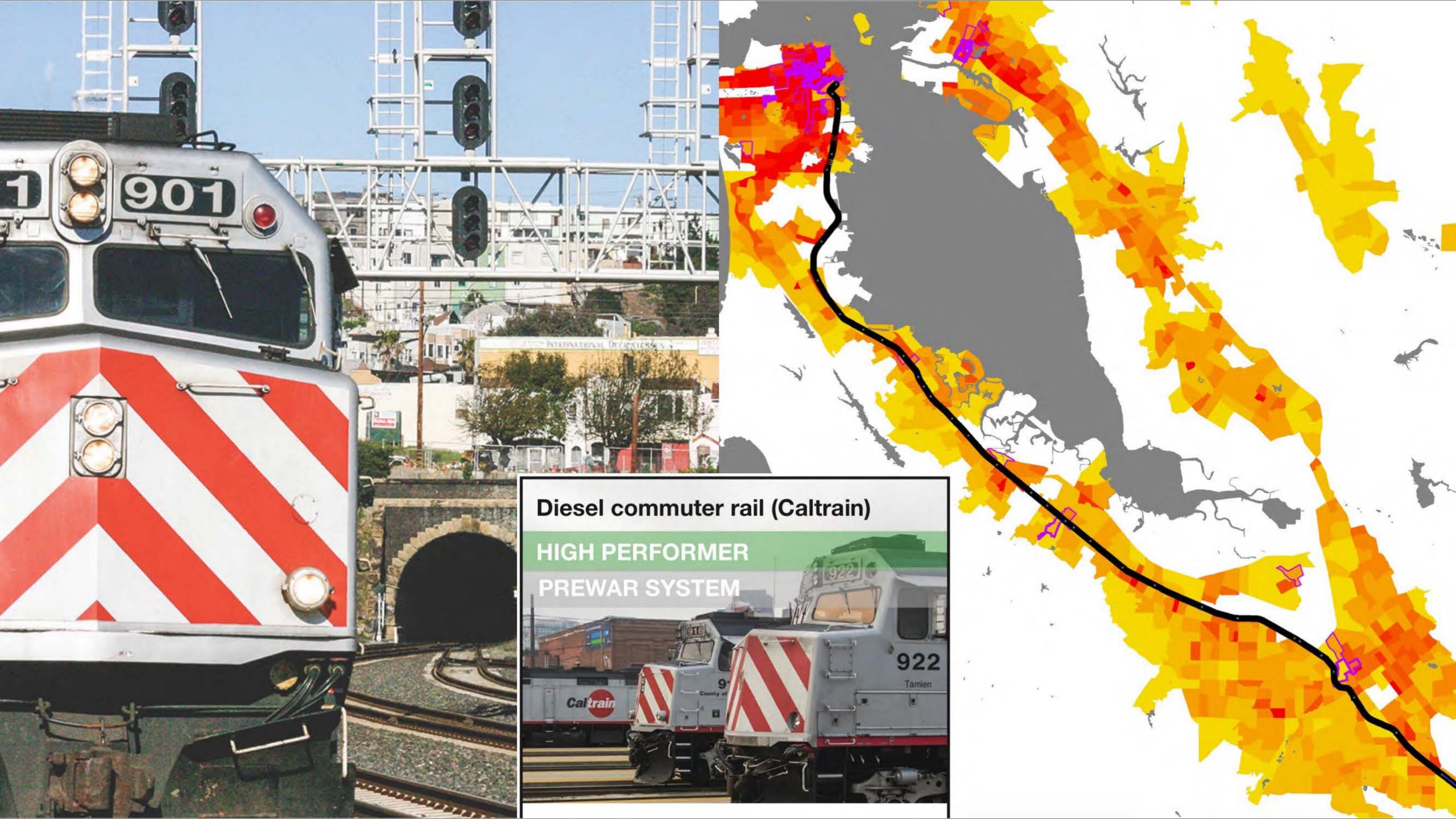


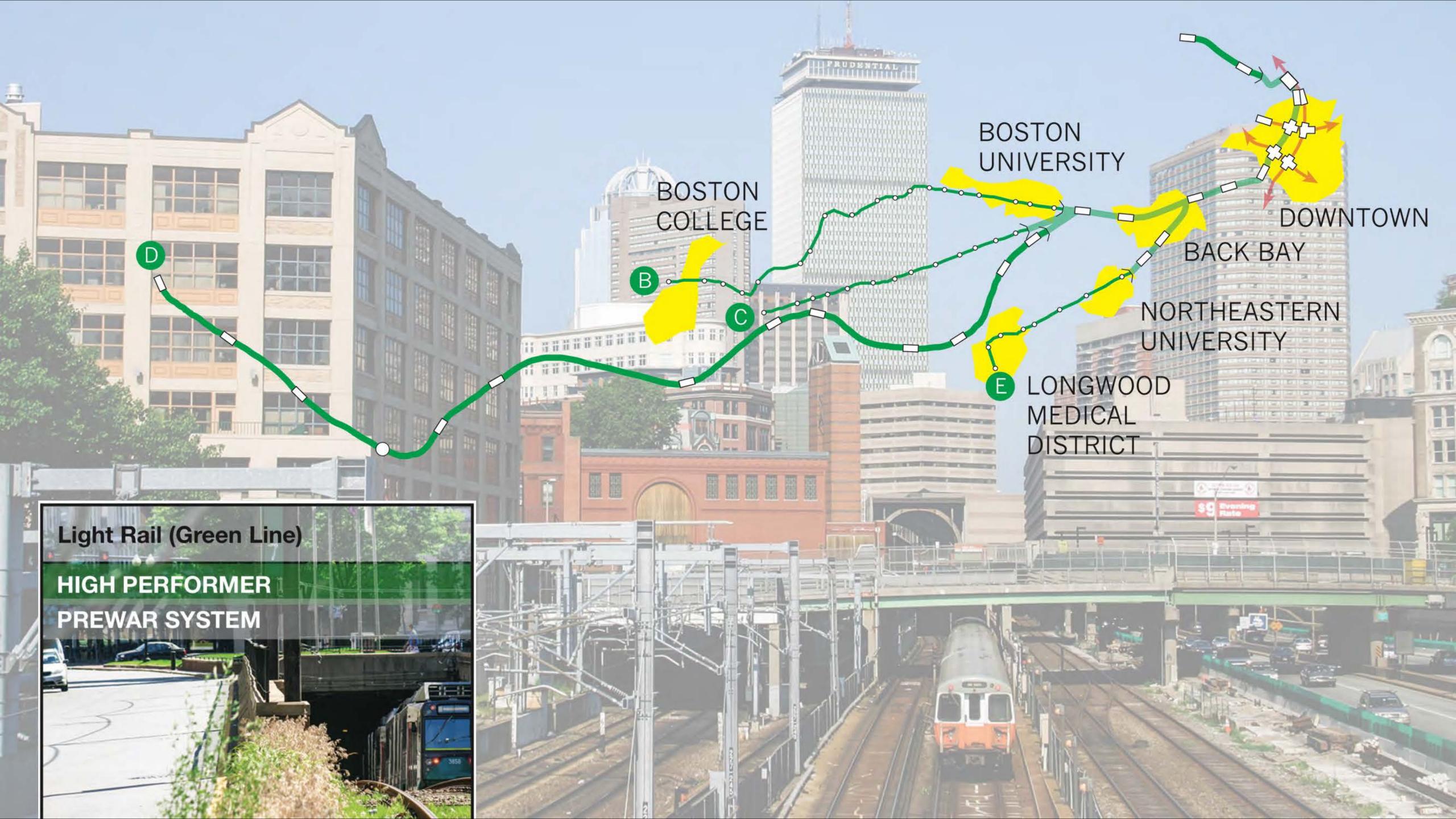




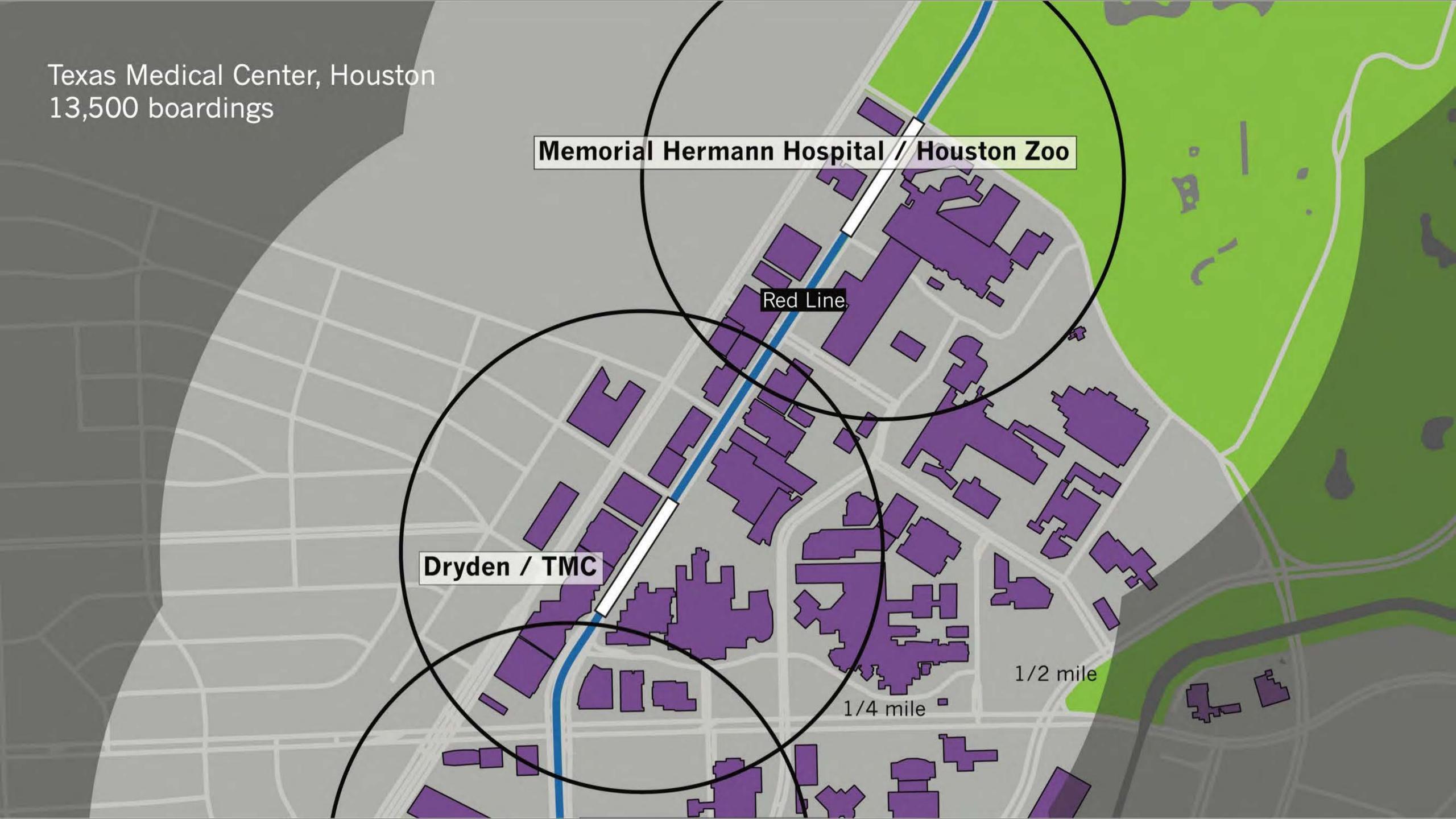


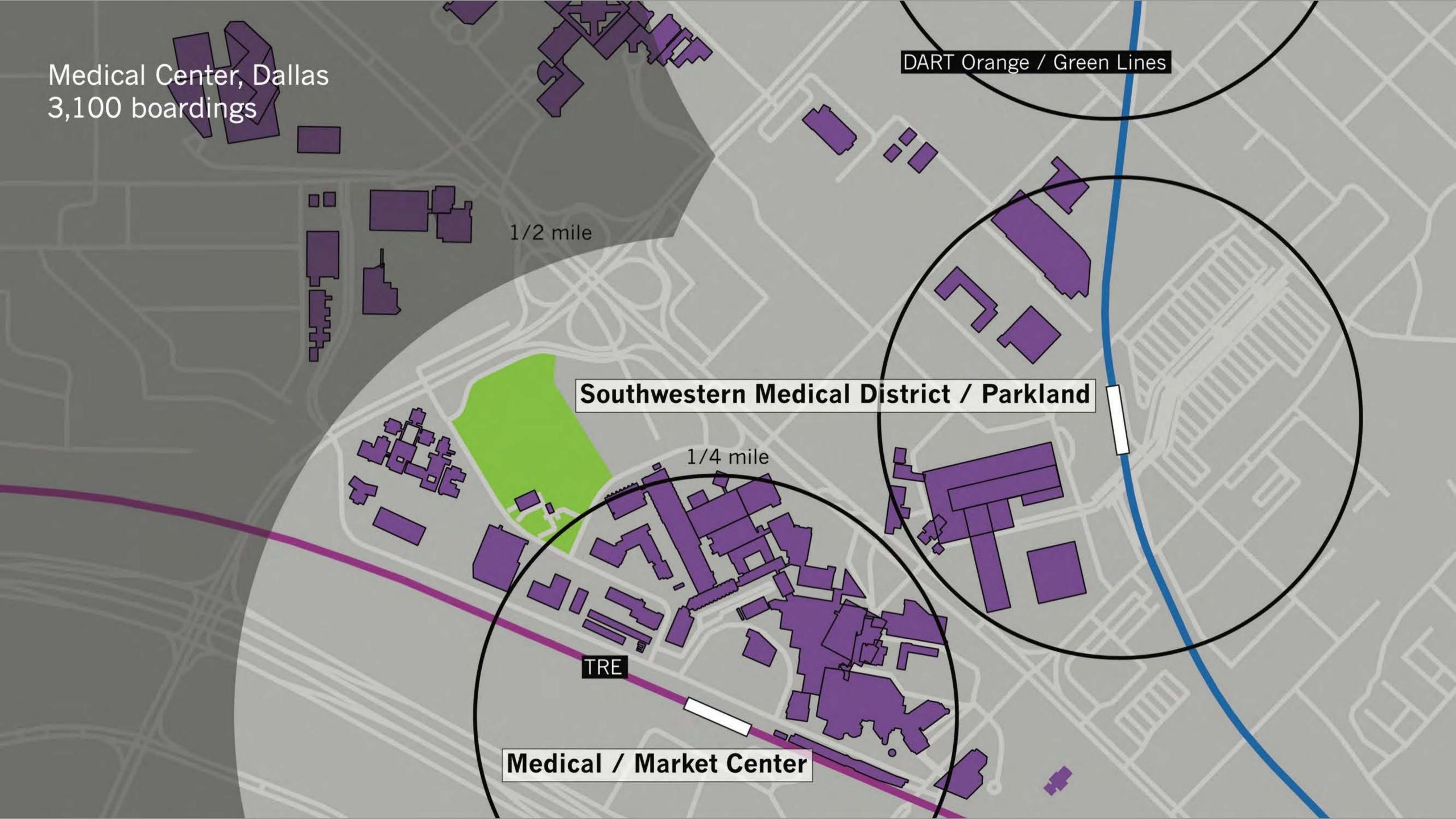


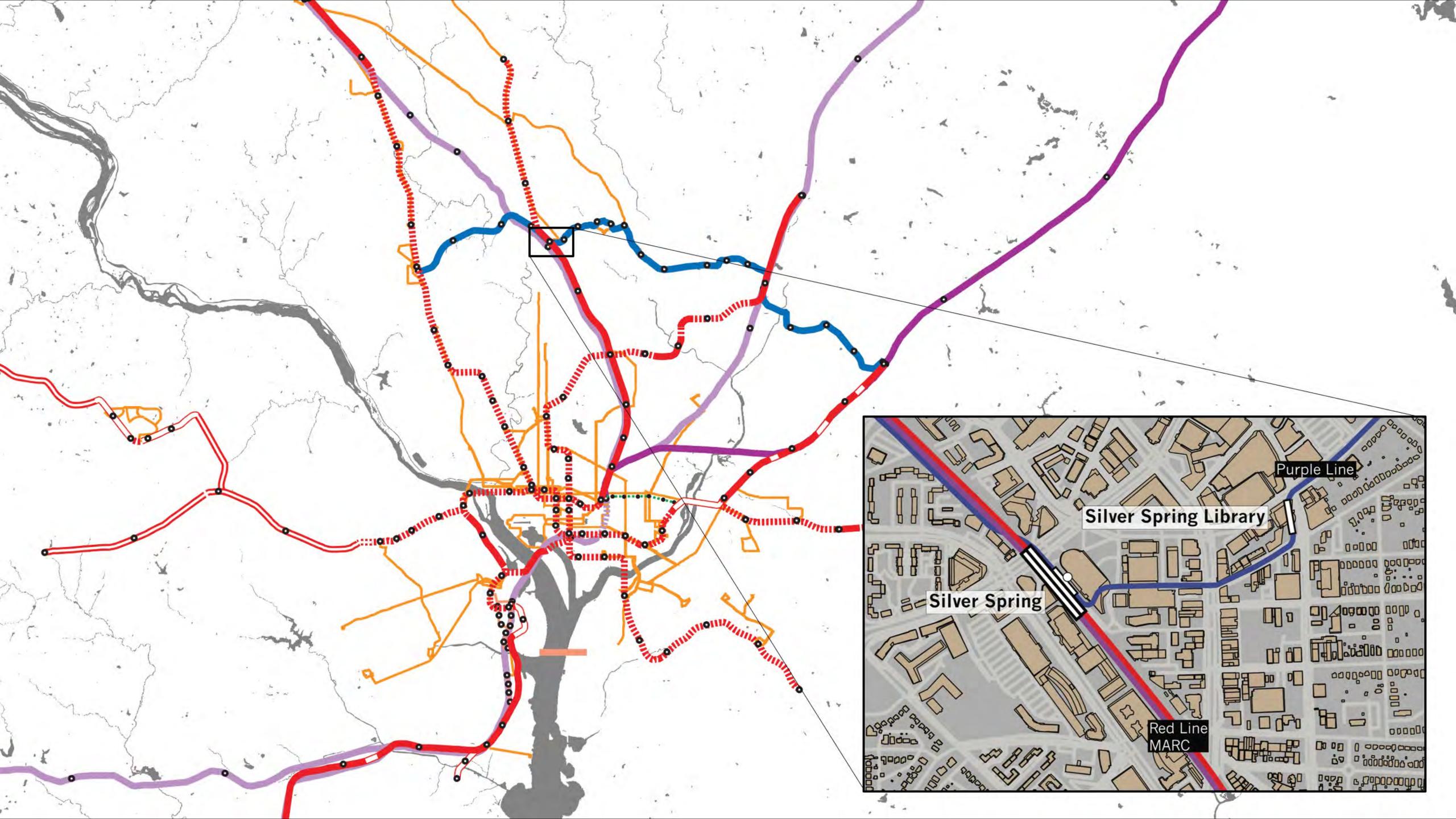












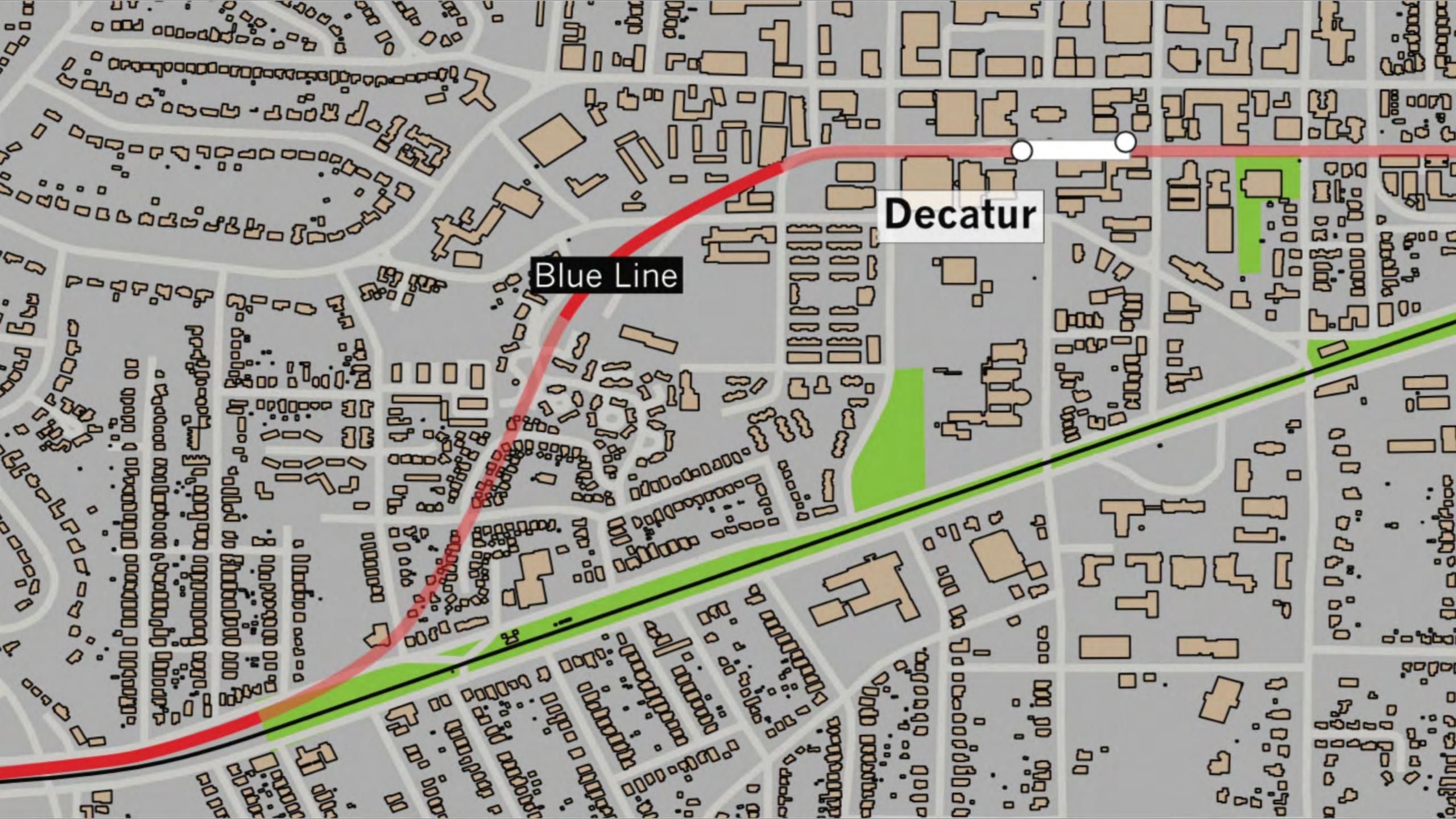




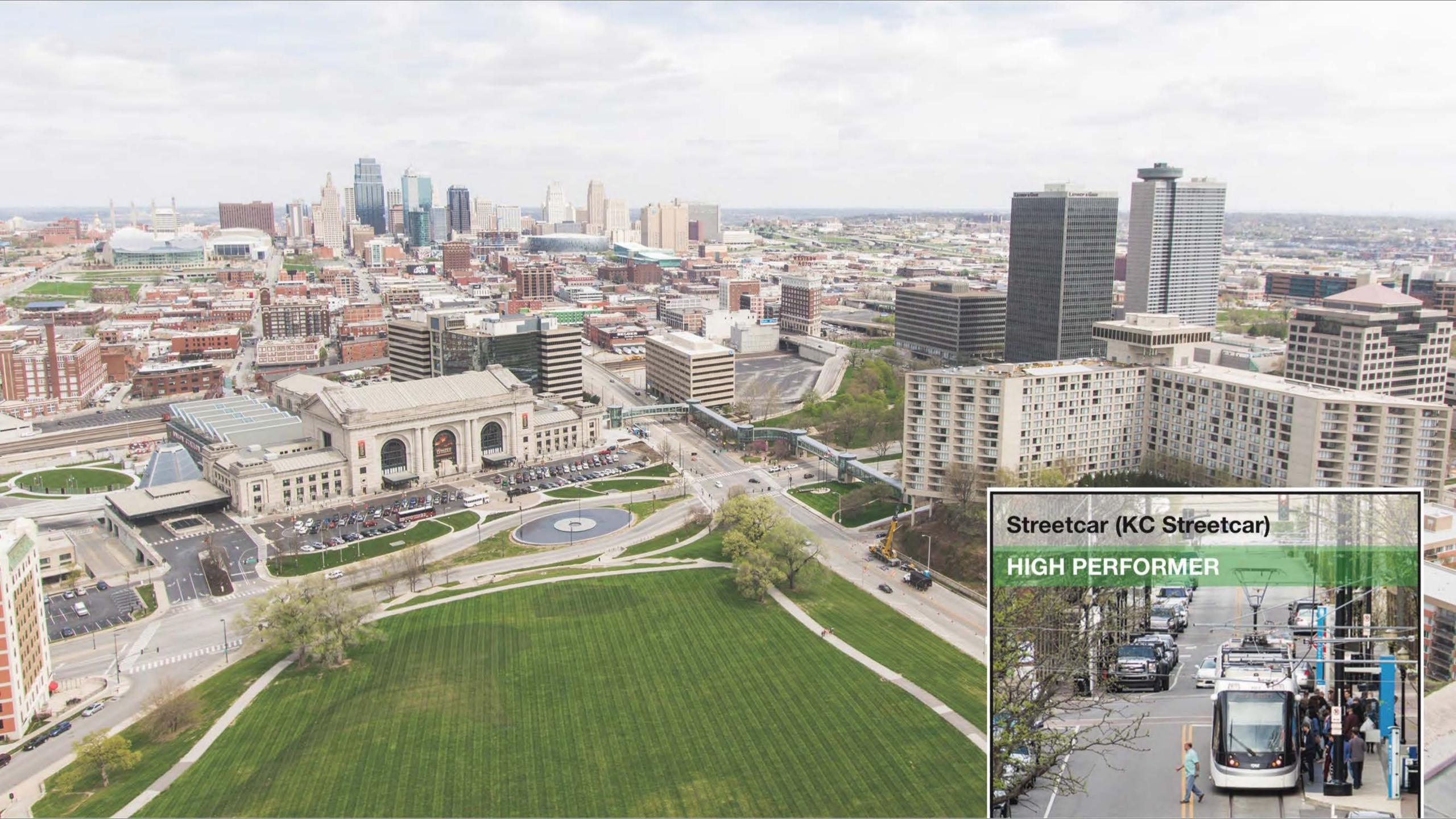


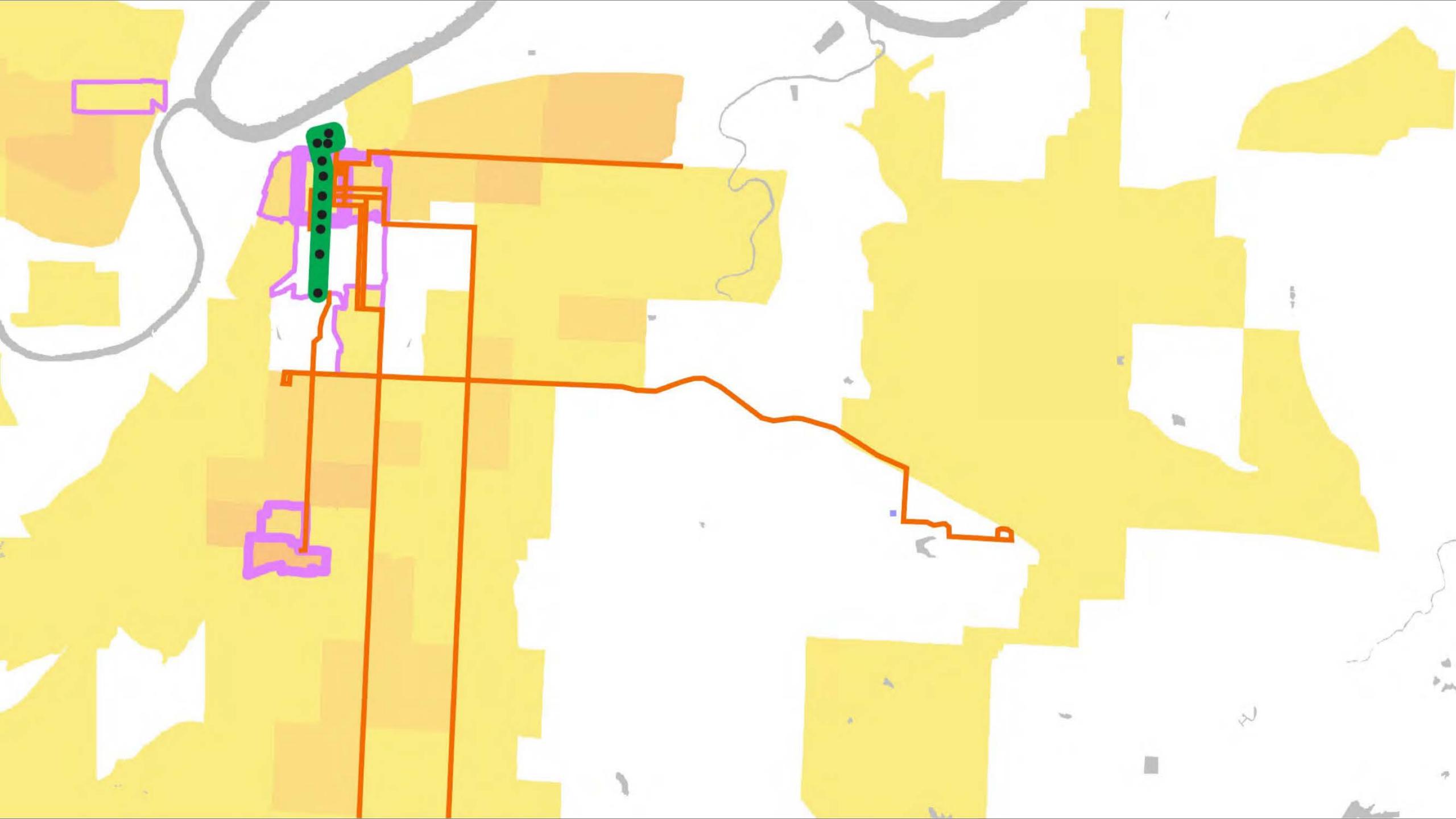




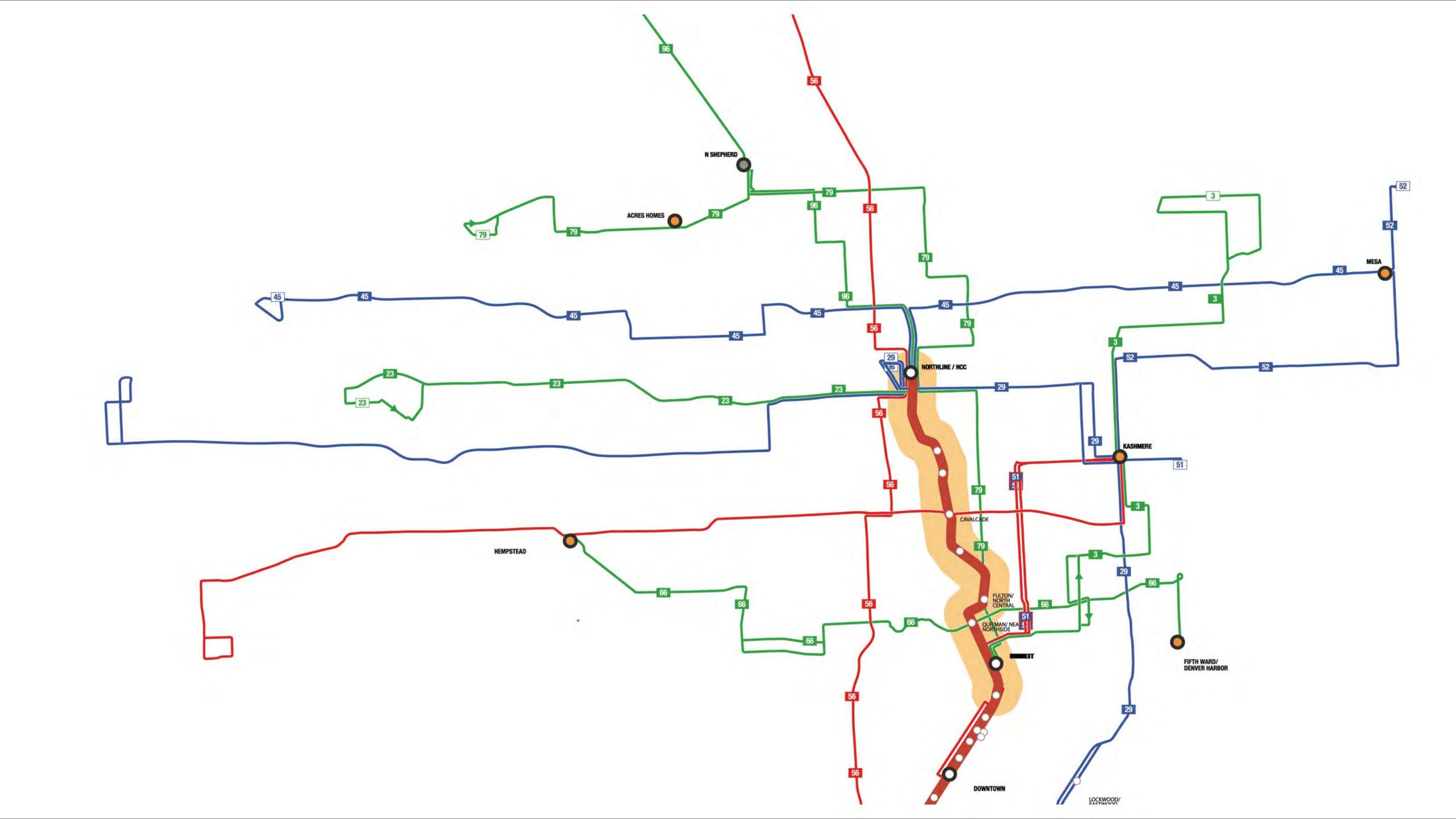


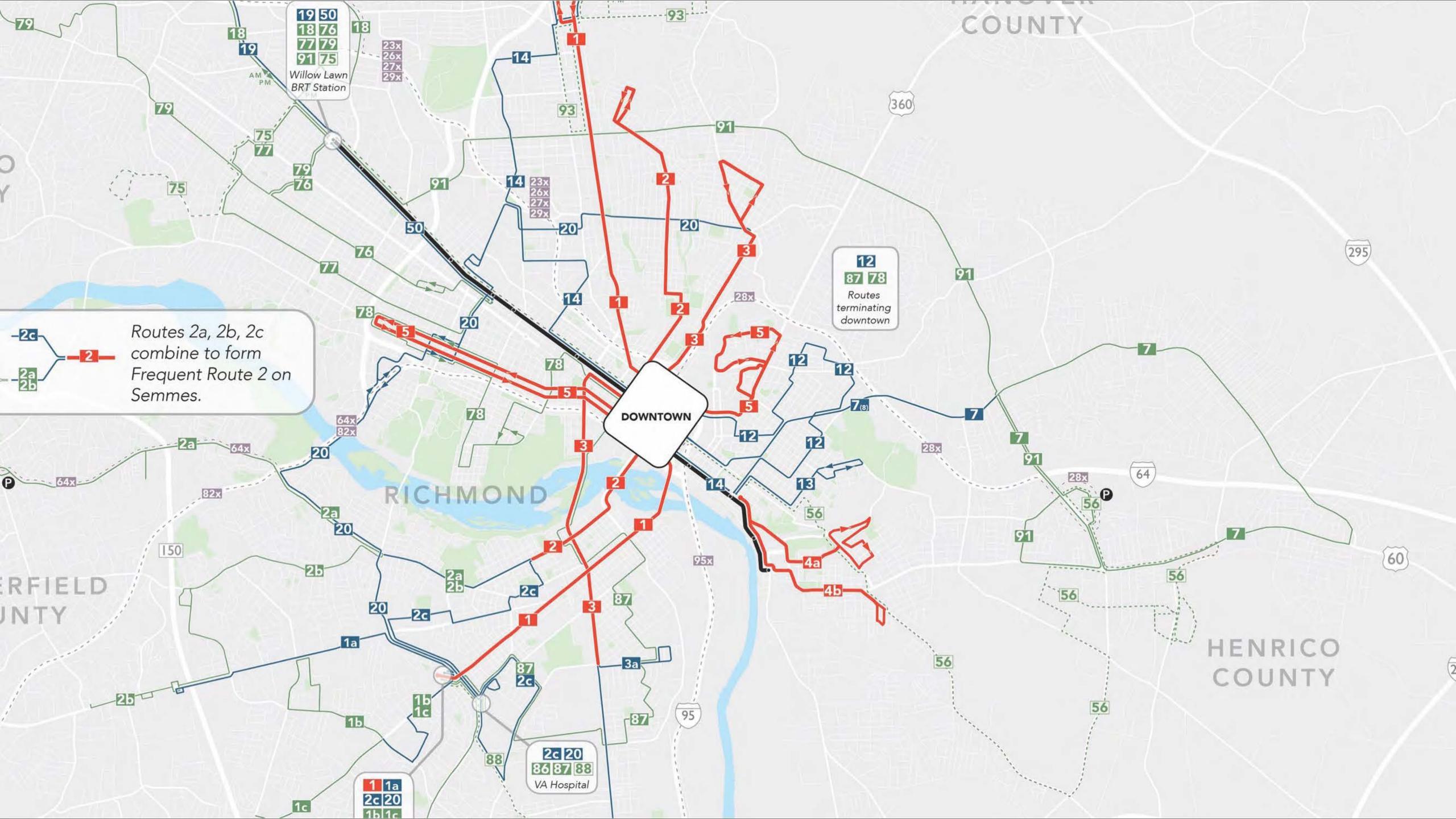


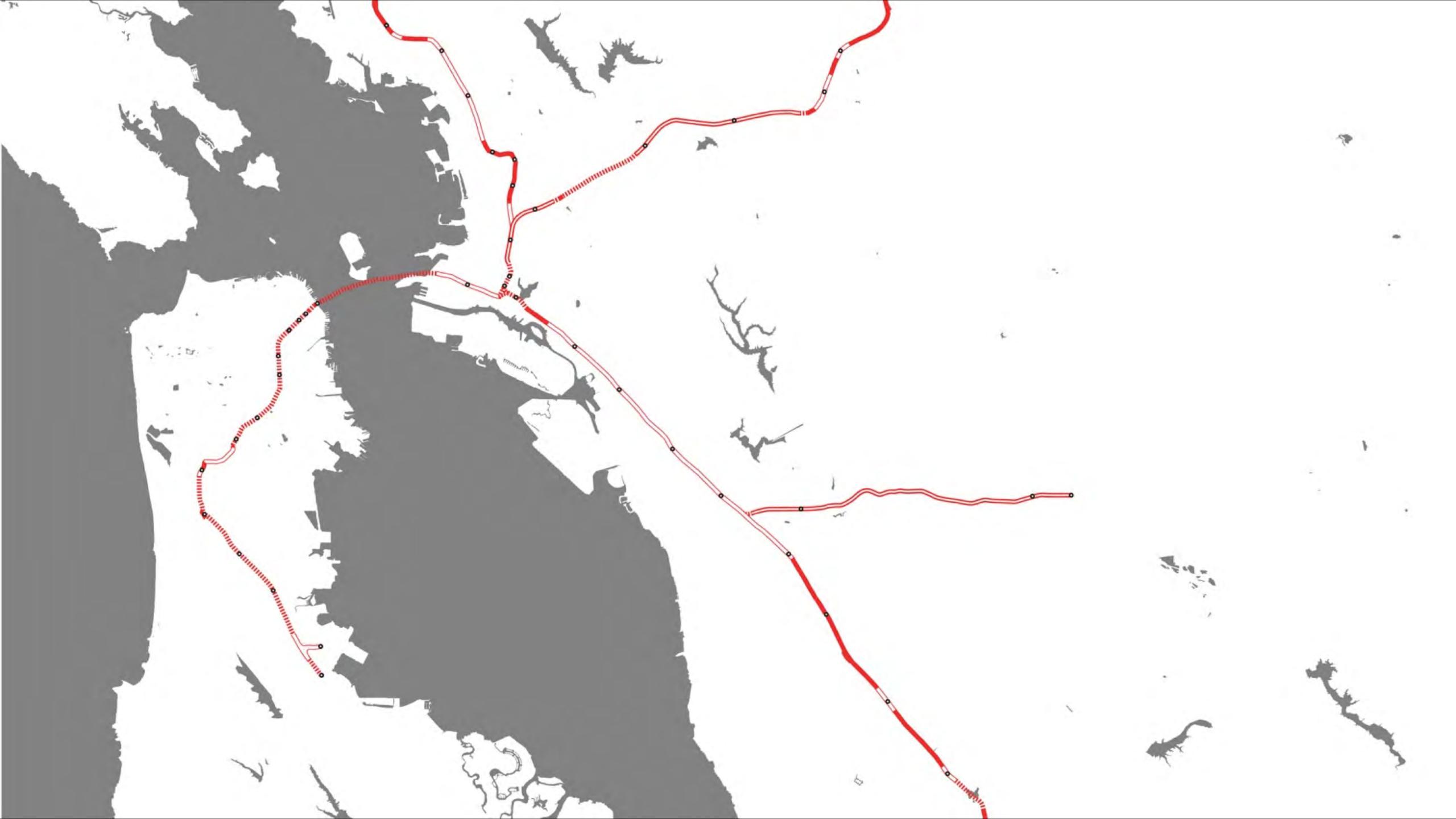


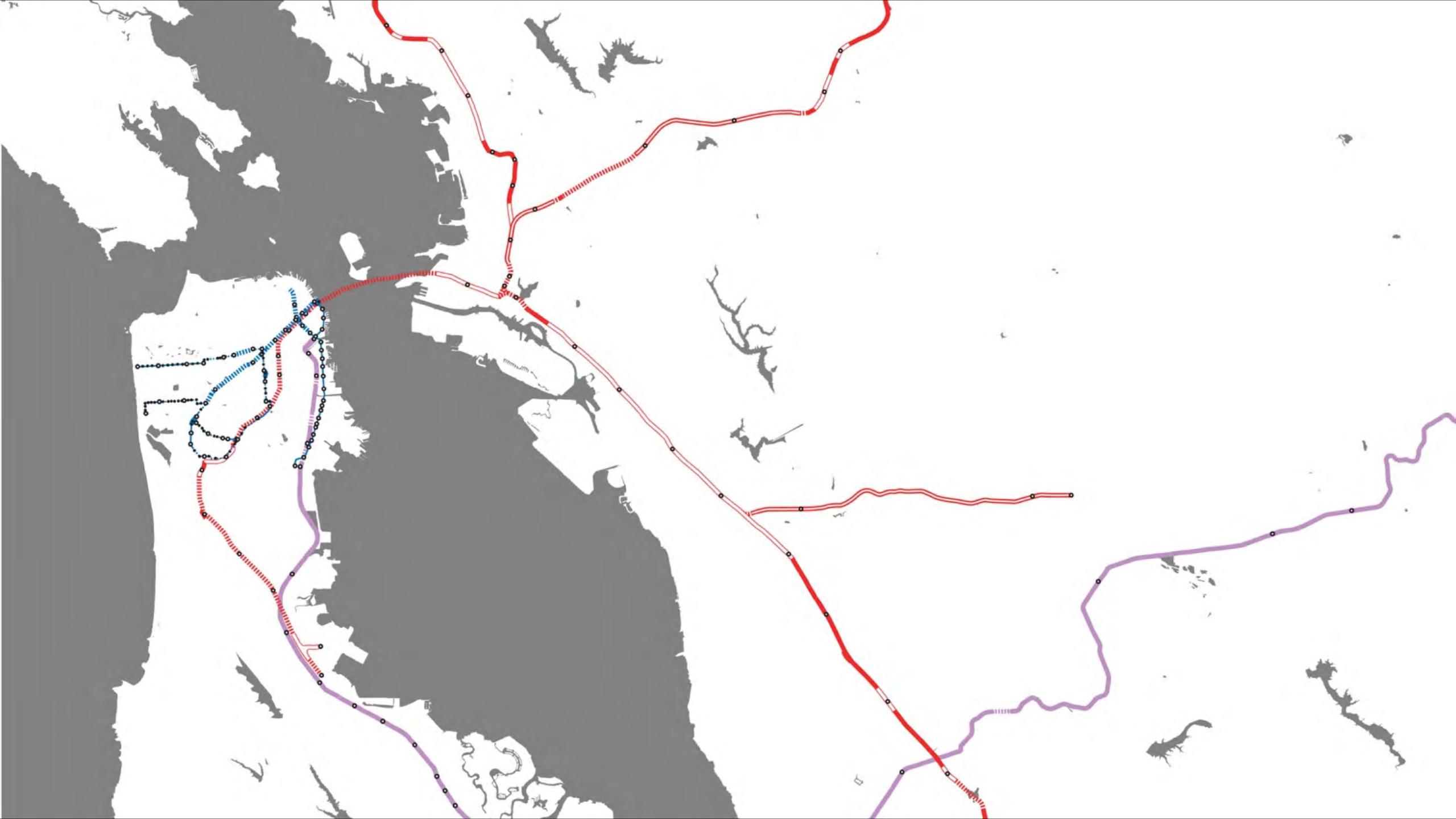


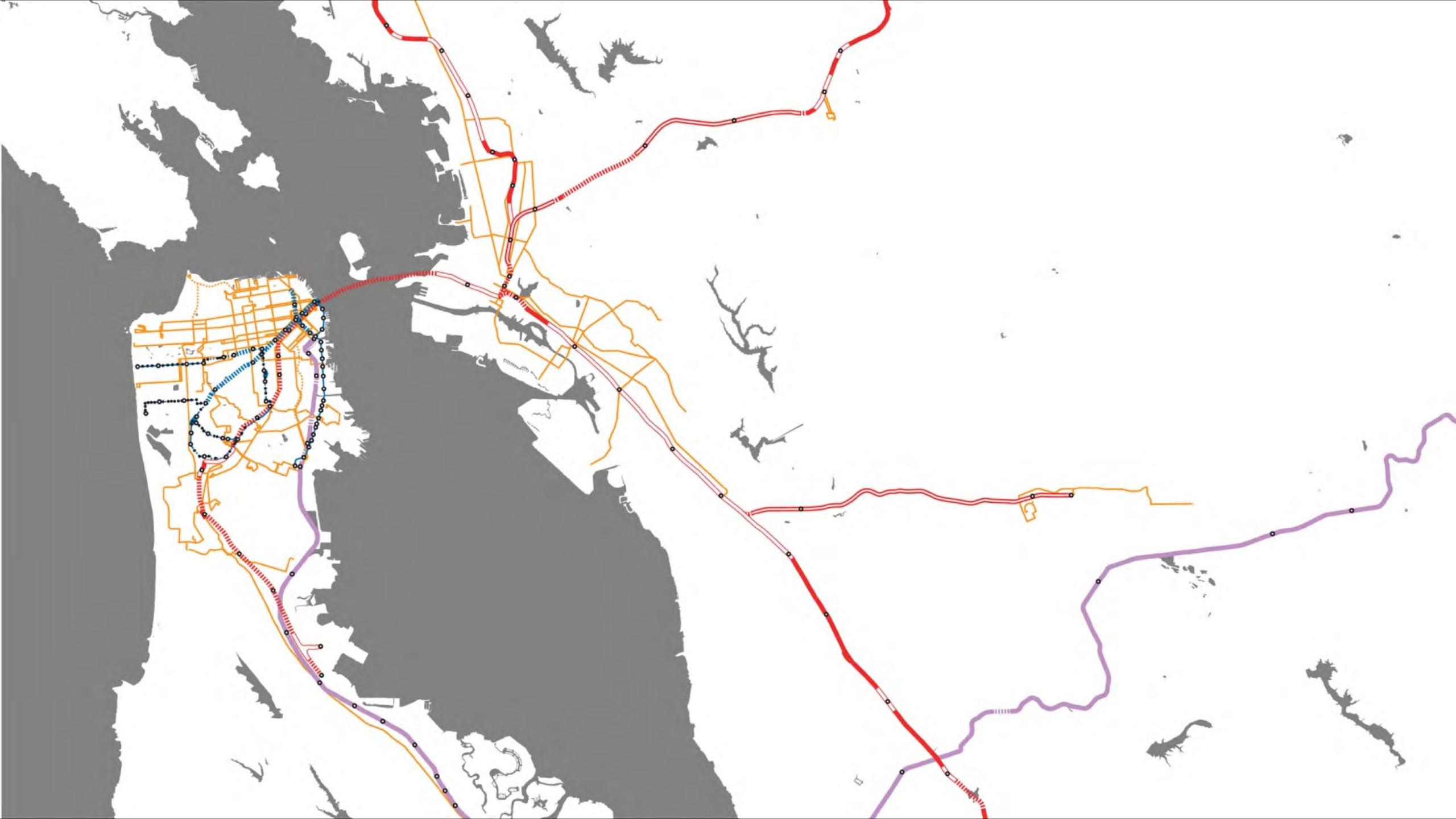














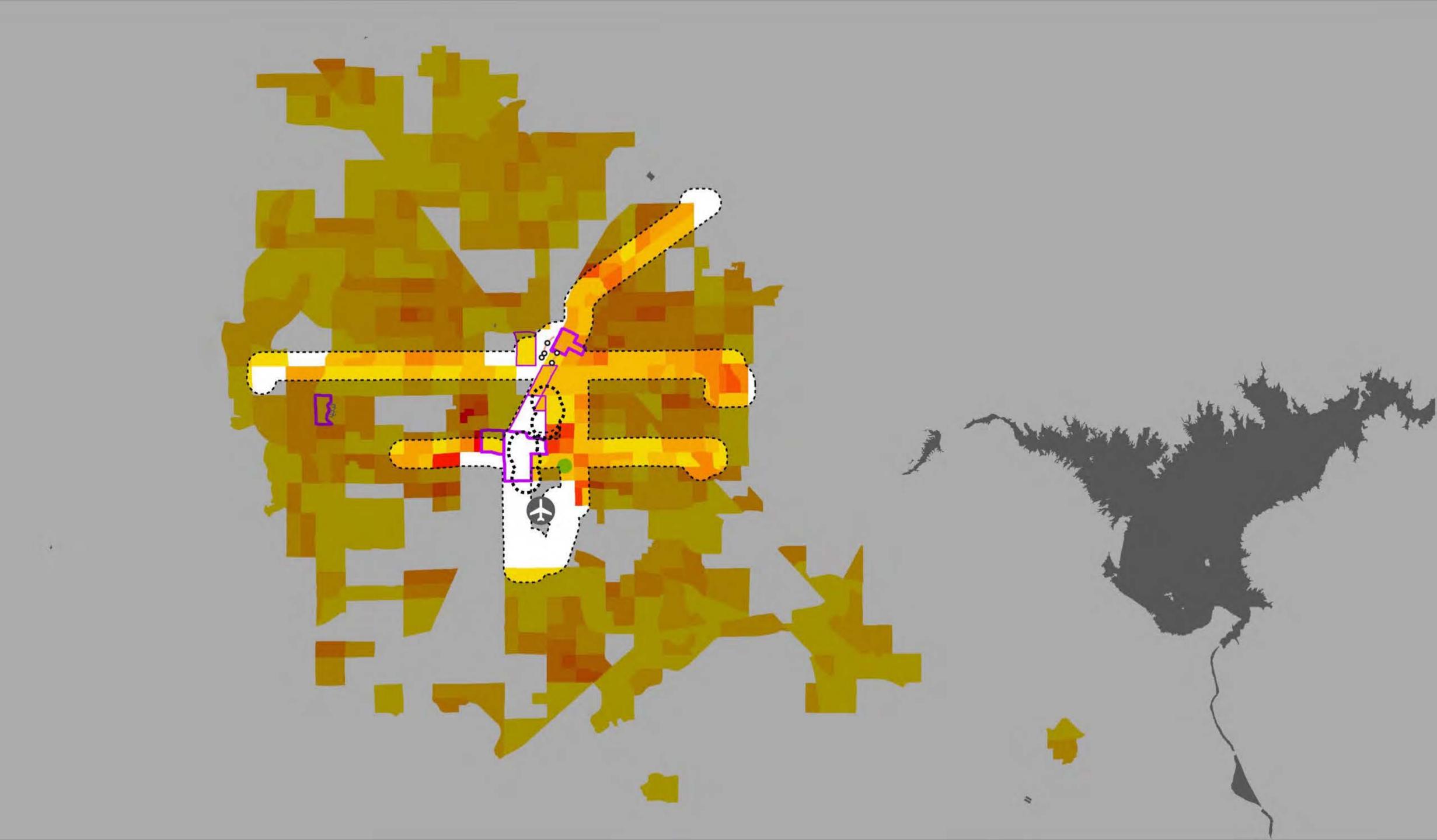






LJ. Jacianiento 26: Salt Lake City 27: Kansas City 28: Columbus\* 29: Indianapolis\* 30: San Antonio\* 31: Las Vegas 32: Cincinnati 33: Raleigh\* 34: Milwaukee 35: Austin 36: Nashville 37: Norfolk 38: Winston Salem\* 39: Jacksonville 40: Louisville\* 41: Hartford 42: New Orleans 43: Grand Rapids\* 44: Greenville\*









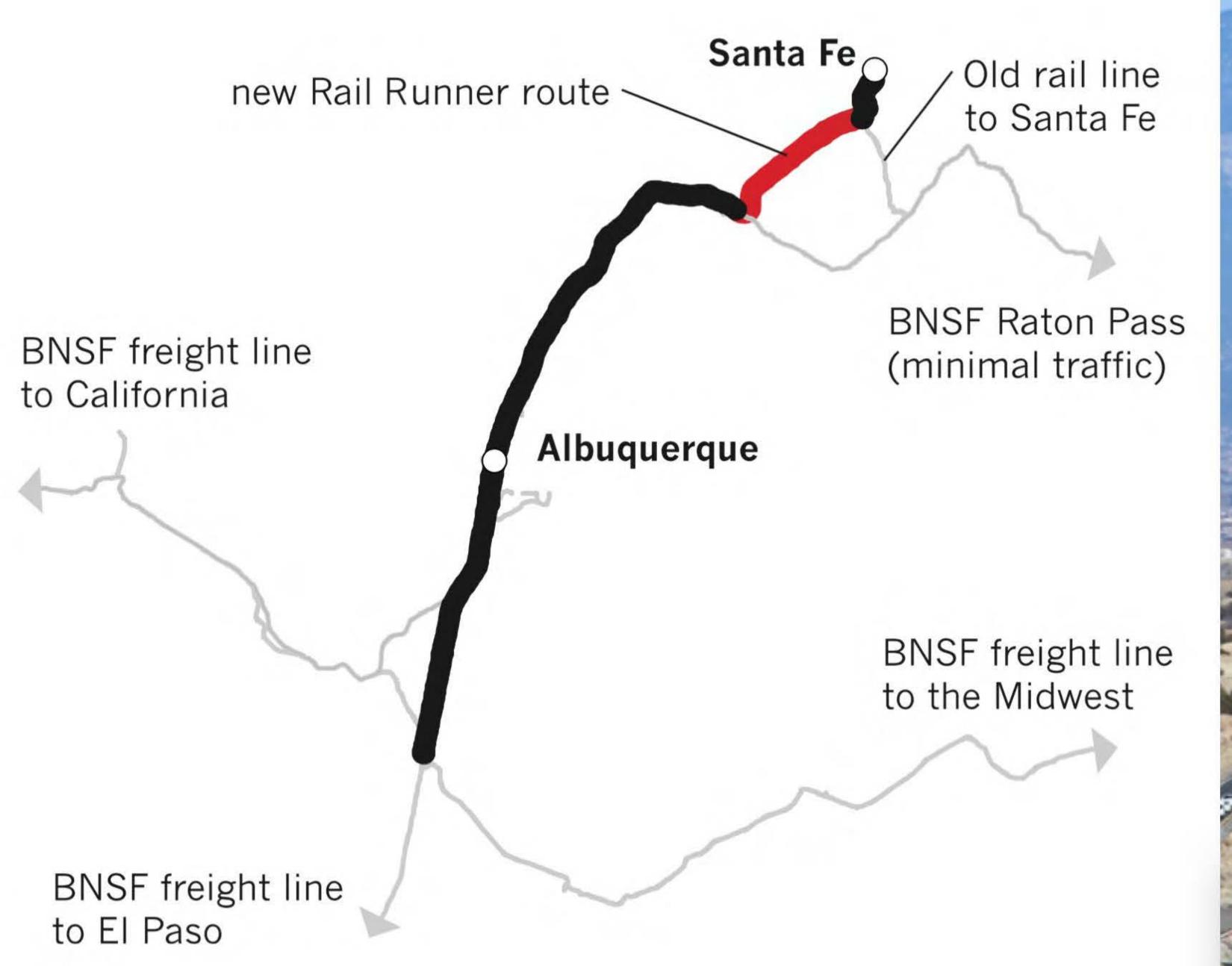


Walk 5 min Wait 5 min Ride 8.5 min

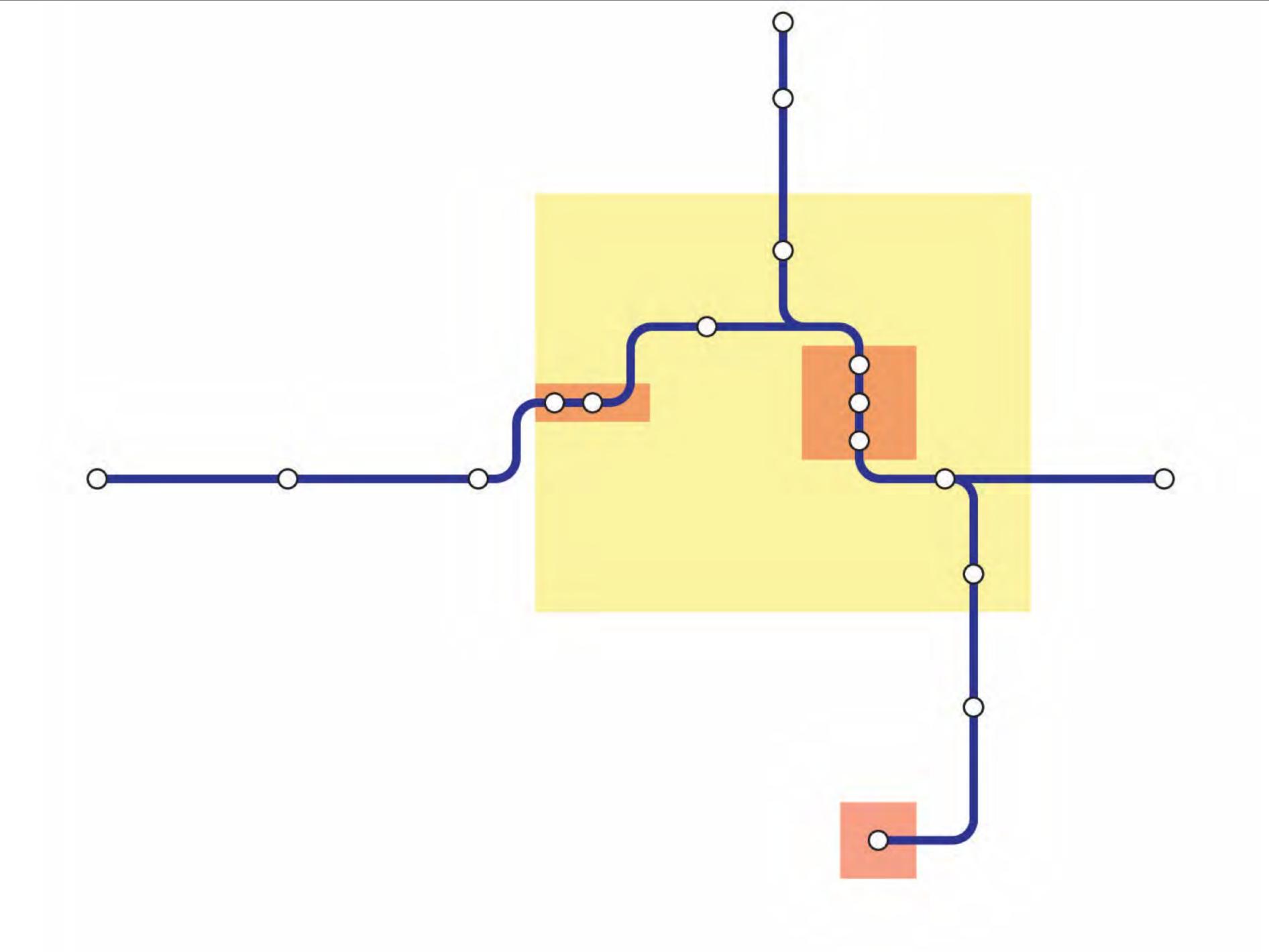
Walk 5 min

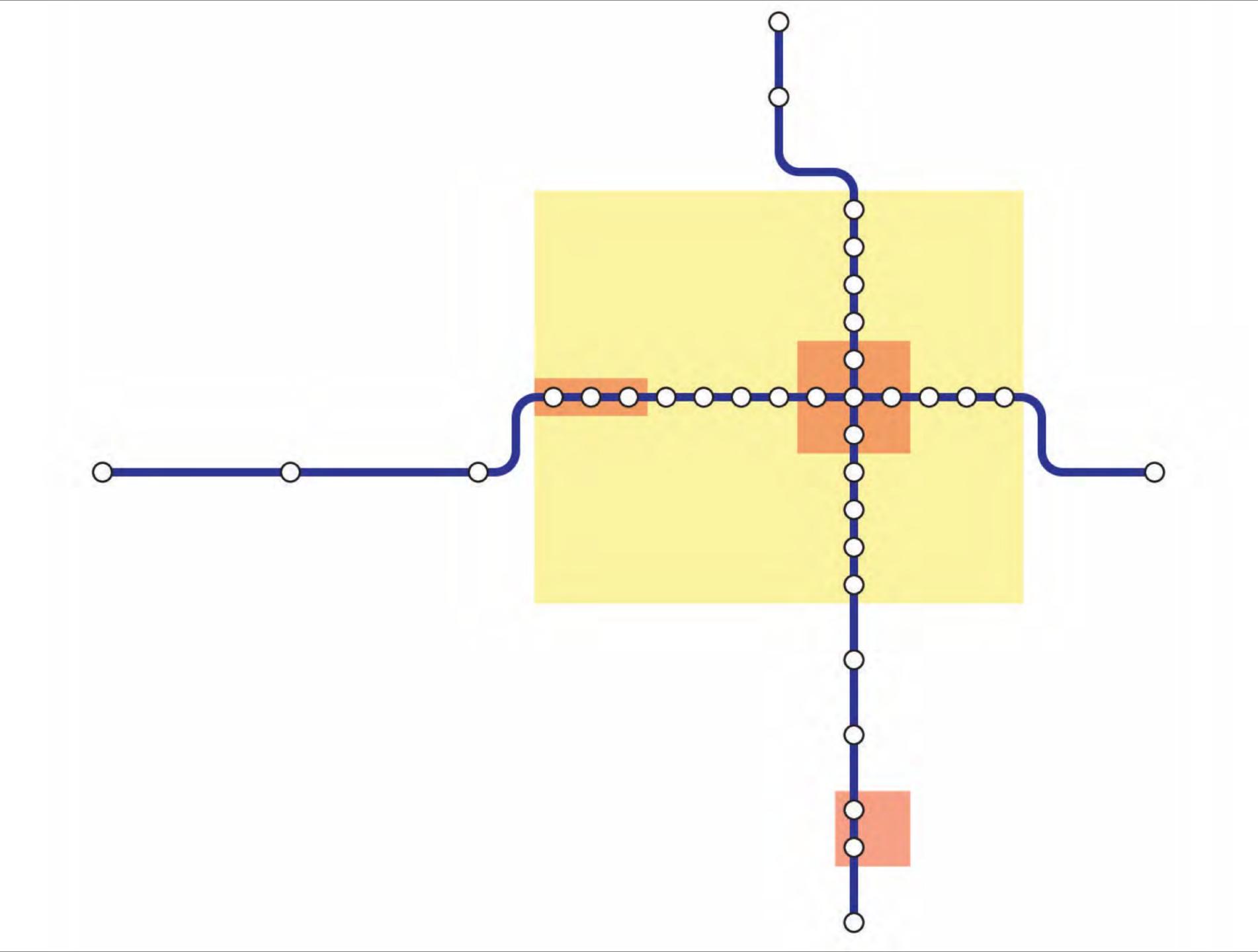
BASELINE: 23.5 min trip

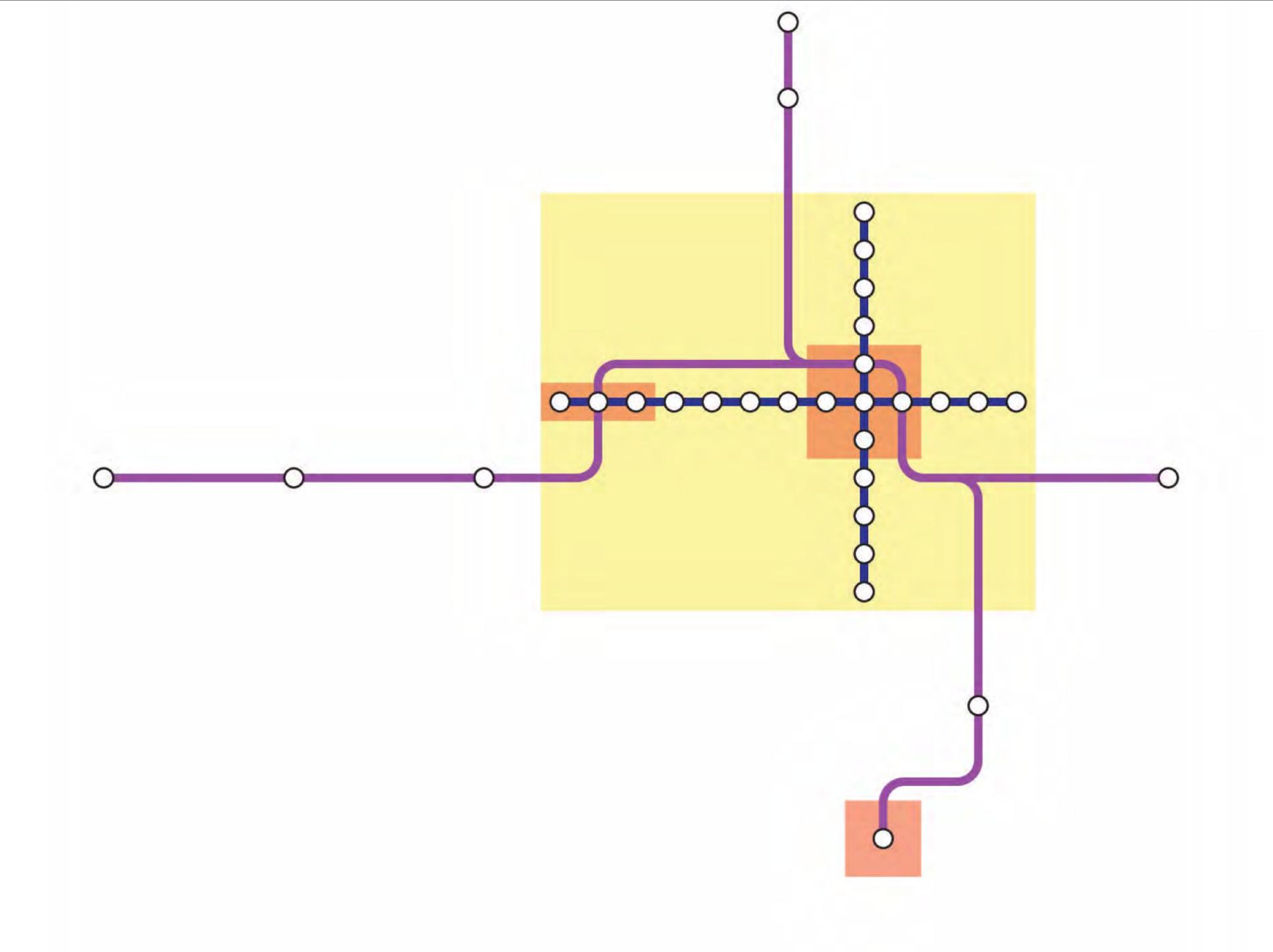


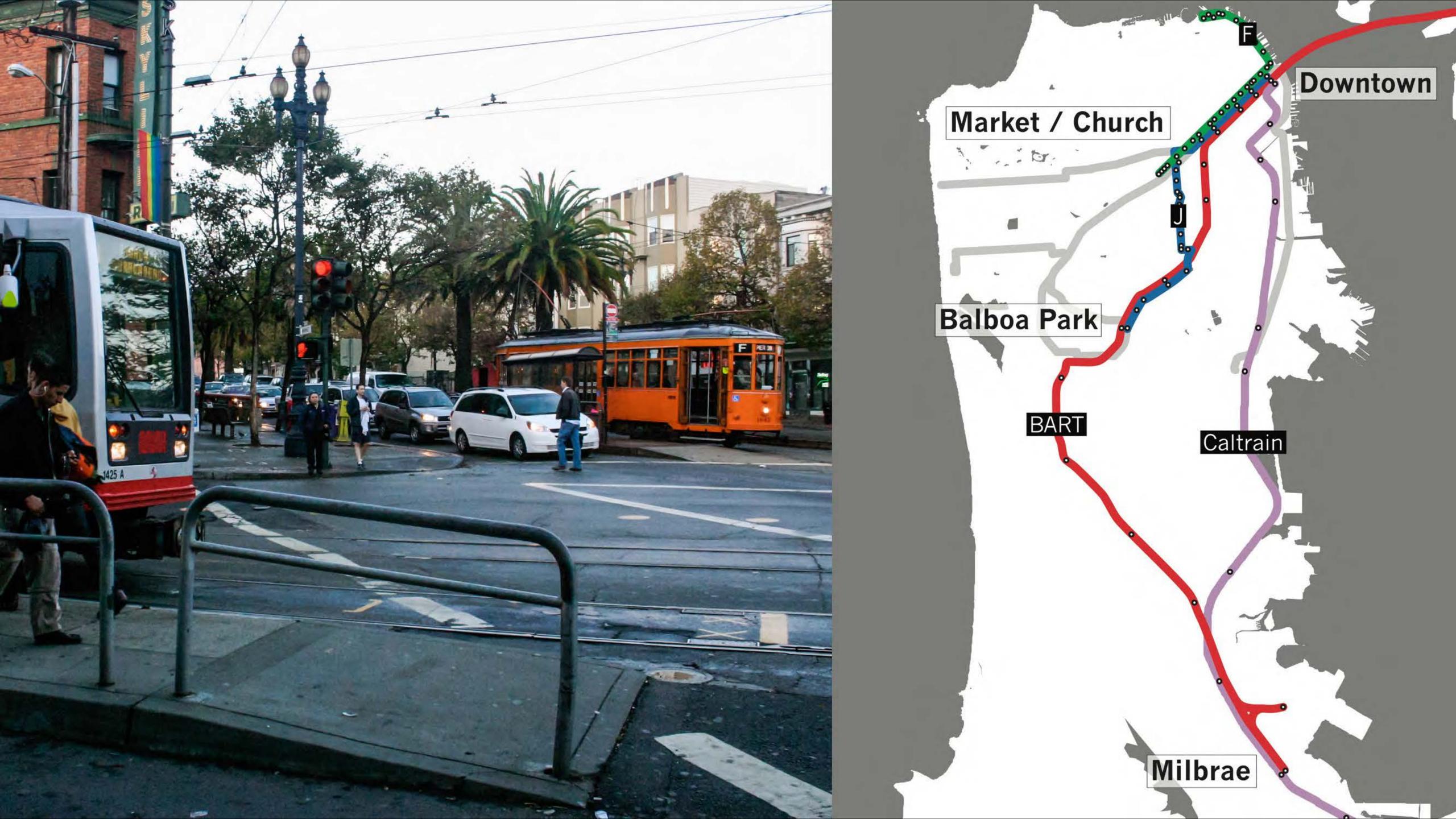




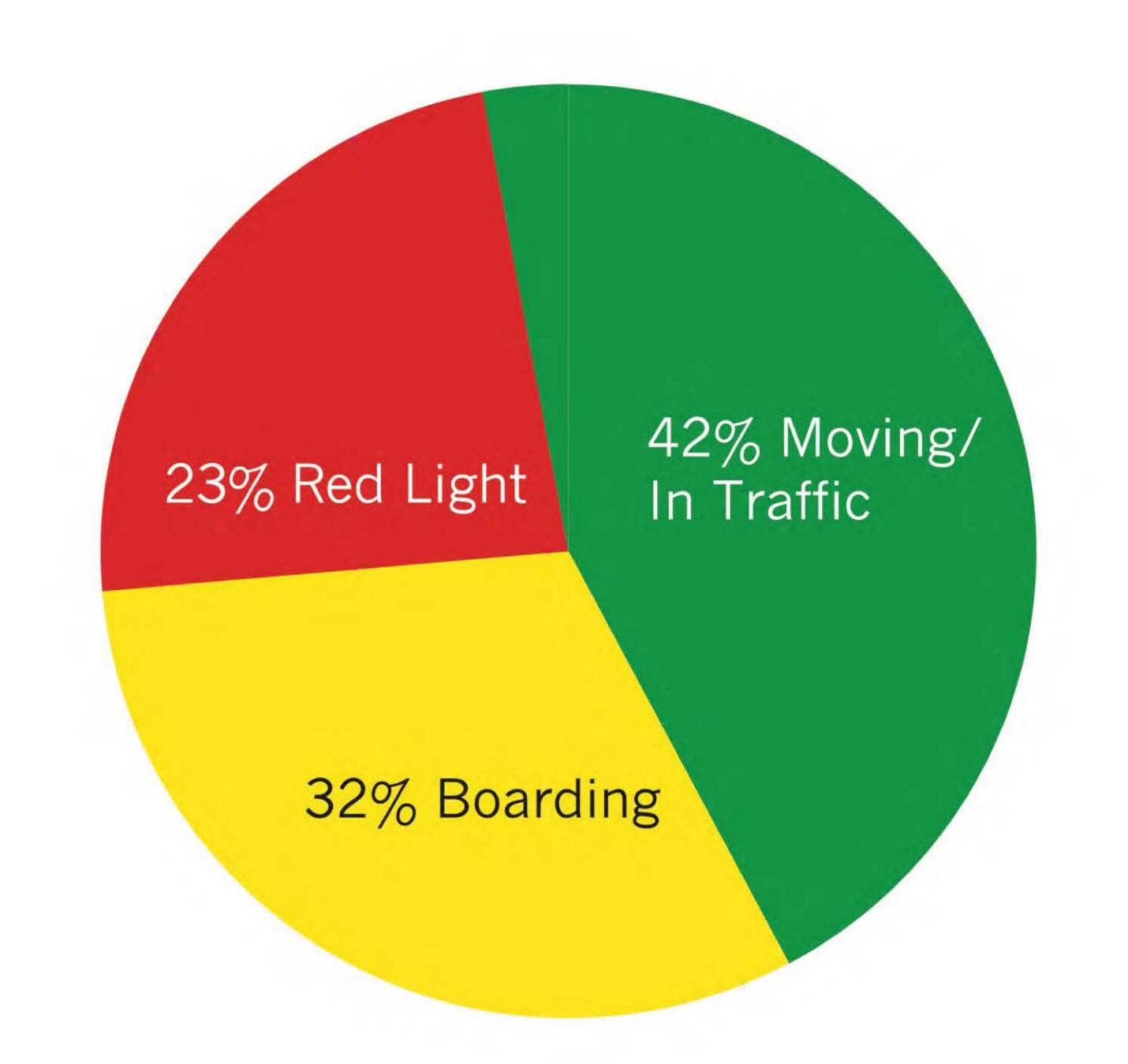




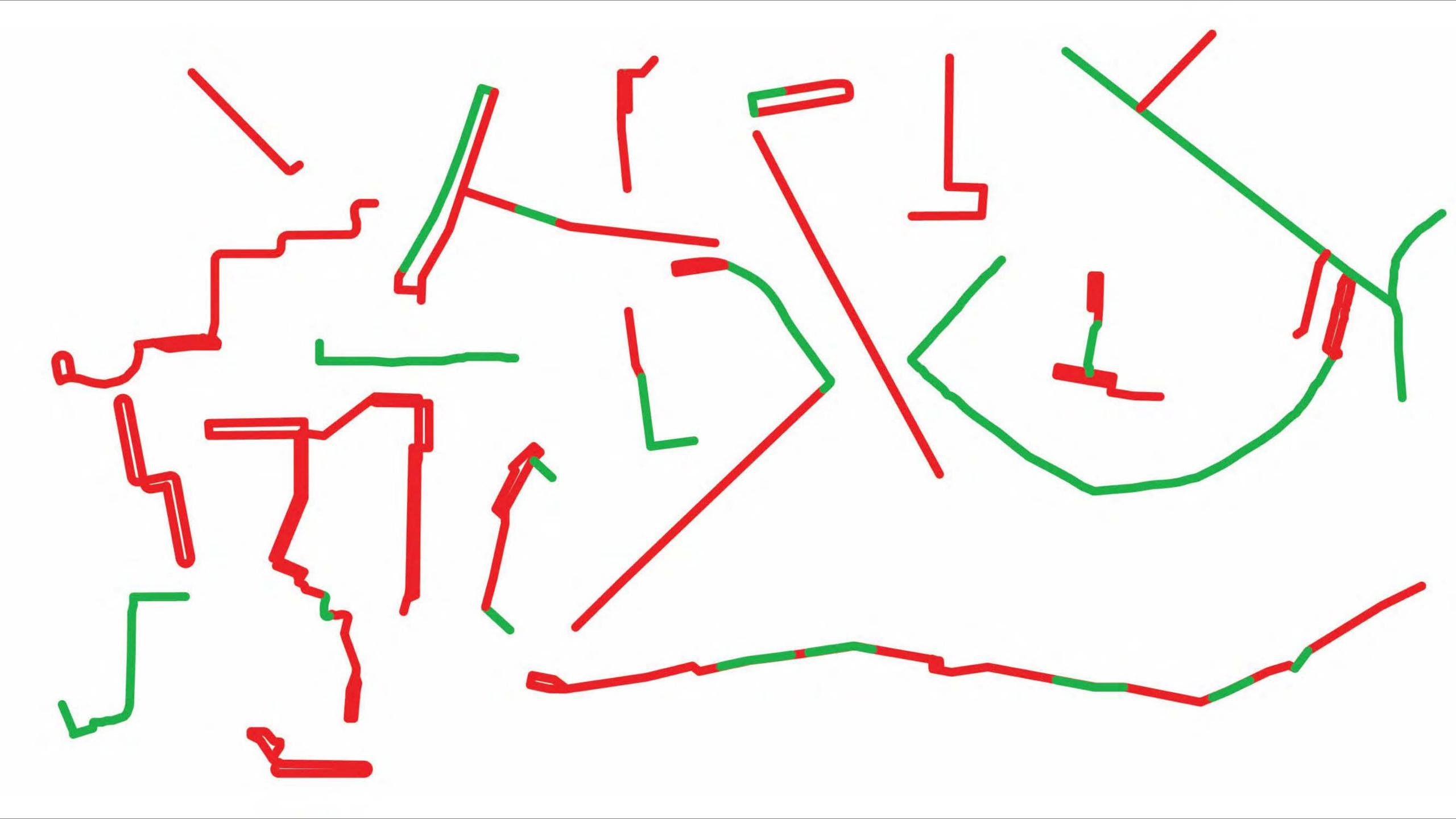


















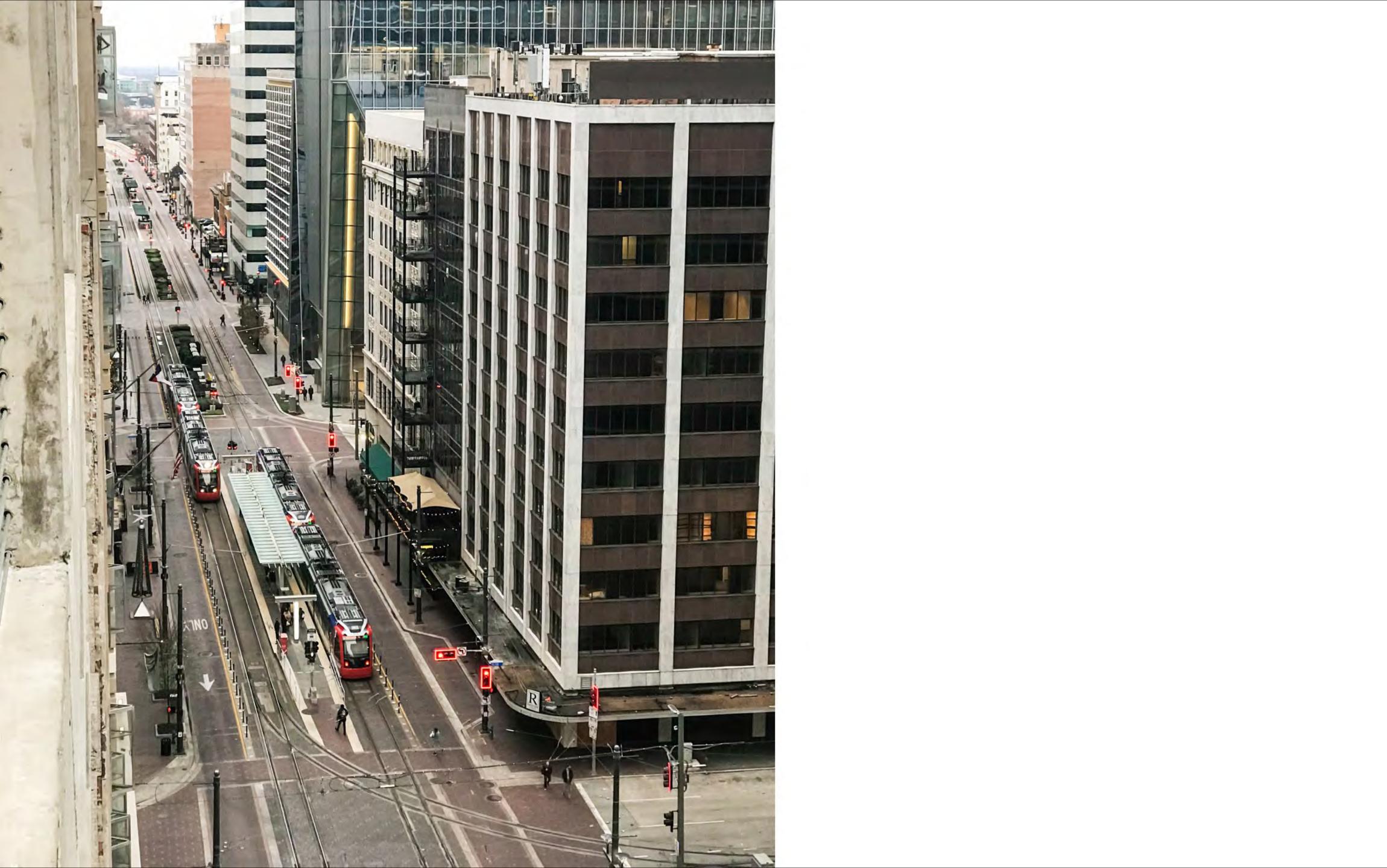






		local bus	BRT	light rail	heavy rail	commuter rail
oical	people/vehicle	80	120	225	200	162
	train	40 ft. (1 bus)	95 ft. (1 bus)	190 ft. (2 car)	450 ft. (6 car)	400 ft. (4 car)
	people/train	80	120	450	1200	648
	trains/hour	4	6	6	6	2
	hourly capacity	320	720	2,700	7,200	1,296
ty	daily capacity	5,120	11,520	43,200	115,200	20,736

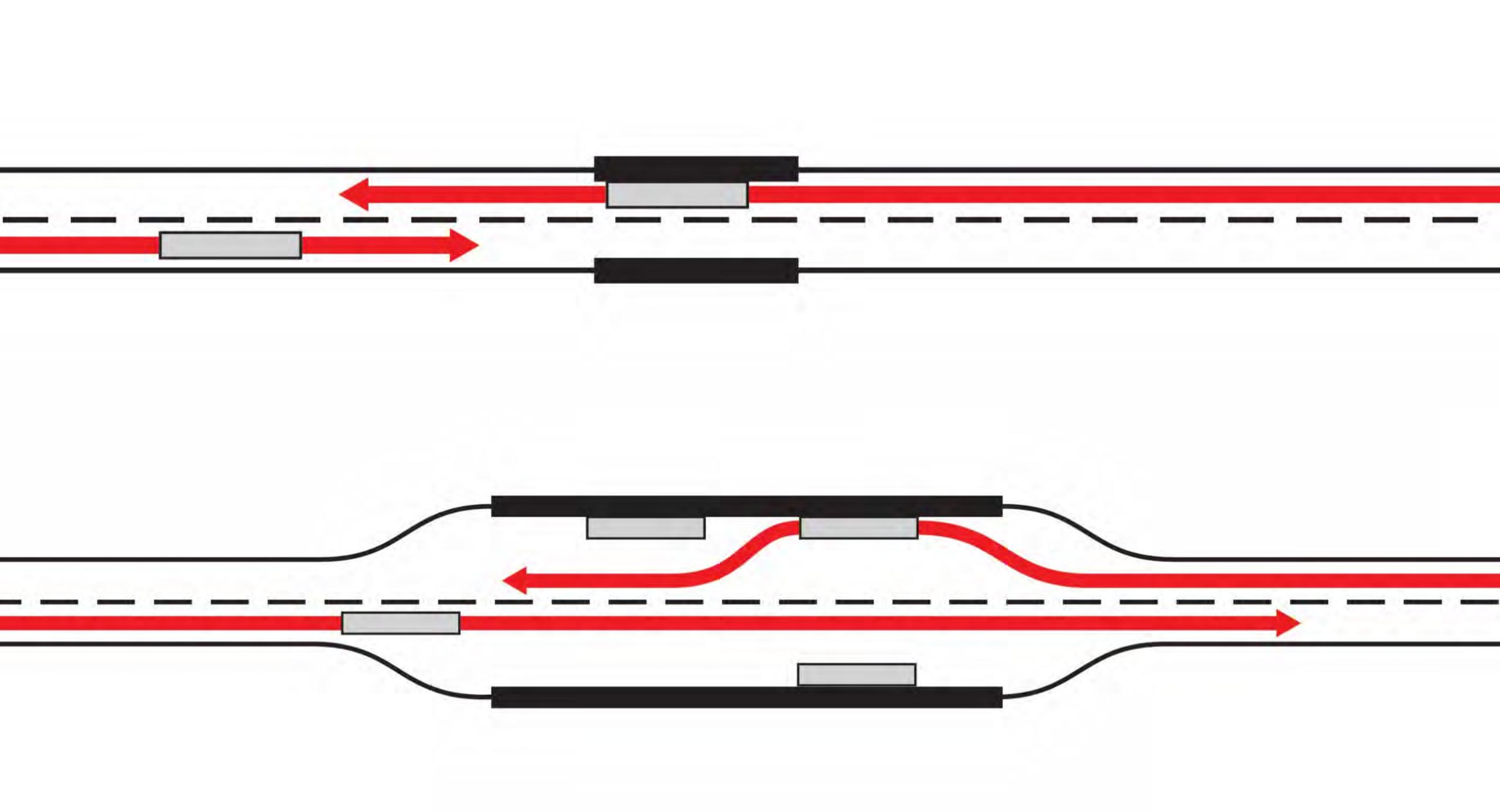
ma	daily capacity	153,600	230,400	345,600	1,536,000	622,080
  xir	trains/hour hourly capacity	9,600	14,400	21,600	96,000	38,880
l u	trains/hour	120	120	24	48	24
ء ا	people/train	80	120	900	2000	1620
	train	40 ft. (1 bus)	95 ft. (1 bus)	380 ft. (4 car)	750 ft. (10 car)	910 ft. (10 car)
	people/vehicle	80	120	225	200	162
		bus only lane, multiple routes	separation, passing	private right of way outside city streets, grade separation at major intersections	express and local	



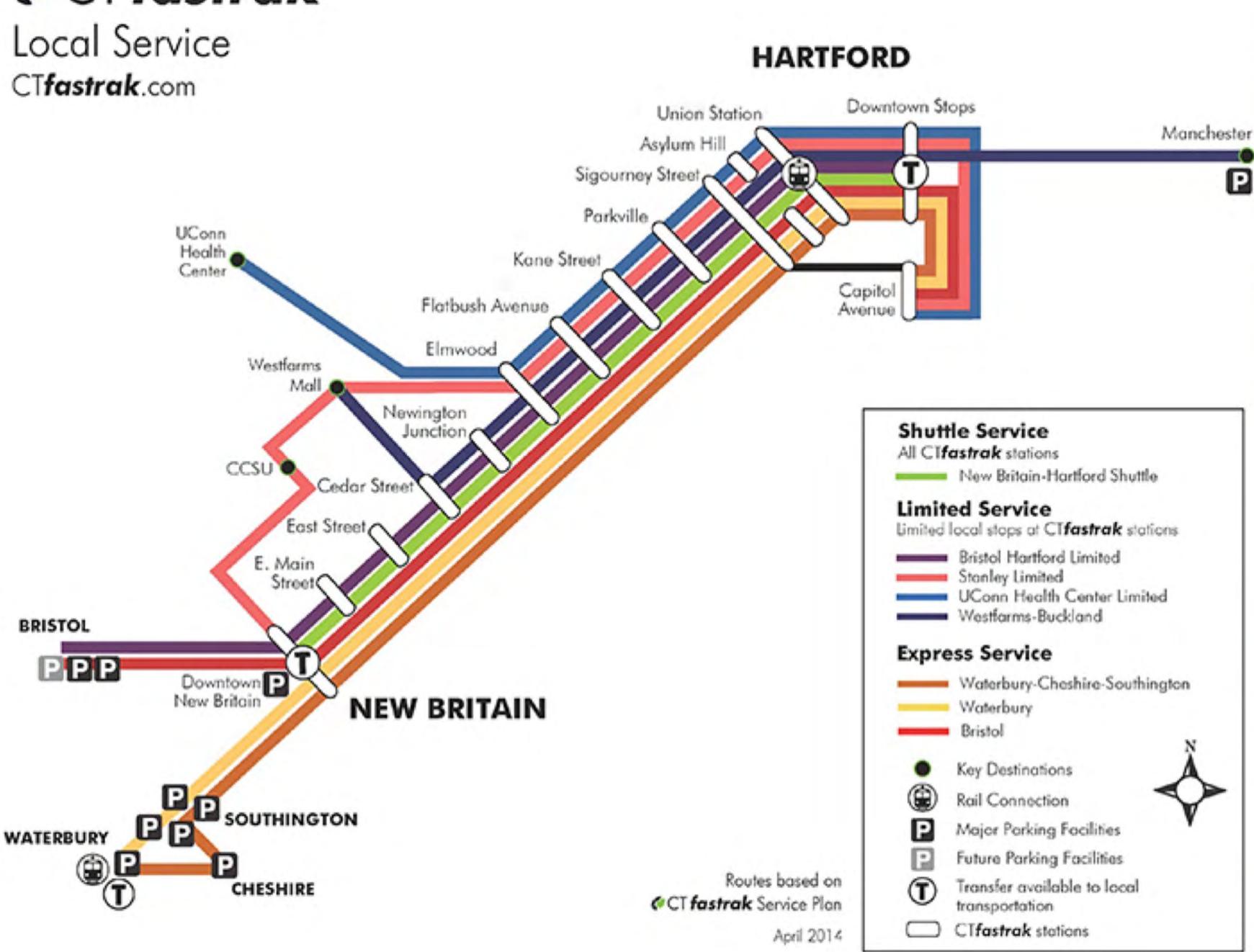


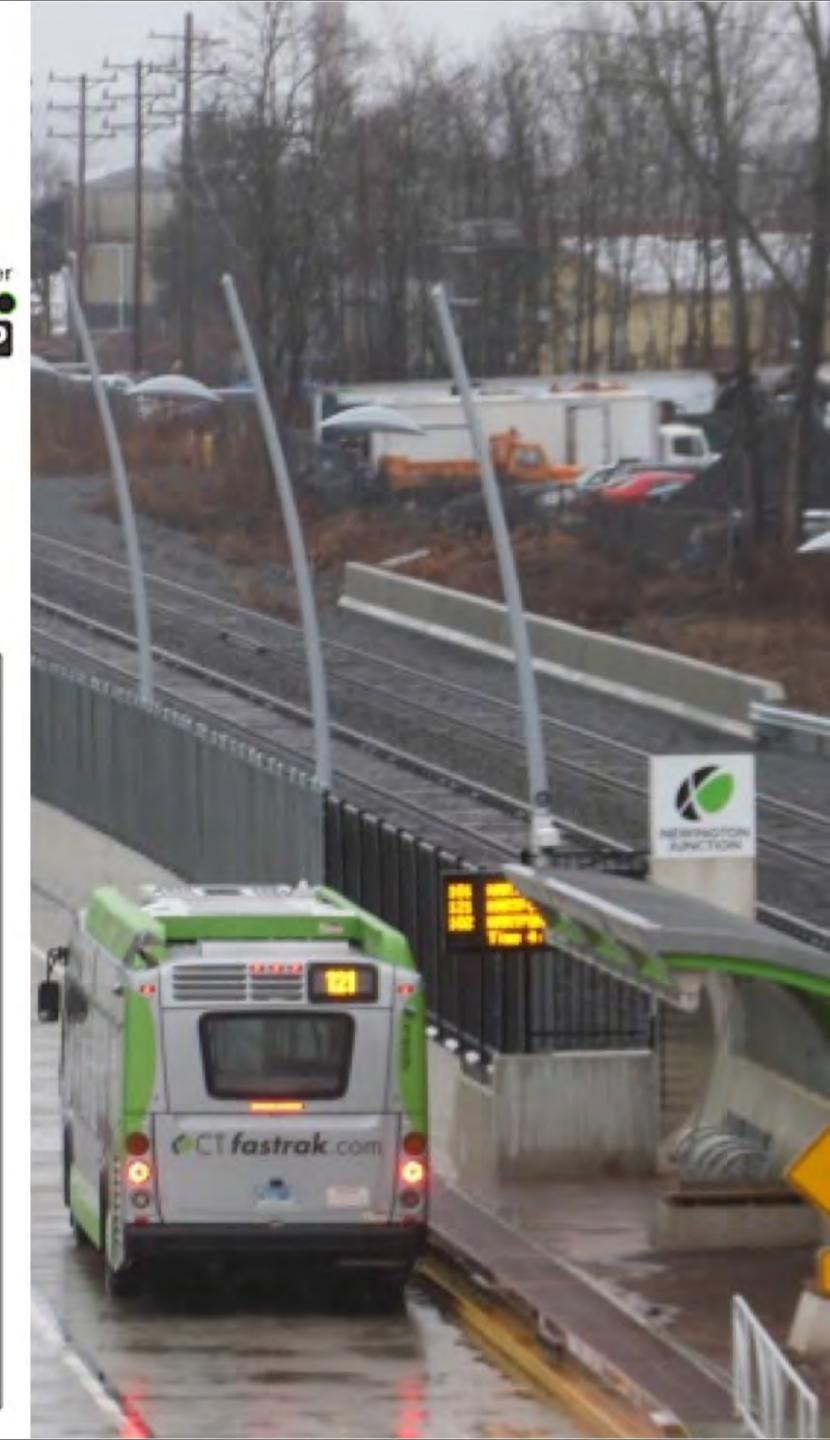




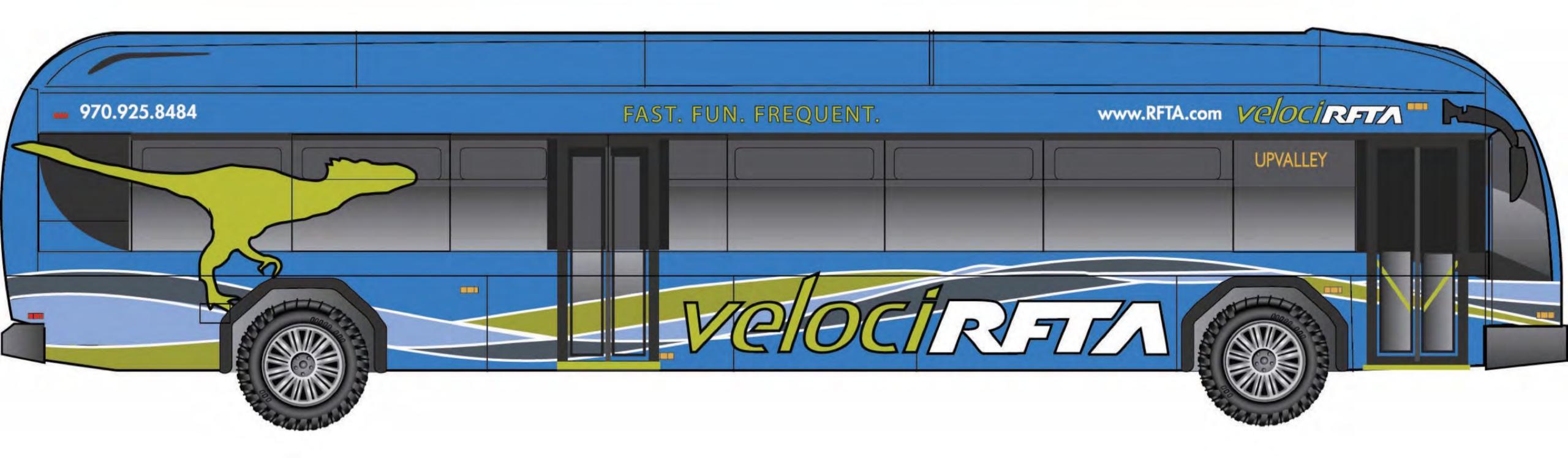






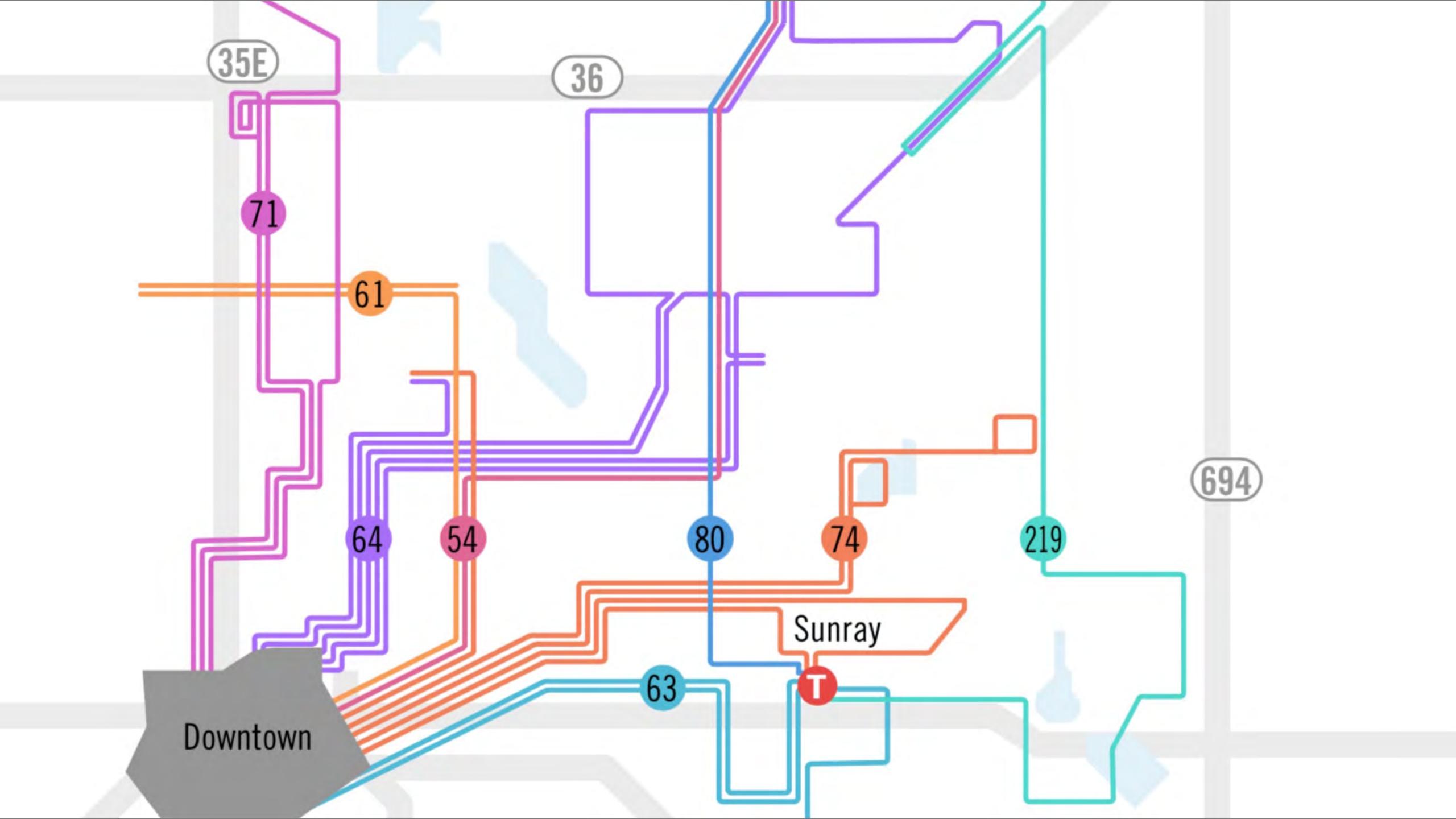


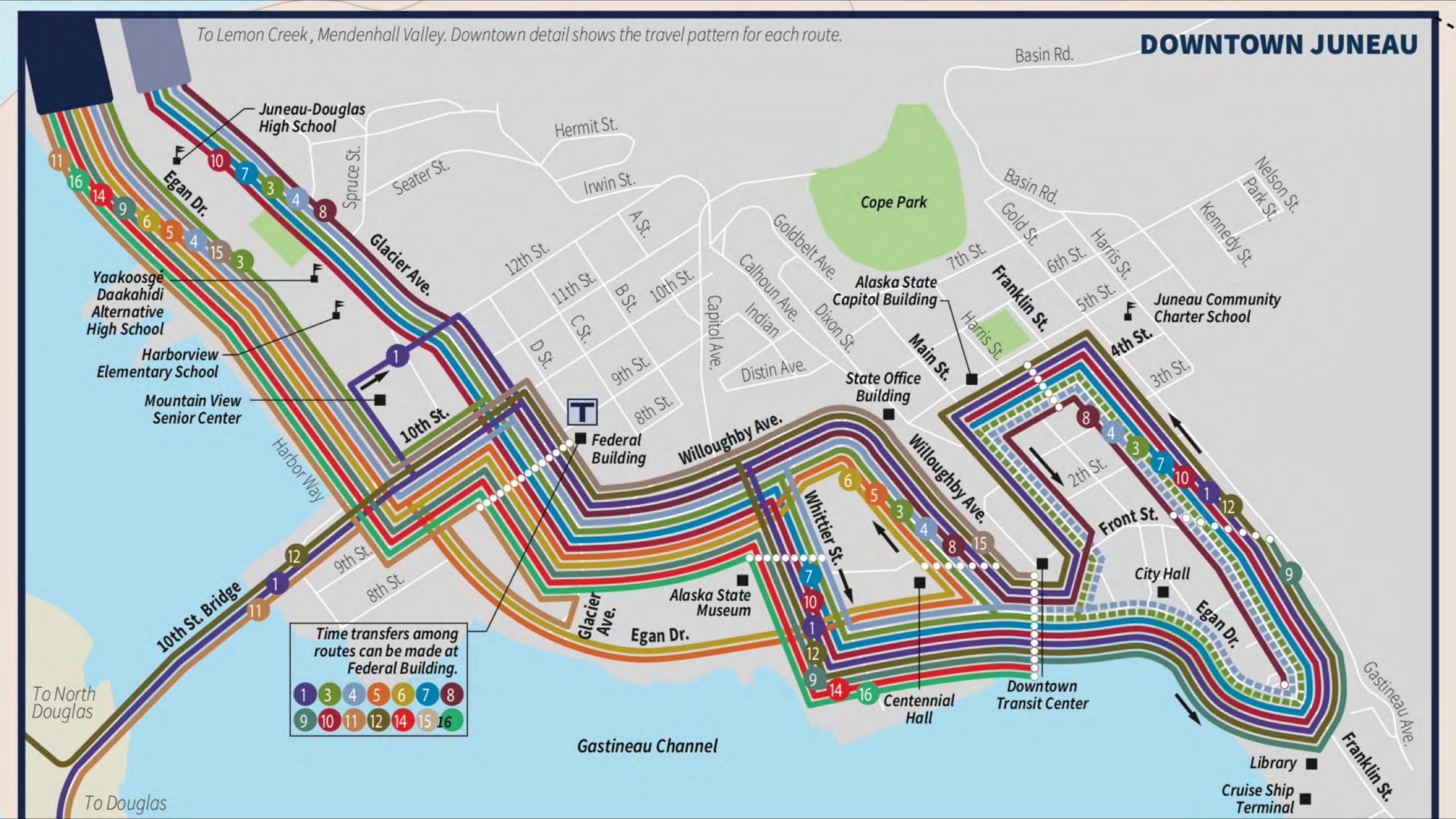




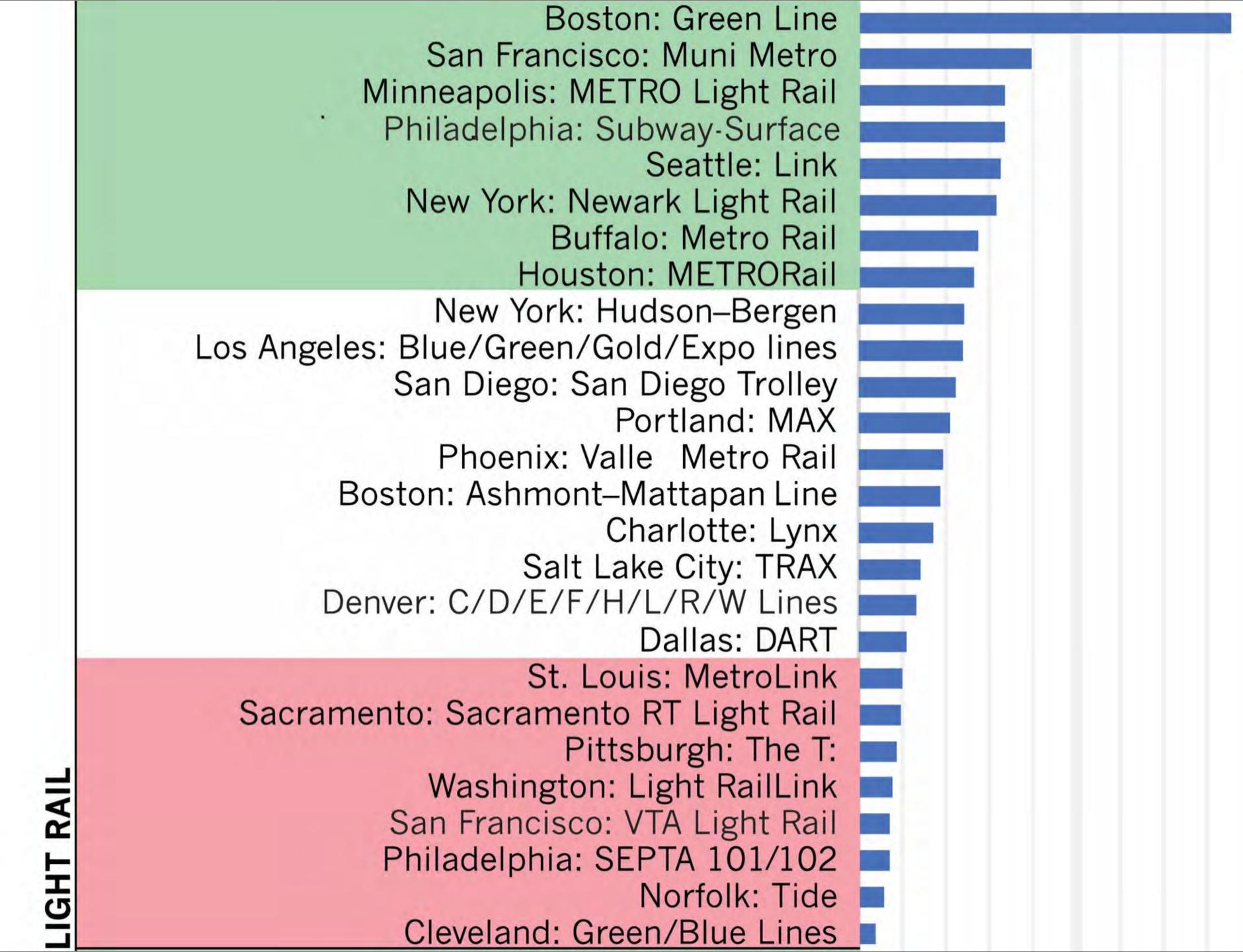






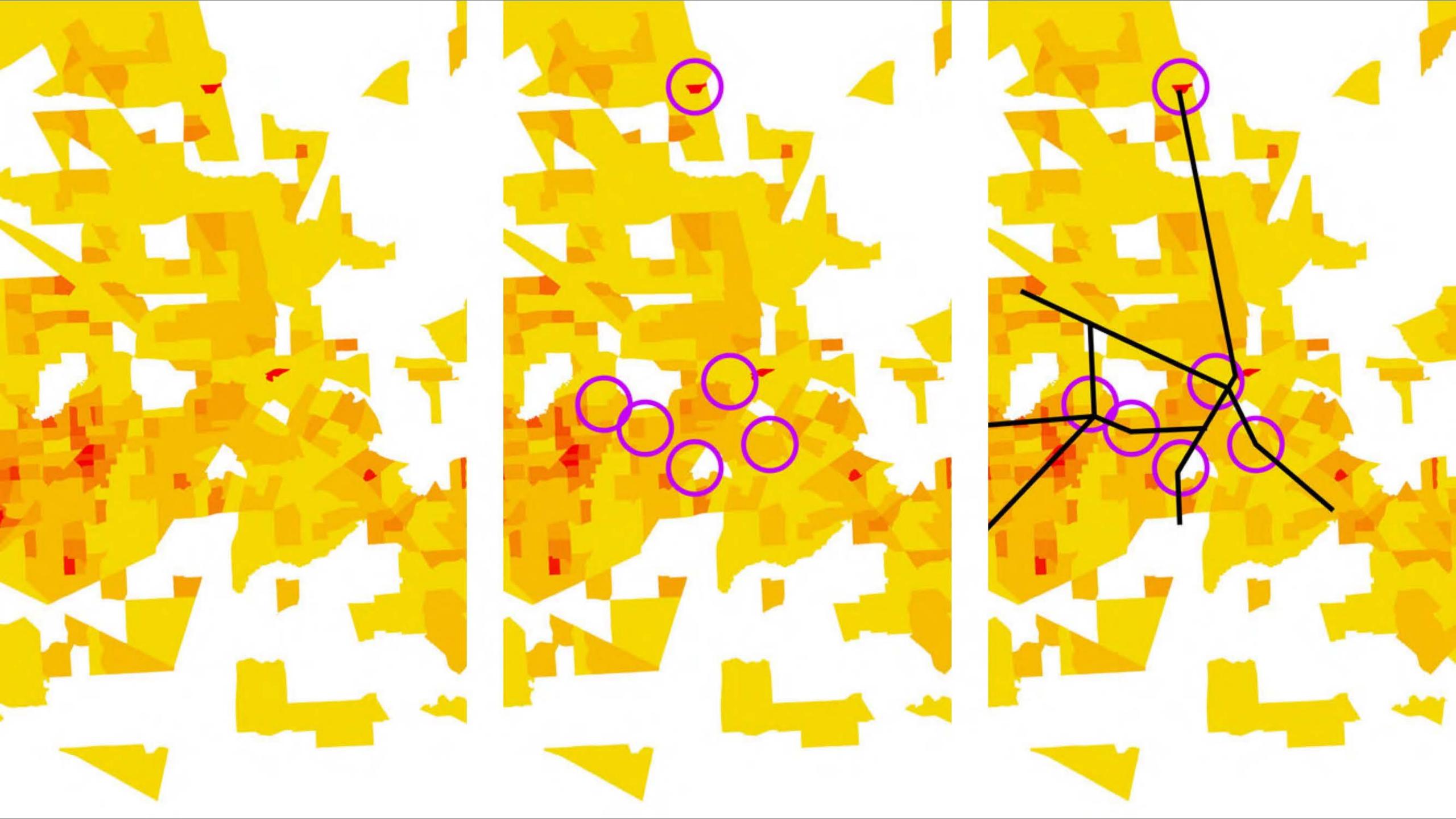




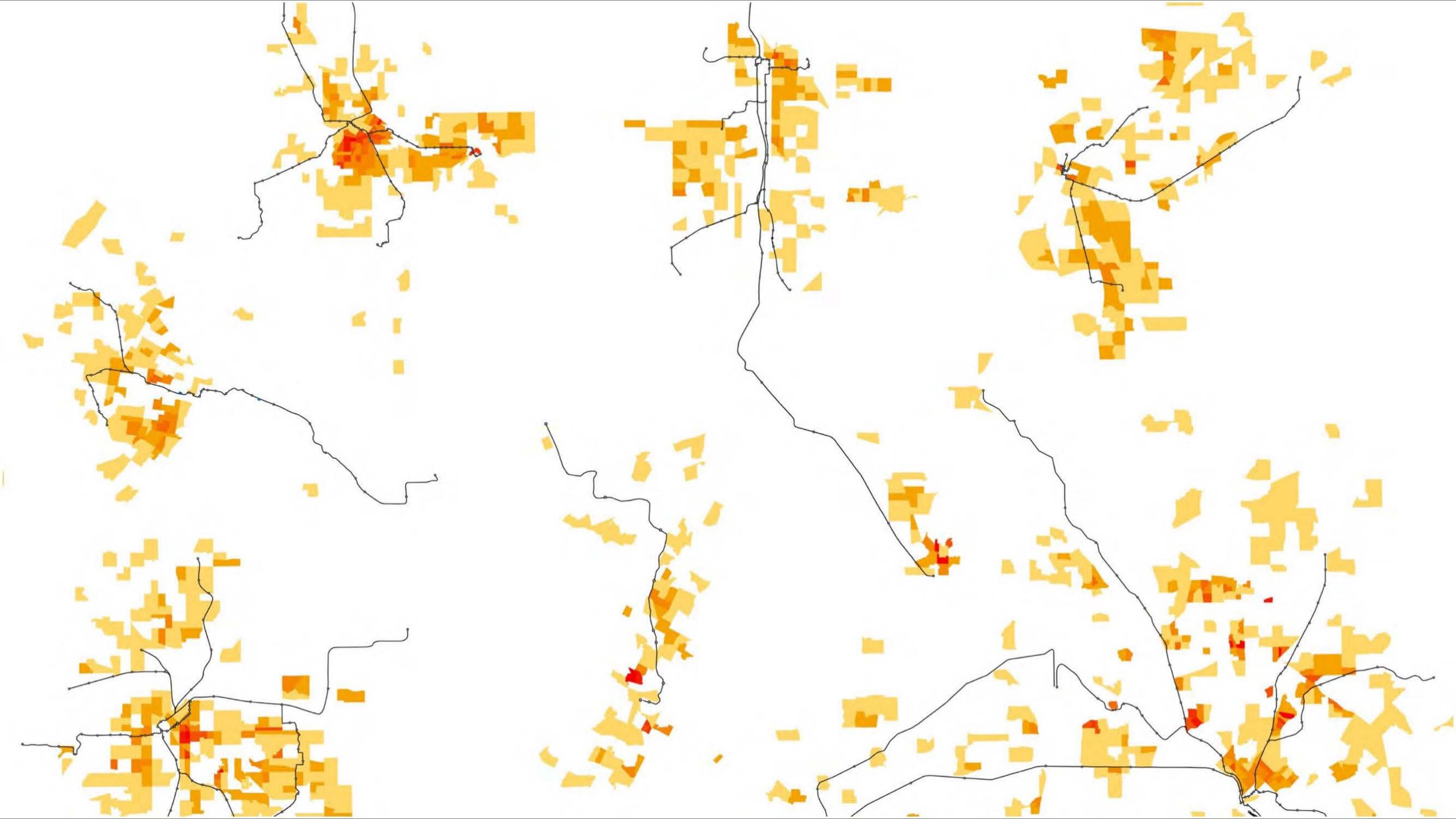


## Transit planning is simple...

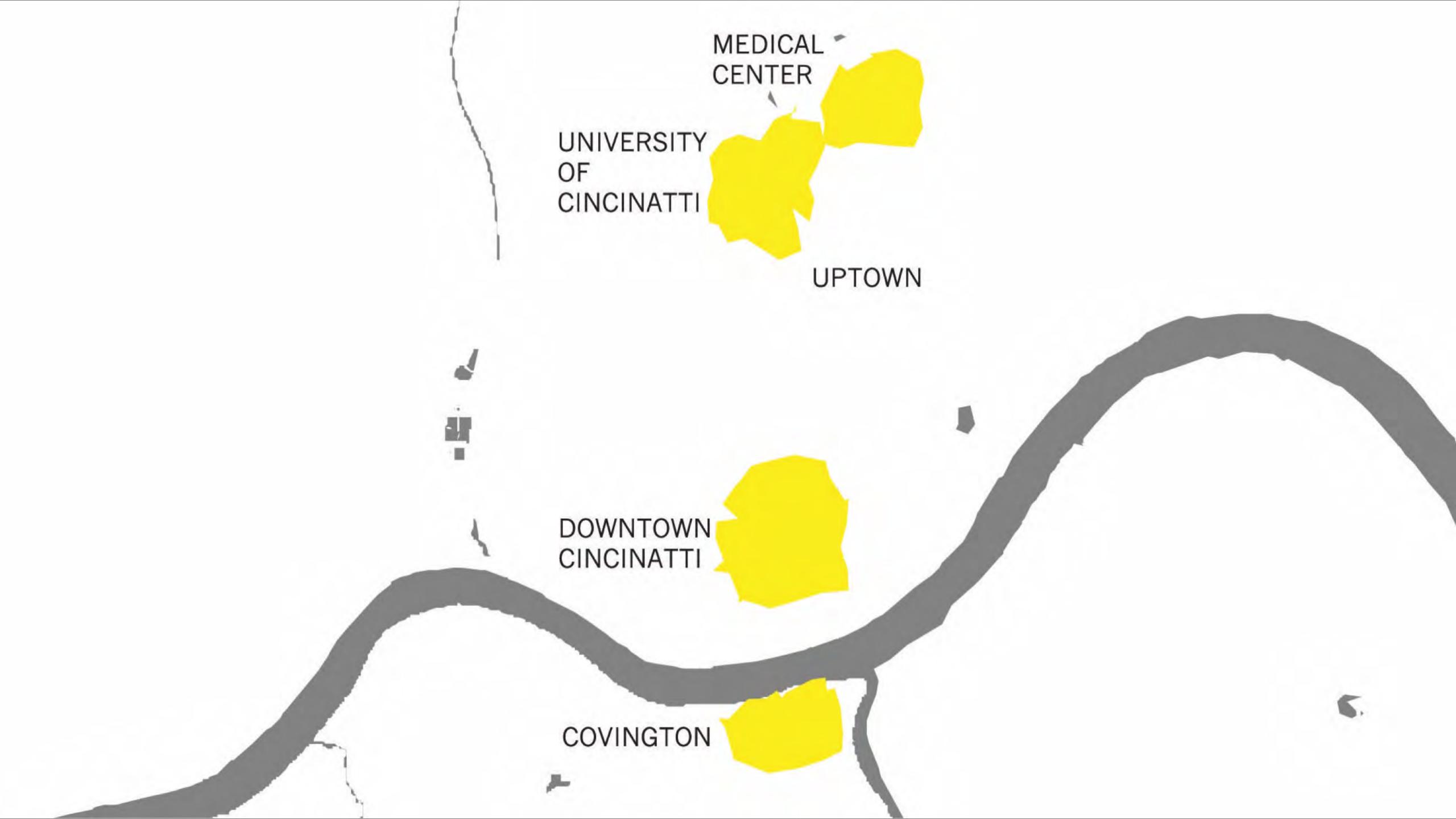




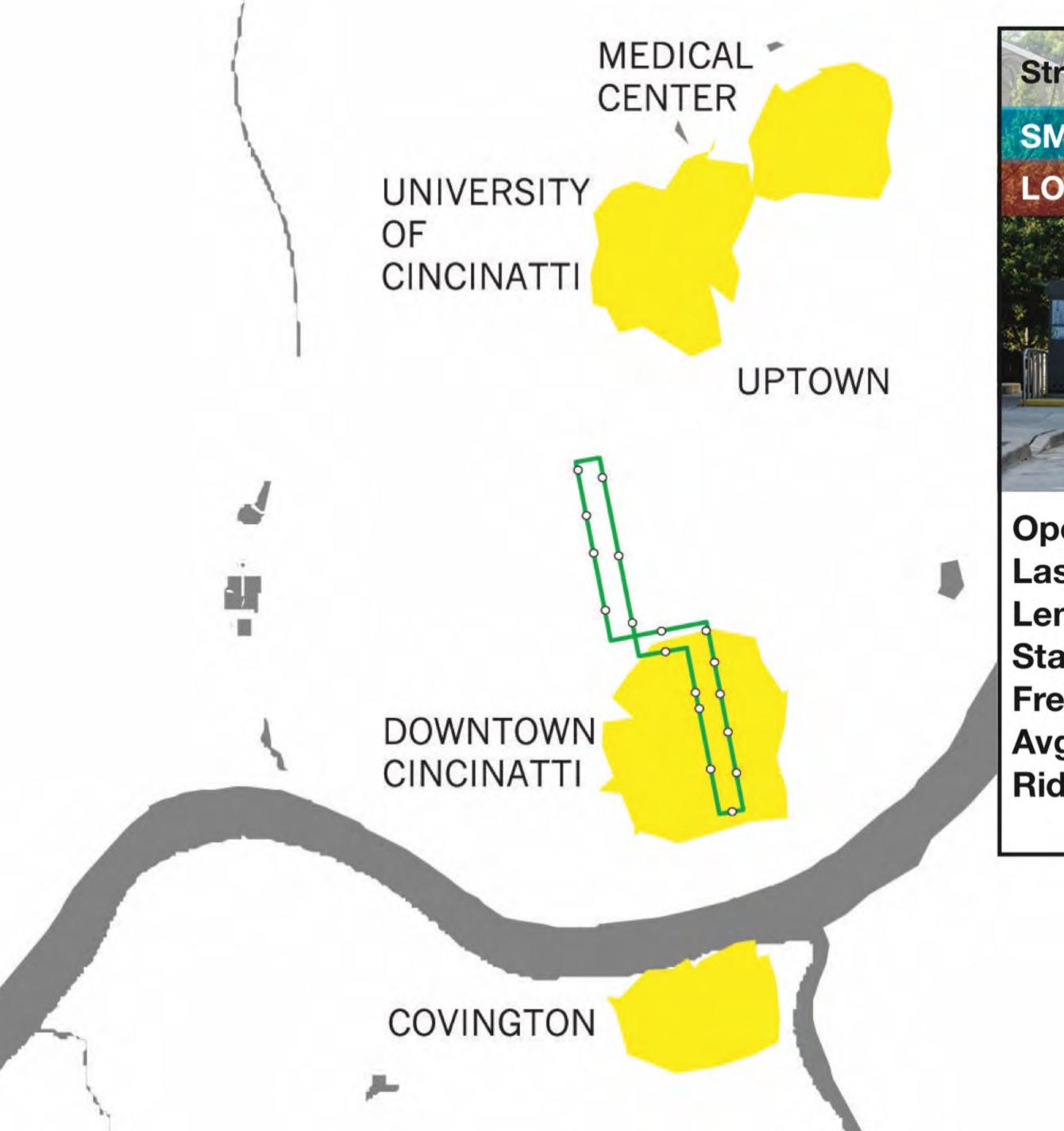














**Opened:** 2016

Last Expanded: N/A

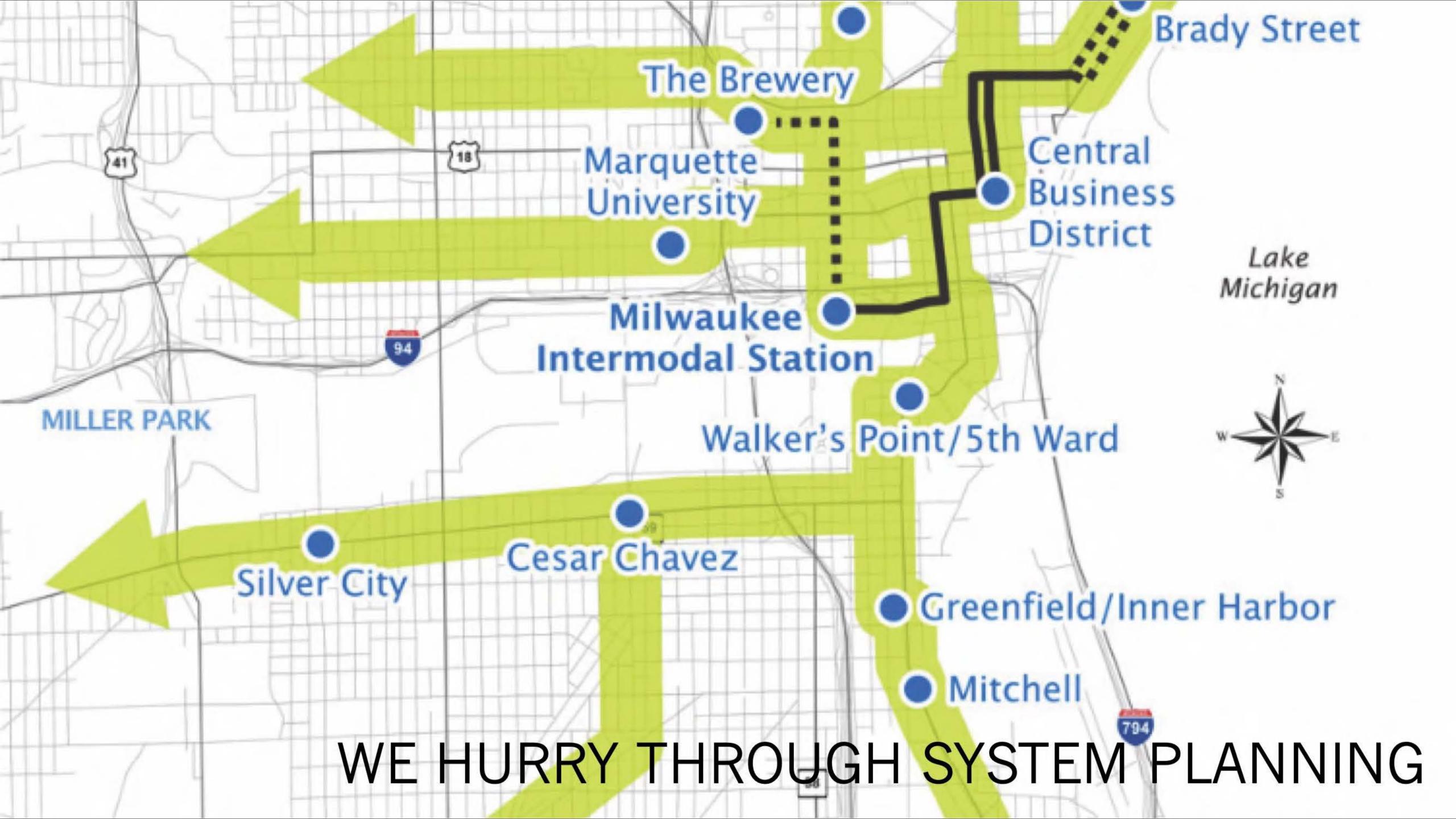
Length: 2 miles

Stations: 9

Frequency: 12-15 min

Avg weekday ridership: 1,300

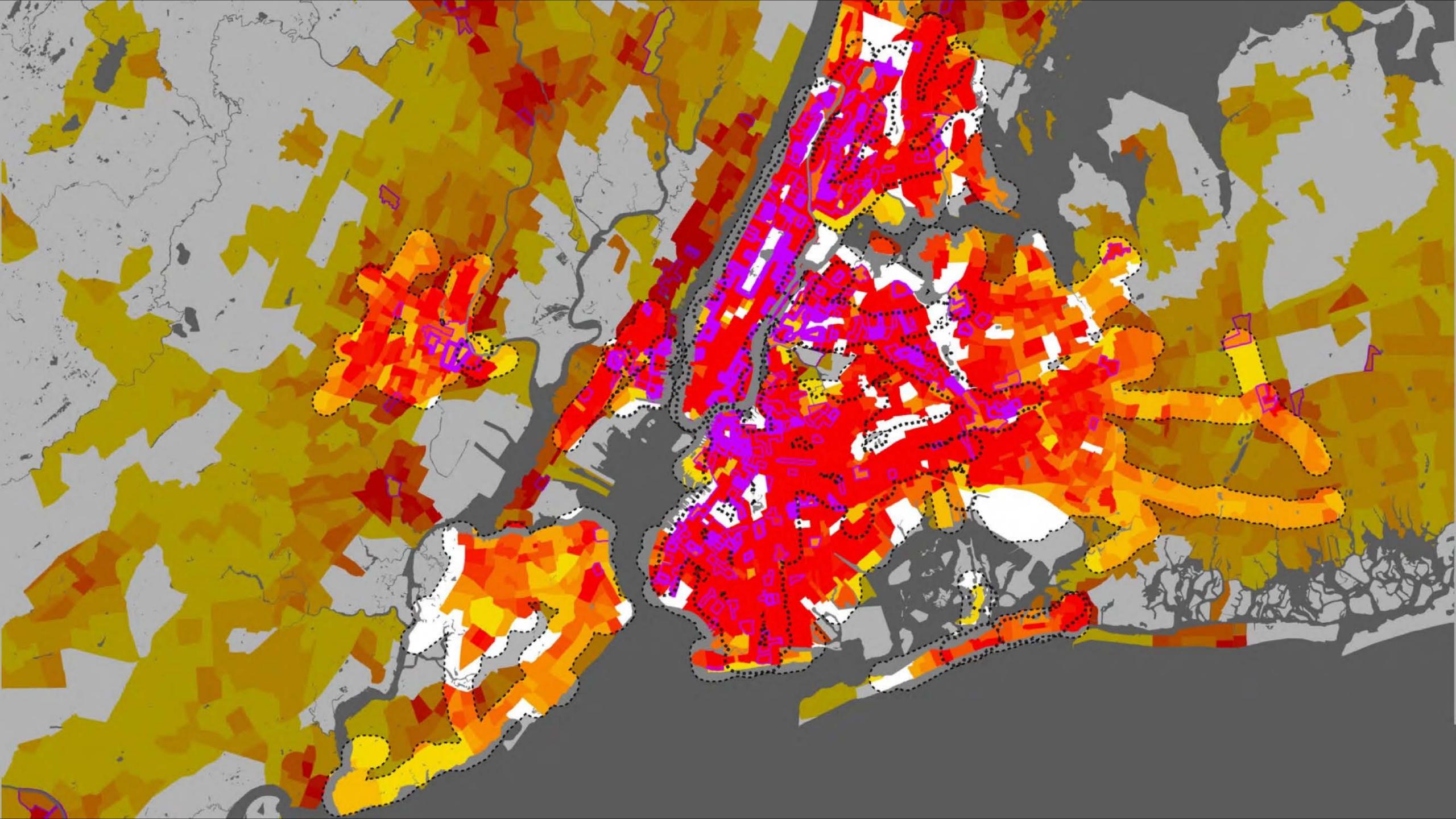
Ridership per mile: 650

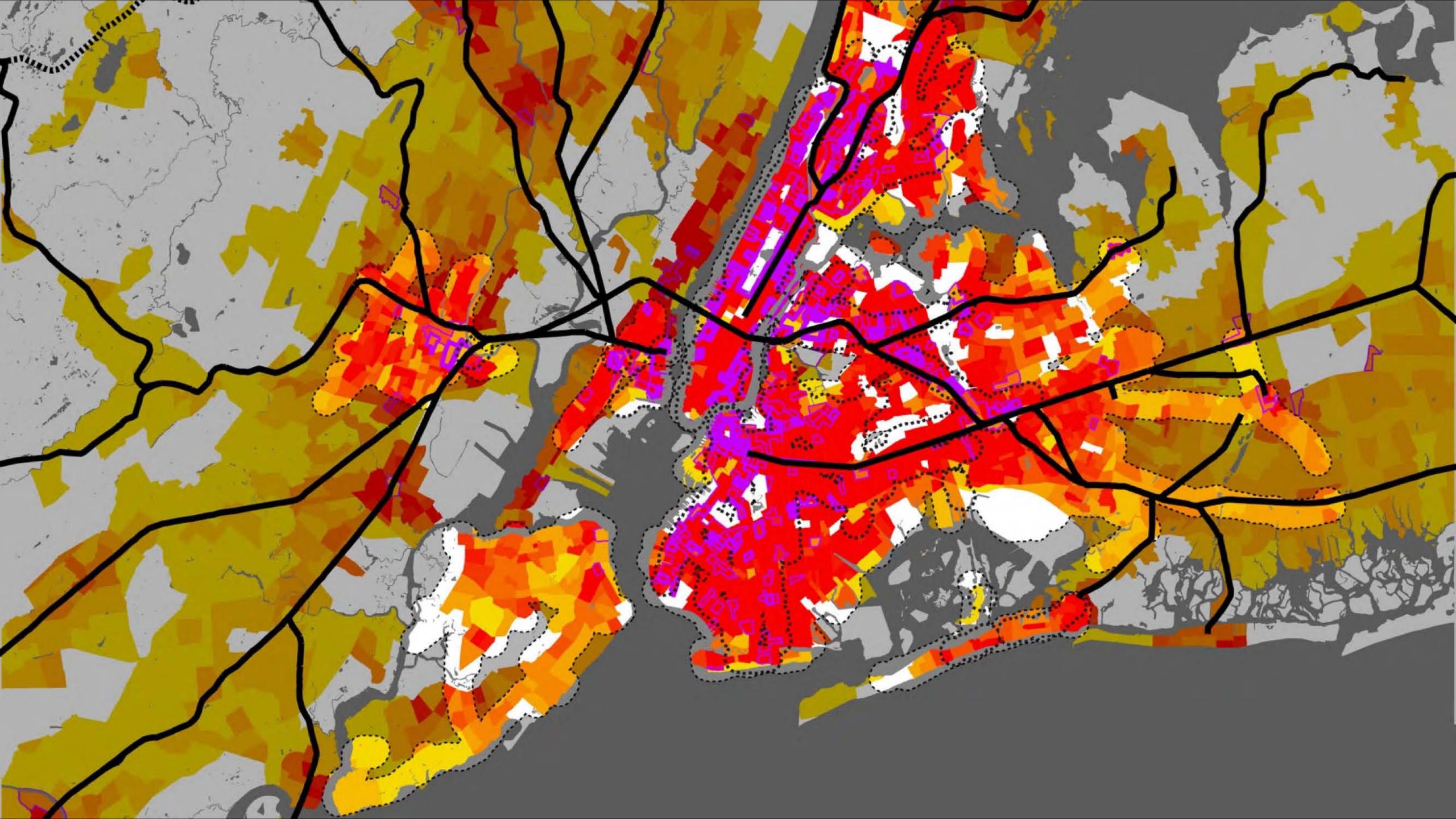






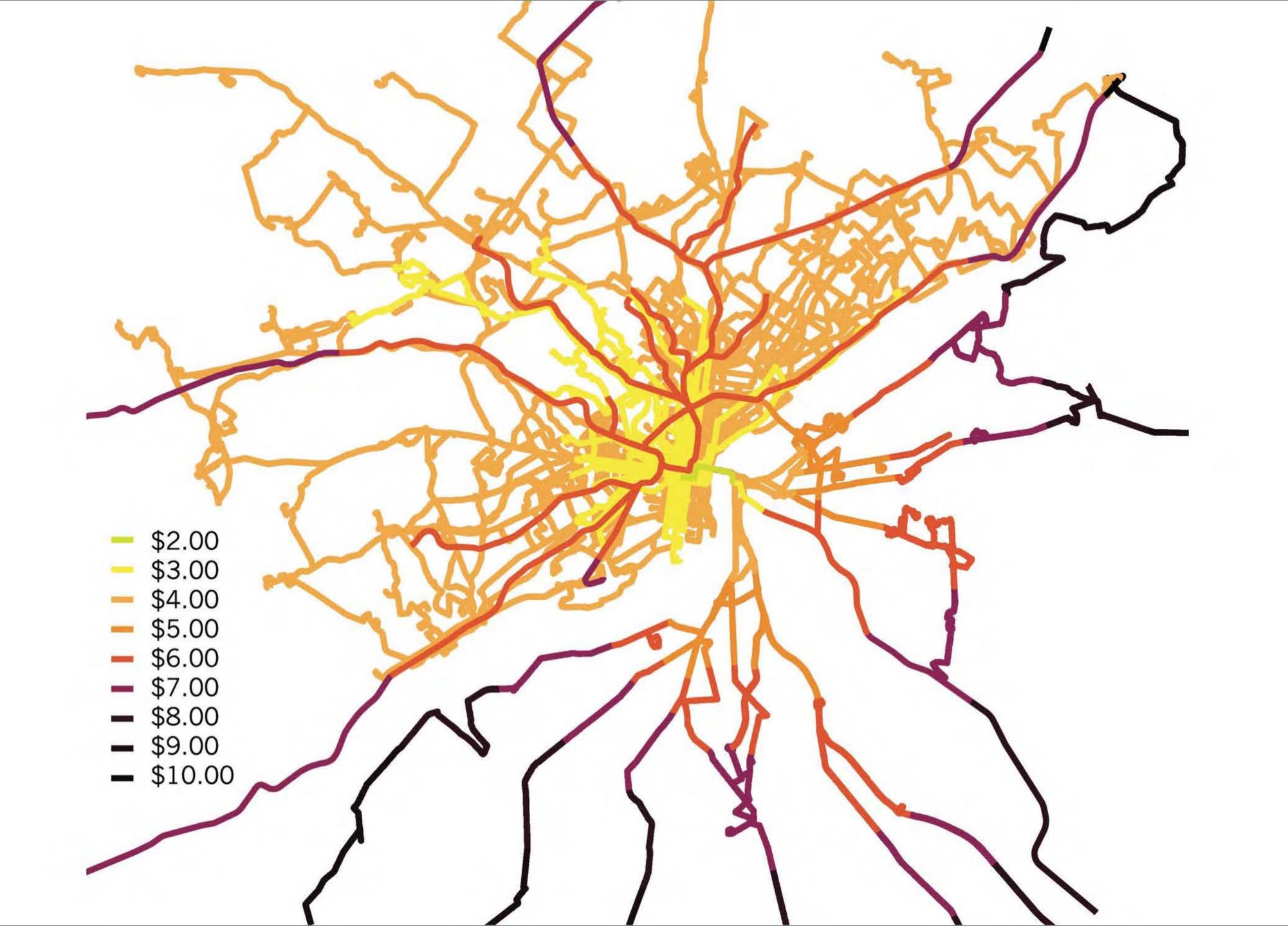


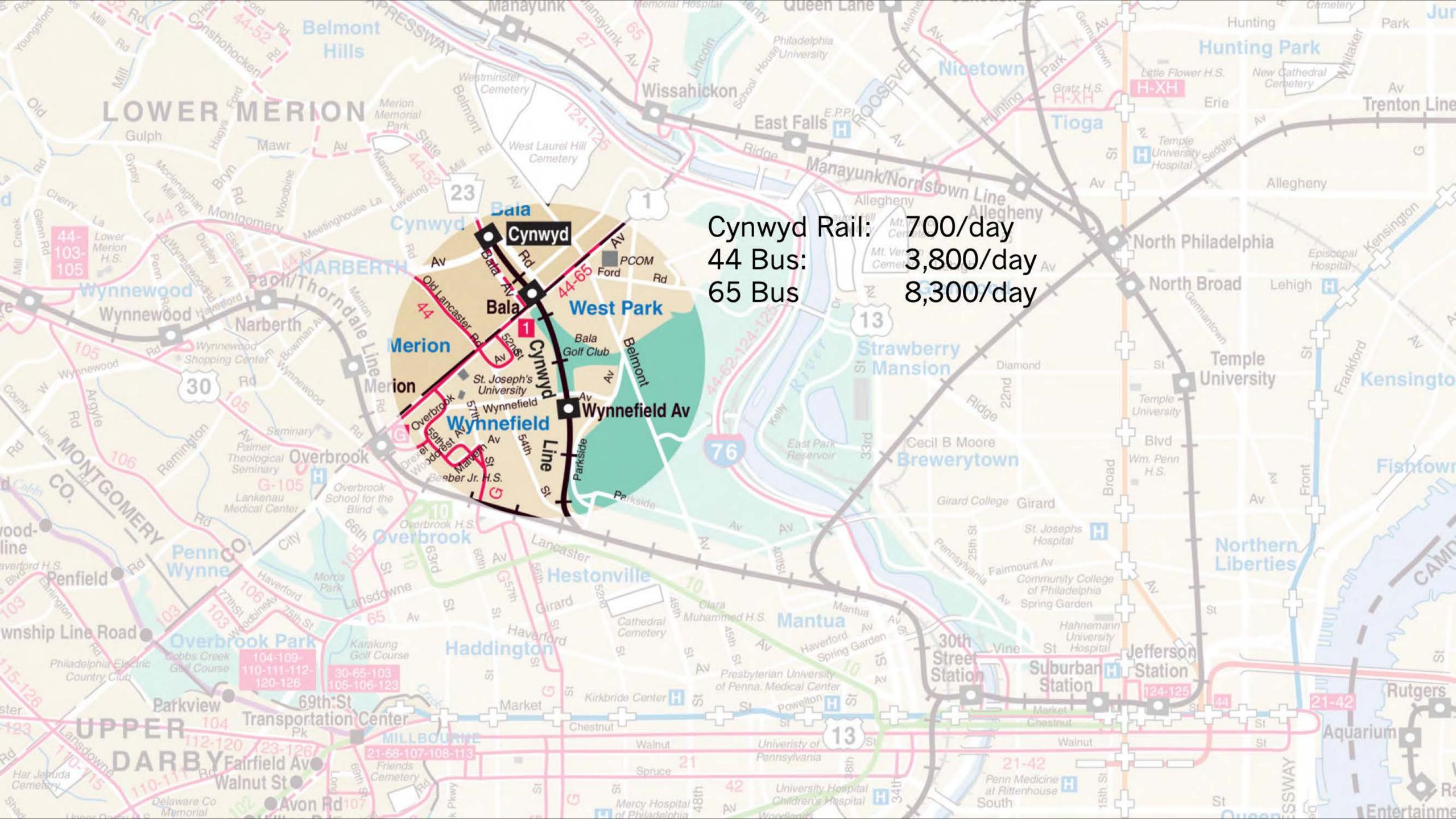


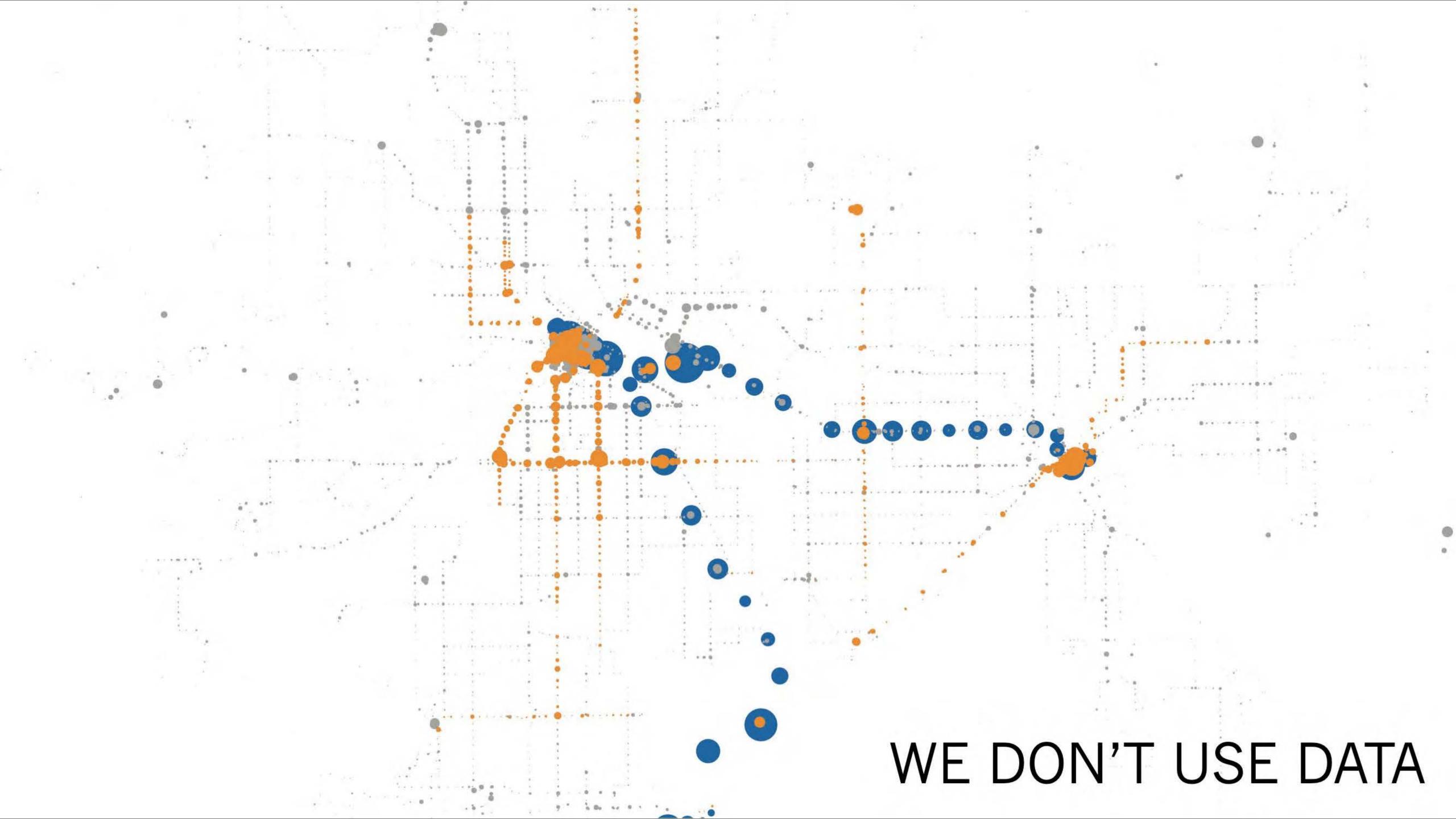


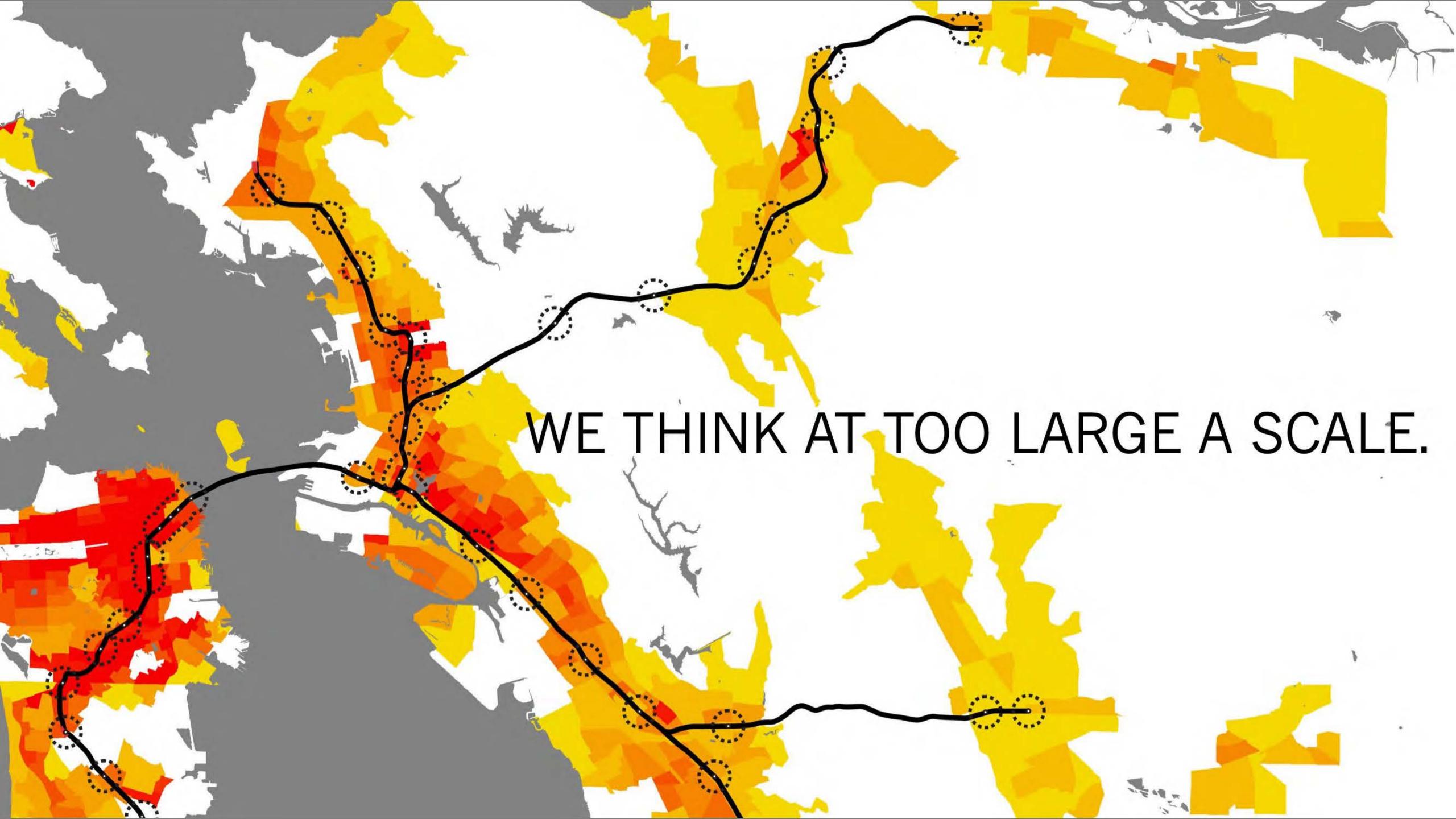




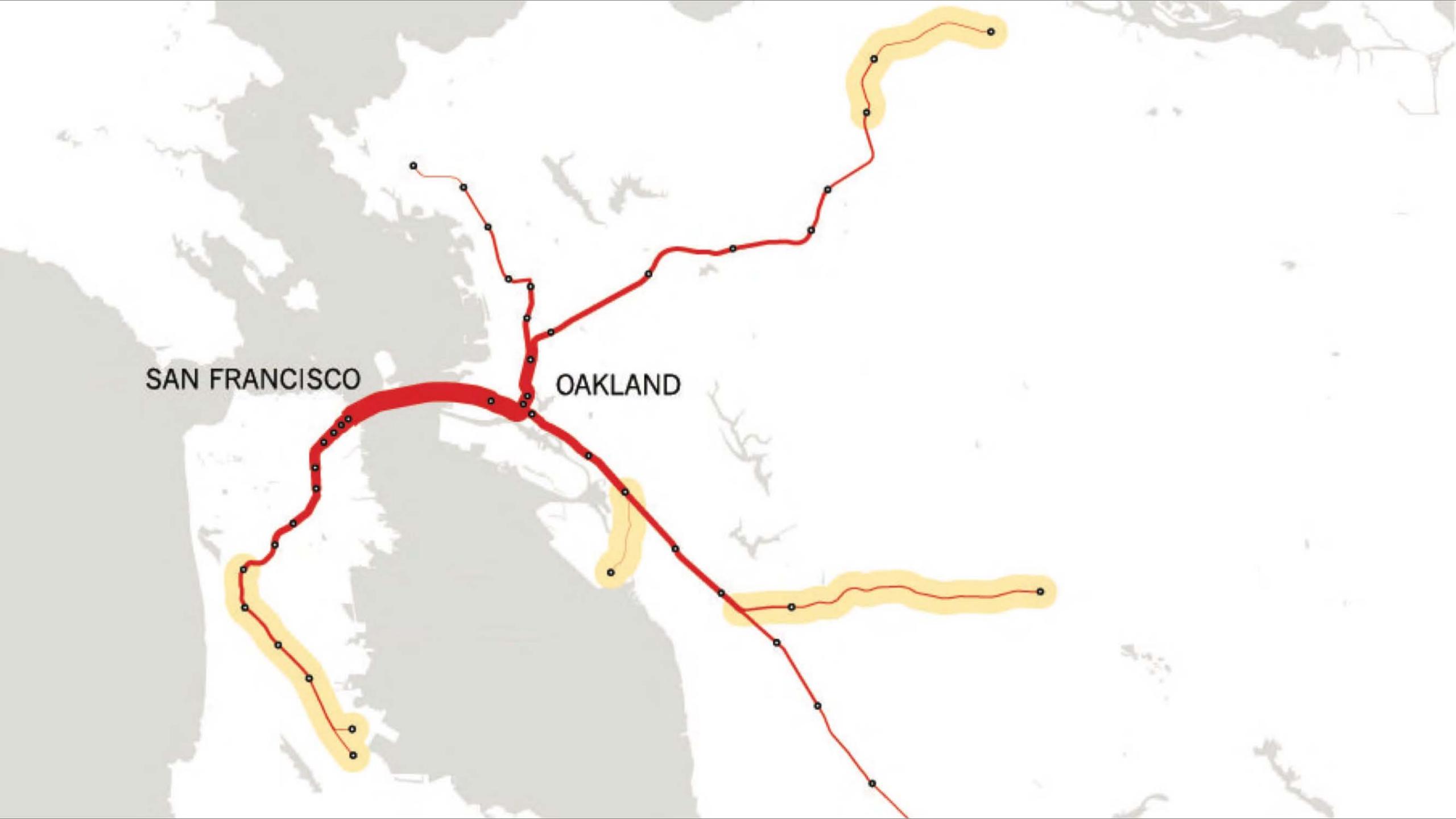












## BART board votes down extension to Livermore

By Michael Cabanatuan Updated 11:30 pm PDT, Thursday, May 24, 2018

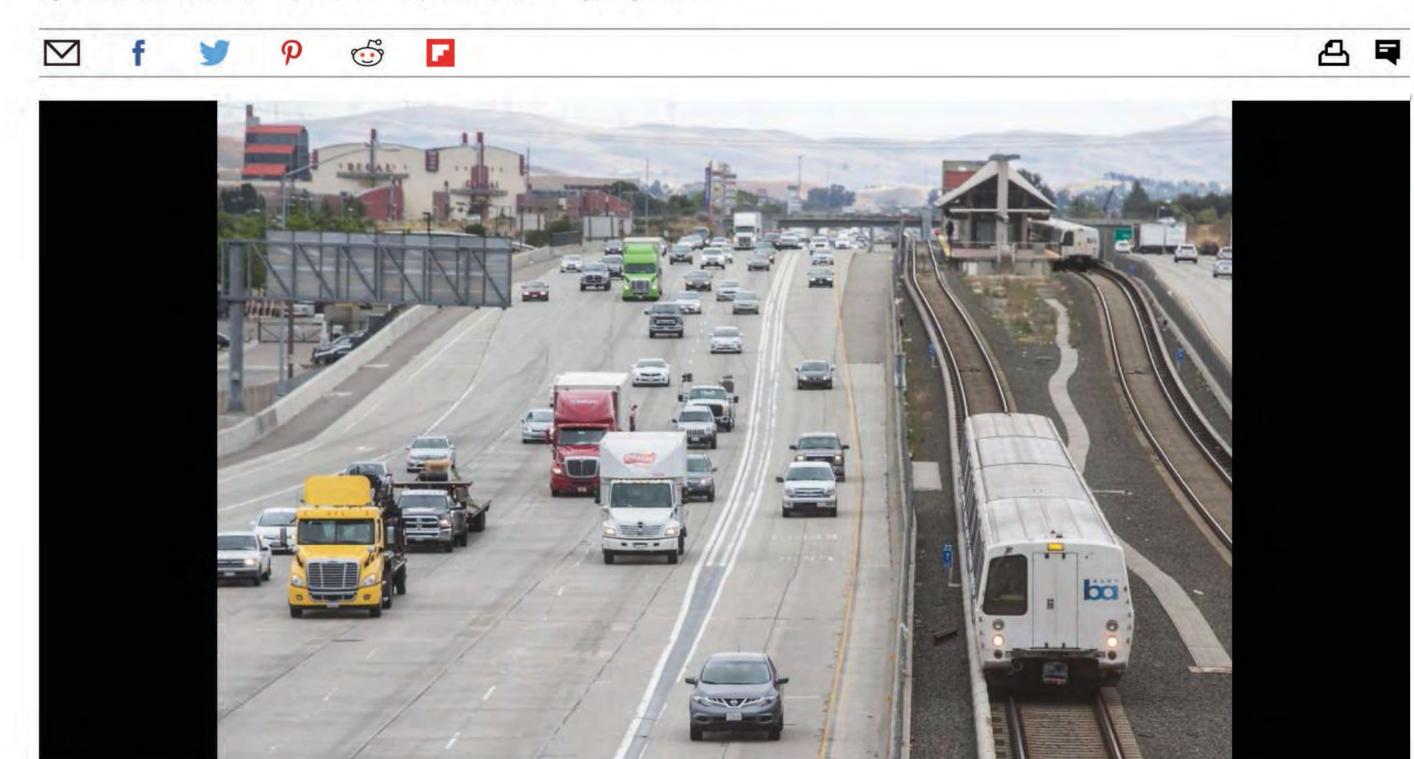


Photo: Jessica Christian / The Chronicle

BART directors decided to not extend the line from this West Dublin/Pleasanton Station to Livermore.

**Buy Photo** 



# 5. SAN FRANCISCO

San Jose-San Francisco-Oakland, CA population 8,607,423 (5th) weekday trips per 1,000 198

The San Francisco Bay Area, divided by water and hills and centered on three major cities (San Francisco, Oakland, and San Jose), is a place of contrasts. San Francisco itself, seven miles square, is the oldest city on the West Coast. Surrounded by water on three sides, it is dense, mixed-use, and walkable. At the south end of the bay, San Jose, which was still surrounded by orchards in the 1960s, is now a sprawl of low-rise, car-oriented office parks known as Silicon Valley. The more the Bay Area population grows, the more the prewar core cities densify, and the rest of the area grows outwards, pushing waves of stucco houses into the farmlands of the Central Valley.

The Bay Area's transit, split into many systems by geography and history, reflects these contrasts in land use. San Francisco has one of the most comprehensive transit networks in the country. Nearly all residents are within walking distance of all-day frequent service. As a result, 25 percent of trips in San Francisco are made on transit. The Geary local bus route alone serves 55,000 riders a day, more than half of the railtransit systems in the United States. MUNI Metro ranks among the three top systems in the country by total ridership and ridership per mile. In San Jose, however, transit struggles. Its light-rail system is one the worst performers in the country. With 42 miles, its light-rail system is longer than San Francisco's, but it carries only a quarter as many riders. San Jose has spent a lot of money on transit, but it has also spent a lot of money on roads and enforced land-use restrictions that limit density. Its tallest building is only

The transit network is tied together by BART, which, like the Bay Area, has a split personality. It was the first modern heavy-rail system in the United States, opened in 1972 as public opinion turned against new freeways. Its single line in San Francisco crosses the bay and then splits into four lines in the East Bay. In its core, it is a busy urban-rail system, tunneling under walkable places, fed by bus routes, and useful for short trips. At its extremities, it acts more like commuter rail, picking up suburbanites from vast parking lots. Pittsburg—the far eastern end of the system—is 40 miles, 55 minutes, and two mountain ranges away from Downtown San Francisco. BART has become essential: it carries 60 percent of peak-hour trips crossing the bay into San Francisco.

The Bay Area is politically disjointed, and the transit system reflects this. There are more than 30 separate transit operators. The region's complex politics also make it hard to make good decisions on capital projects. Ironically, the region's transit-friendly politics can make things worse by ensuring that any project, whether it makes sense or not, can be funded. The region's track record on investments is not good. BART's extensions since 1995 have increased system mileage by 45 percent, but only 20 percent

- + Dense and transit-intense core city with extensive frequent bus and success-
  - Heavy-rail system acting as a regional spine and cross-bay conduit
  - Busy commuter rail with all-day service and employment at both ends Major investments in low-ridership suburban rail while neglecting urban areas Complex and often uncoordinated mix of agencies



independent agency

Heavy Rail

#### MUNI

municipal Frequent Bus Light Rail Streetcar Cable Car



independent agency Light Rail BRT

Frequent Bus

**AC Transit** independent agency Frequent Bus BRT



SamTrans independent agency Frequent Bus



independent agency Frequent Bus

County **County Connection** independent agency Frequent Bus



Caltrain independent agency

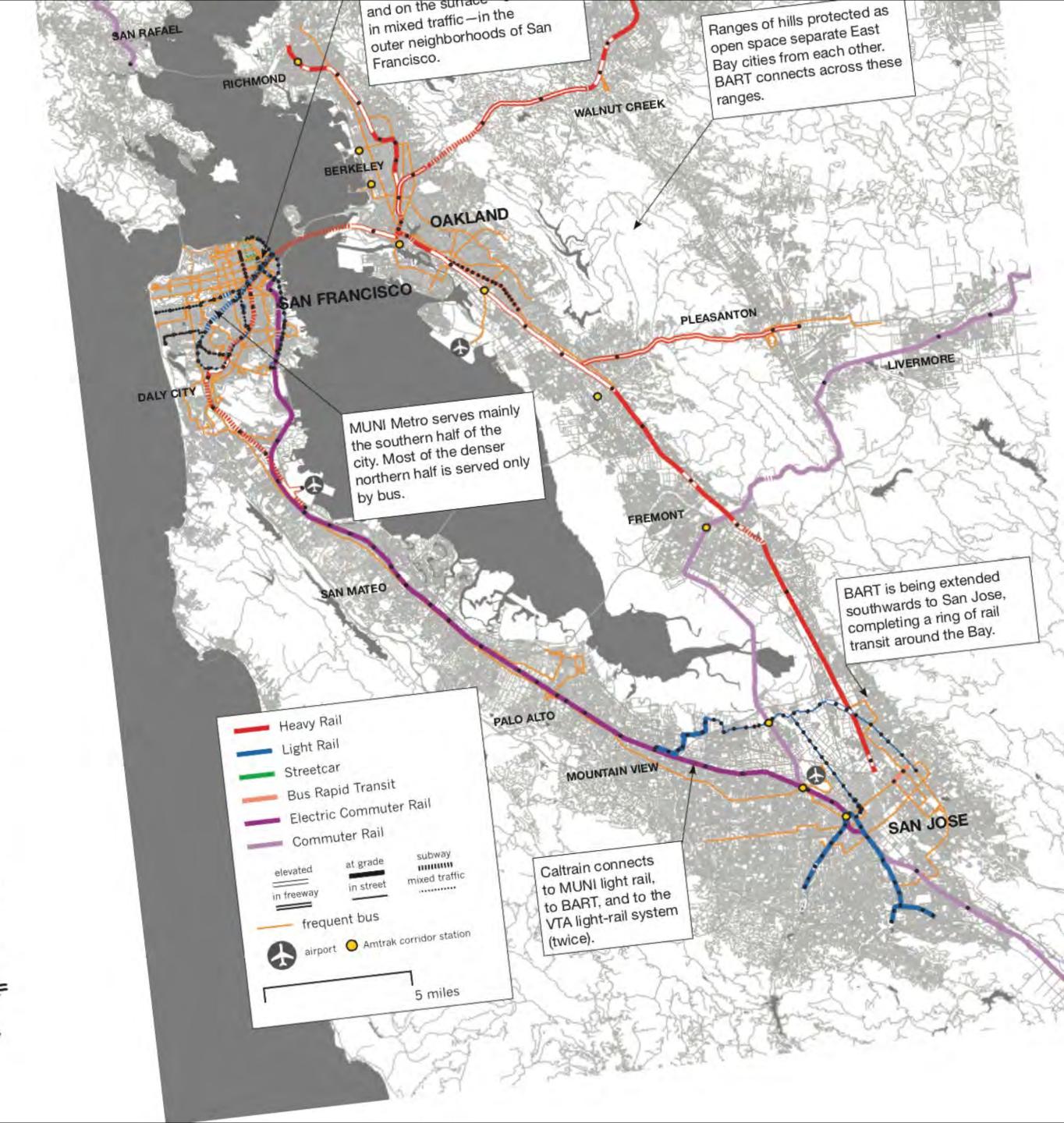
Commuter Rail

Altamont Corridor Express independent agency Commuter Rail

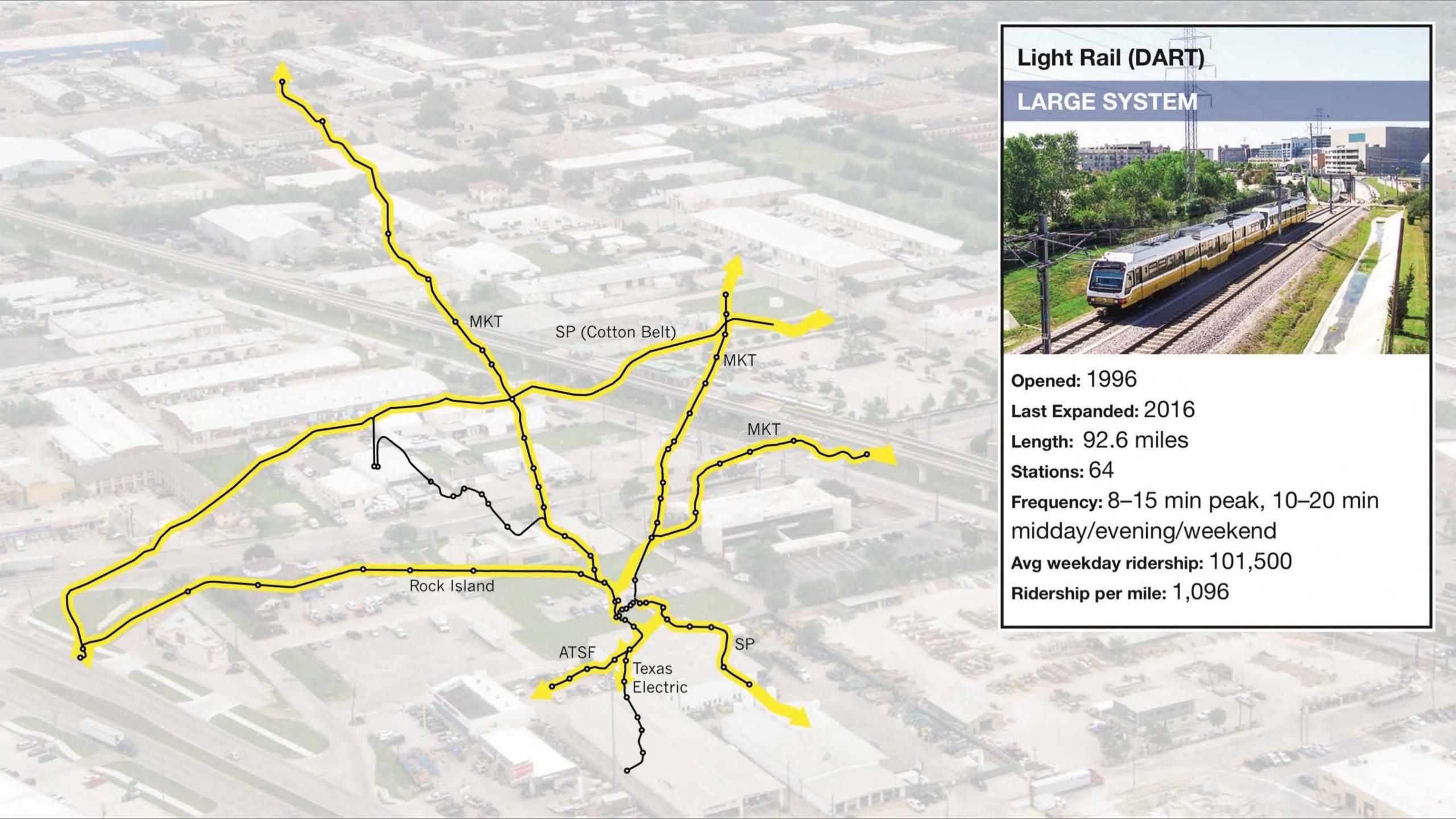


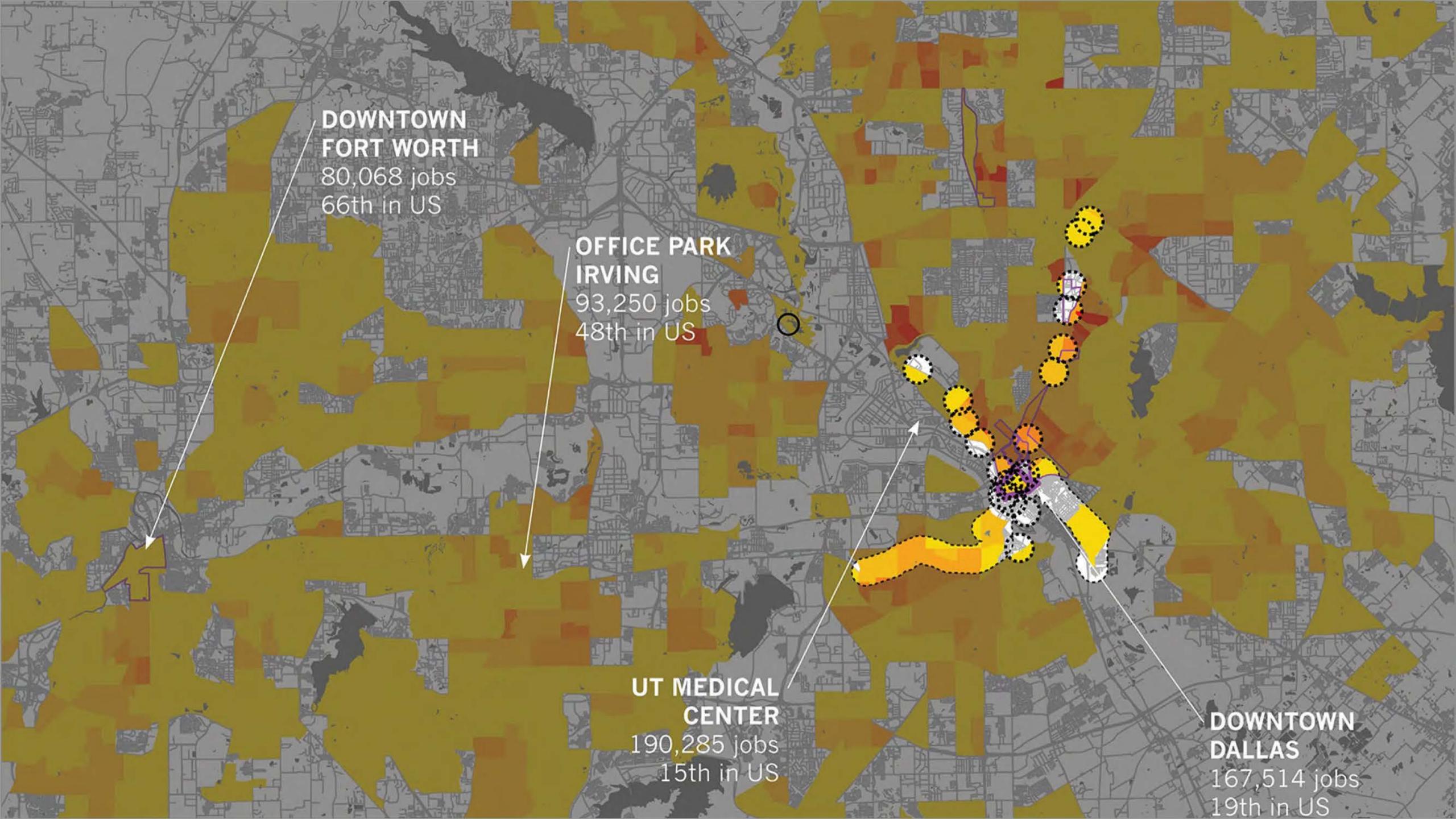
SMART

independent agency Commuter Rail









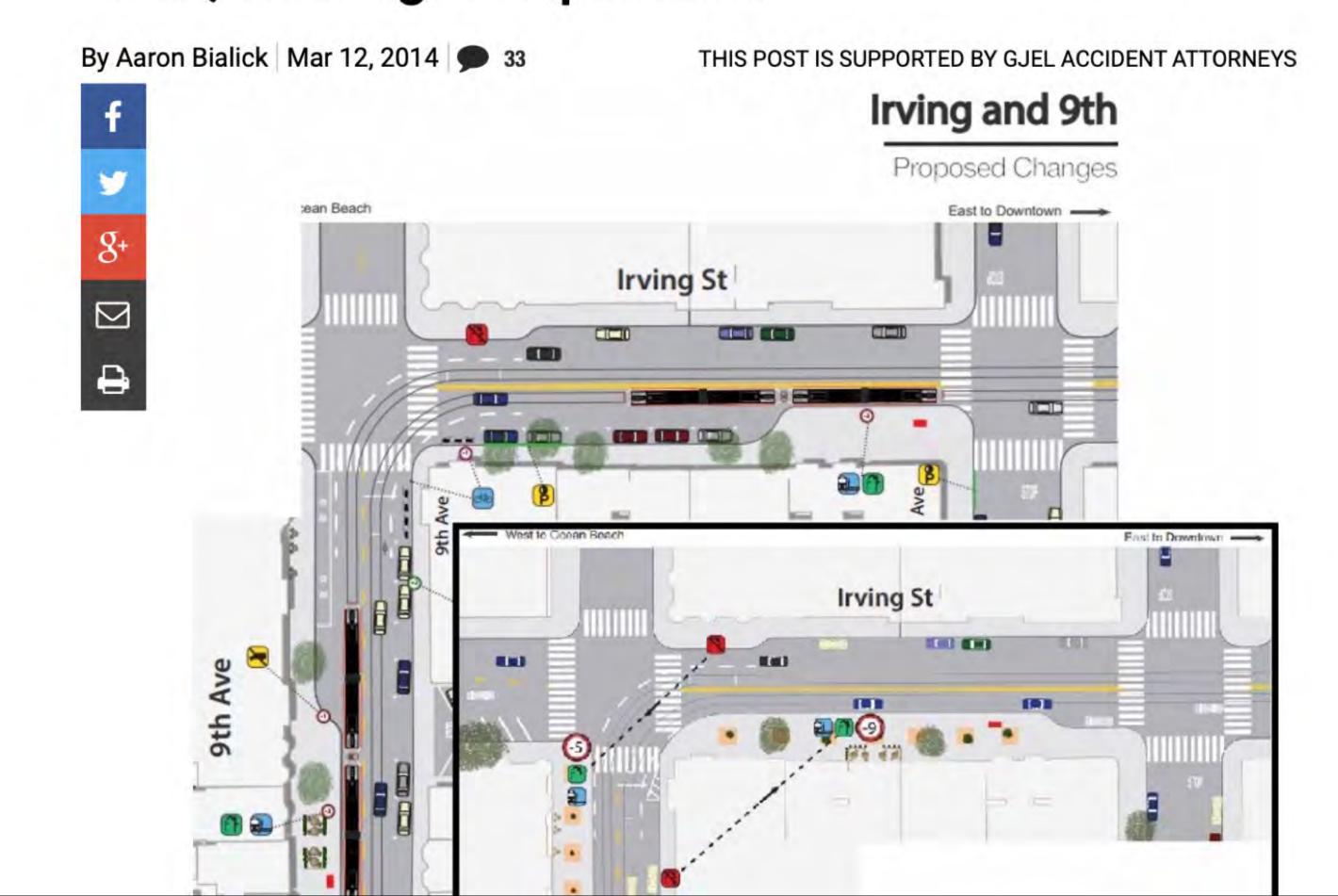


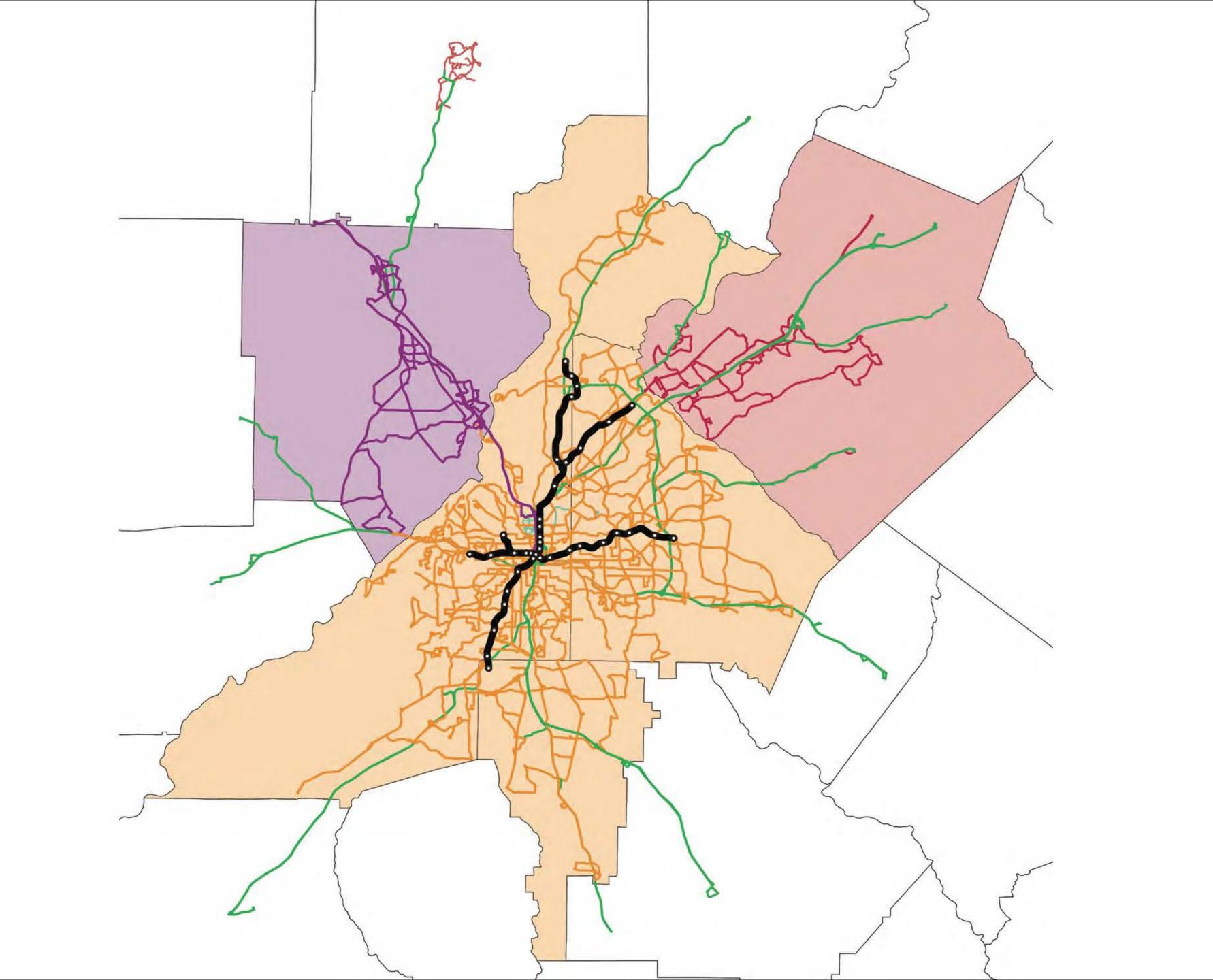


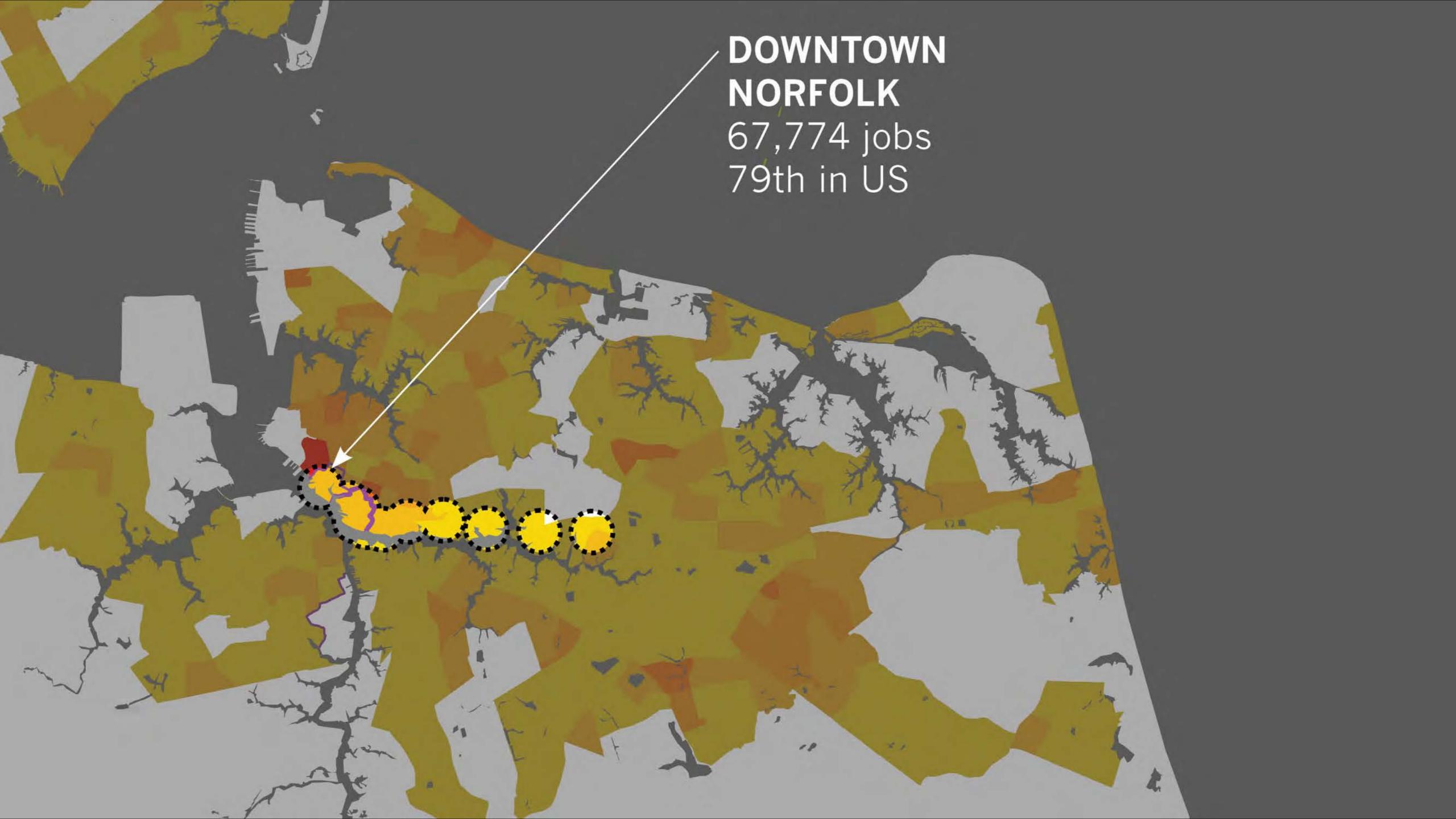
### STREETSBLOG SF

Pedestrian Safety / Bicycling / Muni / Parking / Peninsula / California

## Irving Transit Bulb-Outs Downsized to Appease SFFD, Parking Complainers

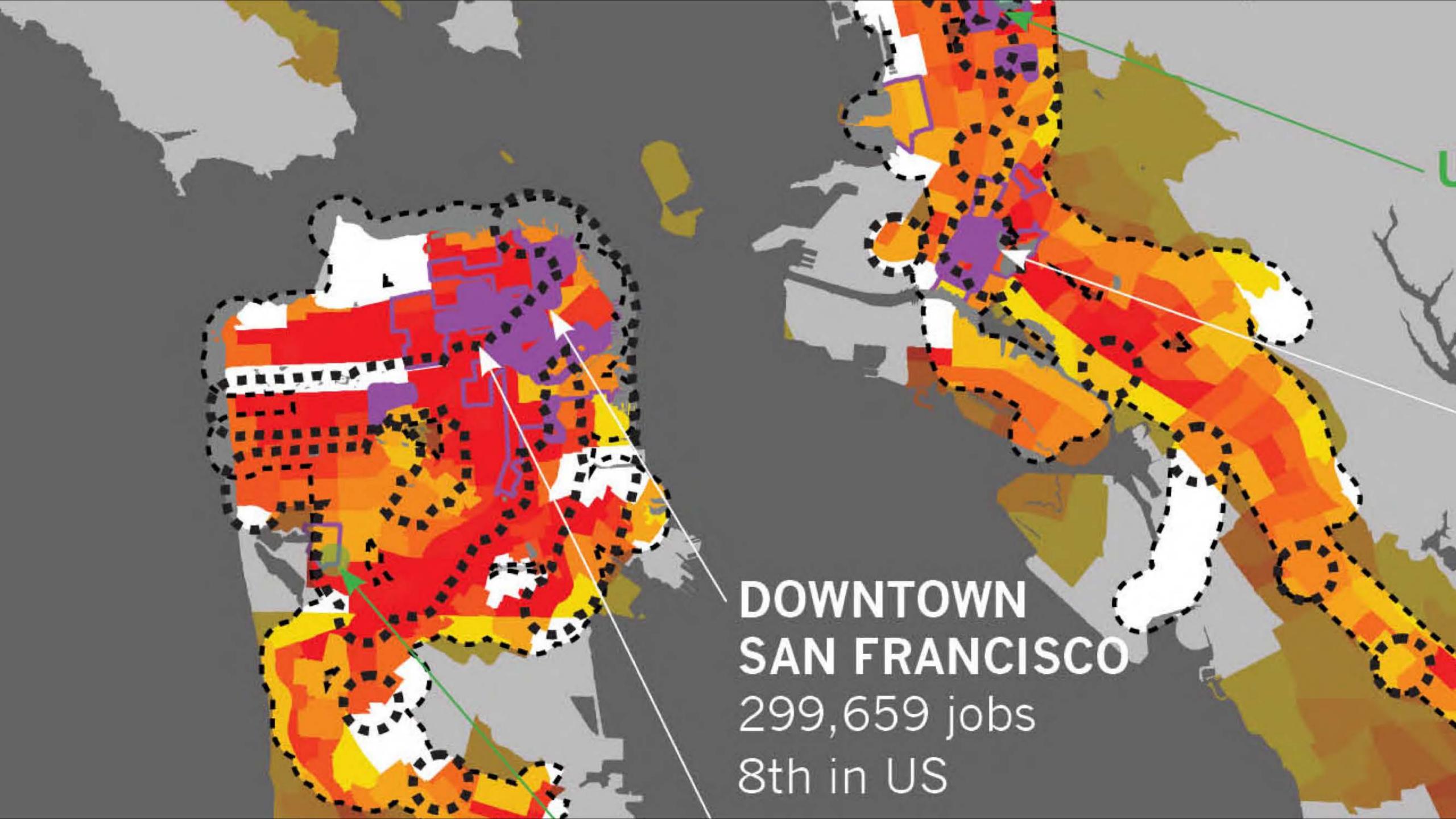


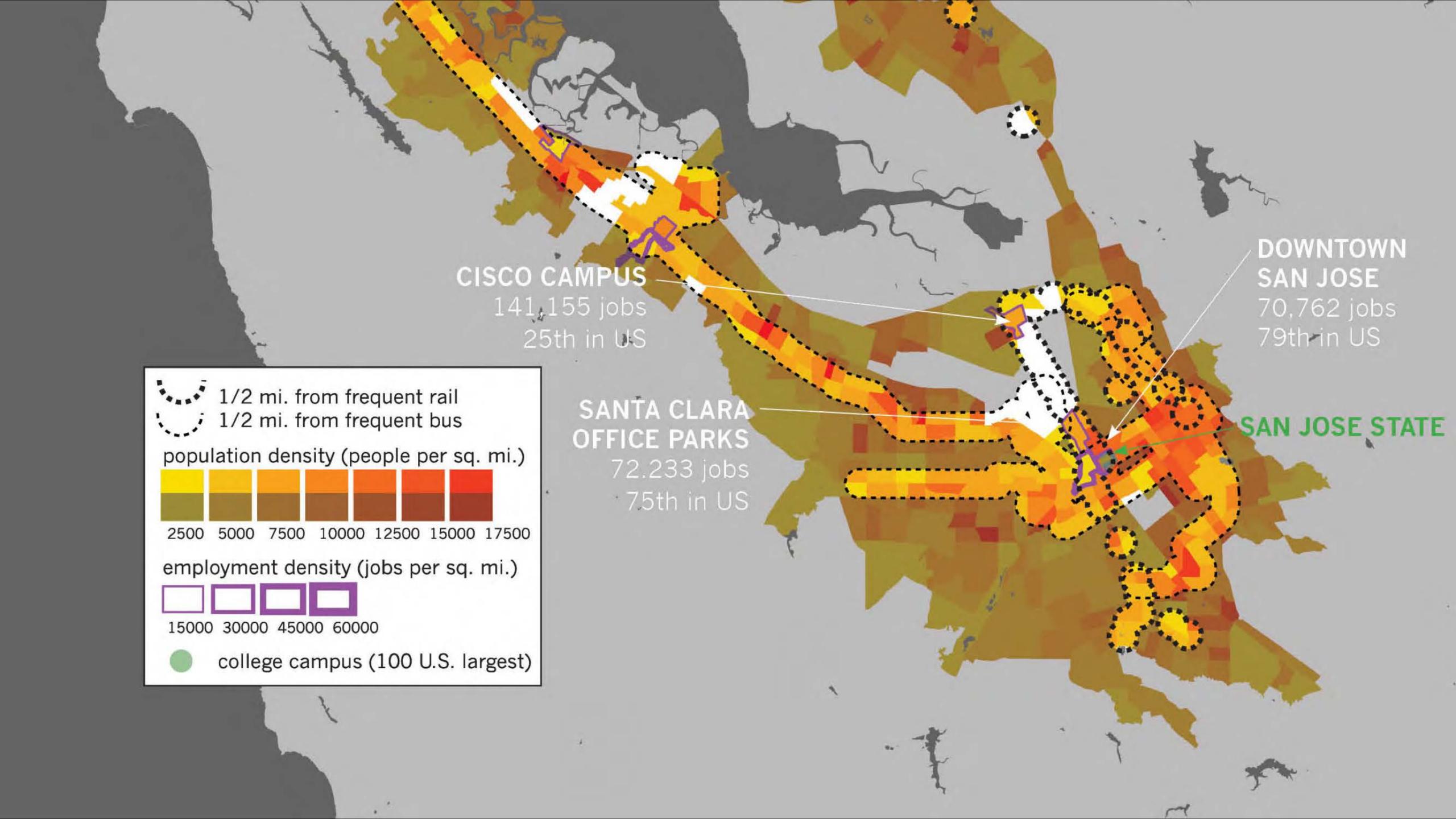


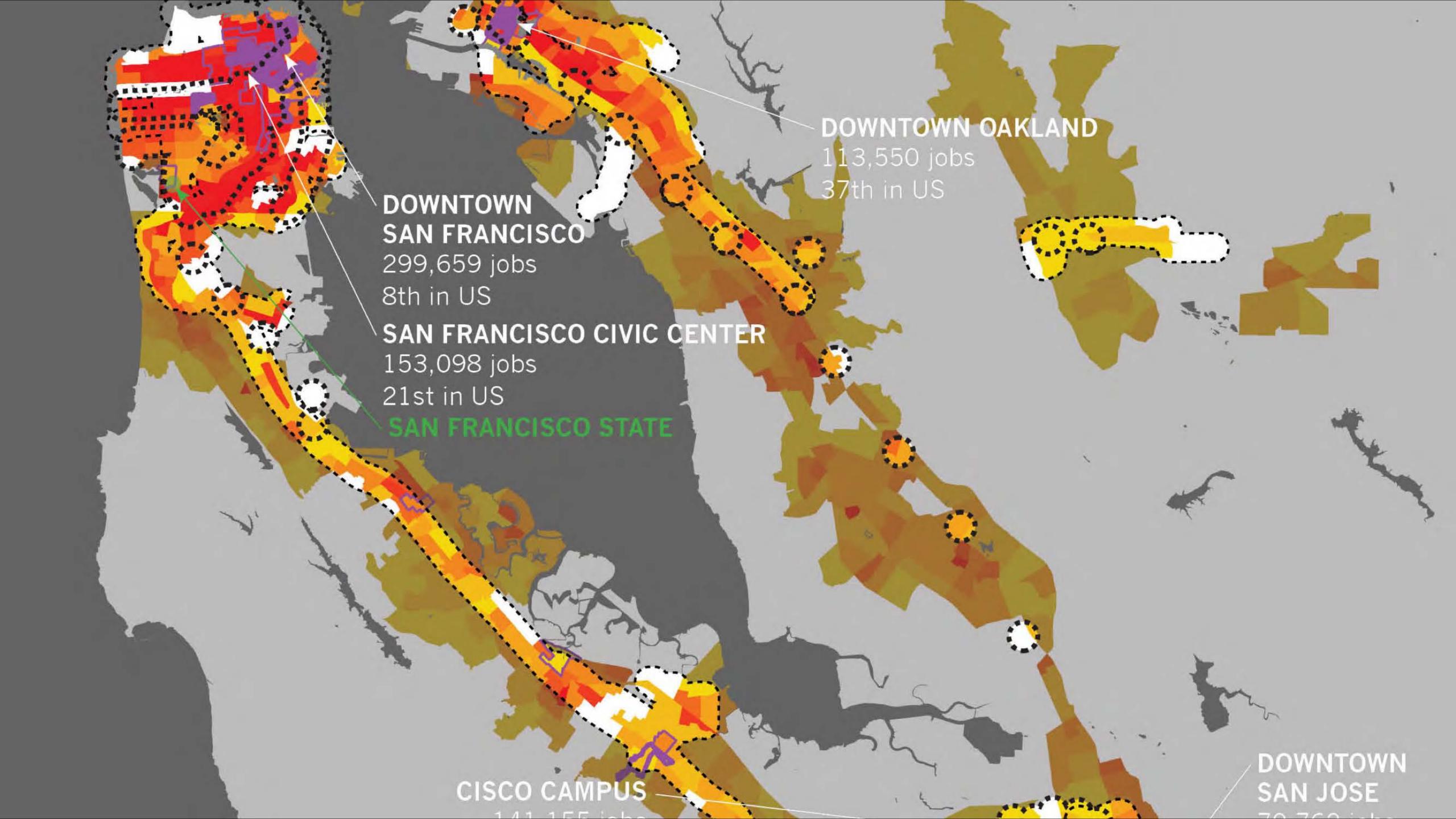


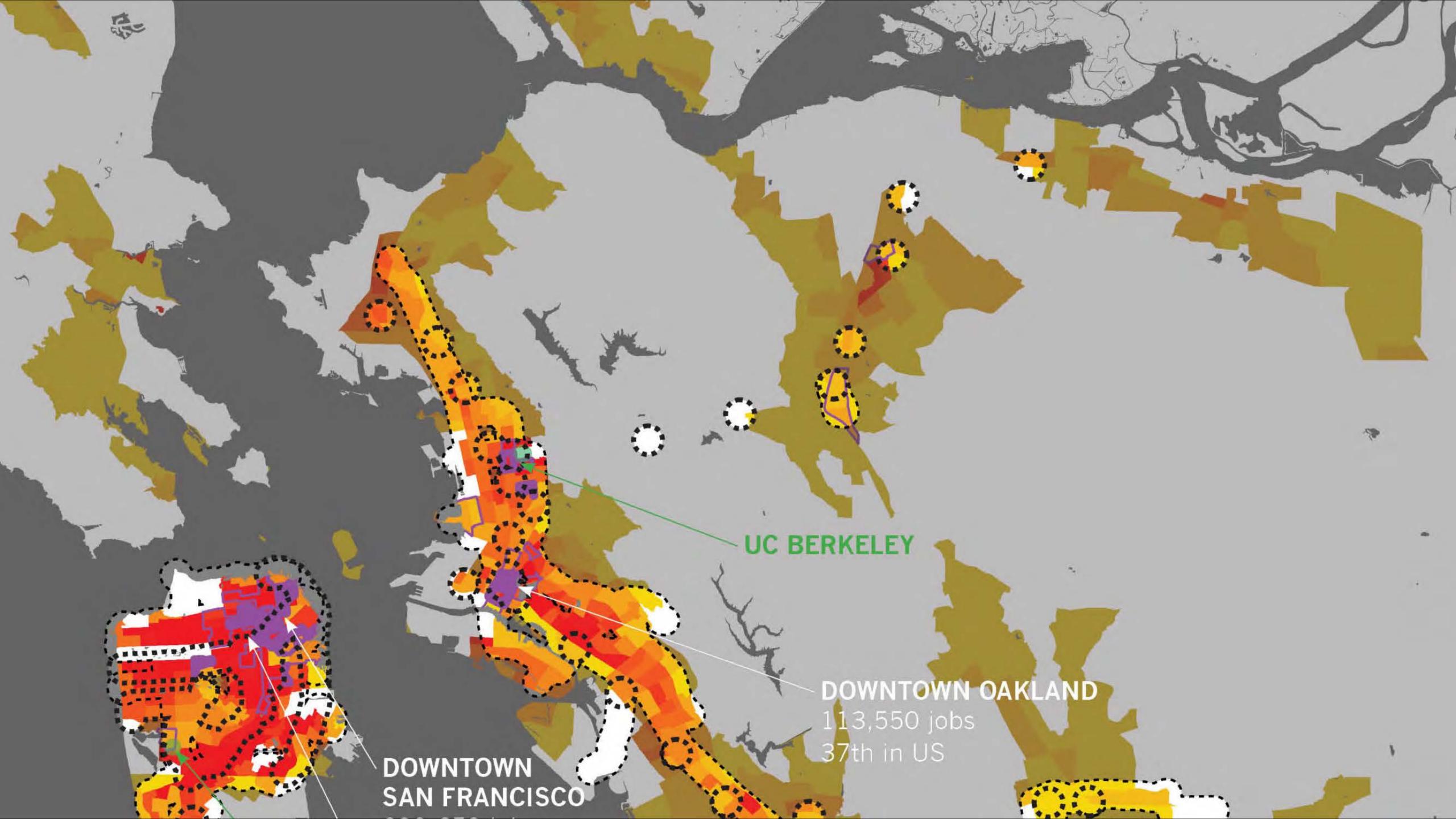














# SPUR MWSPUR

Ideas + Action for a Better City

learn more at SPUR.org