



SFMTA

# San Francisco's Bicycle Comfort Index

## Purpose & Methodology

Shayda Haghgoo | Transportation Planner

SPUR Digital Discourse | A Look into the Active Communities Plan

May 3, 2023

# Agenda

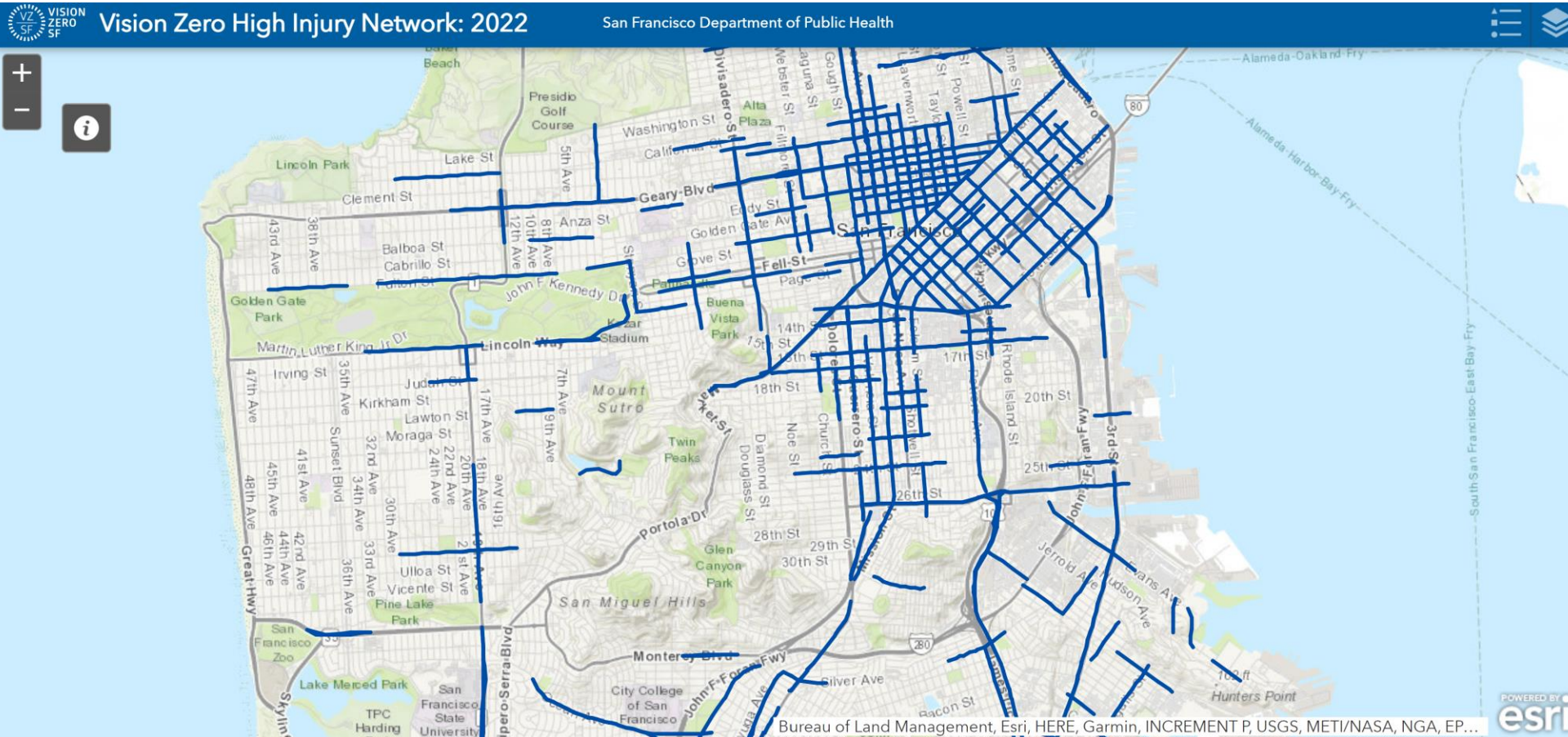
Background

2017 Bicycle Comfort Index (BCI)

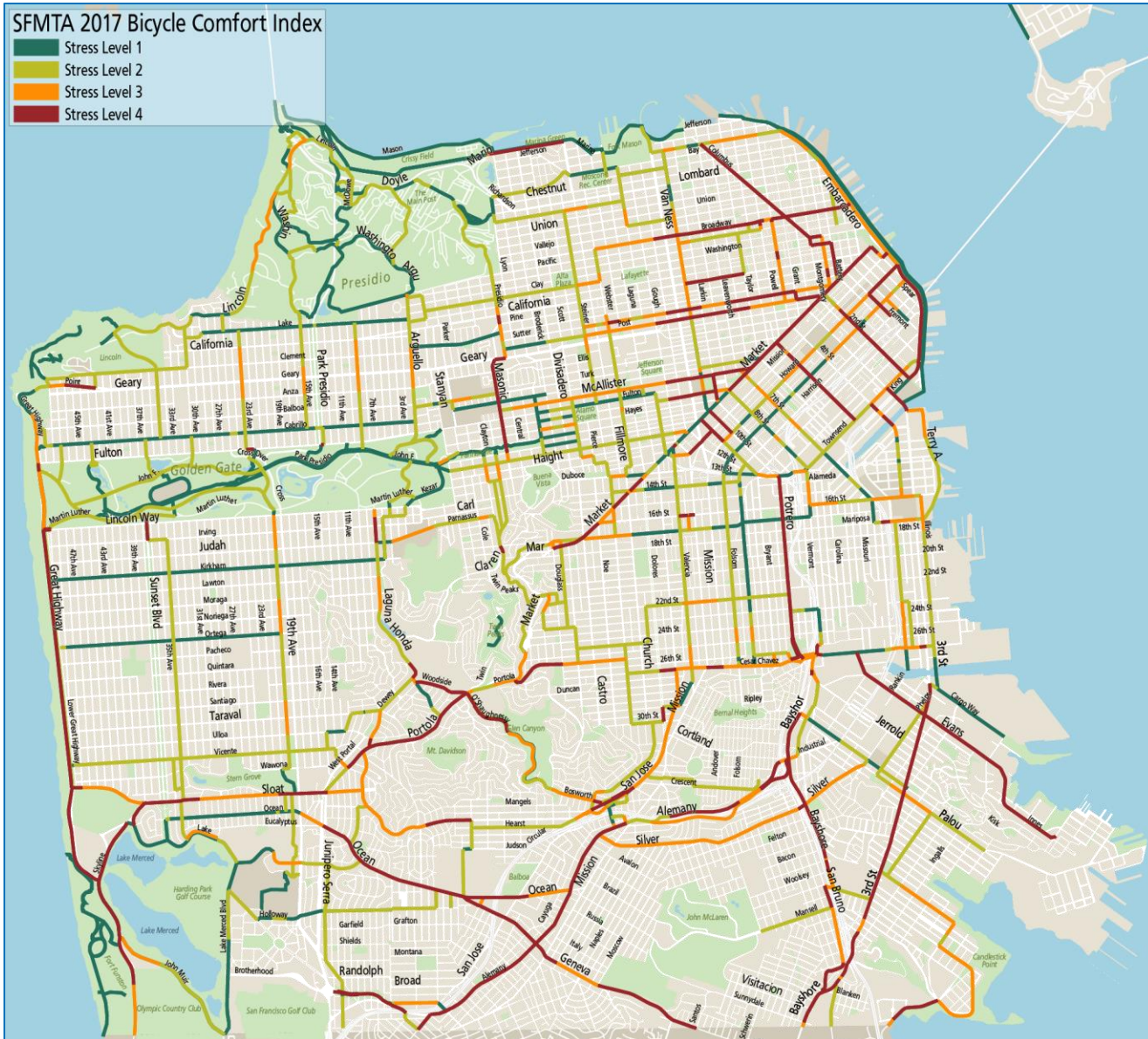
Purpose & Framework of 2023/2024 BCI

Next Steps

# San Francisco's High Injury Network



# 2017 Bicycle Comfort Index



# 2017 SFMTA BCI Point Allocation

**LTS Score =** **Bike Facility + Bike Infrastructure – Speed Limit – Number of Lanes – Highway On/Off Ramp – Truck-Conductive Route – Parking Conflict – Muni Rapid Route**



## Bike Facility

- Bike path **+ 7**
- Bike lane **+6**
- Bike route **+5**

## Bike Infrastructure

- Separated bikeway **+2**
- Raised bikeway **+2**
- Buffered bike lane **+1**
- Neighborway **+1**
- Green Wave **+1**

## Speed Limit

- 45 MPH or more **-2**
- 35 MPH to 44 MPH **-1**

## Number of Lanes

- Two-way: 2 or more **-1**
- One-way: 3 or more **-1**

## Muni Rapid Route **-1**

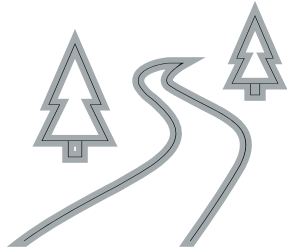
## Highway On/Off Ramp **-1**

## Truck-conductive Route **-1**

## Parking Conflict **-1**

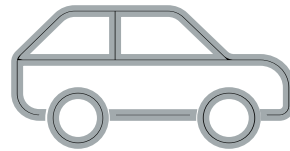
# 2023/2024 Framework & Inputs

## BCI Composite Score



### Context Subscore

- Land Use
- Pavement Quality
- Reported Behavioral Violations
- Slope



### Traffic Subscore

- Level of Traffic Stress (LTS)
  - 7 Sub-Inputs: Bike Class, Bike Lane Width (Assumed), Prevailing Speed, Traffic Volume (ADT), Number of Lanes, Presence of Centerline Striping, Presence and Width (Assumed) of Street Parking
- Transit Presence
- Parking Time Limit



### Bicycle Infrastructure Subscore

- Bicycle Facility Type
  - 4 Sub-Inputs: Bike Class, Buffer, Barrier Type, and Slow Streets
- Intersection Facility Type
- Green Wave Bicycle Streets

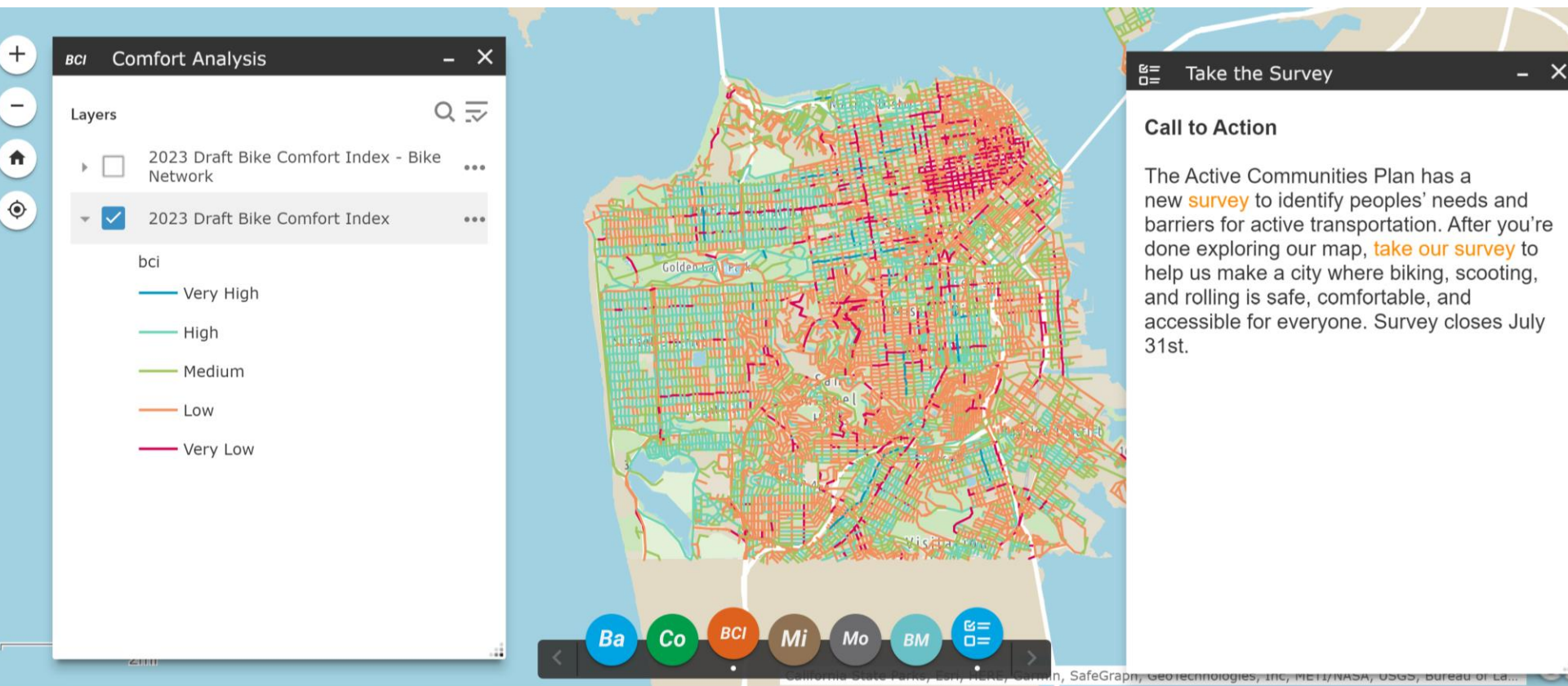
# Phase II: Calibration

How comfortable would you be using these facilities?

Very Comfortable | Comfortable | Neutral | Uncomfortable | Very Uncomfortable

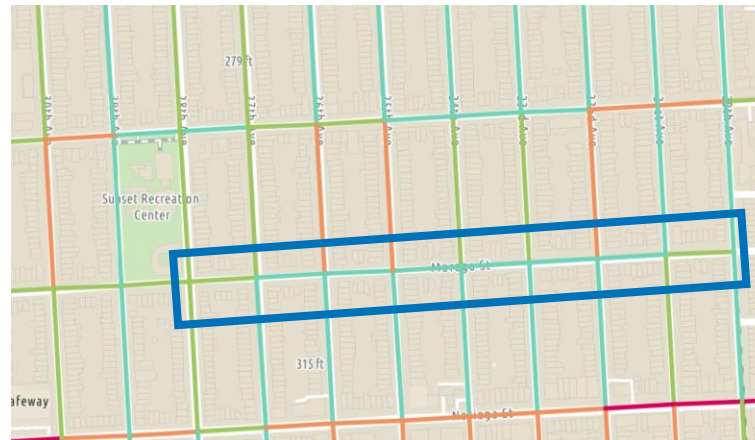
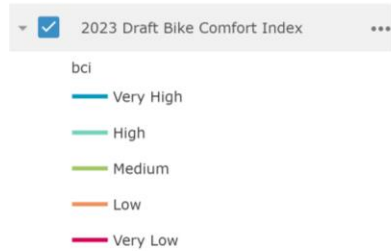
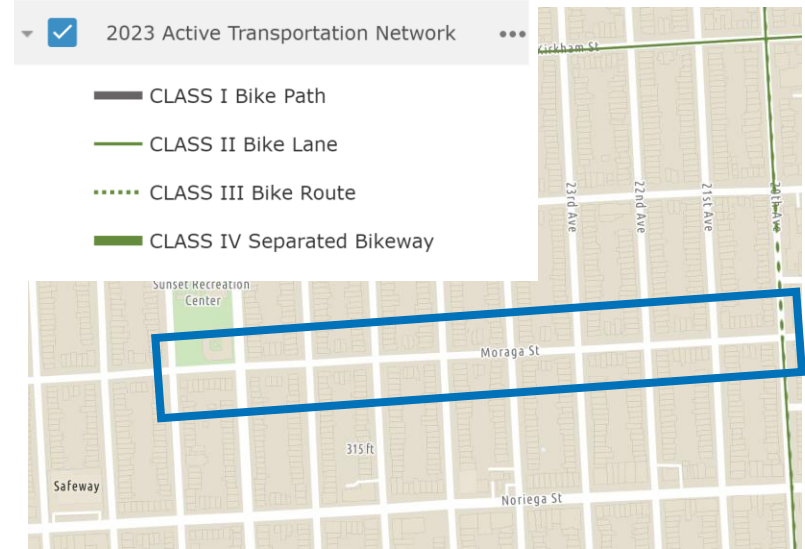


# Phase II: Calibration

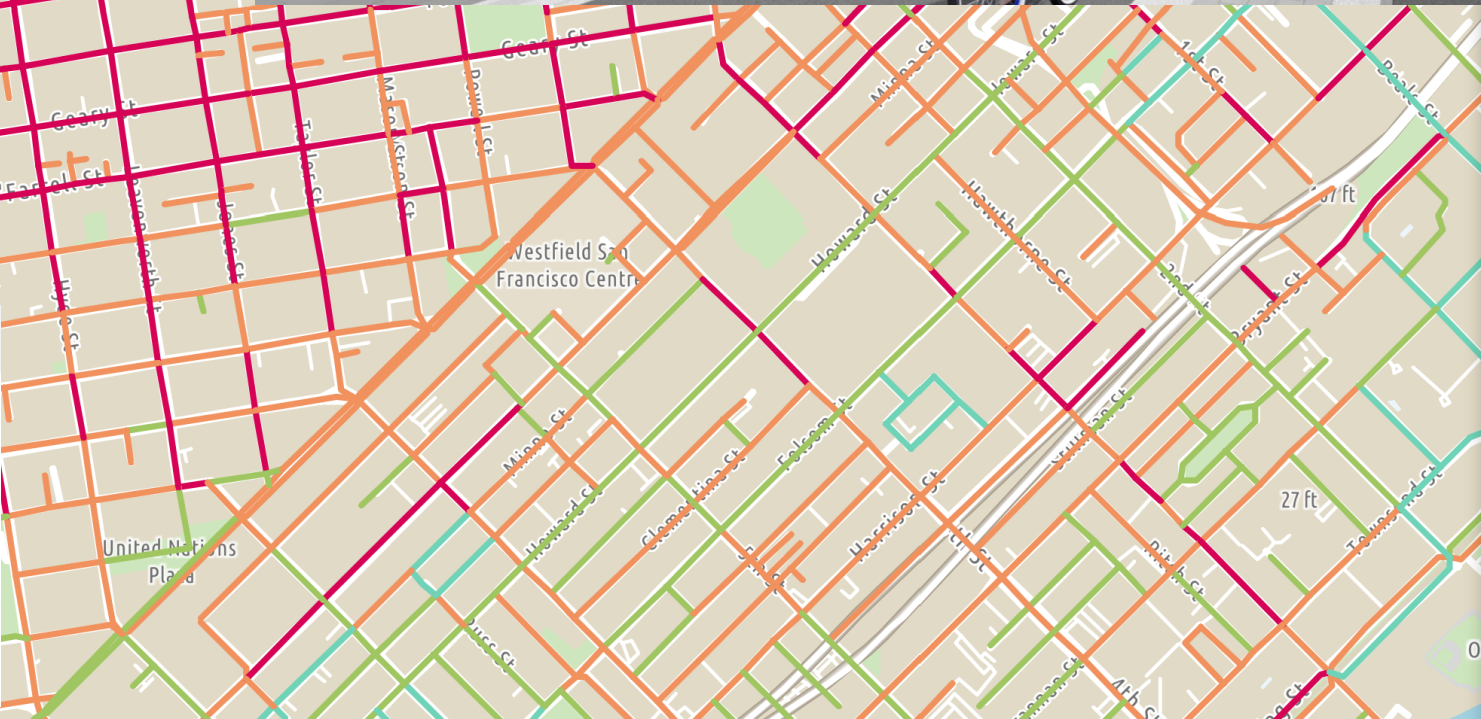
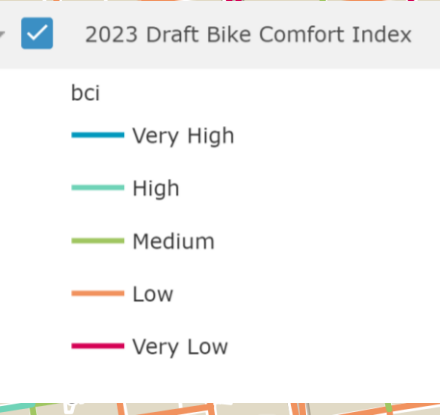
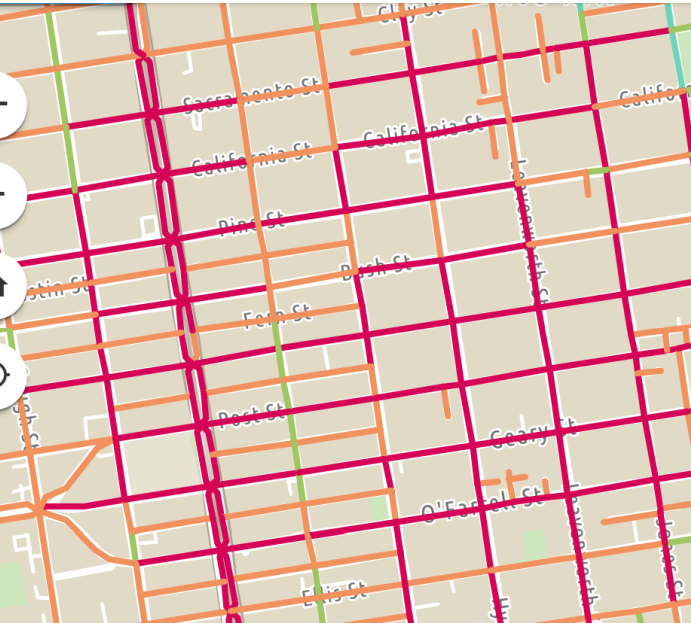




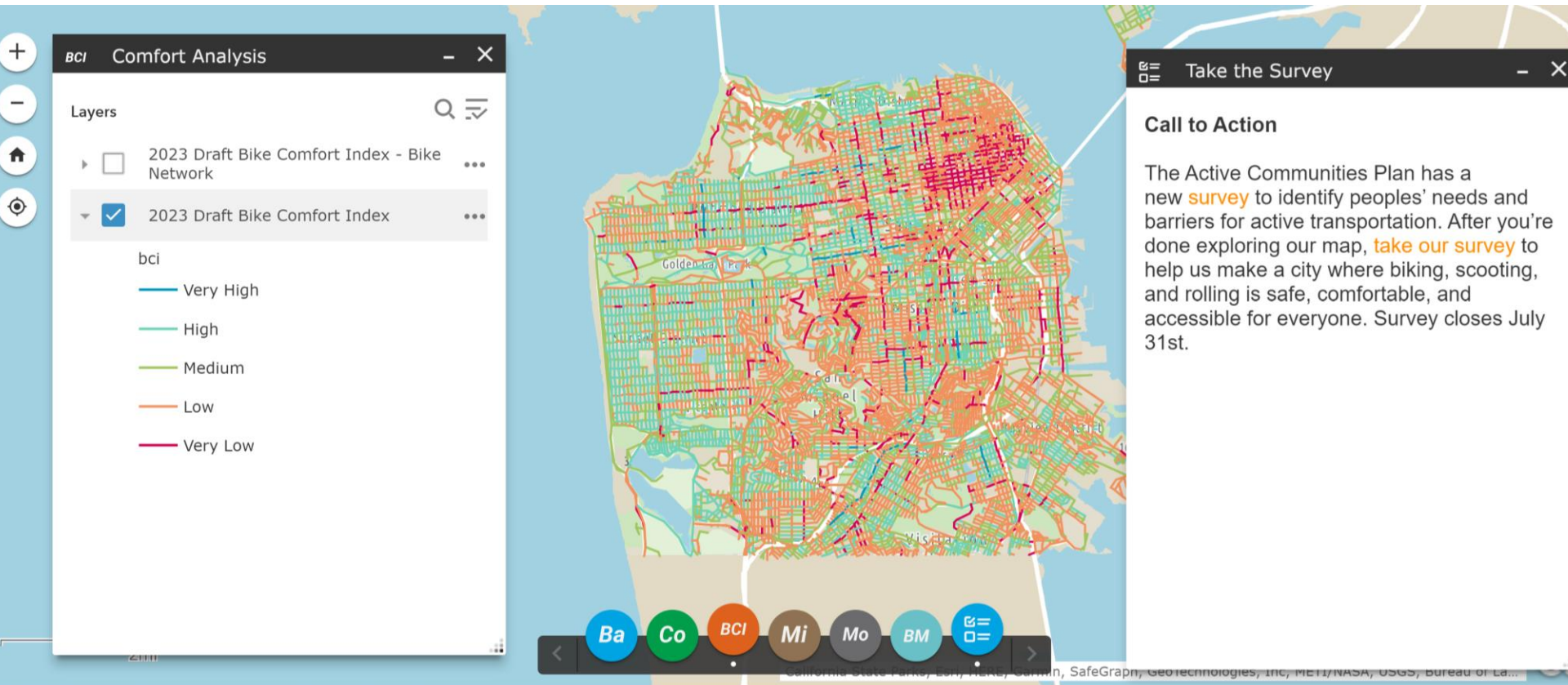
# Next Steps



# Next Steps



# Thank you!



## Shayda.Haghgoo@sfmta.com