SPUR

Ideas + Action for a Better City

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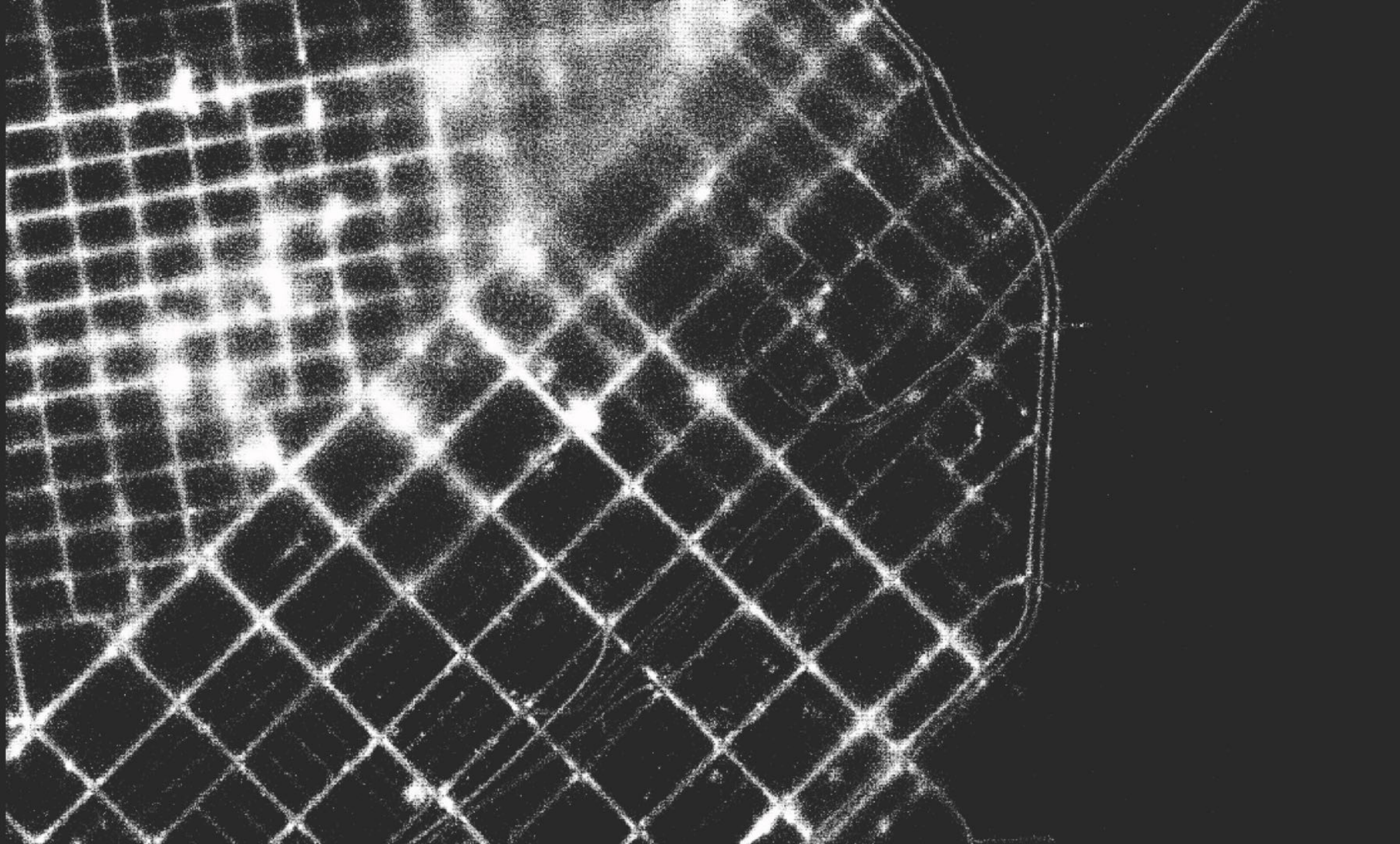
@SPUR_Urbanist
#TransitMaps

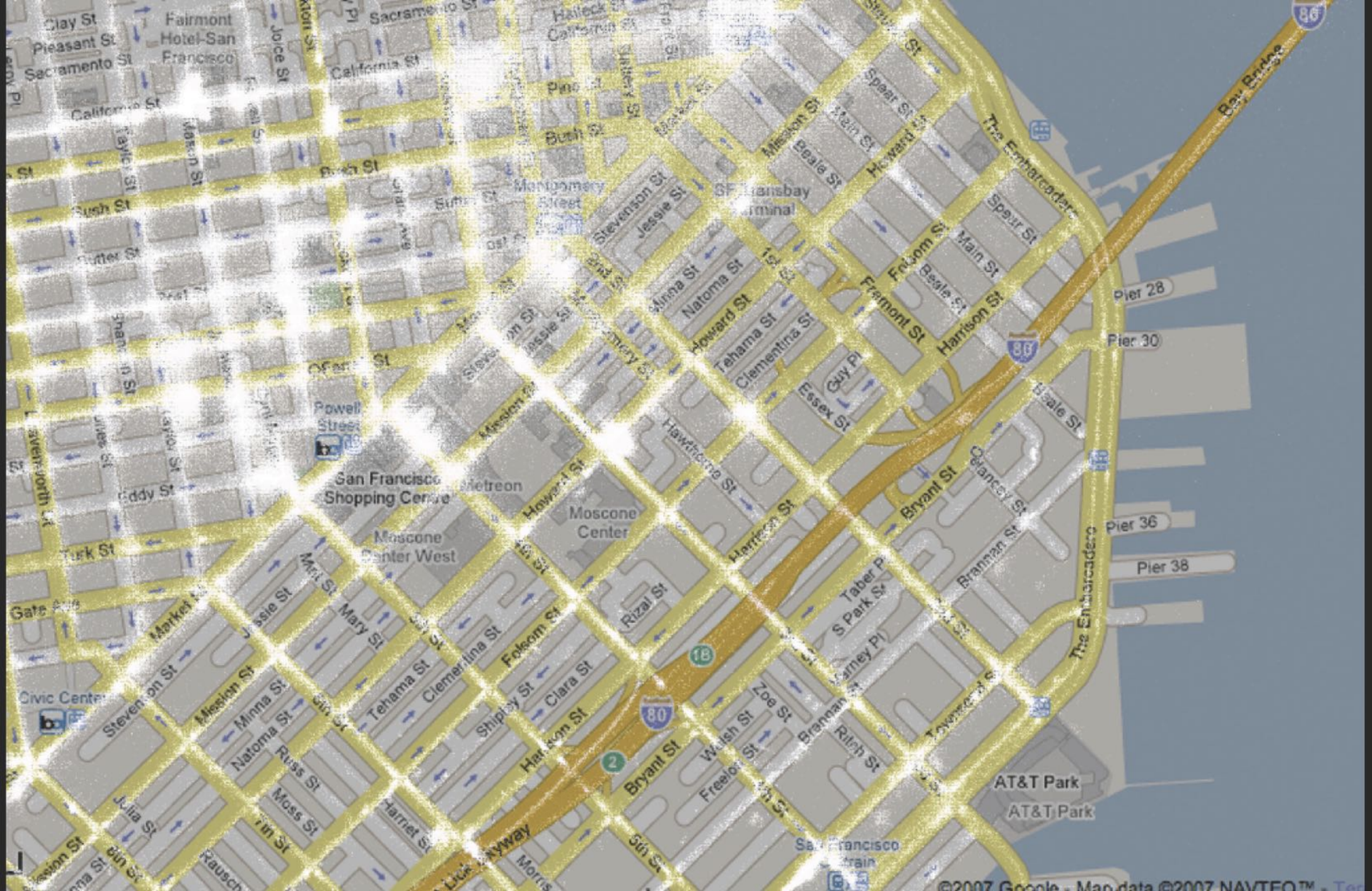
Stamen Design

Eric Rodenbeck

Hi SPUR!

Cabspotting: GPS portraits of city infrastructure

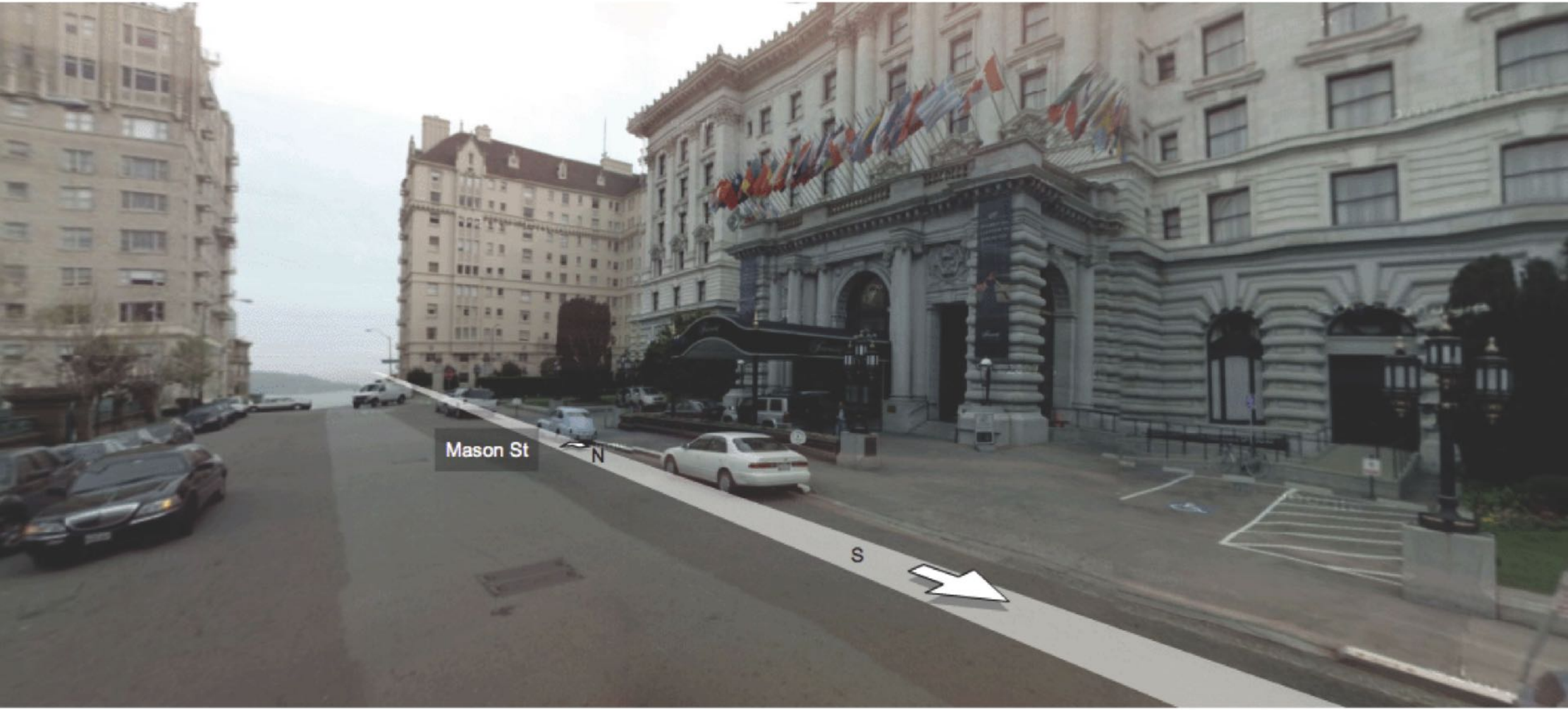


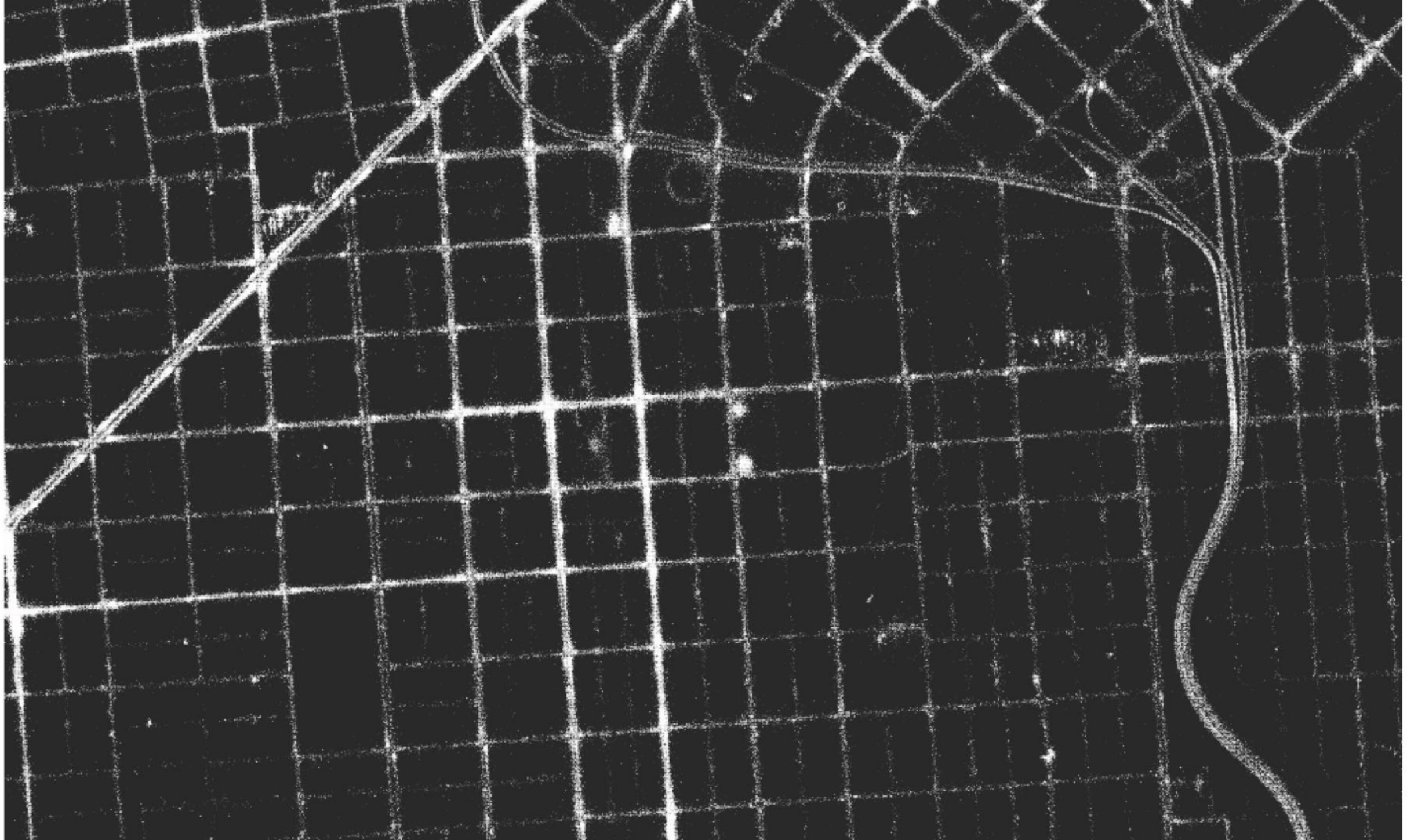


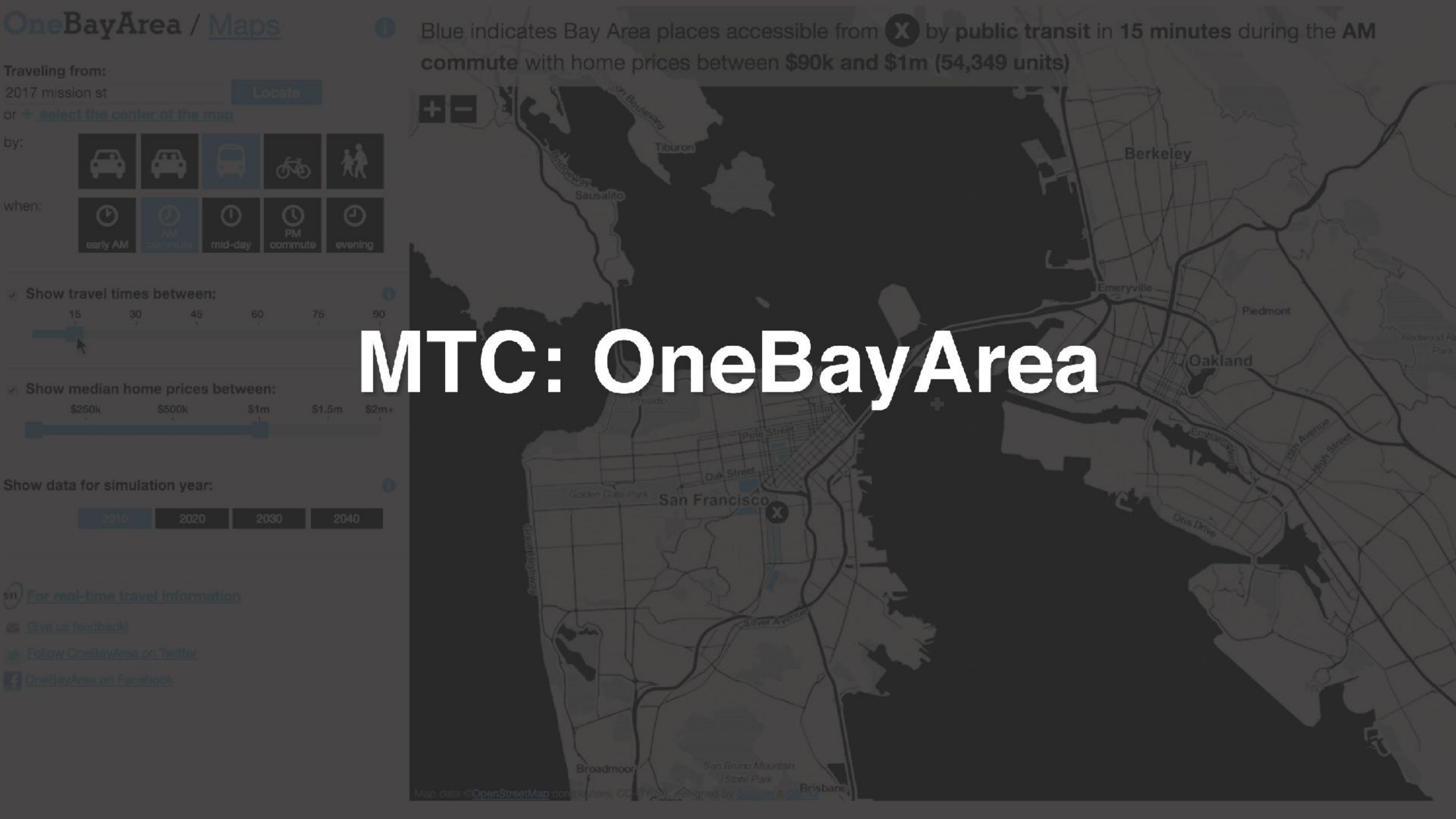
©2007 Google - Map data ©2007 NAVTEQ™

ddress is approximate

Street View






OneBayArea / Maps
Traveling from:
2017 mission st
Locate
or select the center of the map
by:
when:
early AM
AM commute
mid-day
PM commute
evening
Show travel times between:
15
30
45
60
75
90
Show median home prices between:
$250k
$500k
$1m
$1.5m
$2m+
Show data for simulation year:
2010
2020
2030
2040
For real-time travel information
Give us feedback!
Follow OneBayArea on Twitter
OneBayArea on Facebook
Blue indicates Bay Area places accessible from by public transit in 15 minutes during the AM commute with home prices between $90k and $1m (54,349 units)
Tiburon
Sausalito
Berkeley
Emeryville
Piedmont
Oakland
San Francisco
Golden Gate Park
Presidio
Oak Street
Pine Street
Silver Avenue
Broadmoor
Brisbane
Otis Drive
MTC: OneBayArea

OneBayArea / Maps

Traveling from:

2017 mission st | Locate

or + select the center of the map

by:

when:

early AM	AM commute	mid-day	PM commute	evening

Show travel times between:

15 30 45 60 75 90

Show median home prices between:

$250k $500k $1m $1.5m $2m+

Show data for simulation year:

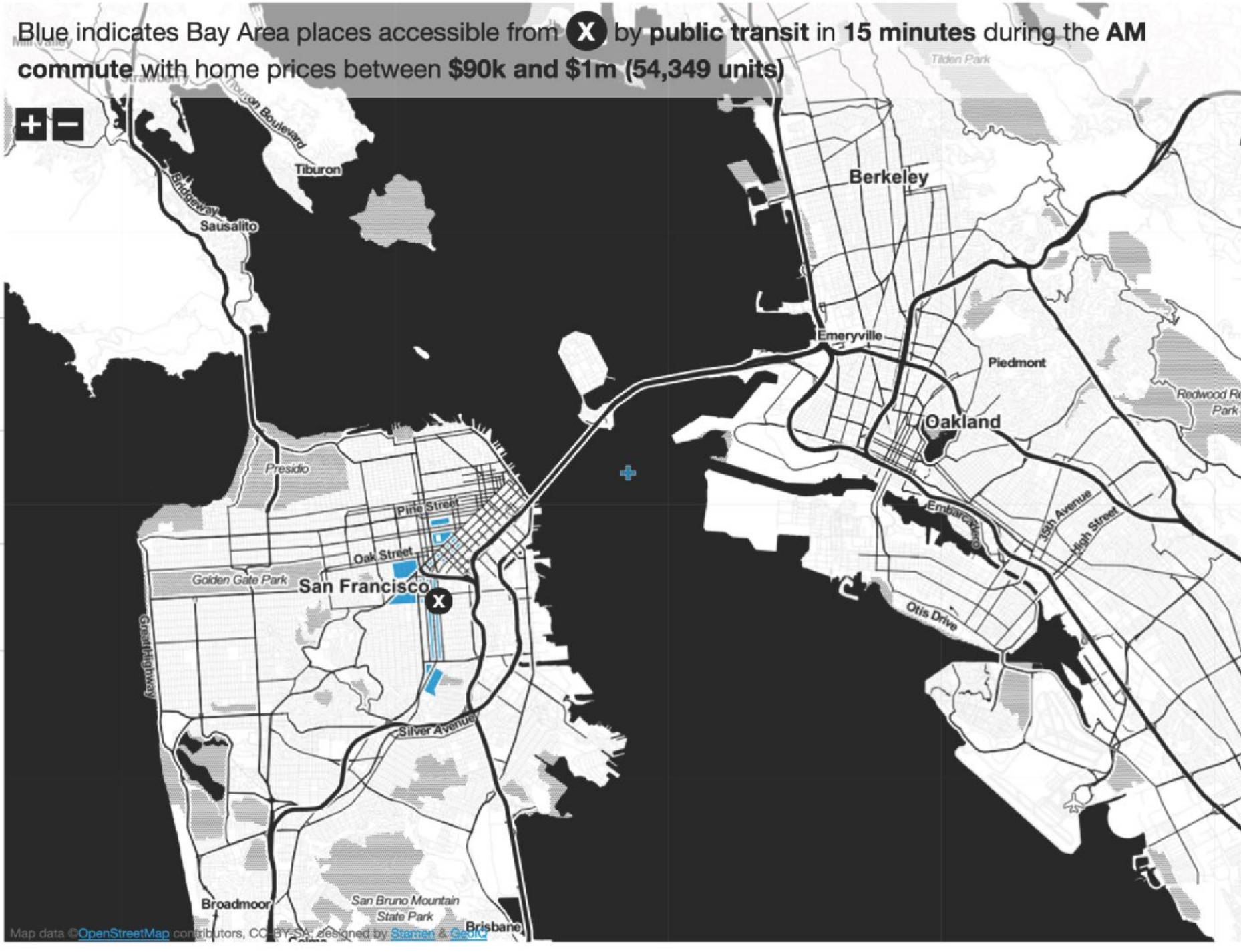
2010 | 2020 | 2030 | 2040

For real-time travel information

Give us feedback!

Follow OneBayArea on Twitter

OneBayArea on Facebook



OneBayArea / Maps

Traveling from:

2017 mission st | Locate

or + select the center of the map

by:

when: early AM | AM commute | mid-day | PM commute | evening

Show travel times between: 15 30 45 60 75 90

Show median home prices between: $250k $500k $1m $1.5m $2m+

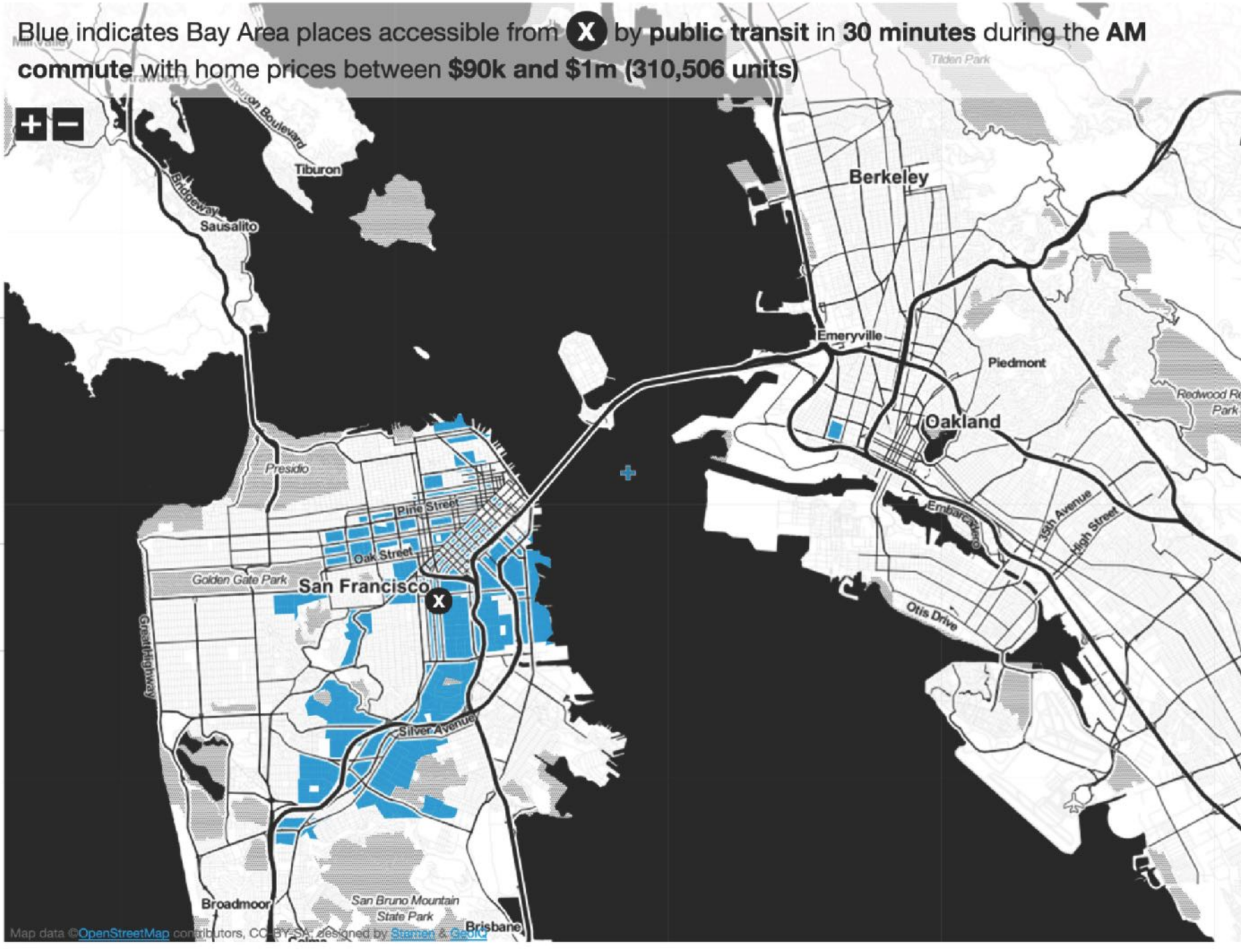
Show data for simulation year: 2010 | 2020 | 2030 | 2040

511 For real-time travel information

Give us feedback!

Follow OneBayArea on Twitter

OneBayArea on Facebook



OneBayArea / Maps

Traveling from:

2017 mission st **Locate**

or + select the center of the map

by:

when:

early AM | AM commute | mid-day | PM commute | evening

Show travel times between:

15 30 45 60 75 90

Show median home prices between:

$250k $500k $1m $1.5m $2m+

Show data for simulation year:

2010 2020 2030 2040

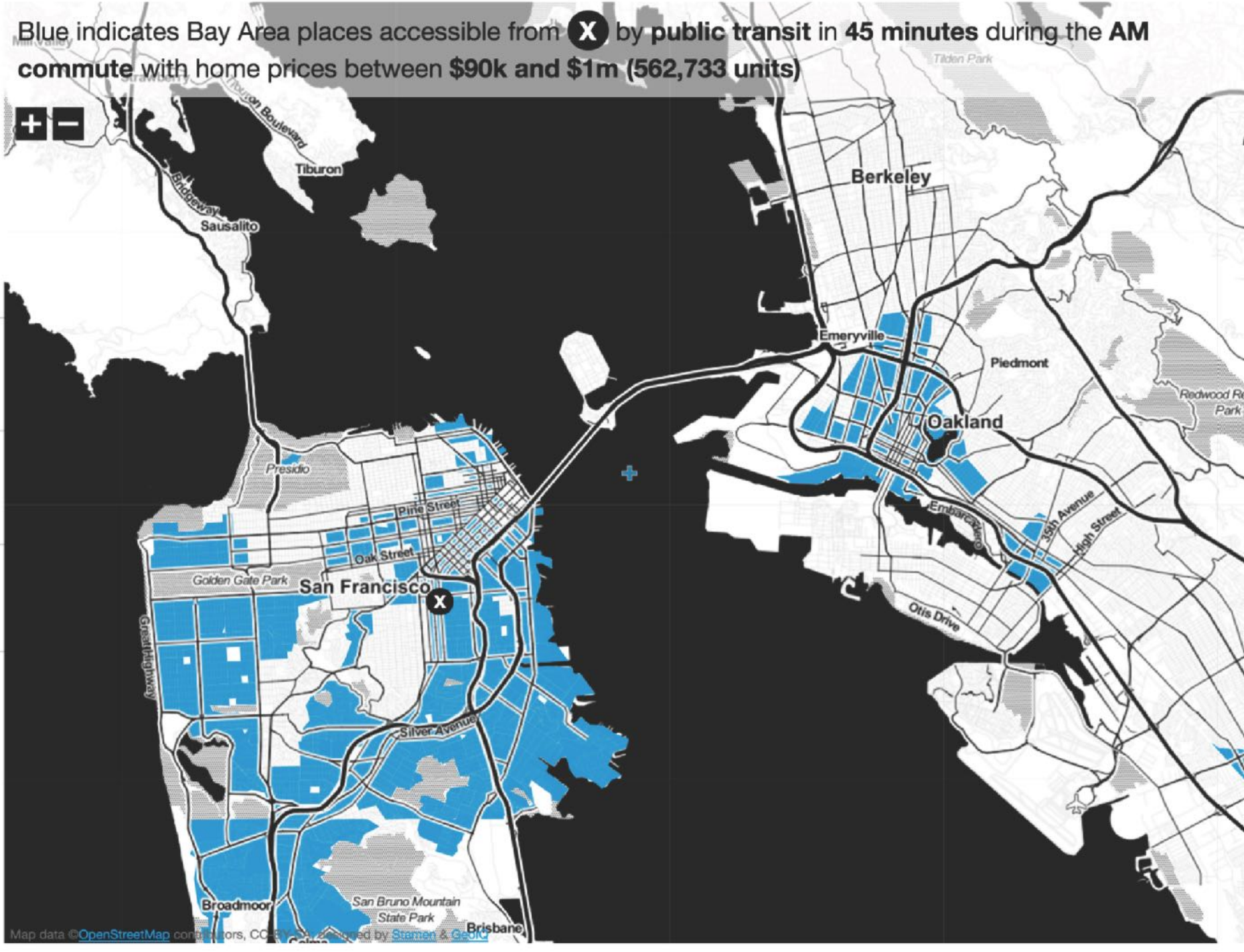
For real-time travel information

Give us feedback!

Follow OneBayArea on Twitter

OneBayArea on Facebook

Blue indicates Bay Area places accessible from X by **public transit** in **45 minutes** during the **AM commute** with home prices between **$90k and $1m (562,733 units)**



OneBayArea / Maps

Traveling from:

2017 mission st | Locate

or + select the center of the map

by:

when:

early AM	AM commute	mid-day	PM commute	evening

Show travel times between:

15 30 45 60 75 90

Show median home prices between:

$250k $500k $1m $1.5m $2m+

Show data for simulation year:

2010 | 2020 | 2030 | 2040

511 For real-time travel information

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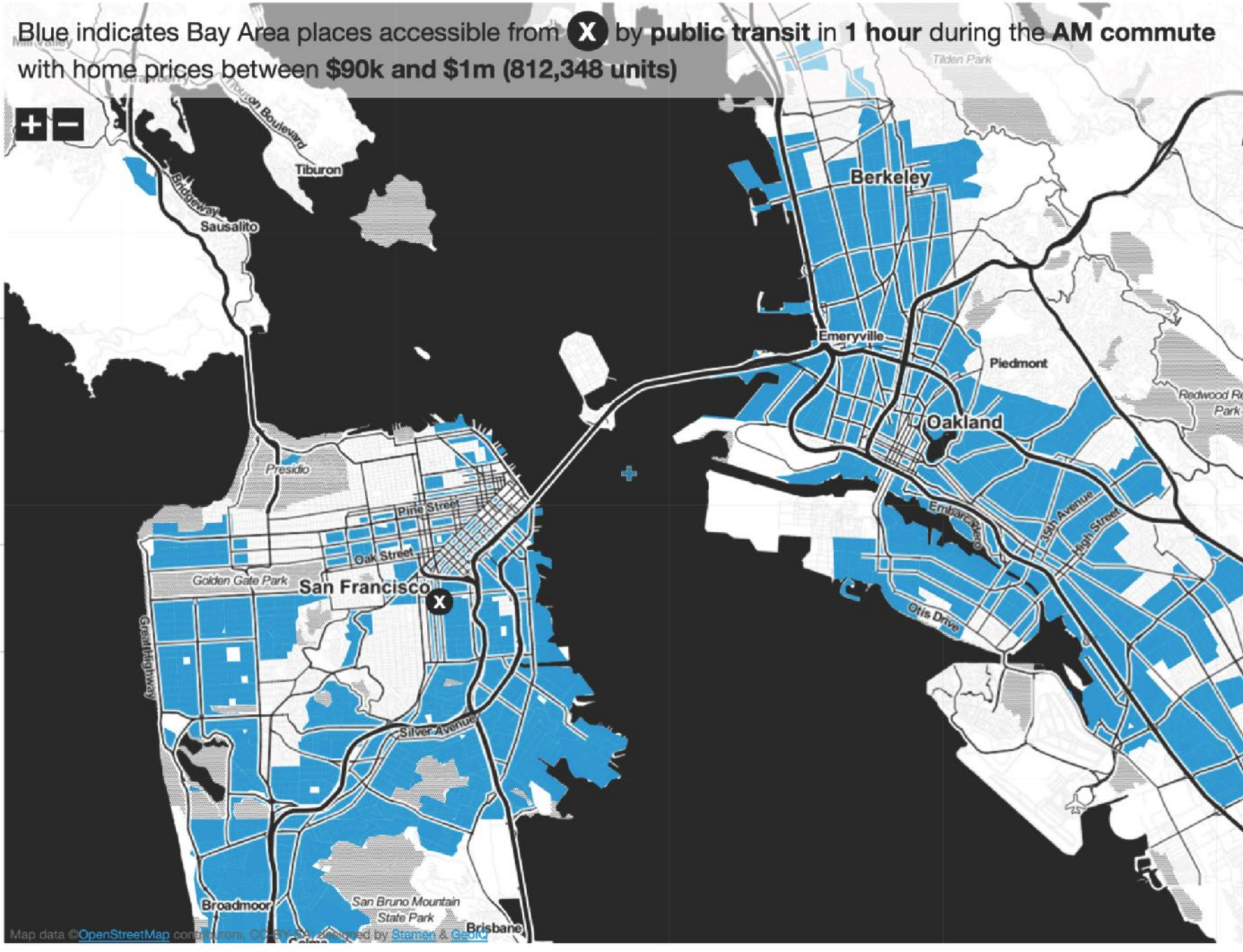

OneBayArea / Maps

Traveling from:

2017 mission st | Locate

or + select the center of the map

by:

when:

early AM	AM commute	mid-day	PM commute	evening

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Show data for simulation year:

2010 | 2020 | 2030 | 2040

511 For real-time travel information

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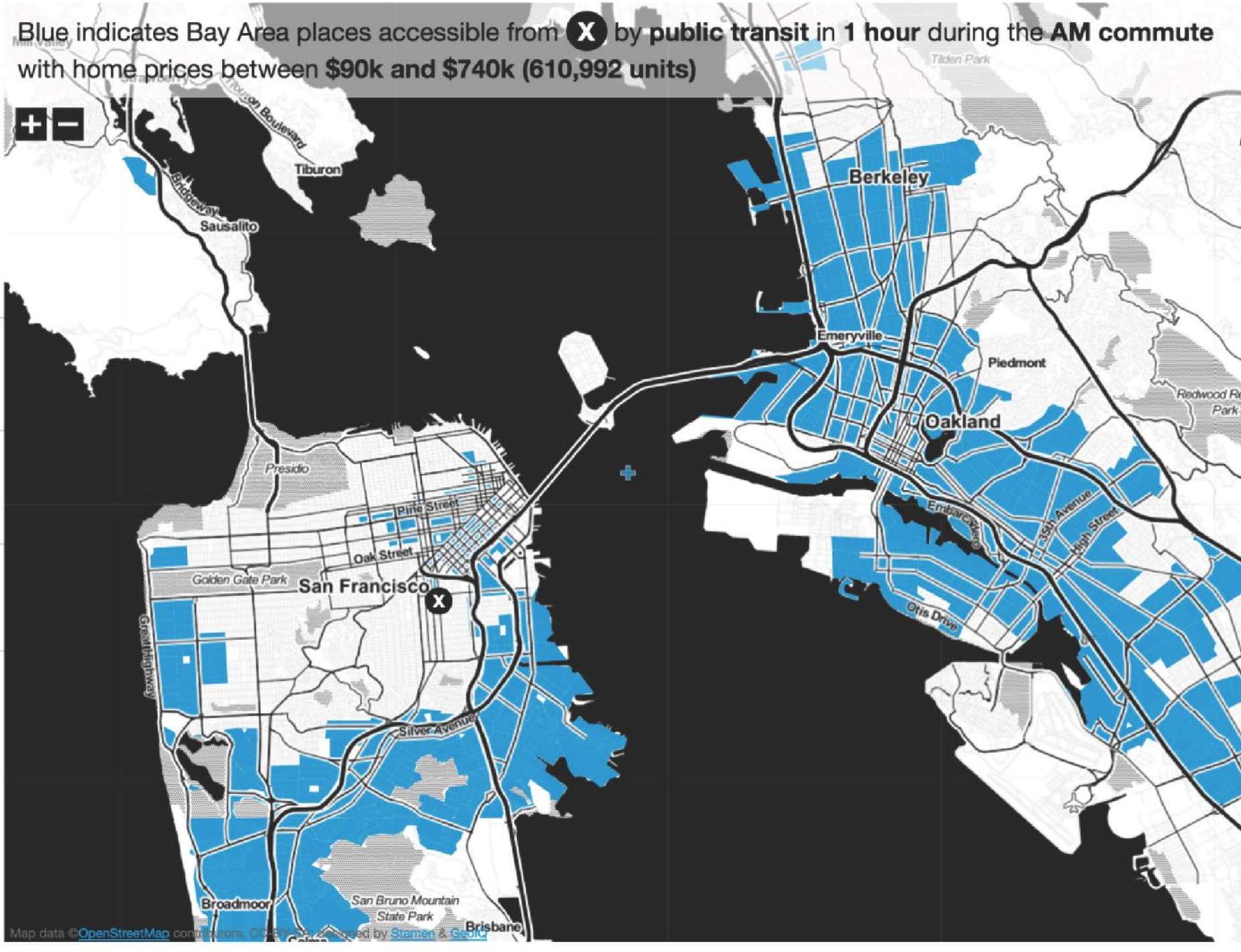

OneBayArea / Maps

Traveling from:

2017 mission st | Locate

or + select the center of the map

by:

when:

early AM	AM commute	mid-day	PM commute	evening

Show travel times between:

15 30 45 60 75 90

Show median home prices between:

$250k $500k $1m $1.5m $2m+

Show data for simulation year:

2010 | 2020 | 2030 | 2040

For real-time travel information

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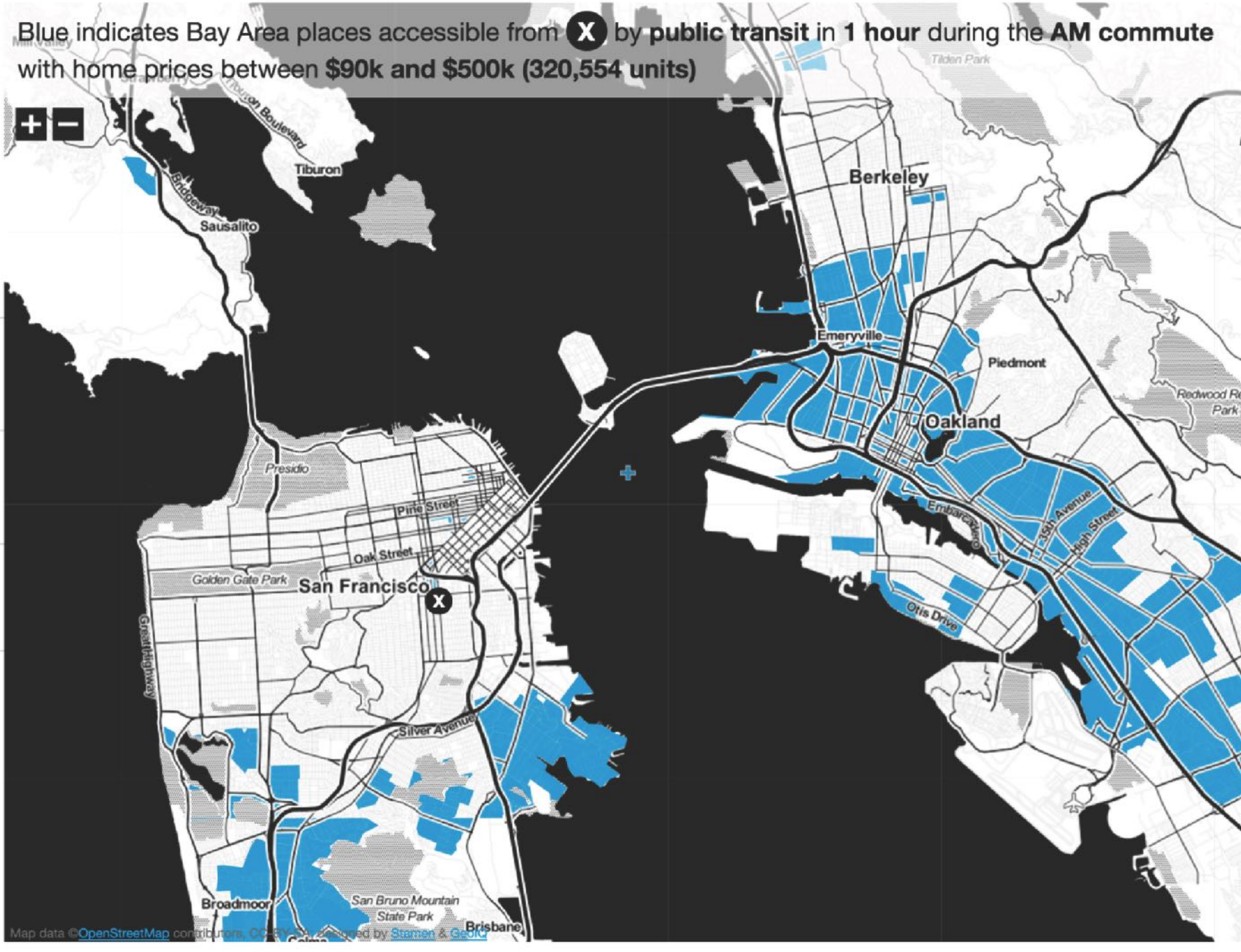
OneBayArea on Facebook



OneBayArea / Maps

Traveling from:

2017 mission st | Locate

or + select the center of the map

by:

when: early AM | AM commute | mid-day | PM commute | evening

Show travel times between: 15 30 45 60 75 90

Show median home prices between: $250k $500k $1m $1.5m $2m+

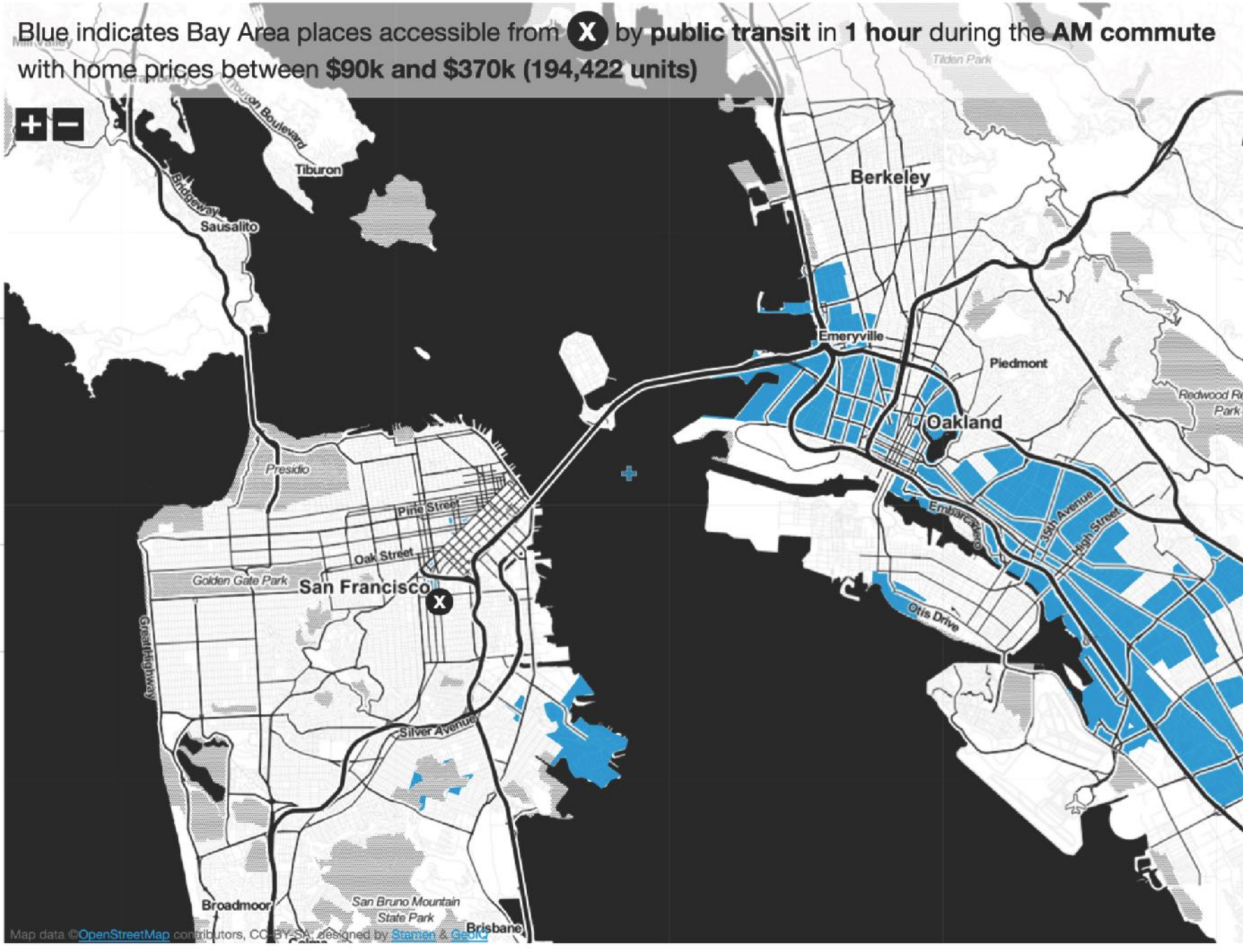
Show data for simulation year: 2010 | 2020 | 2030 | 2040

511 For real-time travel information

Give us feedback!

Follow OneBayArea on Twitter

OneBayArea on Facebook



OneBayArea / Maps

Traveling from:

2017 mission st | Locate

or + select the center of the map

by:

when: early AM | AM commute | mid-day | PM commute | evening

Show travel times between: 15 30 45 60 75 90

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Show data for simulation year: 2010 | 2020 | 2030 | 2040

For real-time travel information

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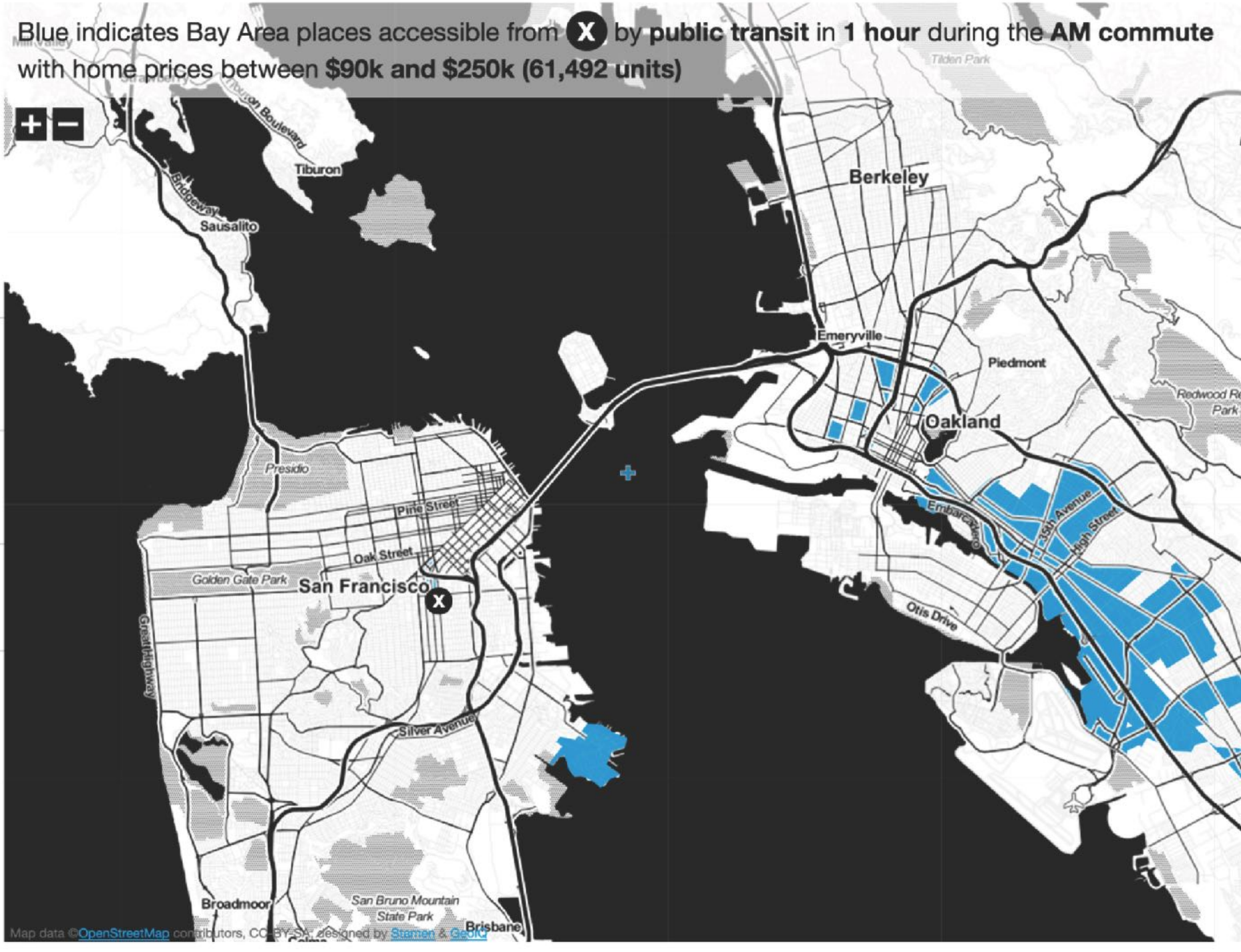
OneBayArea on Facebook



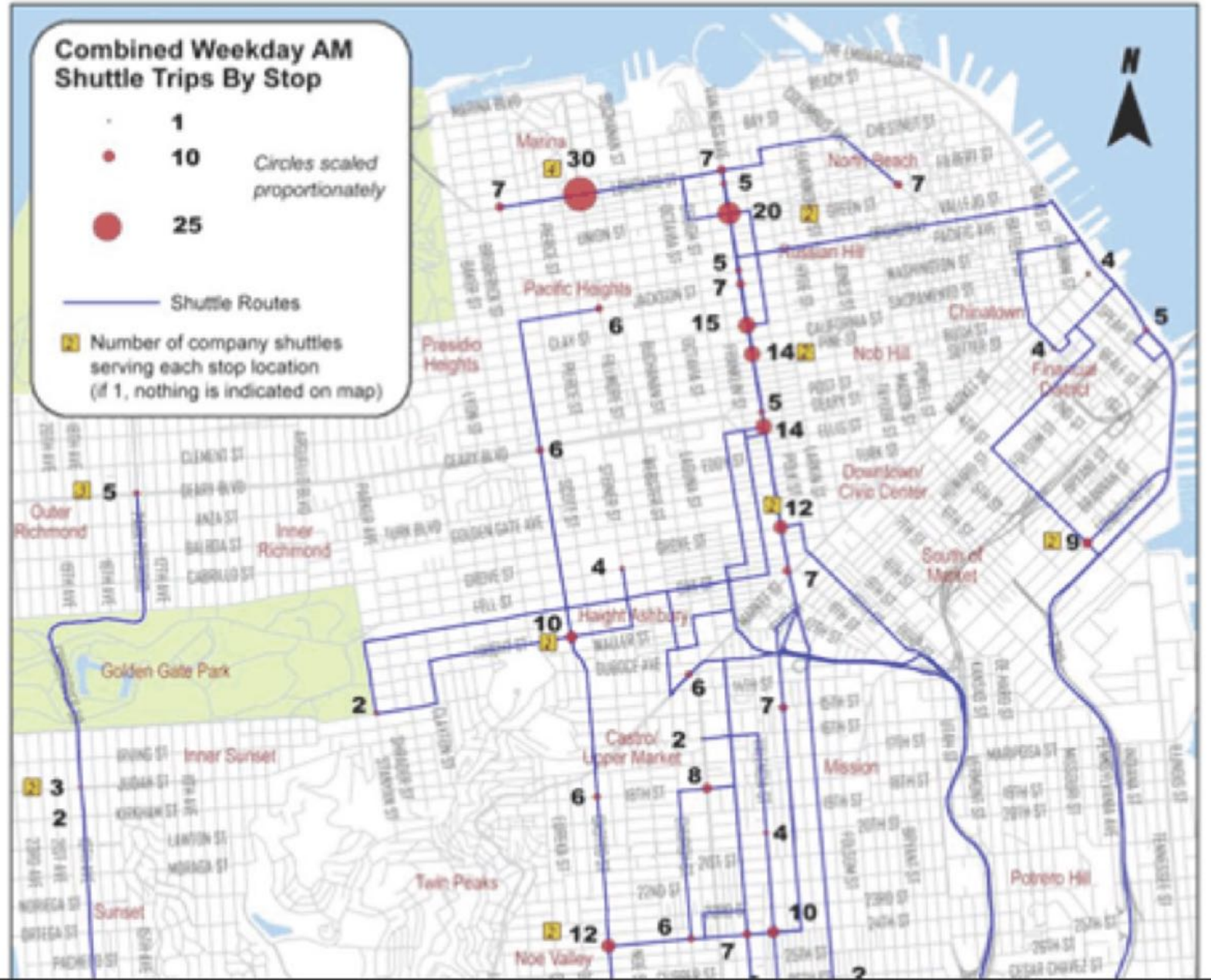
zero1 hiding in plain sight

47
GBUS TO SBO

Google

San Francisco
Dog run
24th @Valencia
@Dolores
24th @Church
Civic Center

APPENDIX B. PENINSULA EMPLOYEE SHUTTLES | SAN FRANCISCO TRIPS (DATA FROM GENENTECH, APPLE, YAHOO!, AND GOOGLE, WINTER 2009)



foursquare Search people and places... Sign up Log in

Get personalized recommendations for places based on where you and your friends have been.

Sign up with Facebook

Or take the scenic route: Sign up with Email

Search

Search for places, tips, people, lists below. Narrow down your search with a location in the "near" field.

Results for: google shuttle

Near: San Francisco

SEARCH

Search for whatever you're craving! Get personalized results based on what you, your friends, and the foursquare community like on the Explore tab!

Places (31)

Lists (0)

Tips (0)

People (0)

Pages (0)

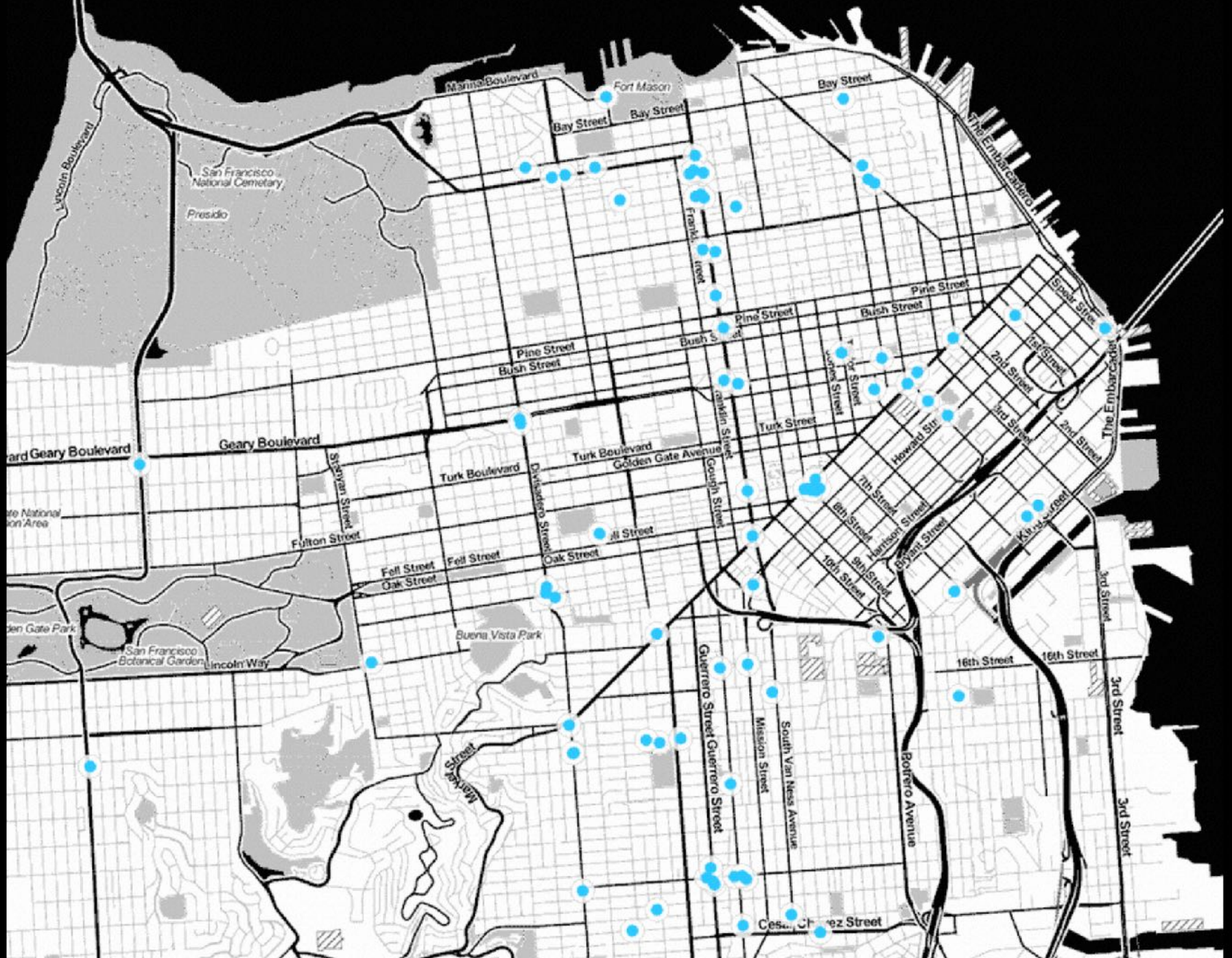
Google Shuttle
Van Ness Ave.
Union St.
San Francisco, CA 94123
2 tips
481 check-ins

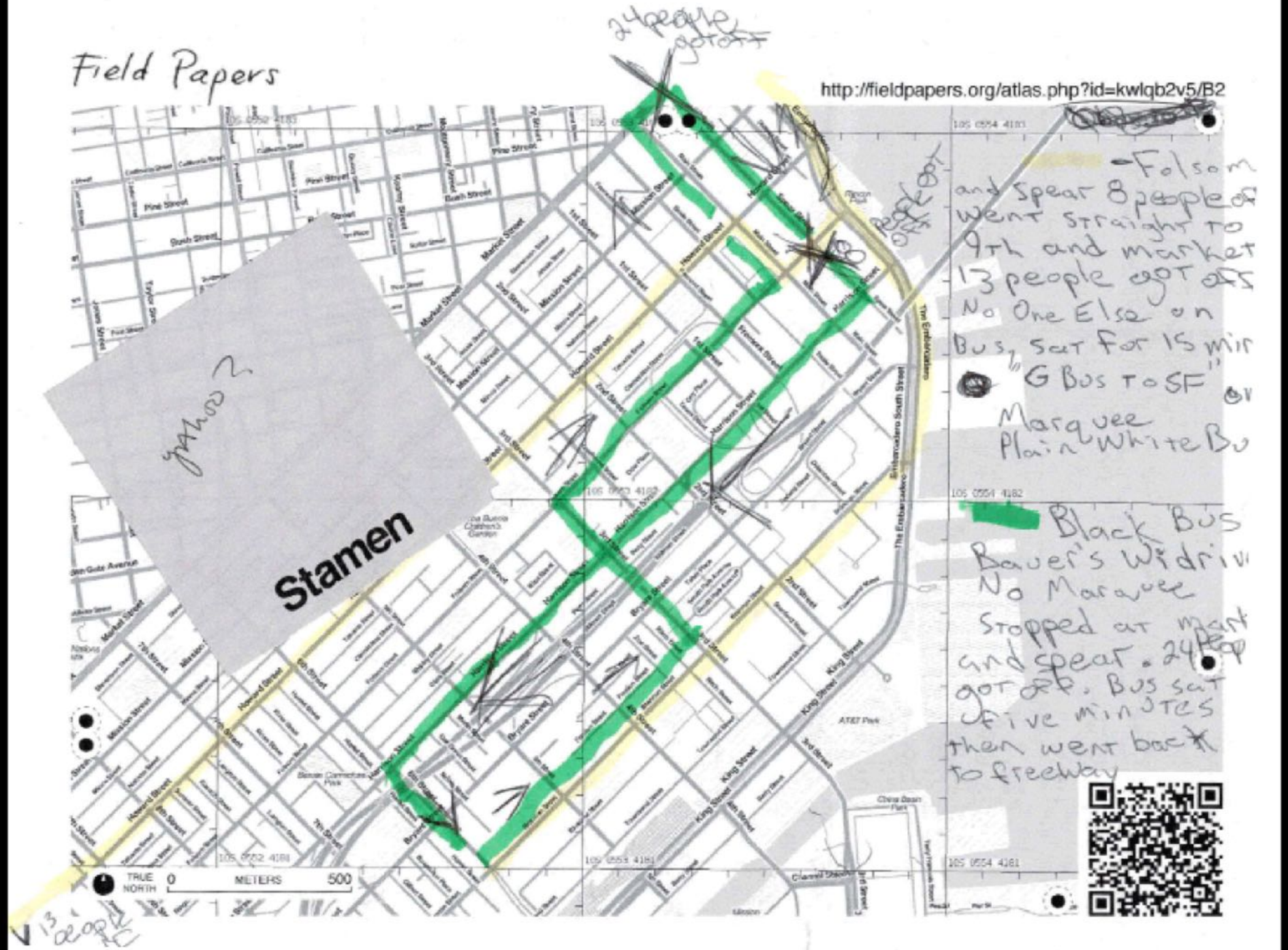
Google Shuttle
Oakland, CA 94607
0 tips
6 check-ins

Google Shuttle - Harrison Stop
1 Harrison St.
San Francisco, California 94105
0 tips
247 check-ins

Google Shuttle Haight-Divisadero
San Francisco, CA
1 tip
100 check-ins

Google Shuttle - SOMA Stop
1 tip

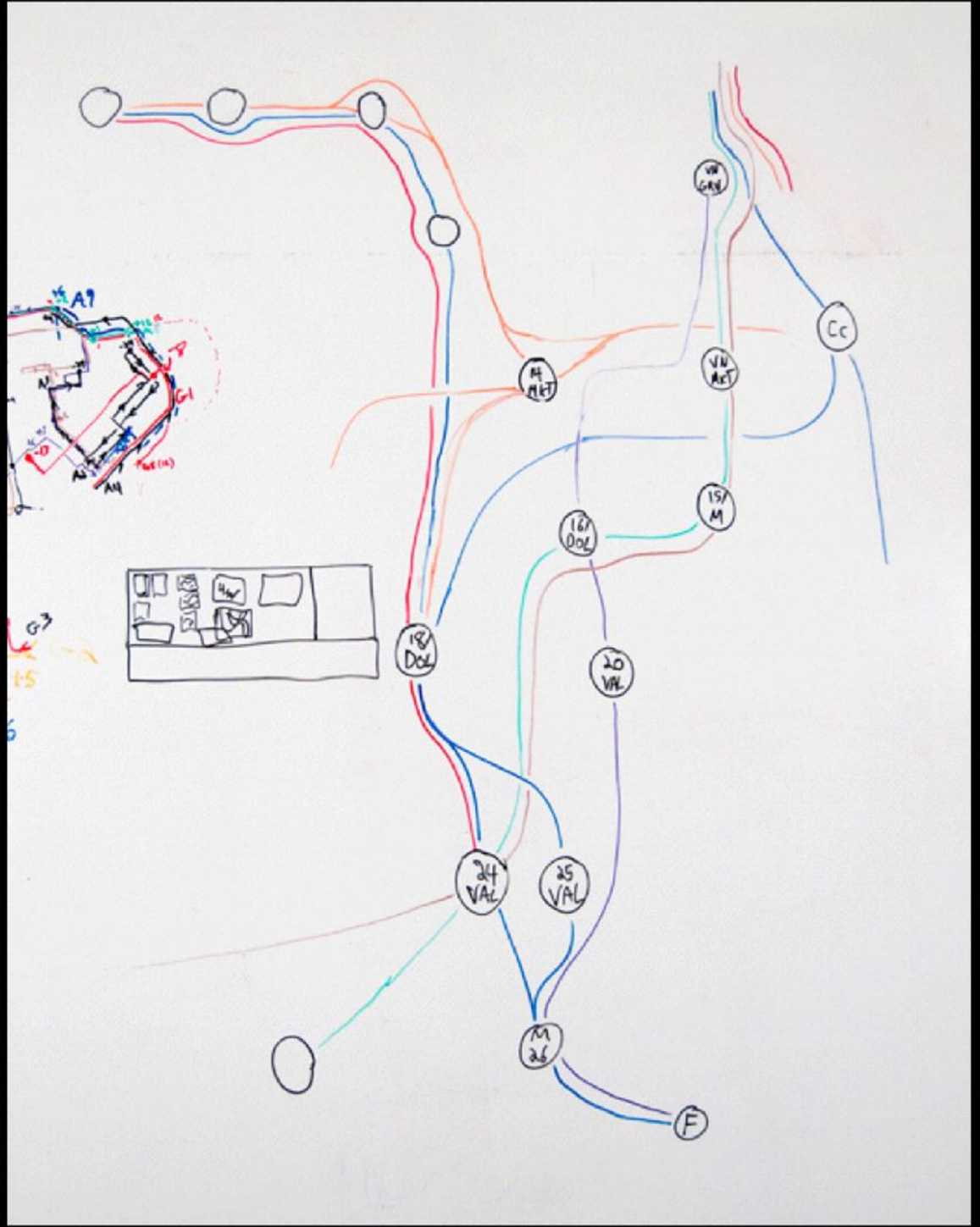

Marina Boulevard
Fort Mason
Bay Street
Bay Street
Bay Street
Lincoln Boulevard
San Francisco National Cemetary
Presidio
The Embarcadero
Franklin Street
Pine Street
Pine Street
Bush Street
Bush Street
Pine Street
Bush Street
Steuart Street
1st Street
2nd Street
3rd Street
2nd Street
The Embarcadero
Geary Boulevard
Geary Boulevard
Turk Boulevard
Turk Boulevard
Golden Gate Avenue
Turk Street
Steuart Street
Fulton Street
Fell Street
Fell Street
Oak Street
Oak Street
Gough Street
Franklin Street
Howard Street
7th Street
6th Street
Harrison Street
Bryant Street
10th Street
9th Street
Buena Vista Park
San Francisco Botanical Garden
Lincoln Way
Guerrero Street
Guerrero Street
Mission Street
South Van Ness Avenue
Rolfero Avenue
16th Street
16th Street
3rd Street
3rd Street
Market Street
Cesar Chavez Street

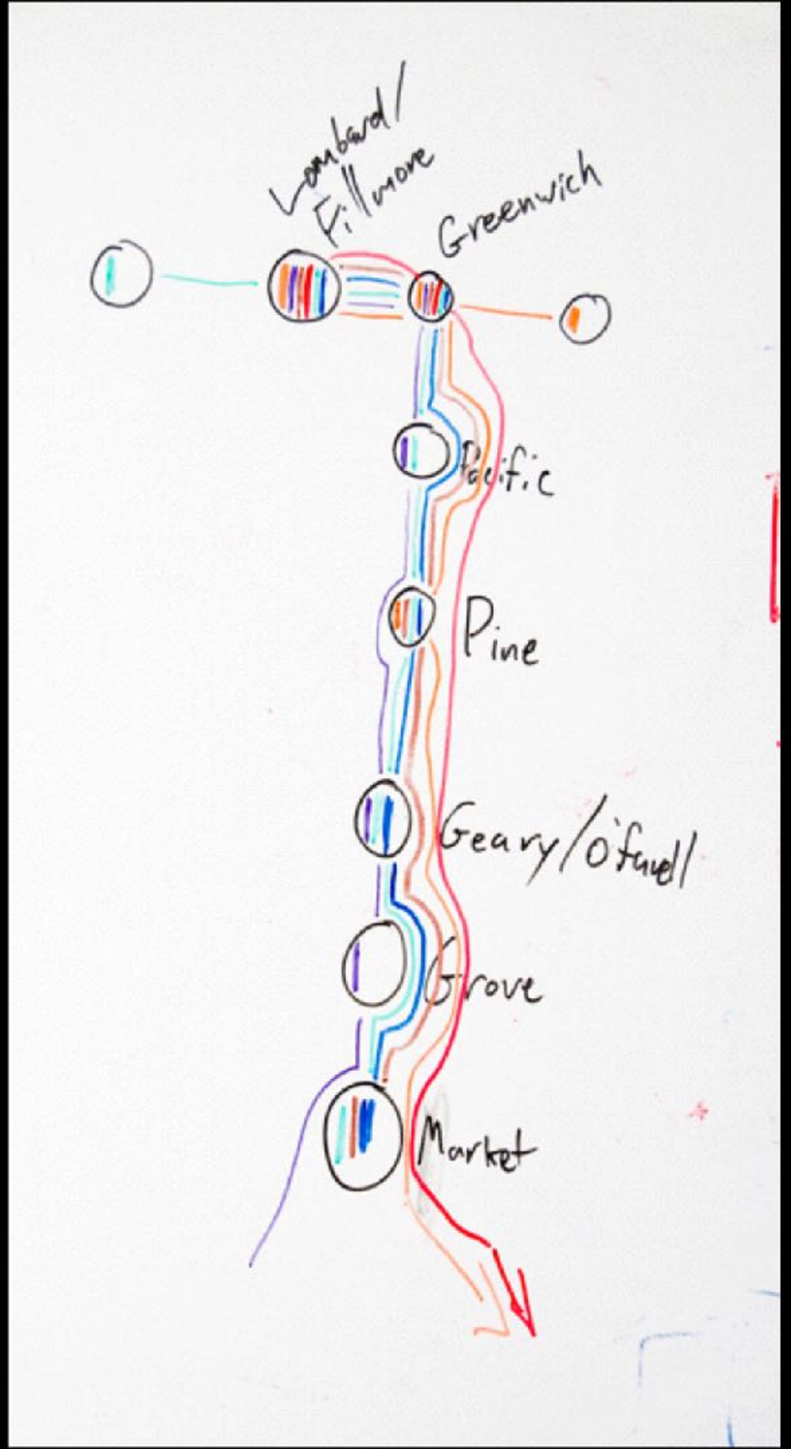

Field Papers
http://fieldpapers.org/atlas.php?id=kwlqb2v5/B2
24 people got off
Stamen
yahoo?
Folsom and Spear 8 people of went straight to 9th and market 13 people got off No One Else on Bus, sat for 15 min "G Bus to SF" on Marquee Plain White Bu
Black Bus Bauer's Widriv No Marquee Stopped at mark and spear. 24 peop got off. Bus sat five minutes then went back to freeway
TRUE NORTH
0 METERS 500
13 people

Field Papers

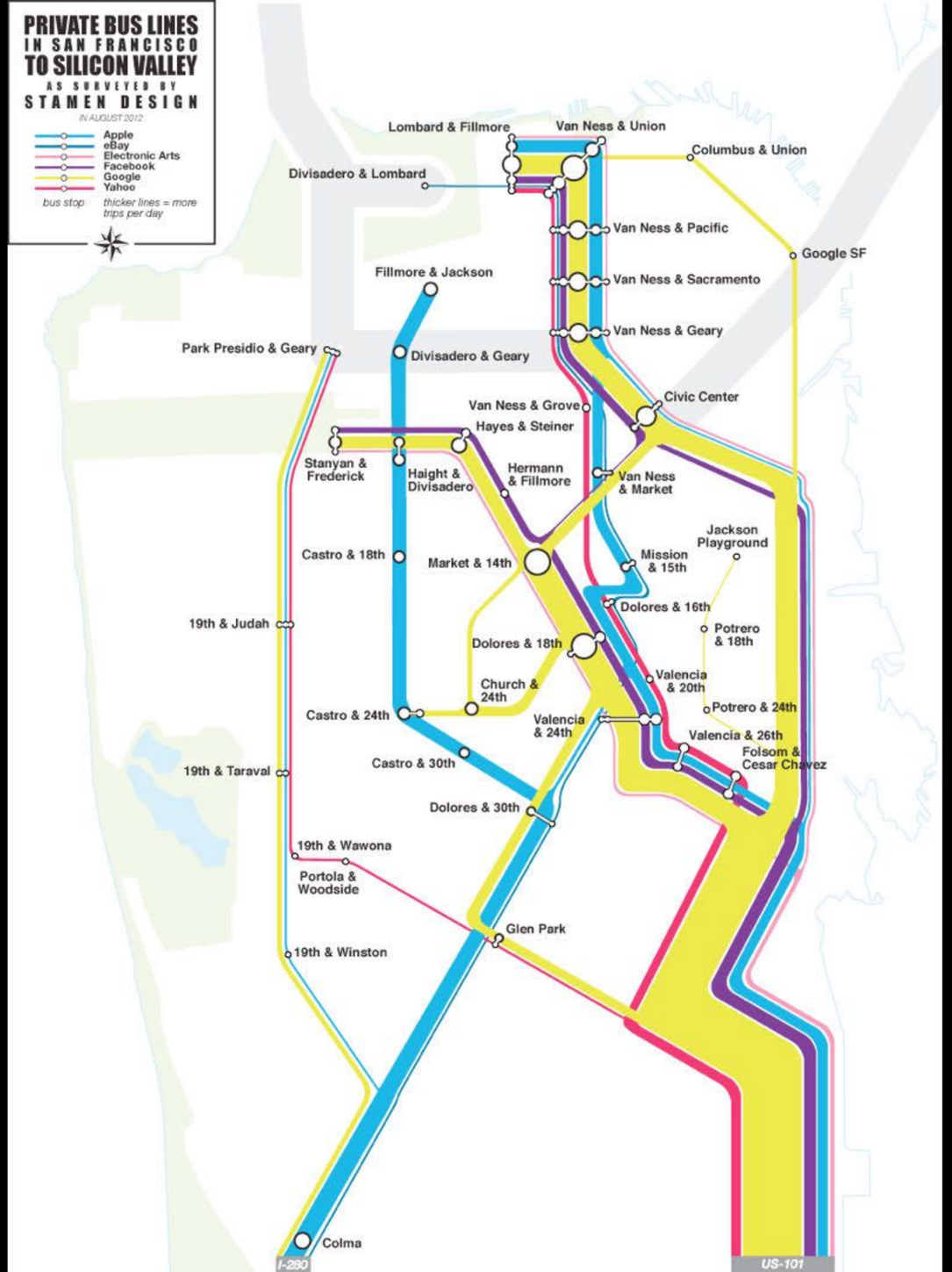
Monday am

http://fieldpapers.org/atlas.php?id=kwlqb2v5/B2


A9
G1
G3
VN GRV
VN MKT
Cc
14 MKT
15/ M
16/ DOL
18/ DOL
20 VAL
24 VAL
25 VAL
M 26
F


Lombard/ Fillmore
Greenwich
Pacific
Pine
Geary/O'farrell
Grove
Market

Oakland
Hayward
Fremont
Sunnyvale
Emeryville
Piedmont
Fairview
Hillsborough
Montara
Moss Beach
El Granada
Half Moon Bay
Atherton
Palo Alto
Stanford
Woodside
Portola Valley
Altos Hills


PRIVATE BUS LINES
IN SAN FRANCISCO
TO SILICON VALLEY
AS SURVEYED BY
STAMEN DESIGN
IN AUGUST 2012
Apple
eBay
Electronic Arts
Facebook
Google
Yahoo
bus stop
thicker lines = more trips per day
Lombard & Fillmore
Van Ness & Union
Columbus & Union
Divisadero & Lombard
Van Ness & Pacific
Google SF
Fillmore & Jackson
Van Ness & Sacramento
Van Ness & Geary
Park Presidio & Geary
Divisadero & Geary
Civic Center
Van Ness & Grove
Hayes & Steiner
Stanyan & Frederick
Haight & Divisadero
Hermann & Fillmore
Van Ness & Market
Jackson Playground
Castro & 18th
Market & 14th
Mission & 15th
Dolores & 16th
19th & Judah
Potrero & 18th
Dolores & 18th
Valencia & 20th
Church & 24th
Potrero & 24th
Castro & 24th
Valencia & 24th
Valencia & 26th
Folsom & Cesar Chavez
Castro & 30th
19th & Taraval
Dolores & 30th
19th & Wawona
Portola & Woodside
Glen Park
19th & Winston
Colma
I-280
US-101

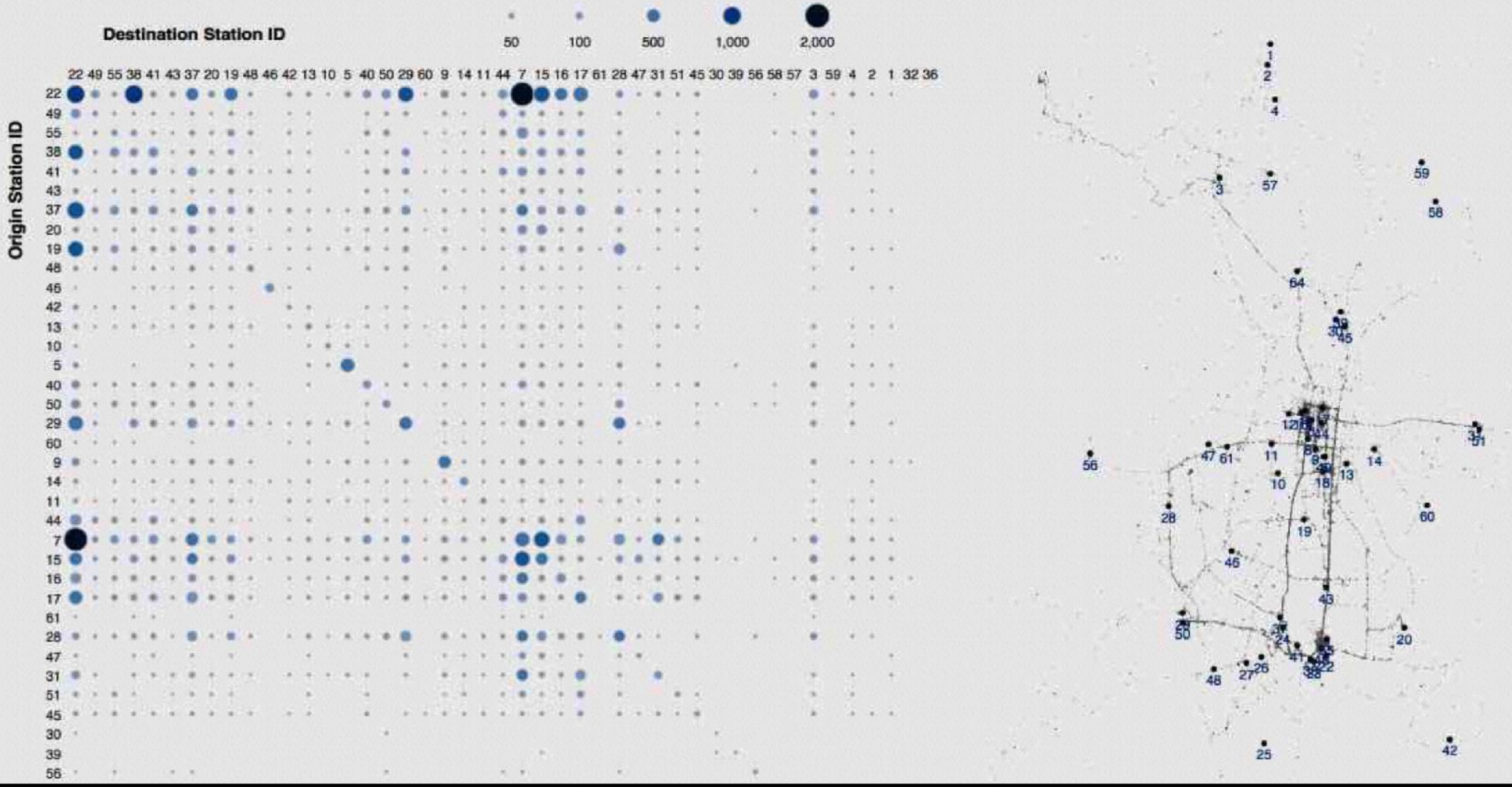
Toyota OnRamp 2015: Smart Mobility Challenge

16: ＴＭ若宮Ｐ

[redacted]

22: トヨタ本社事務

[redacted]


Destination Station ID
50
100
500
1,000
2,000
Origin Station ID
22 49 55 38 41 43 37 20 19 48 46 42 13 10 5 40 50 29 60 9 14 11 44 7 15 16 17 61 28 47 31 51 45 30 39 56 58 57 3 59 4 2 1 32 36
22
49
55
38
41
43
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17
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47
31
51
45
30
39
56

Unique Users by Origin

Toyota City i-ROAD Verification Project
Car share history data

トヨタ本社事務

豊田市駅西

新豊田駅地下Ｐ

三河豊田駅北

土橋駅

喜多町Ｐ

浄水駅

Visualization by Stamen Design in San Francisco

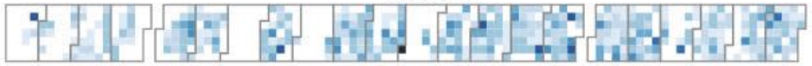
Cars by Distance Travelled

Toyota City i-ROAD Verification Project
Car share history data

Vehicle 22

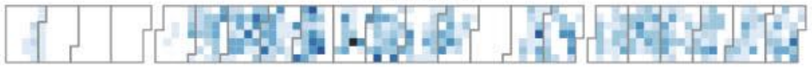
Vehicle 25

Vehicle 26



Vehicle 27

Vehicle 20



Vehicle 30

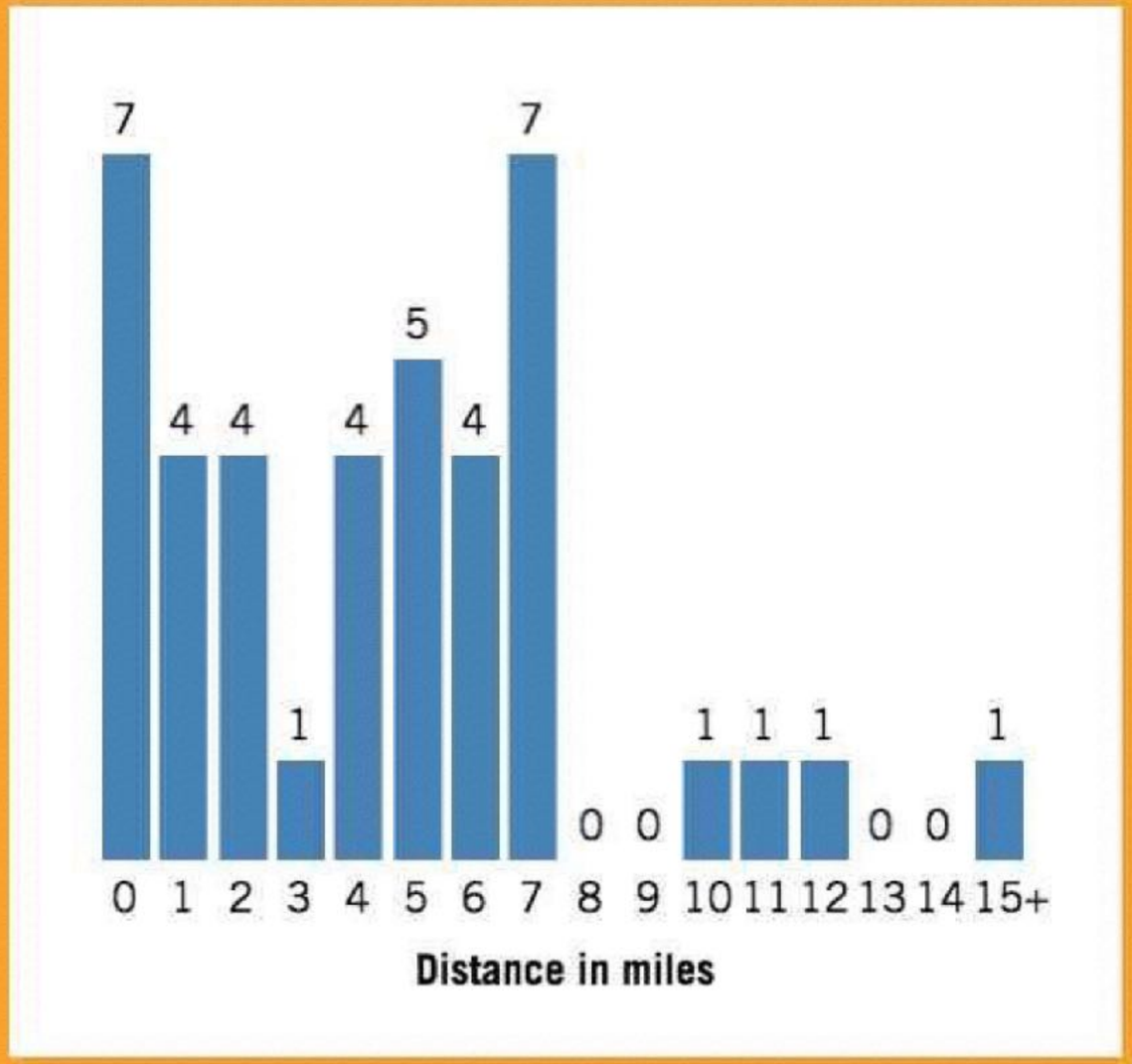
Vehicle 31

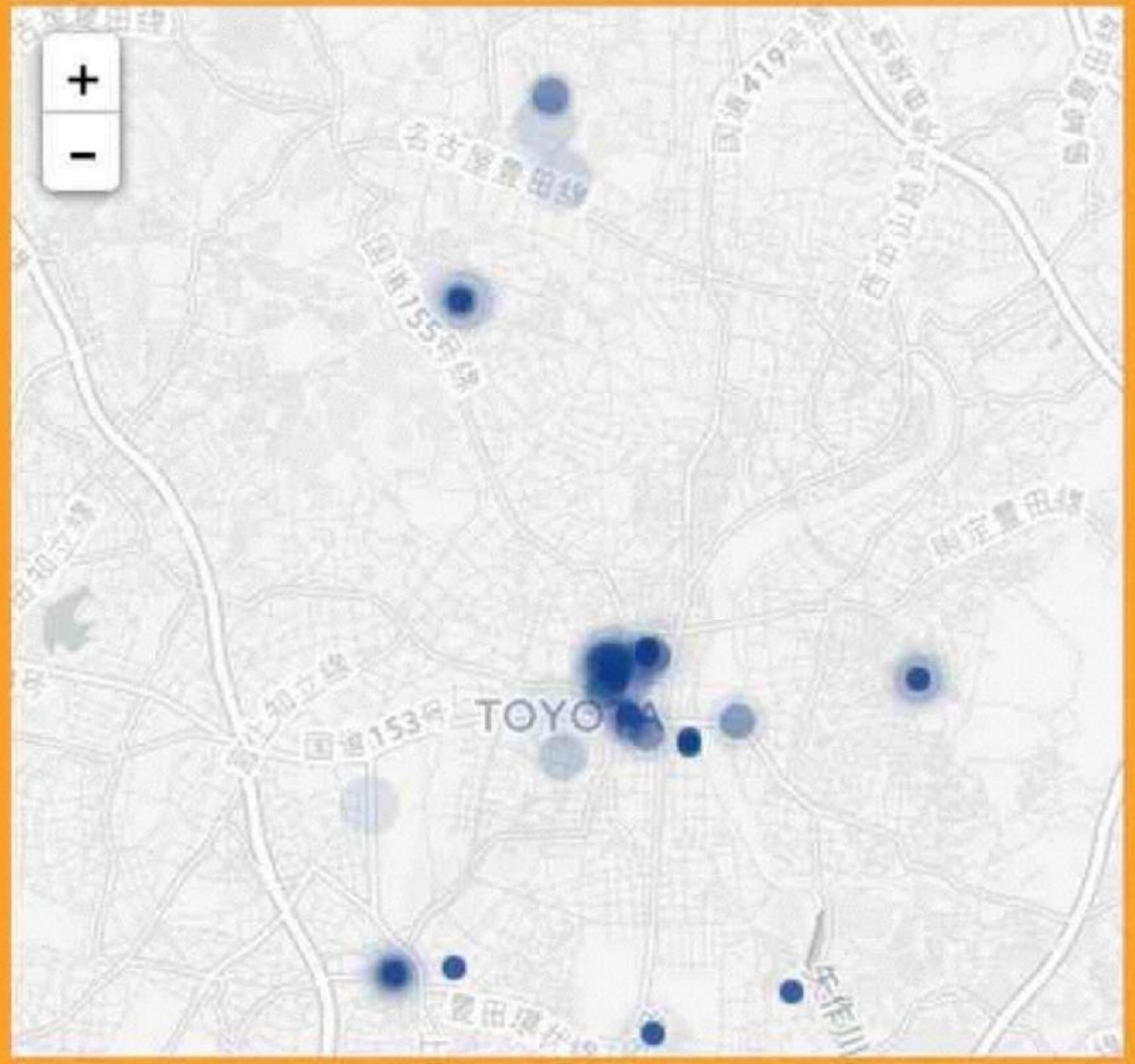
Vehicle 18

Vehicle 29

Vehicle 38

Visualization by Stamen Design in San Francisco


7
4 4
4
1
5
4
7
0 0
1 1 1
0 0
1
0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15+
Distance in miles


+
−

Total Distance per Day

Thank You!
@stamen
Mt. Everest
8848m
Panaoti

Leveraging visualization for storytelling

Claudia Preciado

Sr. Transportation Planner

claudia@remix.com

AGENDA

- What is Remix?
- What is the purpose of a transit map?
- Remix + Transit Agencies
- Where is mapping going?

REMIX

A planning platform for public transit.

Use it to plan everything from a detour to a system redesign.

Storytelling is powerful.

Visuals are integral to storytelling.

Maps are a transit agency's visual of choice.

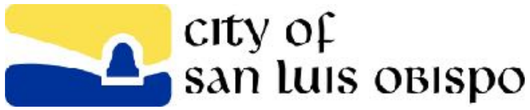
If ideas get stuck because not enough people can understand your plan

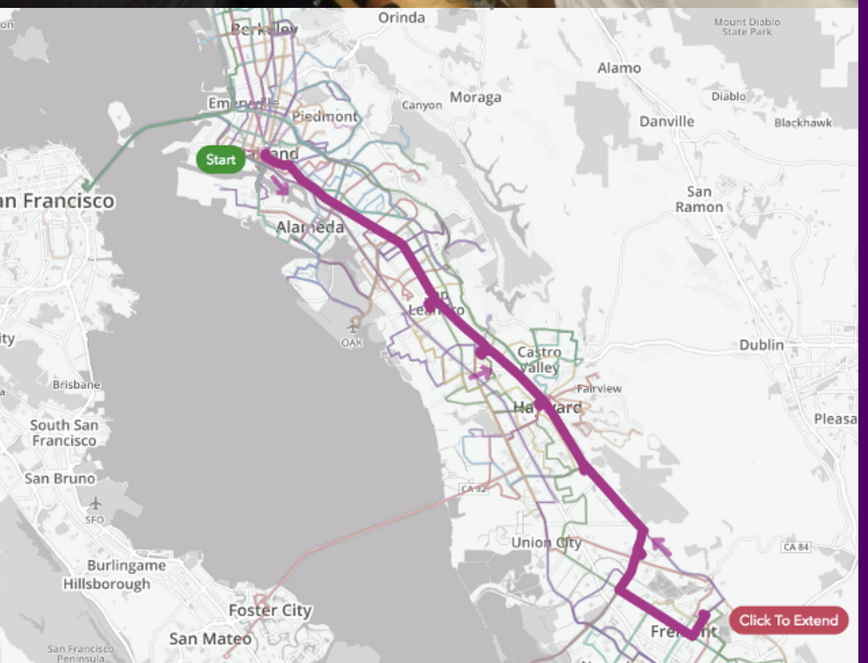
Then when plans are easy to understand, *change happens.*

California Love: 37 agencies across CA work with Remix!

Foothill Transit

FAIRFIELD AND SUISUN TRANSIT



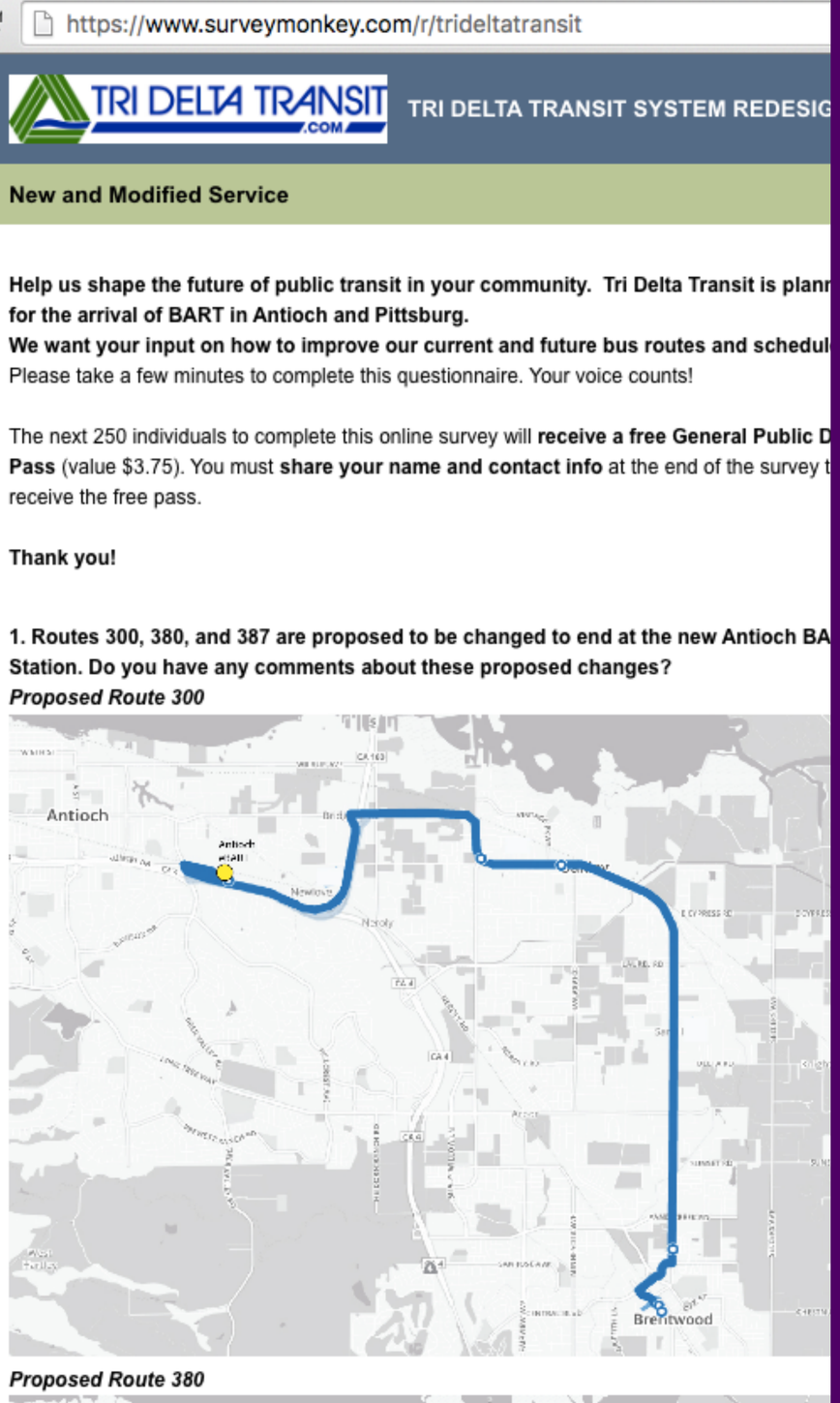


CUSTOMER STORIES

AC Transit (Oakland, CA) reimagined their bus network after a ballot measure expanded their operating budget by 14%.

RESULTS

- Developing route scenarios dropped from 1.5 days to 30 minutes (24x productivity increase)
- Productivity during meetings increased 2x and average meeting length was cut in half
- New hires on-boarded in half the time
- Training drivers on the new network took 90 minutes

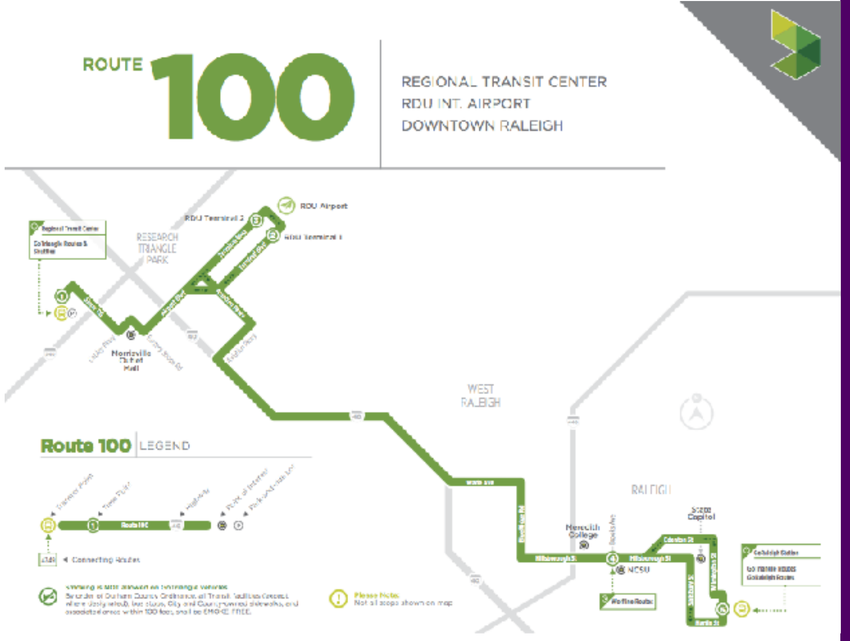


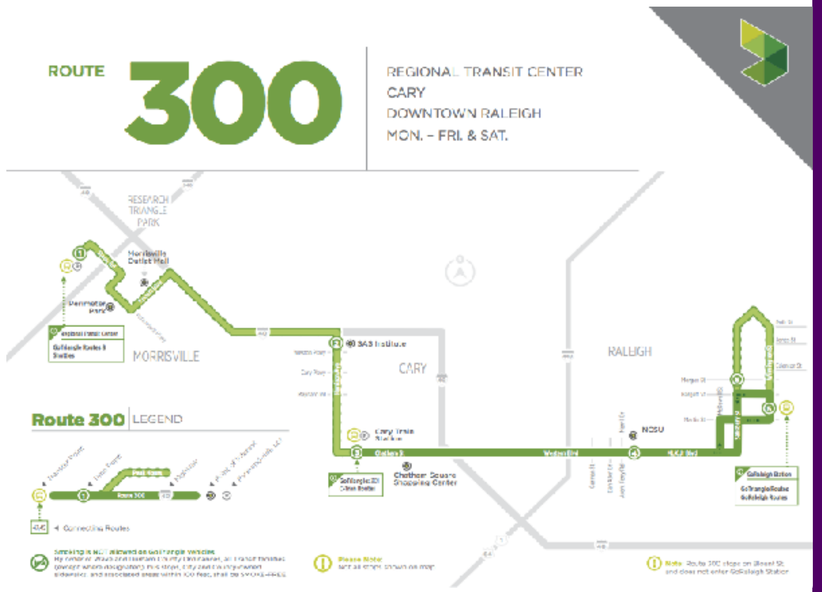
CUSTOMER STORIES

Tri Delta Transit used Remix to strengthen their public outreach efforts by gathering feedback online.

RESULTS

- Tri Delta Transit is planning for the arrival of BART in Antioch and Pittsburg. Needed public input on how to improve current and future bus routes. Used Remix to visually explain options in an online survey.
- Now, Tri Delta is running more analysis in house versus consulting out (e.g. Title VI)



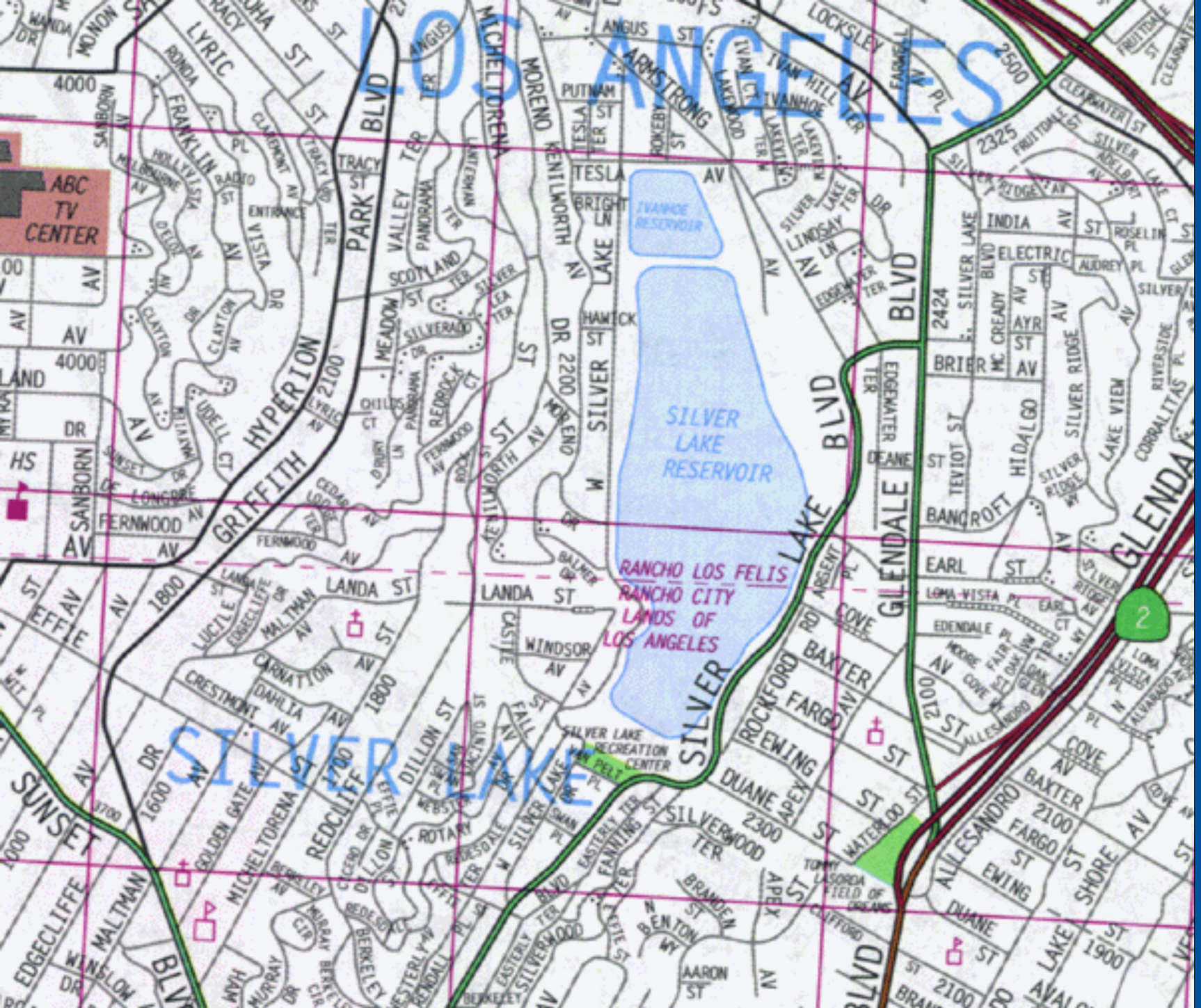


CUSTOMER STORIES

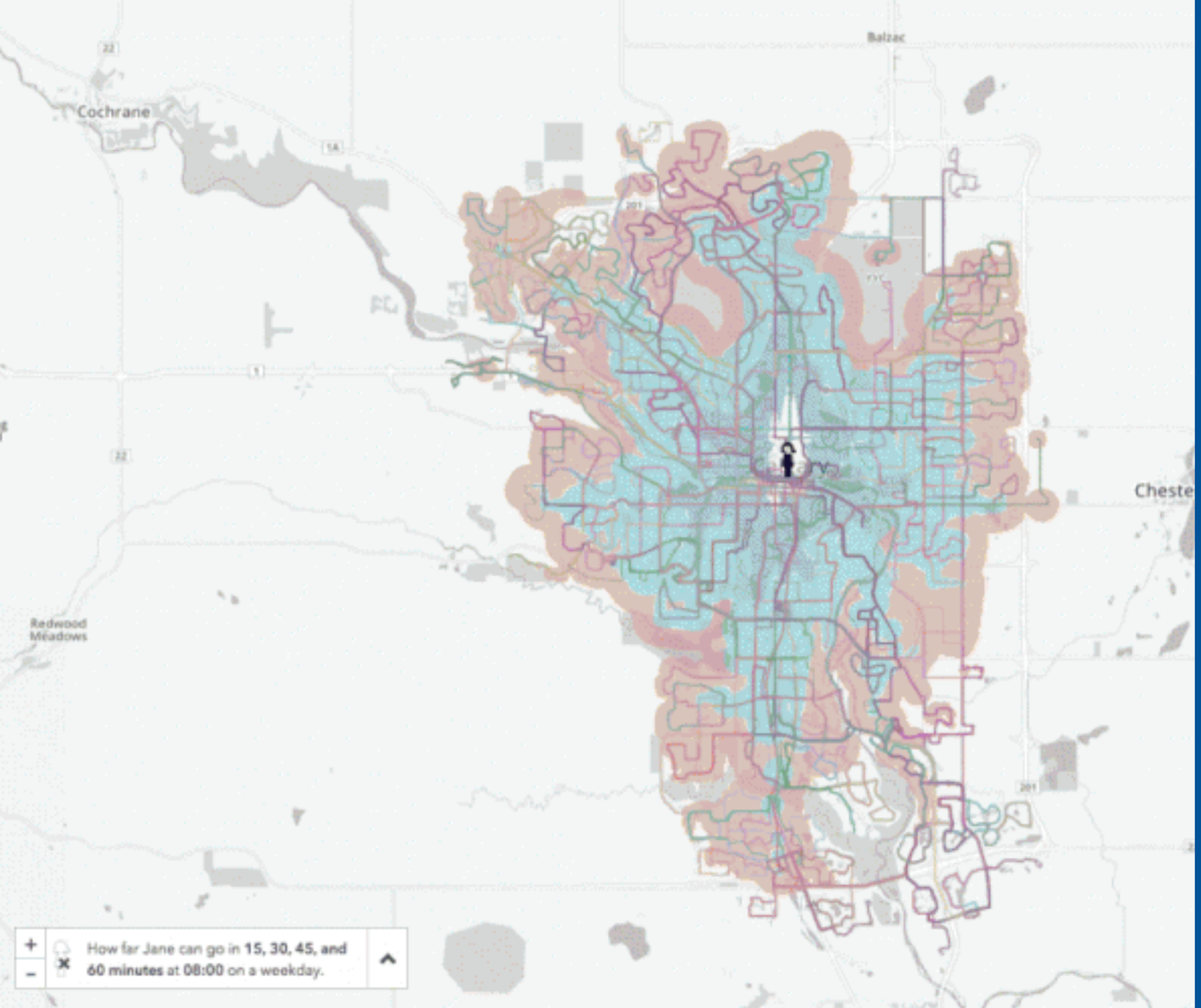
GoTriangle (Durham, NC) used Remix to enhance early collaboration during Wake County's Long-Term Transit Plan.

RESULTS

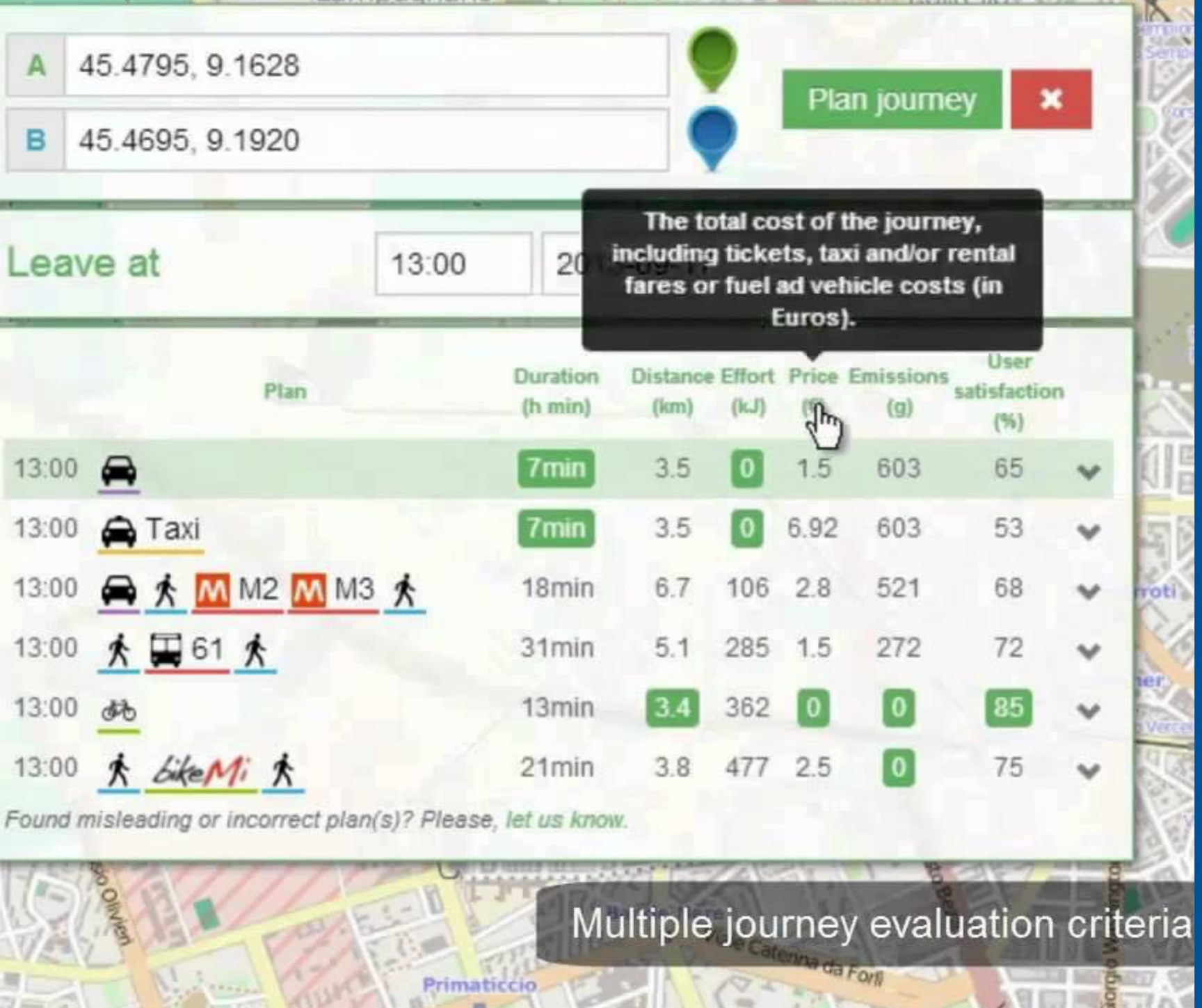
- After moving to Remix, time needed to plan route scenarios dropped from 1 day to 1 hour
- Advisory committee members learned GoTriangle's transit network in minutes, instead of over the course of multiple meetings
- 18 agencies and local gov'ts closely collaborated on the Wake County Transit Plan, including Wake County, the City of Raleigh, the City of Durham, and the Town of Cary



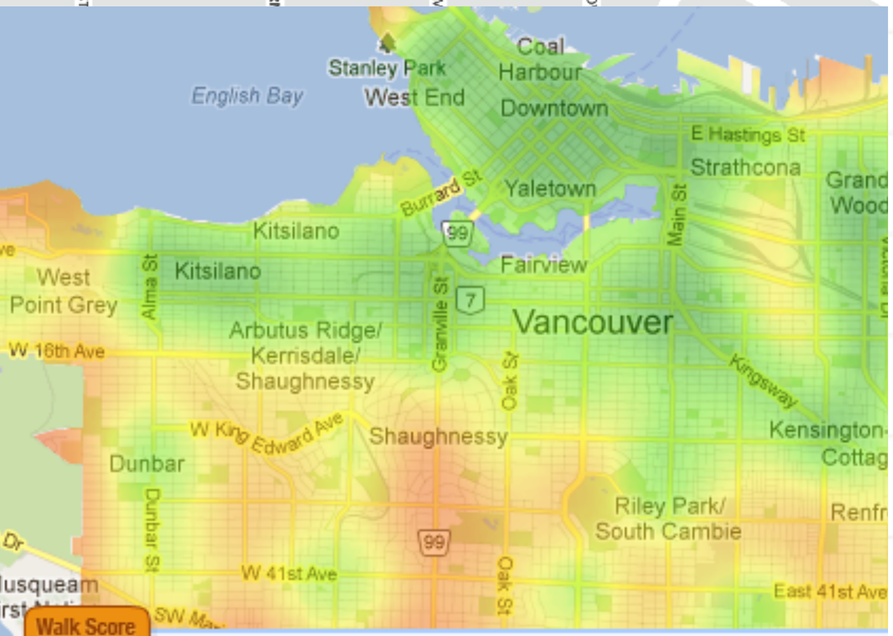
Maps conveyed **dense**, **hierarchical** information-hoping the user would extract meaning.

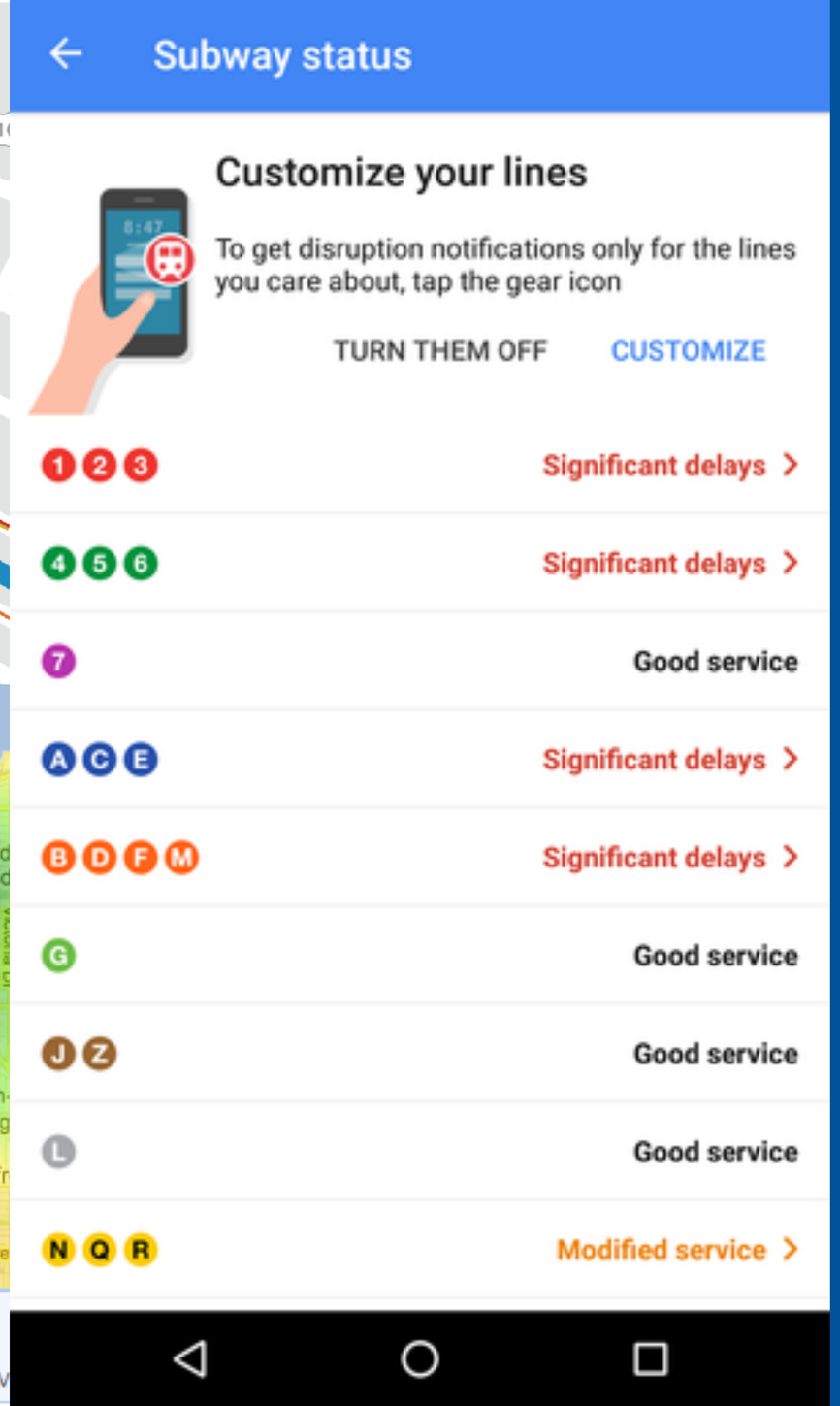


Digital maps of today can be **focused** to help convey **specific information**.



Future transit maps will need **customization and choice** integrated at the **segment level**.





Future transit maps will need **to show rapidly changing** realities.

But, future transit maps will need **to be cognizant of data access.**

If the purpose is to convey information about connections and navigation, the map in our hands (or pockets) won't be enough

Wayfinding, station design, real-time arrival, interactive maps, and more will all be critical to fulfilling this purpose

In order to help people understand our connected networks

Provide thoughtful, powerful visualization and design

thank you!

Claudia Preciado

Sr. Transportation Planner

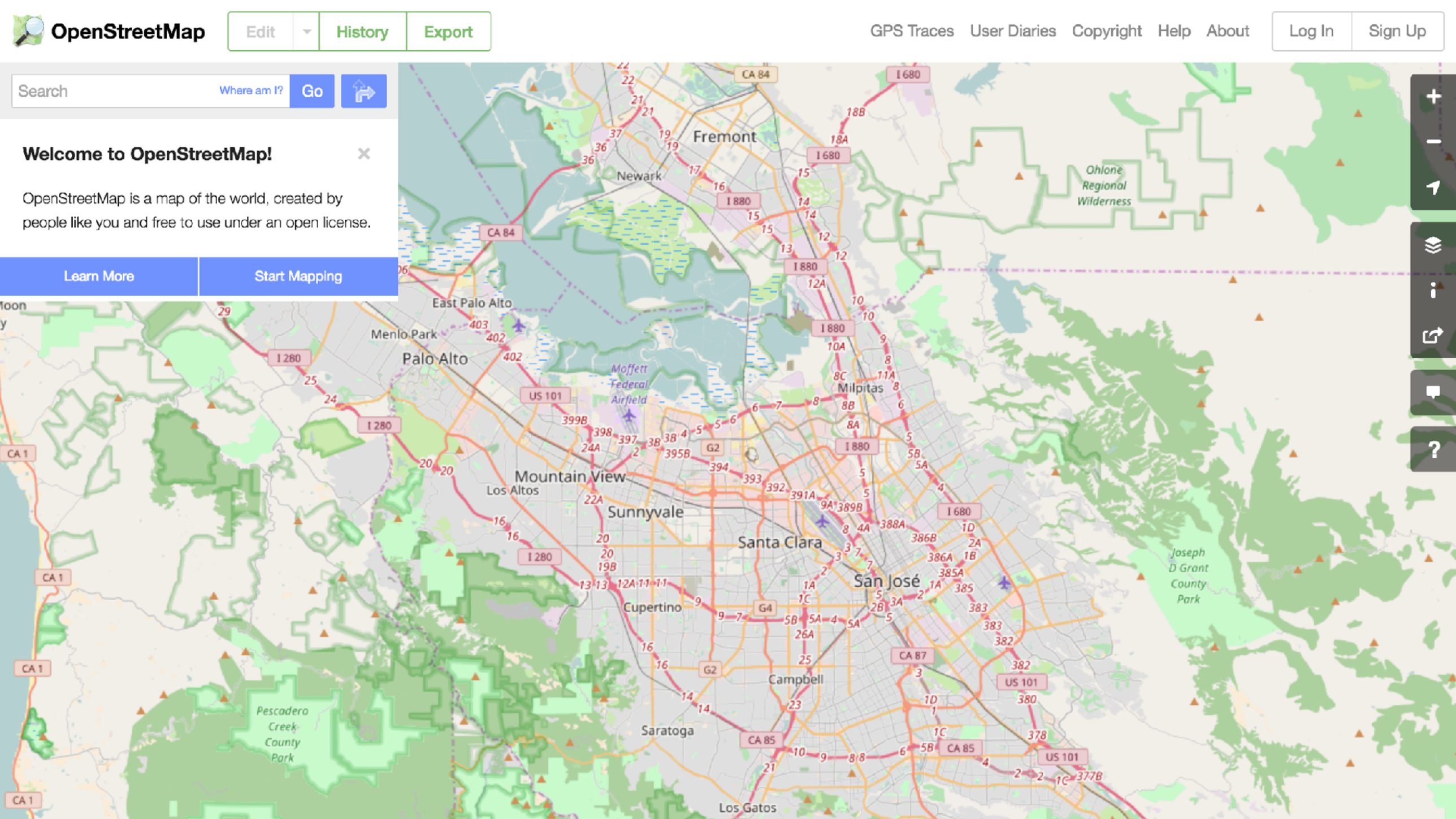
claudia@remix.com

Meghan Hade
Software Engineer, Mapzen Mobility

Mapzen Mobility

A new line of services that enable multimodal transportation through open data:

- Turn-by-Turn directions
- Optimized routing
- Isochrones


OpenStreetMap
Edit
History
Export
GPS Traces
User Diaries
Copyright
Help
About
Log In
Sign Up
Search
Where am I?
Go
Welcome to OpenStreetMap!
OpenStreetMap is a map of the world, created by people like you and free to use under an open license.
Learn More
Start Mapping
Fremont
Newark
Ohlone Regional Wilderness
East Palo Alto
Menlo Park
Palo Alto
Moffett Federal Airfield
Milpitas
Mountain View
Los Altos
Sunnyvale
Santa Clara
San José
Cupertino
Campbell
Saratoga
Los Gatos
Joseph D Grant County Park
Pescadero Creek County Park
CA 84
I 680
I 880
US 101
I 280
G2
G4
CA 87
CA 85
CA 1

A COMMUNITY-EDITED DATA SERVICE

AGGREGATING TRANSIT NETWORKS

ACROSS METROPOLITAN AND RURAL

AREAS AROUND THE WORLD.

FEED REGISTRY

The Feed Registry lists all the transit operators and feeds included in Transitland. See what each feed's license will allow you to do with it and click through to get more details about feeds associated with each operator.

Search by operator name or location

Operator Name	Region	State or Province	Country	License	License Details
Aachener Verkehrsverbund (AVV)	Aachen	North Rhine-Westphalia	Germany		
Aachener Verkehrsverbund - West (AVV)			Netherlands		
Abellio Greater Anglia			England	Creative Commons 2.0	
ABOUT ME s.r.o.	Prague	Hlavní město Praha	Czech Republic		
ABQ RIDE	Albuquerque	New Mexico	United States		
Actipôles	Eure-et-Loir	Île-de-France	France	Licence ODbL Version Française	
A.C.T.P.	Busca	Cuneo	Italy		
Addison County Transit Resources	Addison County	Vermont	United States		
Adelaide Metro	Adelaide	South Australia	Australia	Creative Commons Attribution 4.0	
Adelaide Metro - Light-City Buses	Adelaide	South Australia	Australia	Creative Commons Attribution 4.0	

https://transit.land/api/v1/operators?
bbox=-122.87521362304686,37.222674005032566,-121.11740112304689,38.09241741843045

JSON


```
{
  "operators": [
    {
      "identifiers": [
        "usntd://9134",
        "gtfs://f-9q9-caltrain/o/CT"
      ],
      "imported_from_feeds": [ … ], // 8 items
      "created_or_updated_in_changeset_id": 4223,
      "name": "Caltrain",
      "short_name": null,
      "onestop_id": "o-9q9-caltrain",
      "geometry": {
        "type": "Polygon",
        "coordinates": [ … ] // 1 item
      },
      "tags": {},
      "website": "http://www.caltrain.com/",
      "country": "United States",
      "state": "California",
      "metro": "San Francisco Bay Area",
      "timezone": "America/Los_Angeles",
      "created_at": "2016-02-06T20:03:44.620Z",
      "updated_at": "2017-01-24T00:19:08.247Z",
      "represented_in_feed_onestop_ids": [
        "f-9q9-caltrain"
      ]
    },
    {
      "identifiers": [
        "usntd://9003",
        "gtfs://f-9q9-bart/o/BART",
        "usntd://90003"
      ],
      "imported_from_feeds": [ … ], // 11 items
      "created_or_updated_in_changeset_id": 4221,
      "name": "Bay Area Rapid Transit",
      "short_name": "BART",
      "onestop_id": "o-9q9-bart",
      "geometry": {
```


GeoJSON

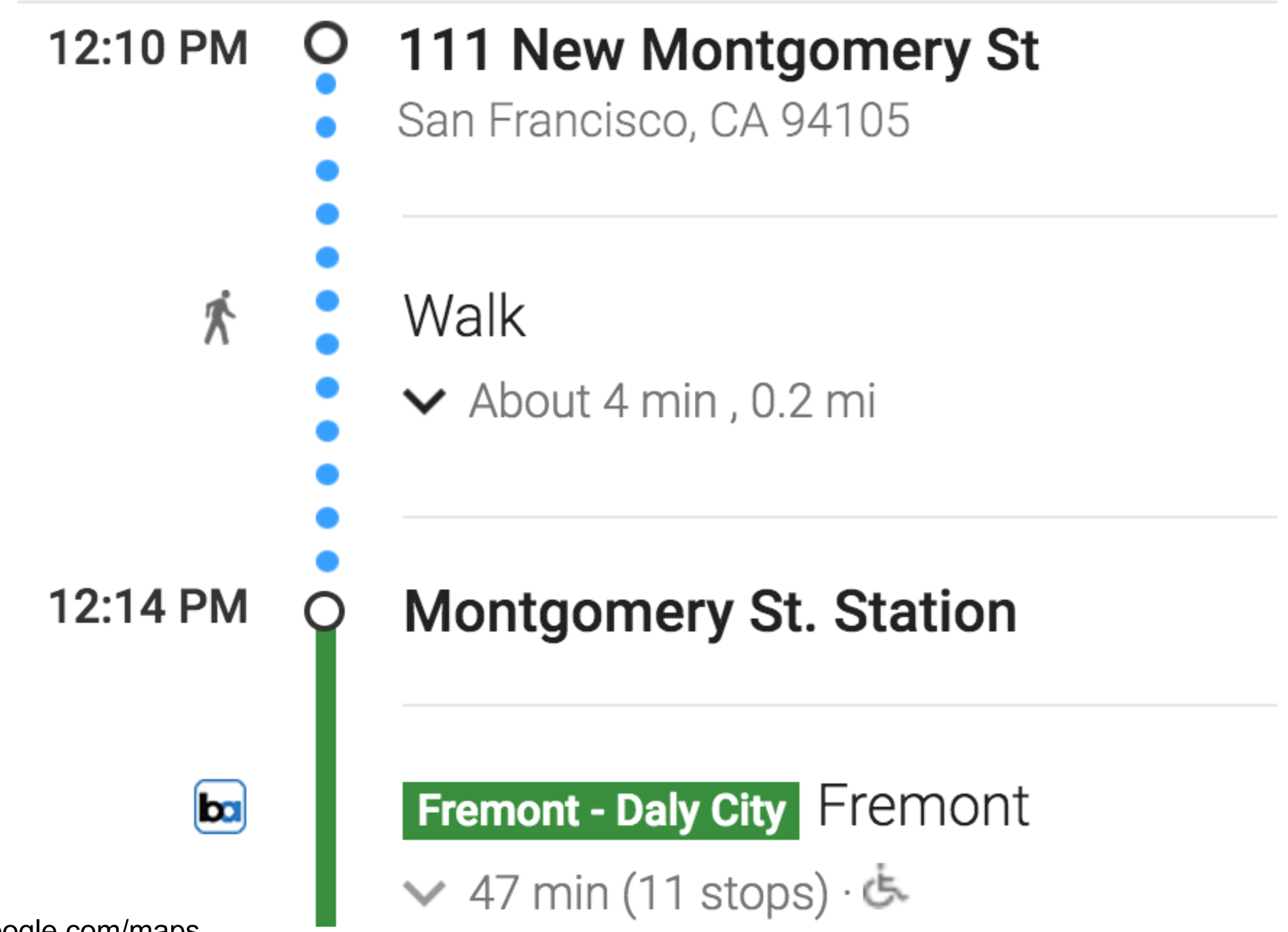

```
{
  "features": [
    {
      "geometry": {
        "type": "Polygon",
        "coordinates": [
          [ … ] // 121 items
        ]
      },
      "properties": {
        "identifiers": [
          "usntd://9134",
          "gtfs://f-9q9-caltrain/o/CT"
        ],
        "imported_from_feeds": [ … ], // 8 items
        "created_or_updated_in_changeset_id": 4223,
        "name": "Caltrain",
        "short_name": null,
        "onestop_id": "o-9q9-caltrain",
        "tags": {},
        "website": "http://www.caltrain.com/",
        "country": "United States",
        "state": "California",
        "metro": "San Francisco Bay Area",
        "timezone": "America/Los_Angeles",
        "created_at": "2016-02-06T20:03:44.620Z",
        "updated_at": "2017-01-24T00:19:08.247Z",
        "represented_in_feed_onestop_ids": [
          "f-9q9-caltrain"
        ],
        "title": "o-9q9-caltrain"
      },
      "type": "Feature",
      "id": "o-9q9-caltrain"
    },
    {
      "geometry": {
        "type": "Polygon",
        "coordinates": [ … ] // 1 item
      },
      "properties": {
```

The future of transit maps is **customizable**

1. For unique mobility needs
2. For understanding service needs

The future of transit maps is **customizable**

1. For unique mobility needs
2. For understand service needs



Source: www.google.com/maps

Turn-by-Turn

Global, open-source, multimodal routing engine.

Transit options	Description
`use_bus`	User's desire to use buses. Range of values from 0 (try to avoid buses) to 1 (strong preference for riding buses).
`use_rail`	User's desire to use rail/subway/metro. Range of values from 0 (try to avoid rail) to 1 (strong preference for riding rail).
`use_transfers`	User's desire to favor transfers. Range of values from 0 (try to avoid transfers) to 1 (totally comfortable with transfers).
`transit_start_end_max_distance`	A pedestrian option that can be added to the request to extend the defaults (2145 meters or approximately 1.5 miles). This is the maximum walking distance at the beginning or end of a route.
`transit_transfer_max_distance`	A pedestrian option that can be added to the request to extend the defaults (800 meters or 0.5 miles). This is the maximum walking distance between transfers.
`filters`	A way to filter for one or more `stops`, `routes`, or `operators`. Filters must contain a list of Onestop IDs, which is a unique identifier for Transitland data, and an `action`. • `ids`: any number of Onestop IDs (such as o-9q9-bart) • `action`: either `exclude` to exclude all of the `ids` listed in the filter or `include` to include only the `ids` listed in the filter

https://mapzen.com/documentation/mobility/turn-by-turn

The future of transit maps is **customizable**

1. To unique mobility needs
2. **To understand service needs**

MAPZEN

Mobility Explorer

There are so many ways to get from A to B! Use Mapzen Mobility Explorer to understand transportation networks around the world. Find a place using the search box or browse the map. Use the buttons below to start exploring.

Click **here** to learn more...

close

Visualize public transit networks

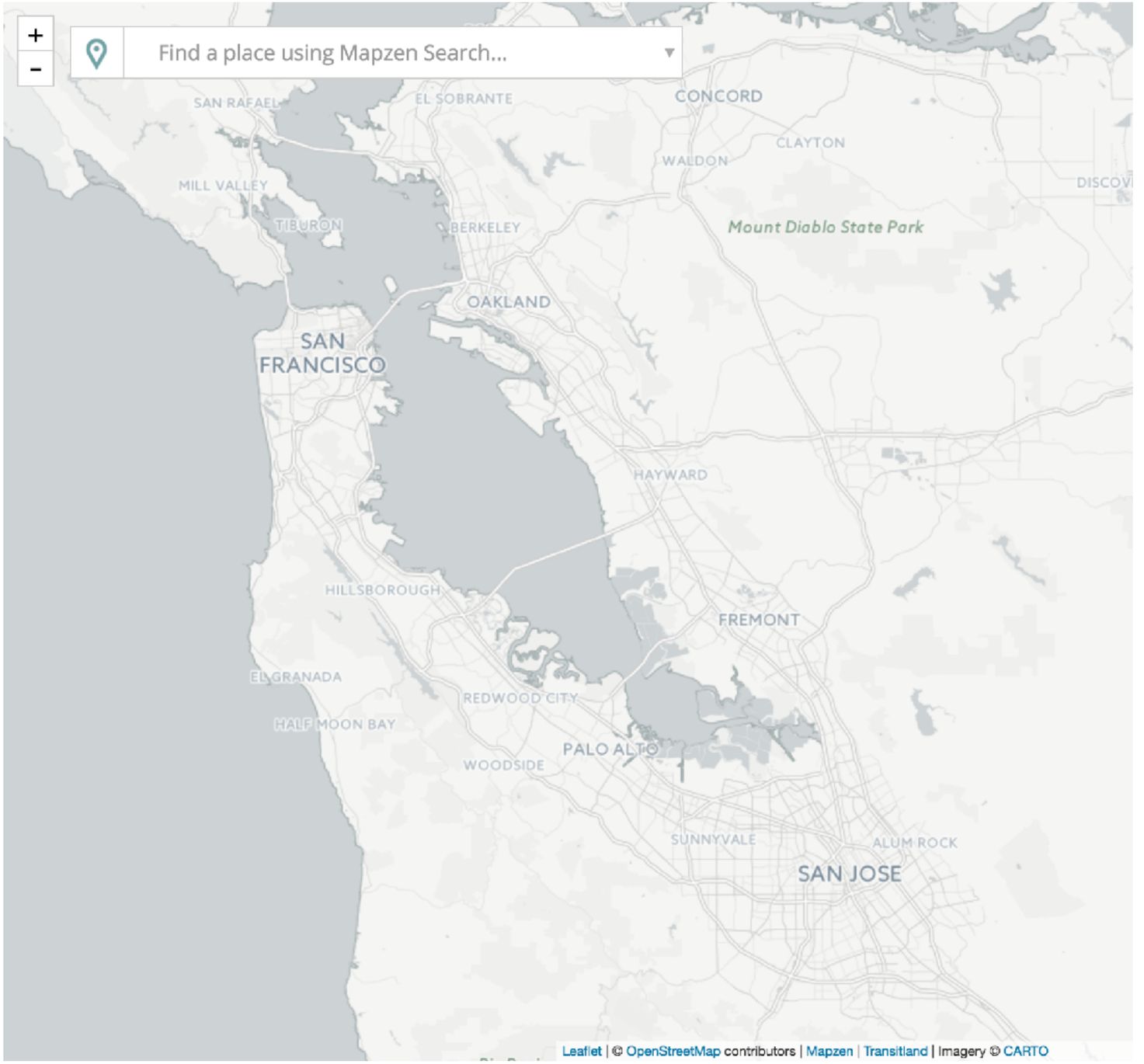
SHOW ROUTES

SHOW STOPS

SHOW OPERATORS

Analyze access

GENERATE ISOCHRONES



https://transit.land/api/v1/operators?
bbox=-122.87521362304686,37.222674005032566,-121.11740112304689,38.09241741843045

JSON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{
  "operators": [
    {
      "identifiers": [
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        "gtfs://f-9q9-caltrain/o/CT"
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      "short_name": null,
      "onestop_id": "o-9q9-caltrain",
      "geometry": {
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      },
      "tags": {},
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      "country": "United States",
      "state": "California",
      "metro": "San Francisco Bay Area",
      "timezone": "America/Los_Angeles",
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      "updated_at": "2017-01-24T00:19:08.247Z",
      "represented_in_feed_onestop_ids": [
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      ]
    },
    {
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        "state": "California",
        "metro": "San Francisco Bay Area",
        "timezone": "America/Los_Angeles",
        "created_at": "2016-02-06T20:03:44.620Z",
        "updated_at": "2017-01-24T00:19:08.247Z",
        "represented_in_feed_onestop_ids": [
          "f-9q9-caltrain"
        ],
        "title": "o-9q9-caltrain"
      },
      "type": "Feature",
      "id": "o-9q9-caltrain"
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    {
      "geometry": {
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```

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close

Visualize public transit networks

SHOW ROUTES

SHOW STOPS

SHOW OPERATORS

28 operators

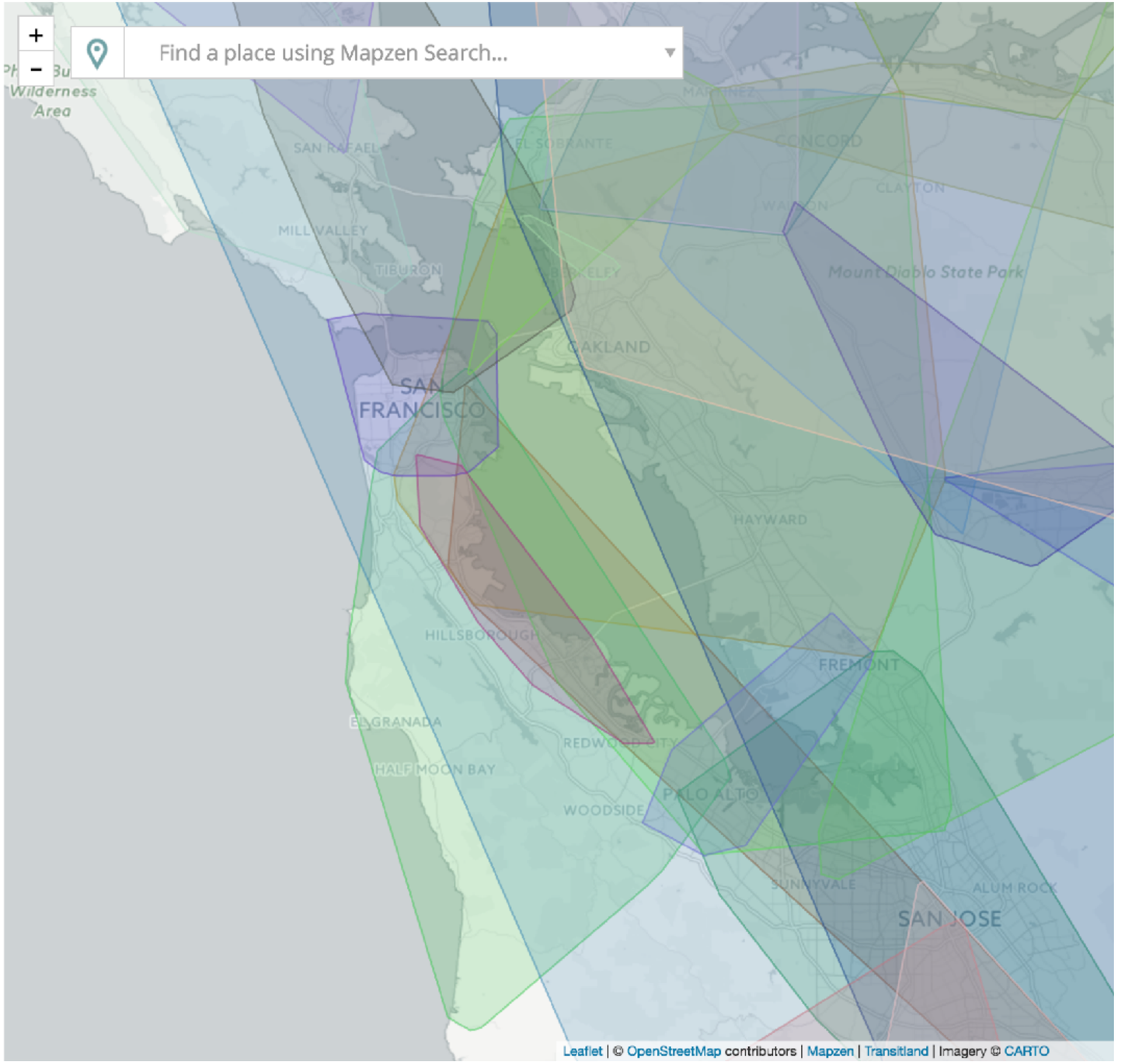
Hover on the operator area for information

See the Transitland API request for these results

See these results in geoJSON format

Analyze access

GENERATE ISOCHRONES



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SHOW STOPS

SHOW OPERATORS

Analyze access

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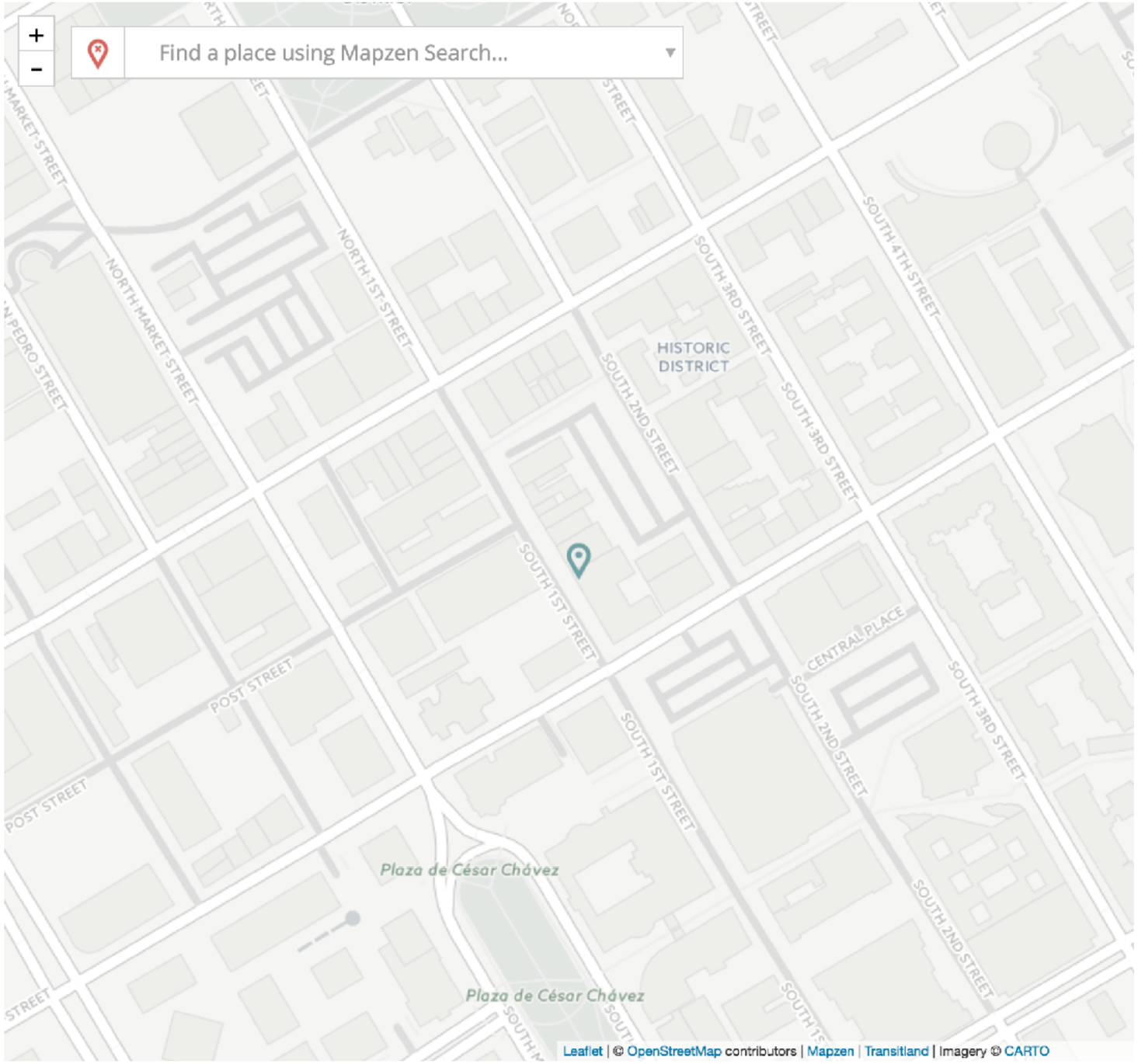

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close

Visualize public transit networks

SHOW ROUTES

SHOW STOPS

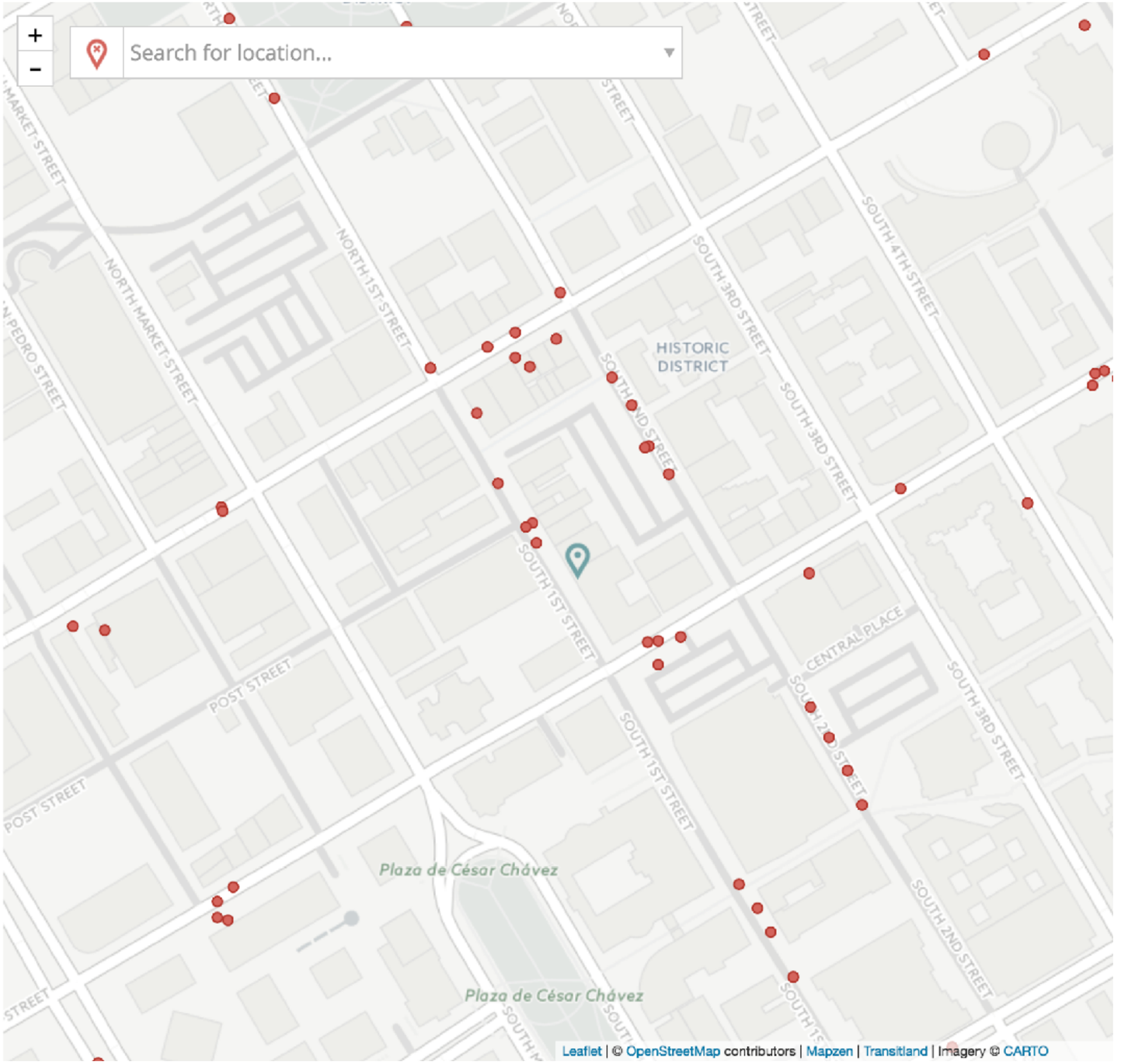
Hover over a stop for more information

SHOW OPERATORS

See the Transitland API request for these results

See these results in geoJSON format

Analyze access



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Click **here** to learn more...

close

Visualize public transit networks

SHOW ROUTES

22 routes

Hove

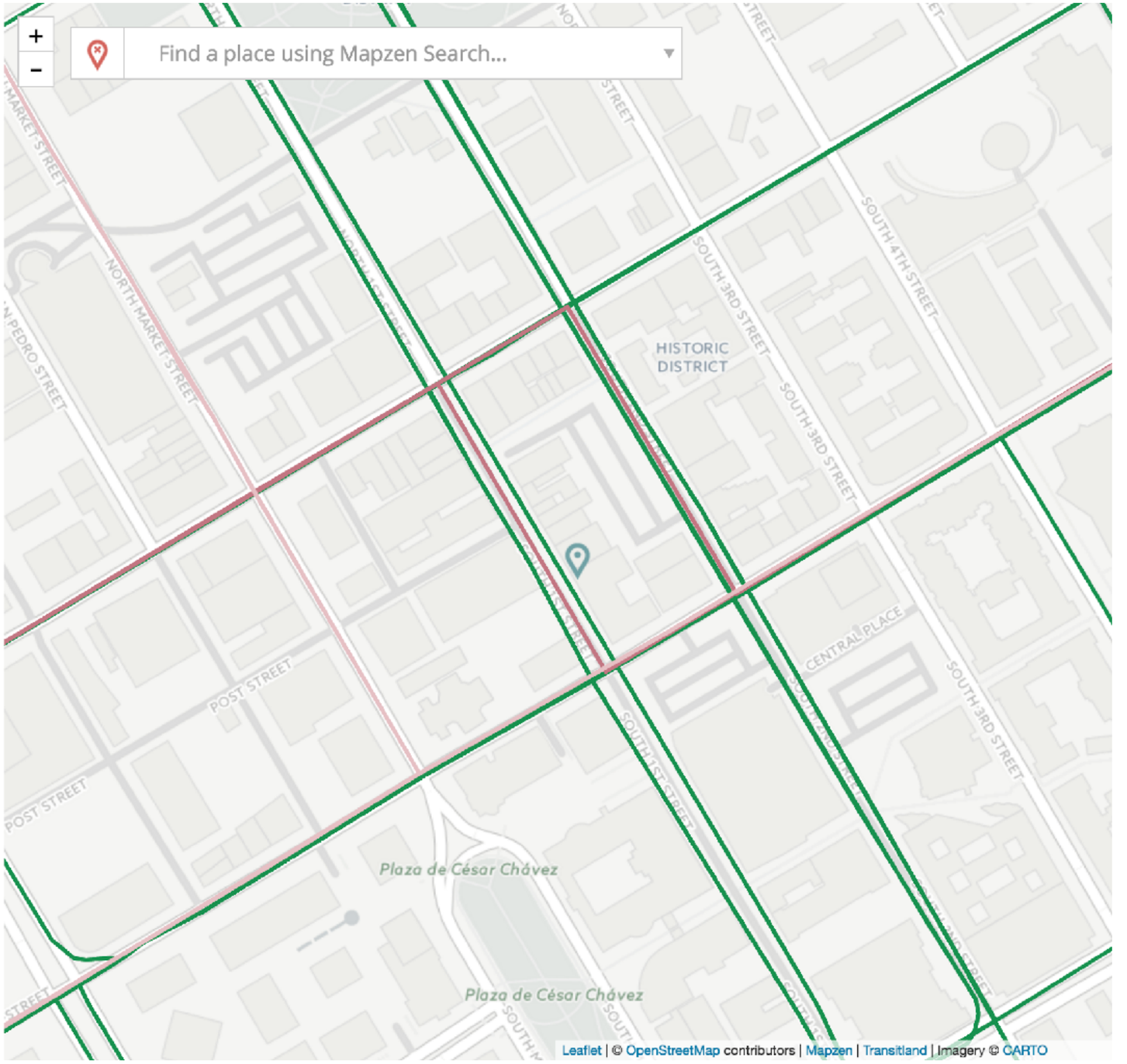
Styl

Santa Clara Valley Transportation Authority

Santa Cruz Metropolitan Transit District

Monterey-Salinas Transit

SHOW STOPS



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close

Visualize public transit networks

SHOW ROUTES

22

Hove

Styl

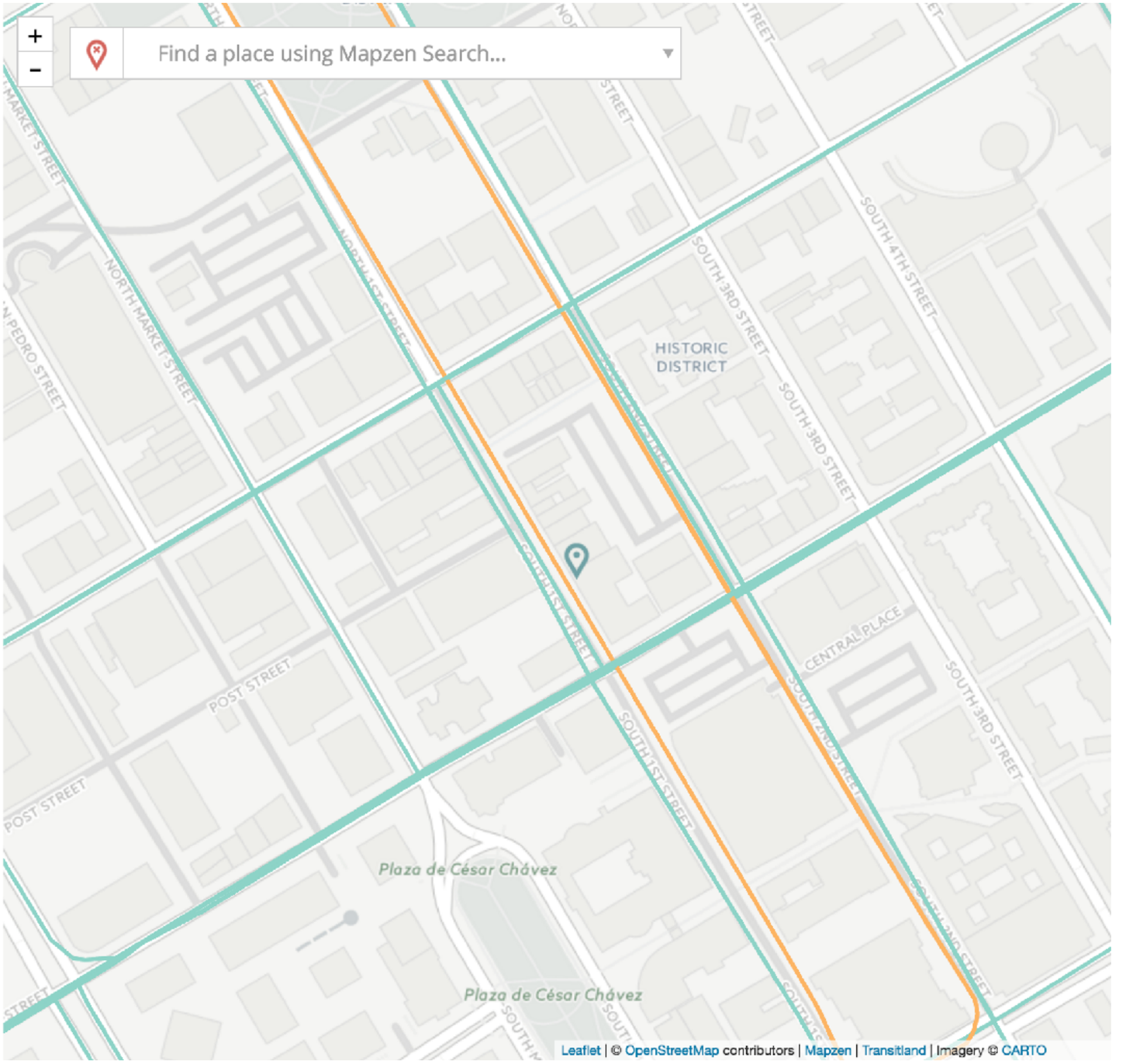
bus

tram

2 modes

Operator

SHOW STOPS



MAPZEN

Mobility Explorer

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Click **here** to learn more...

close

Visualize public transit networks

SHOW ROUTES

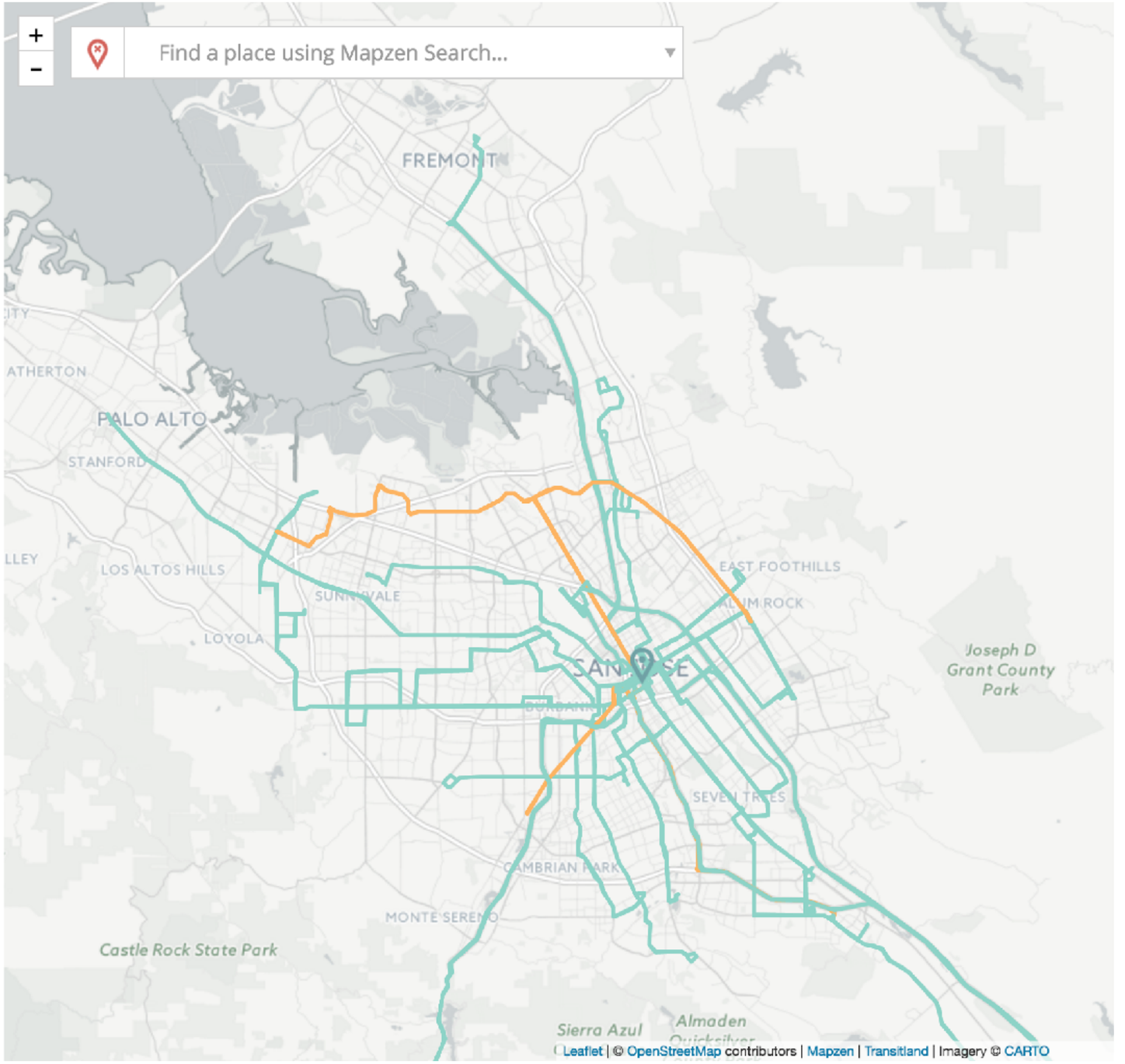
22 routes

Hover over a route line for information

Style routes by:

- Mode
  - 2 modes
- Operator

REDO SEARCH IN MAP AREA



MAPZEN

Mobility Explorer

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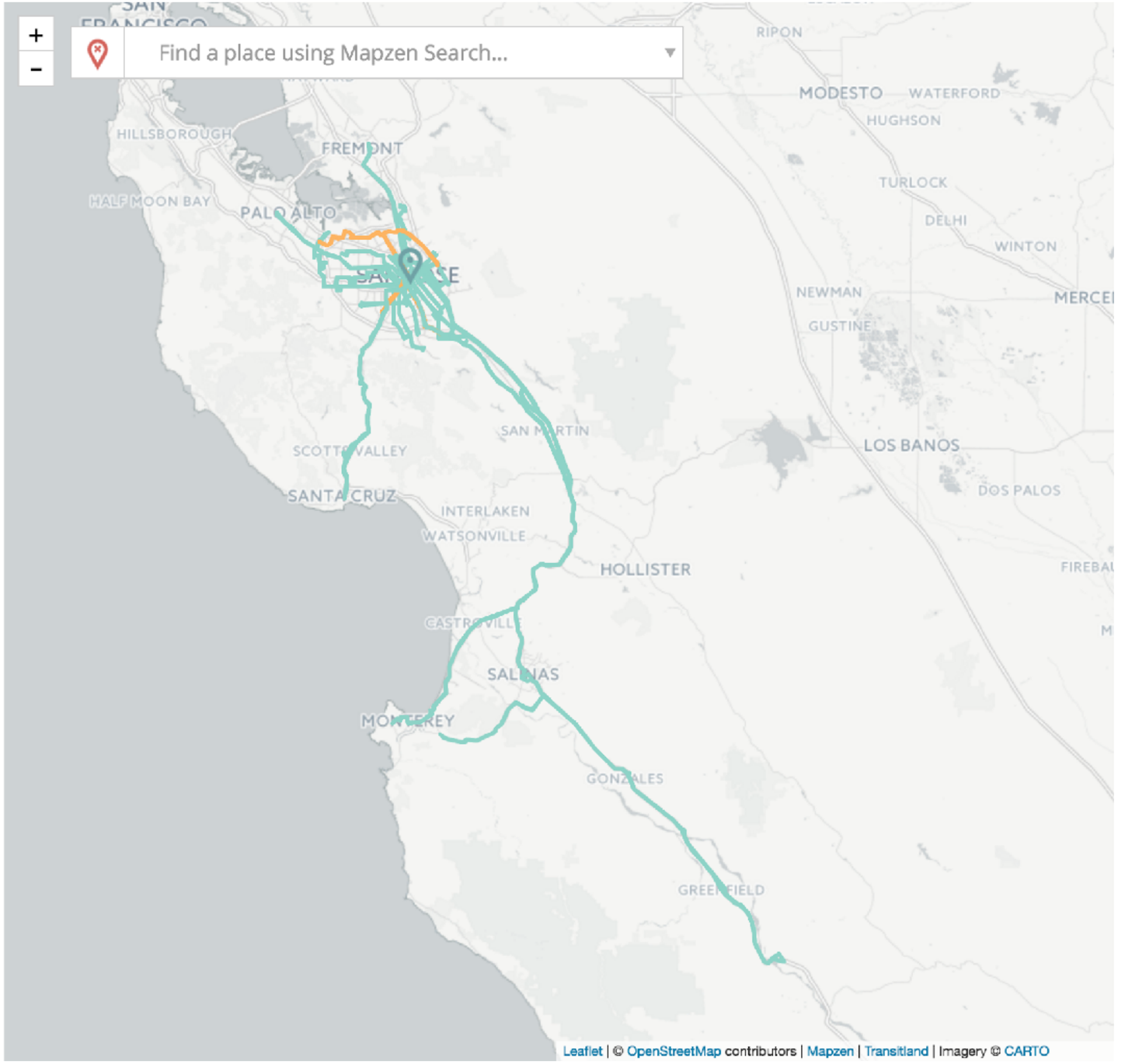


close

Visualize public transit networks

SHOW ROUTES

SHOW STOPS

SHOW OPERATORS

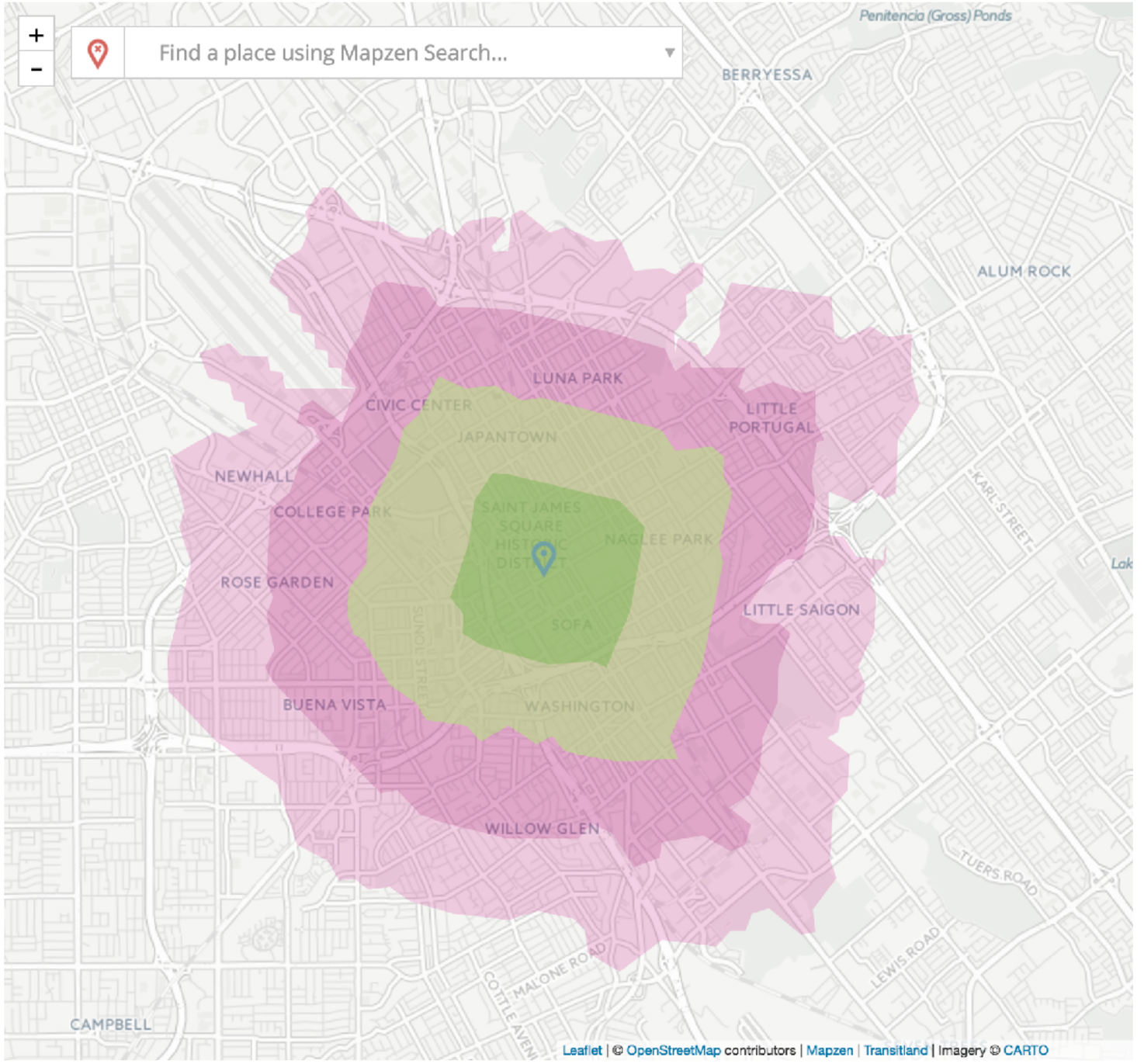
Analyze access

GENERATE ISOCHRONES

View distance you can travel from this pin via:

- (•) walking
  - 15 min walk from stop
  - 30 min walk from stop
  - 45 min walk from stop
  - 60 min walk from stop
- ( ) biking
- ( ) driving
- ( ) transit

See the Mapzen Mobility API request for these results



close

Visualize public transit networks

SHOW ROUTES

SHOW STOPS

SHOW OPERATORS

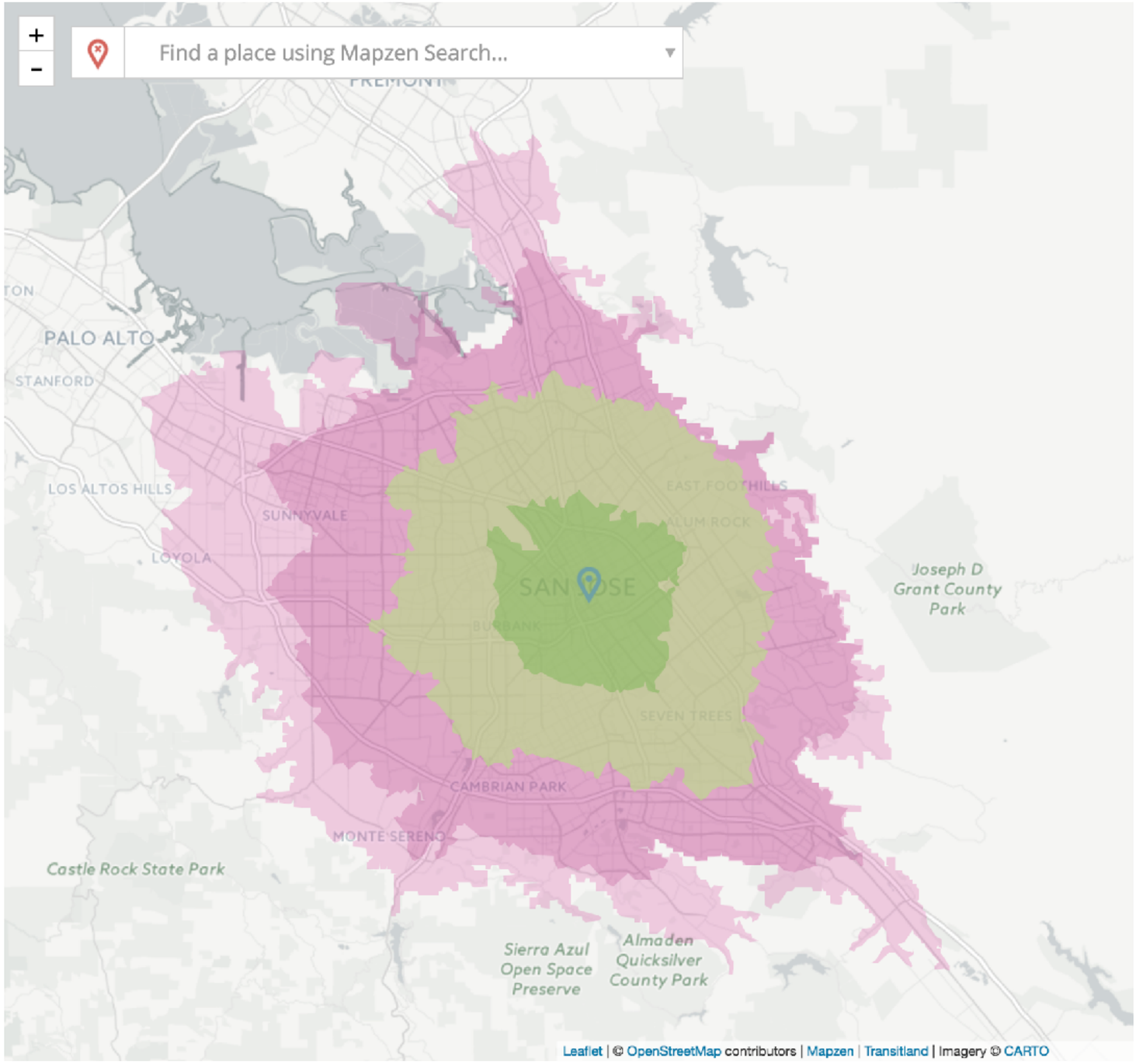
Analyze access

GENERATE ISOCHRONES

View distance you can travel from this pin via:

- ○ walking
- ◉ biking
  - 15 min ride from stop
  - 30 min ride from stop
  - 45 min ride from stop
  - 60 min ride from stop
- ○ driving
- ○ transit

See the Mapzen Mobility API request for these results



close

Visualize public transit networks

SHOW ROUTES

SHOW STOPS

SHOW OPERATORS

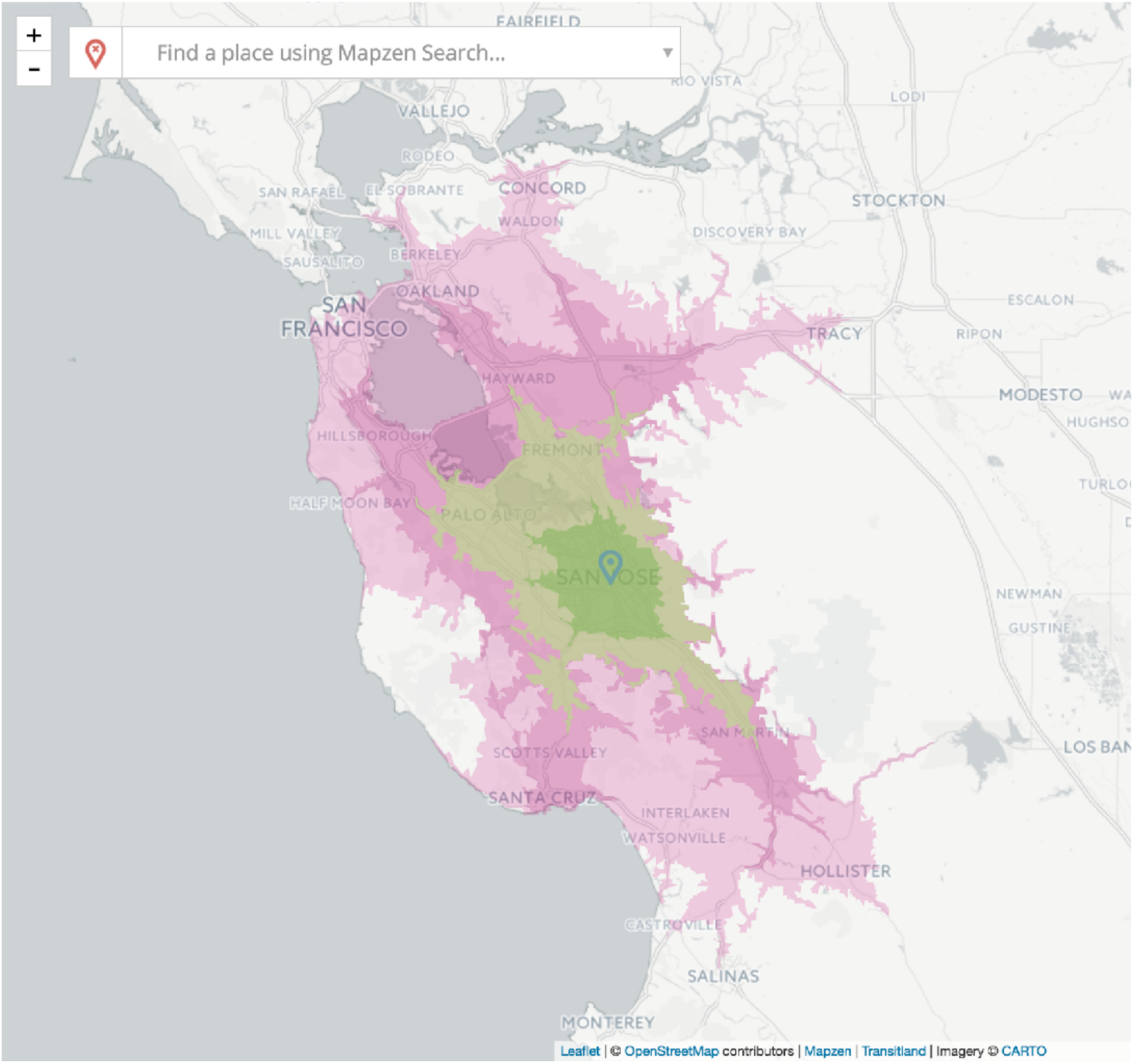
Analyze access

GENERATE ISOCHRONES

View distance you can travel from this pin via:

- walking
- biking
- driving
  - 15 min drive from stop
  - 30 min drive from stop
  - 45 min drive from stop
  - 60 min drive from stop
- transit

See the Mapzen Mobility API request for these results



SHOW OPERATORS

Analyze access

GENERATE ISOCHRONES

View distance you can travel from this pin via:

- walking
- biking
- driving
- transit

15 min trip from stop
30 min trip from stop
45 min trip from stop
60 min trip from stop

departure at:

01/24/2017 12:30 PM

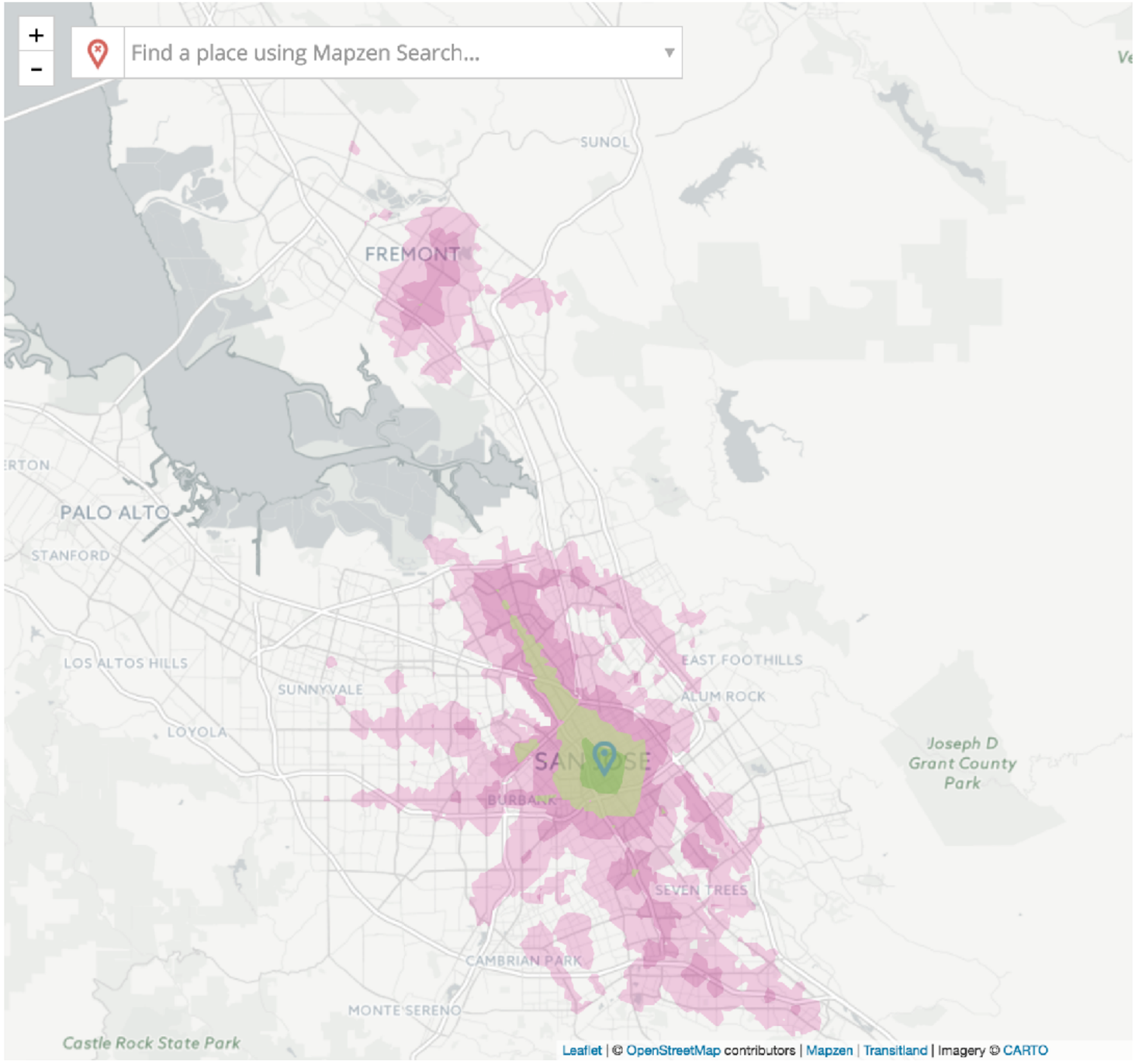
reset to current date and time

Include or exclude operators ↕

Include or exclude routes ↕

Include one or more routes to see isochrones that use only the selected route(s).

Exclude one or more routes to see isochrones that



works

SHOW ROUTES

Route name: 181
Onestop ID: r-9q9k-181
Vehicle type: bus
Long name: SAN JOSE DIRIDON - FREMONT BART
Operated by: Santa Clara Valley Transportation Authority
Operator Onestop ID: o-9q9-vta

☑ Show stops served by route

Show route stop patterns

REDO SEARCH IN MAP AREA

SHOW STOPS

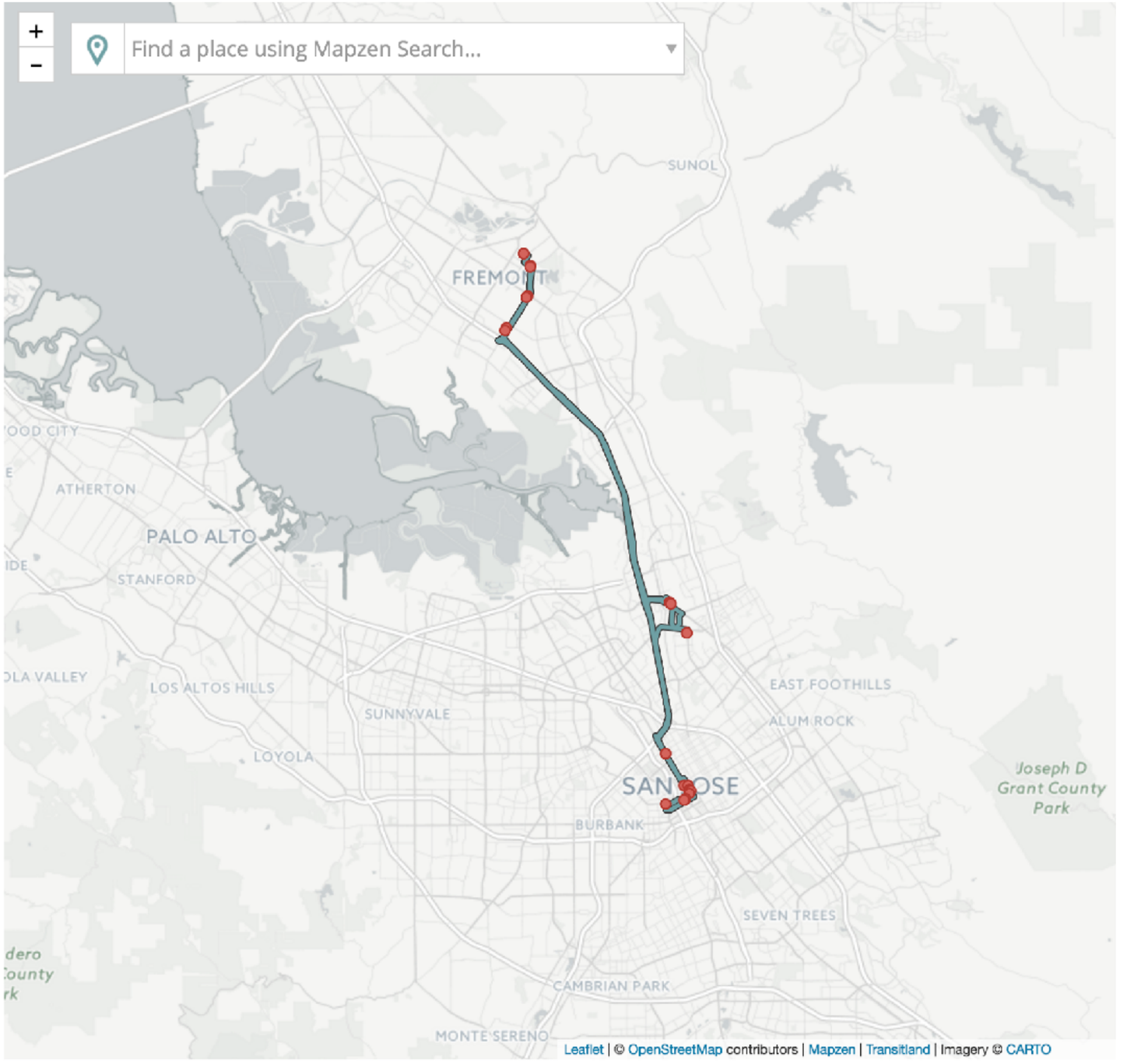
SHOW OPERATORS

See the Transitland API request for these results

See these results in geoJSON format

Analyze access

GENERATE ISOCHRONES



SHOW OPERATORS

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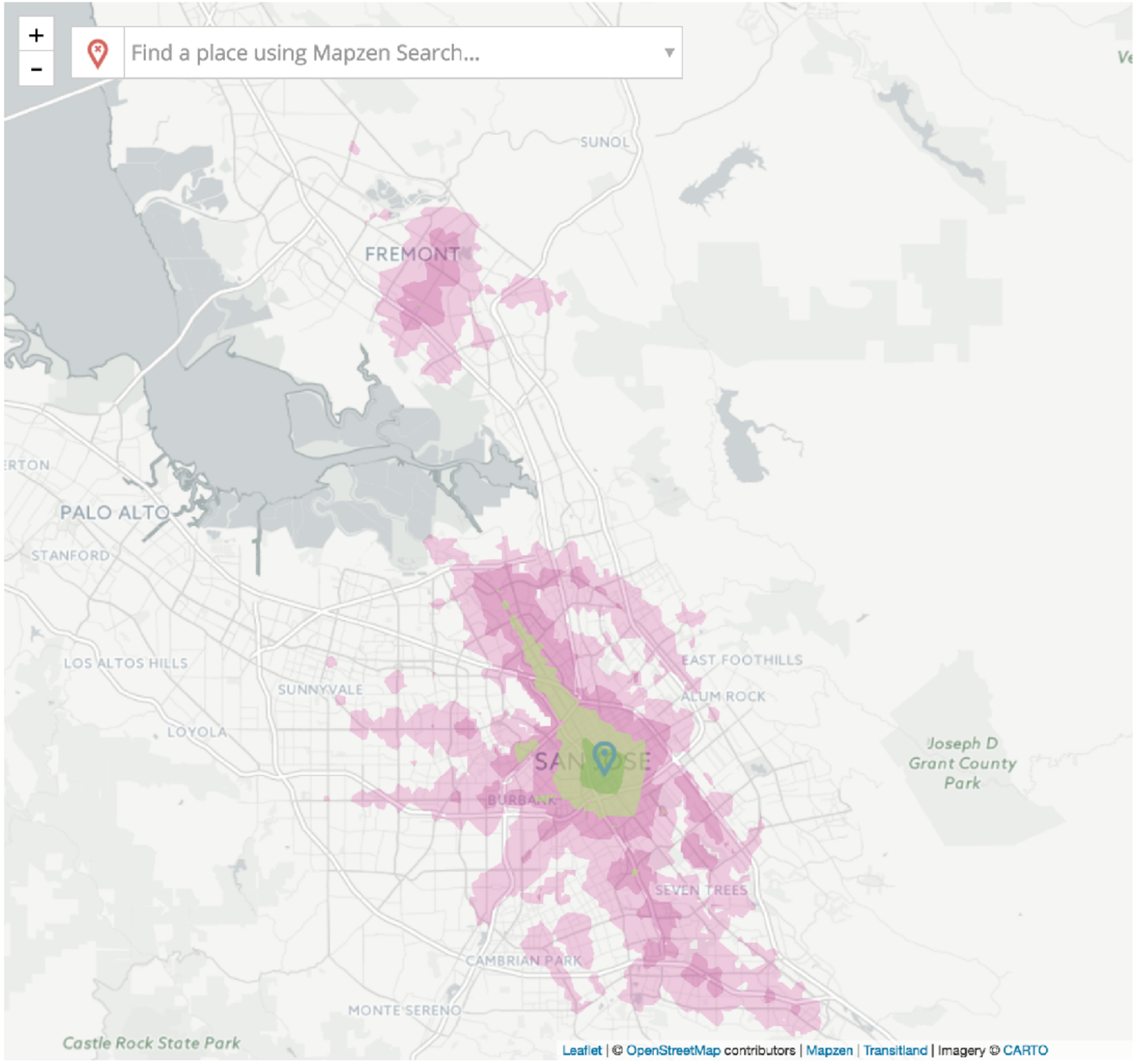
Exclude one or more routes to see isochrones that



Analyze access

GENERATE ISOCHRONES

View distance you can travel from this pin via:

- walking
- biking
- driving
- transit
  - 15 min trip from stop
  - 30 min trip from stop
  - 45 min trip from stop
  - 60 min trip from stop

departure at:

01/24/2017 12:30 PM

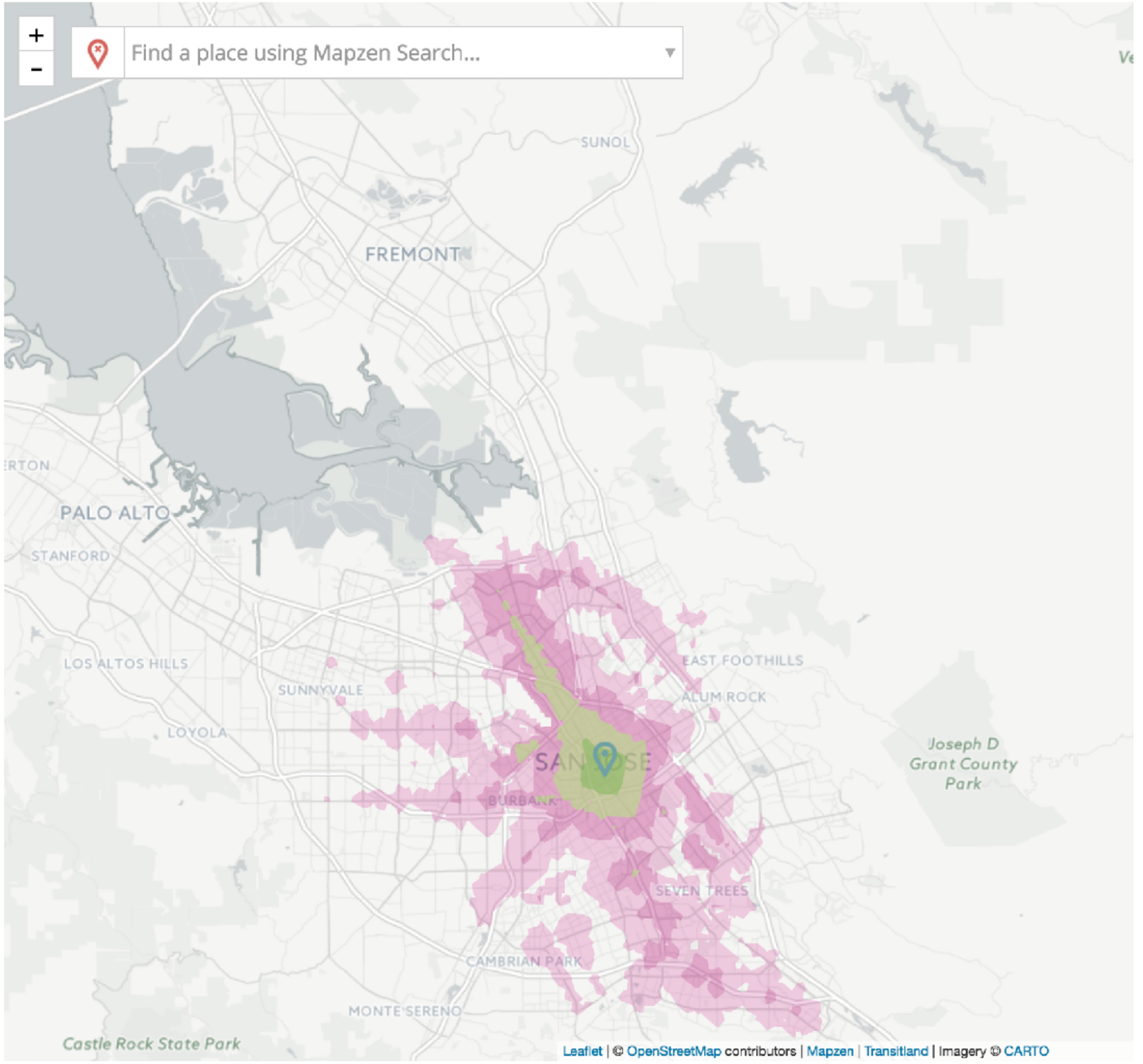
reset to current date and time

Include or exclude operators ↕

Include or exclude routes ↕

Include one or more routes to see isochrones that use only the selected route(s).

Exclude one or more routes to see isochrones that do not use the selected route(s).



SHOW OPERATORS

Analyze access

GENERATE ISOCHRONES

View distance you can travel from this pin via:

- walking
- biking
- driving
- transit

15 min trip from stop
30 min trip from stop
45 min trip from stop
60 min trip from stop

departure at:

01/24/2017 12:30 PM

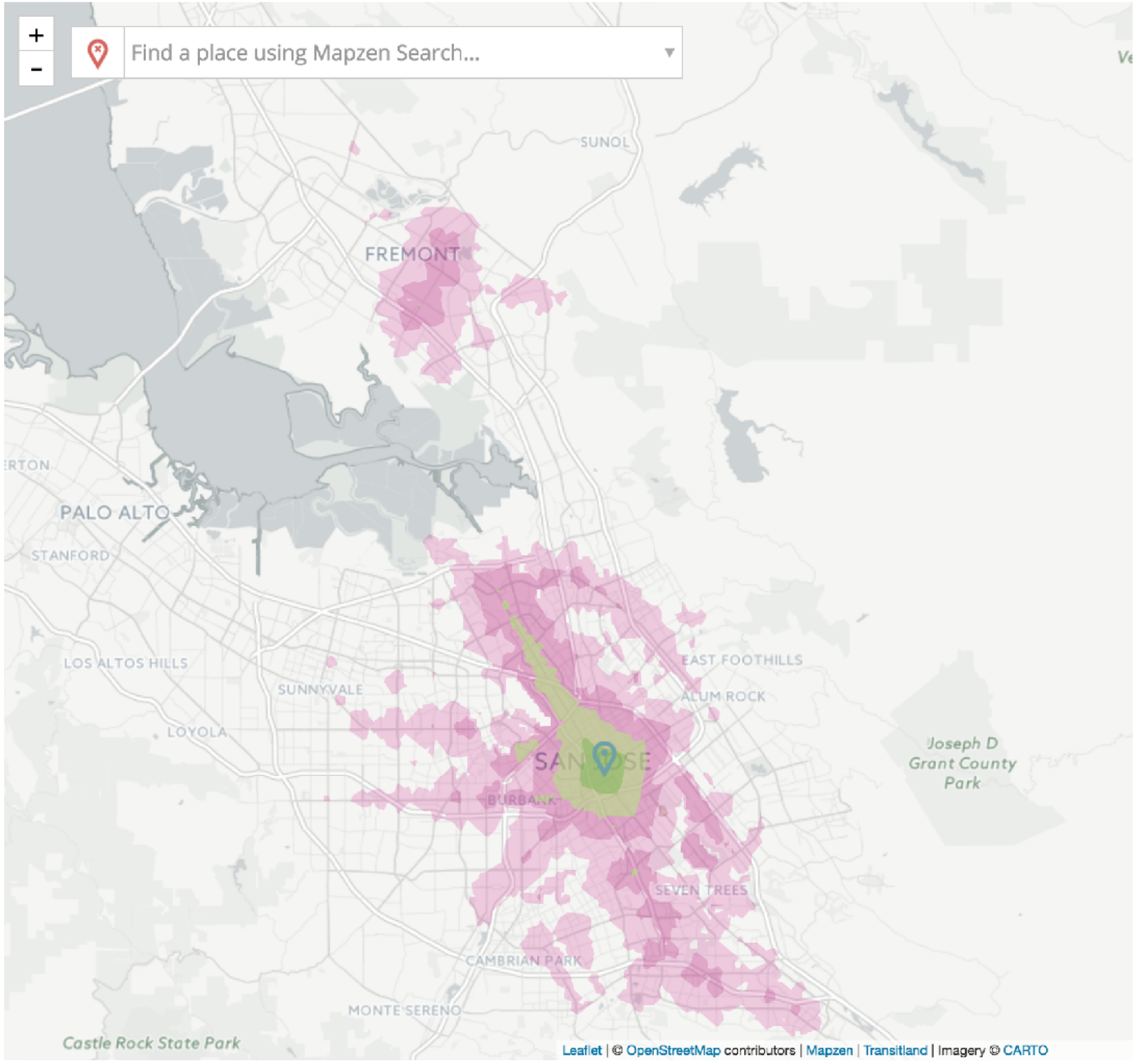
reset to current date and time

Include or exclude operators ↕

Include or exclude routes ↕

Include one or more routes to see isochrones that use only the selected route(s).

Exclude one or more routes to see isochrones that



SHOW OPERATORS

Analyze access

GENERATE ISOCHRONES

View distance you can travel from this pin via:

- walking
- biking
- driving
- transit
  - 15 min trip from stop
  - 30 min trip from stop
  - 45 min trip from stop
  - 60 min trip from stop

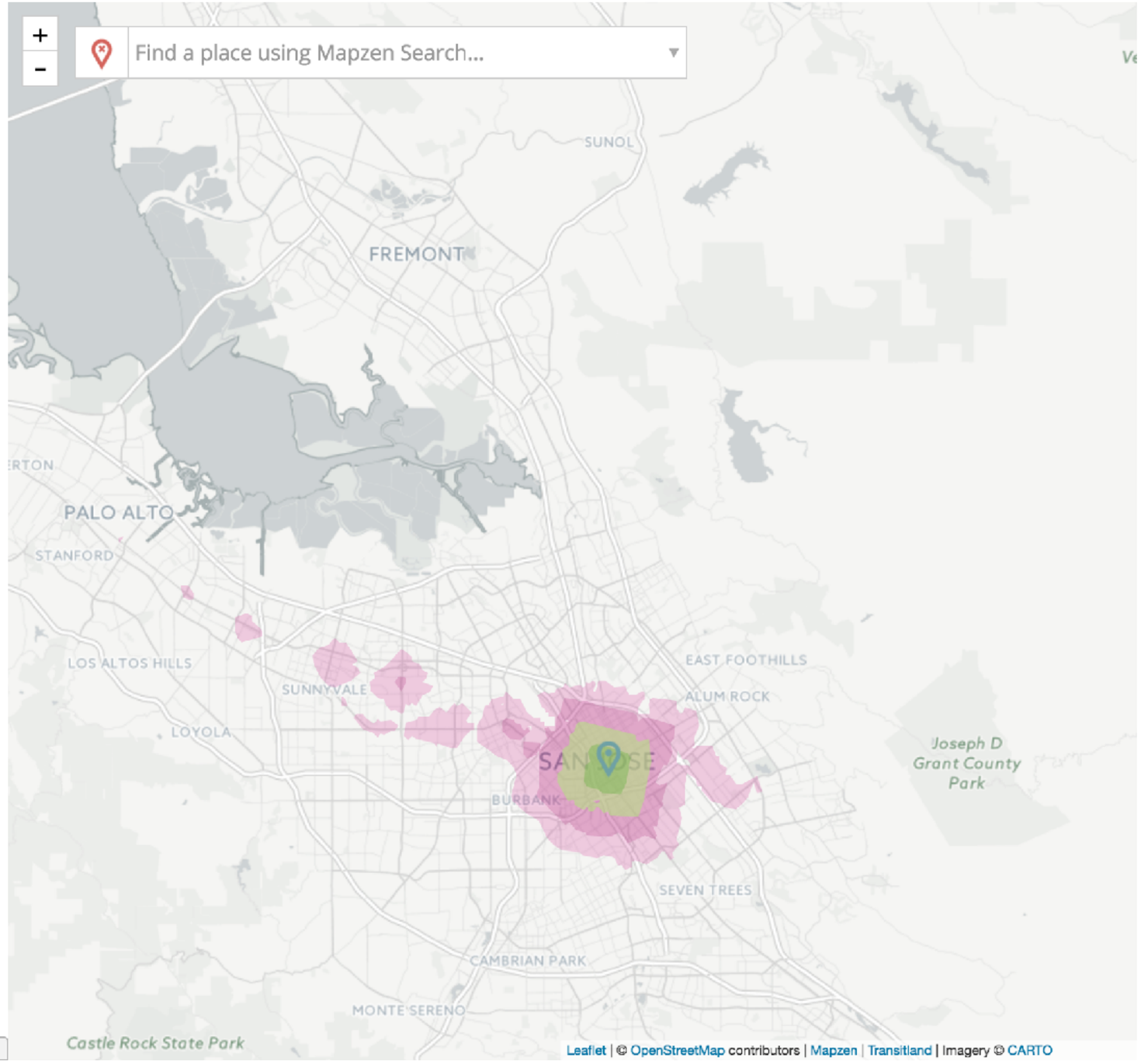
departure at:

01/24/2017 4:00 AM

reset to current date and time

Include or exclude operators ↕

Include or exclude routes ↕



The future of transit maps is **customizable**

1. For unique mobility needs
2. For understanding service needs

Questions?

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@meghanhade

mapzen.com/mobility/explorer

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