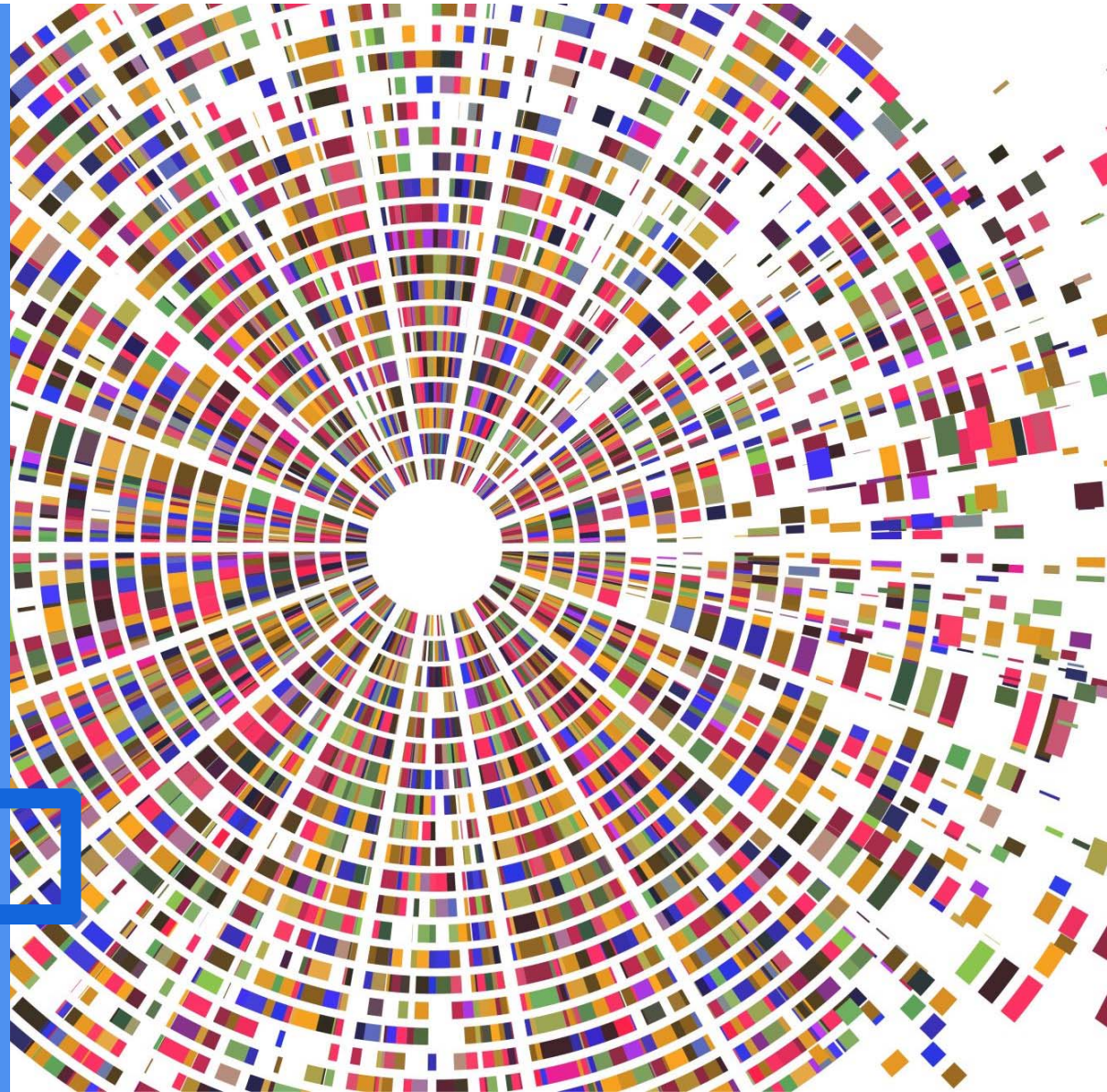


Prioritizing for Equity

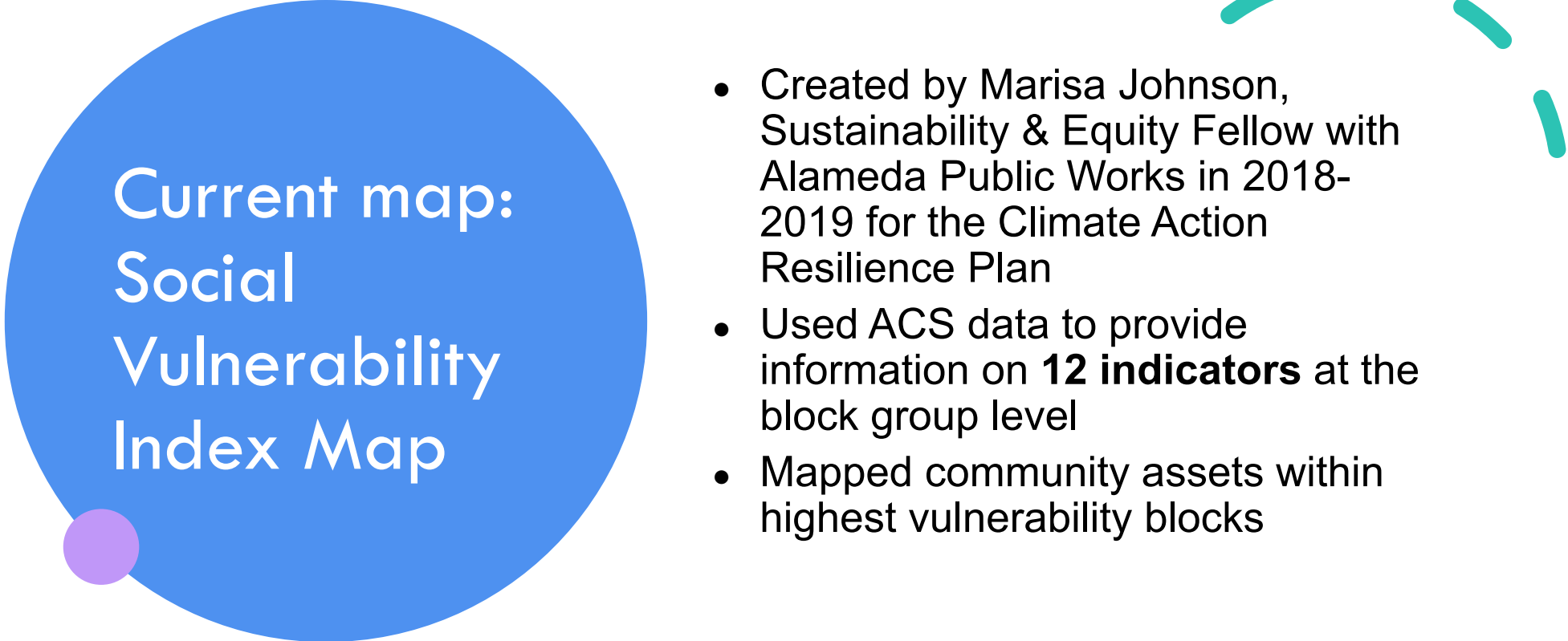
Identifying “Socially
Vulnerable Areas” in the City
of Alameda



The problem

What map resource would best help the City of Alameda prioritize resources for climate resilience, transportation & planning work?





Current map: Social Vulnerability Index Map

- Created by Marisa Johnson, Sustainability & Equity Fellow with Alameda Public Works in 2018-2019 for the Climate Action Resilience Plan
- Used ACS data to provide information on **12 indicators** at the block group level
- Mapped community assets within highest vulnerability blocks

12 Indicators



Renters

Children under 5

Very low-income

Not US Citizens

Households without
a vehicle

People with
Disabilities

Single parent
families

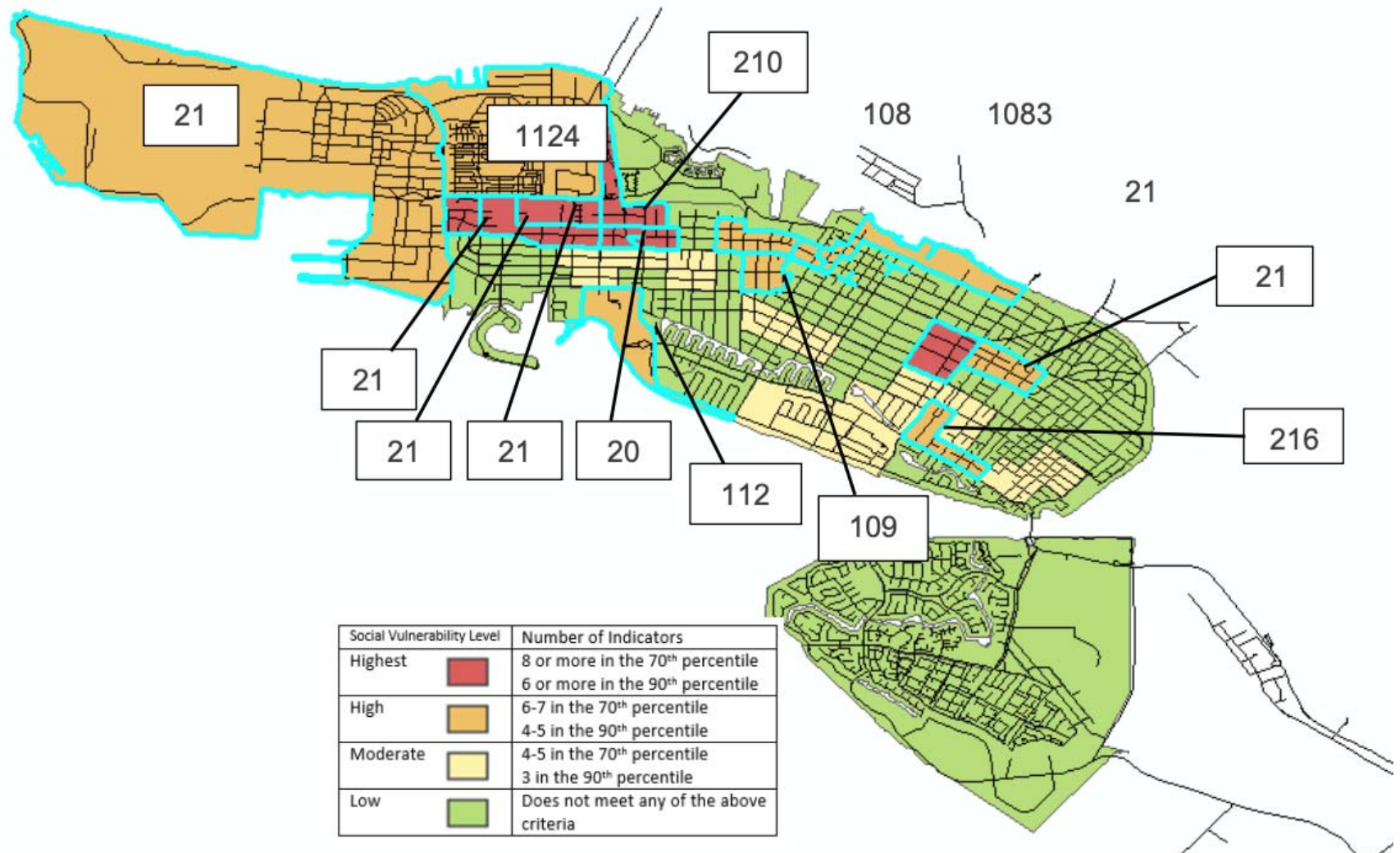
Communities of color

65+ and living alone

Limited English
proficiency

People without a
high school degree

Severely housing
cost burdened
(spending more than
50% of income on
housing)





Why should
we move
away from
this
approach?



Out of date: New Census data from 2020



Time-intensive to maintain a custom map of Socially Vulnerable Areas



Unnecessary: other viable, publicly accessible mapping resources exist



The solution

City of Alameda can use BCDC Community Vulnerability map to support equity prioritization.

Why?

- Provides continuity of approach
- Detailed geographic information
- Many indicators included
- Updated consistently





Maps considered

MTC/ABAG
Equity Priority
Communities

Cal Enviro
Screen 4.0

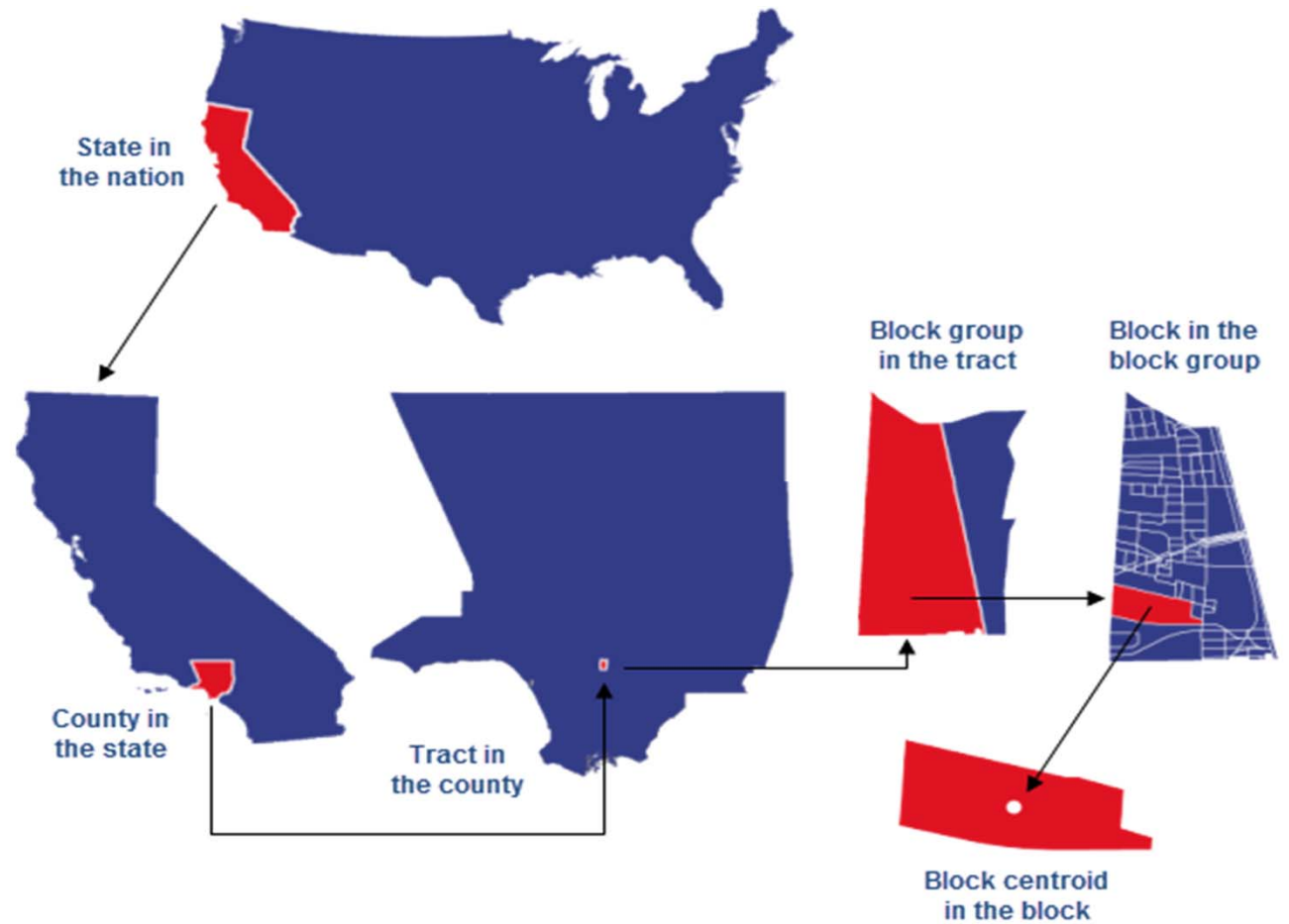
BCDC
Community
Vulnerability
Mapping

Redlining Map

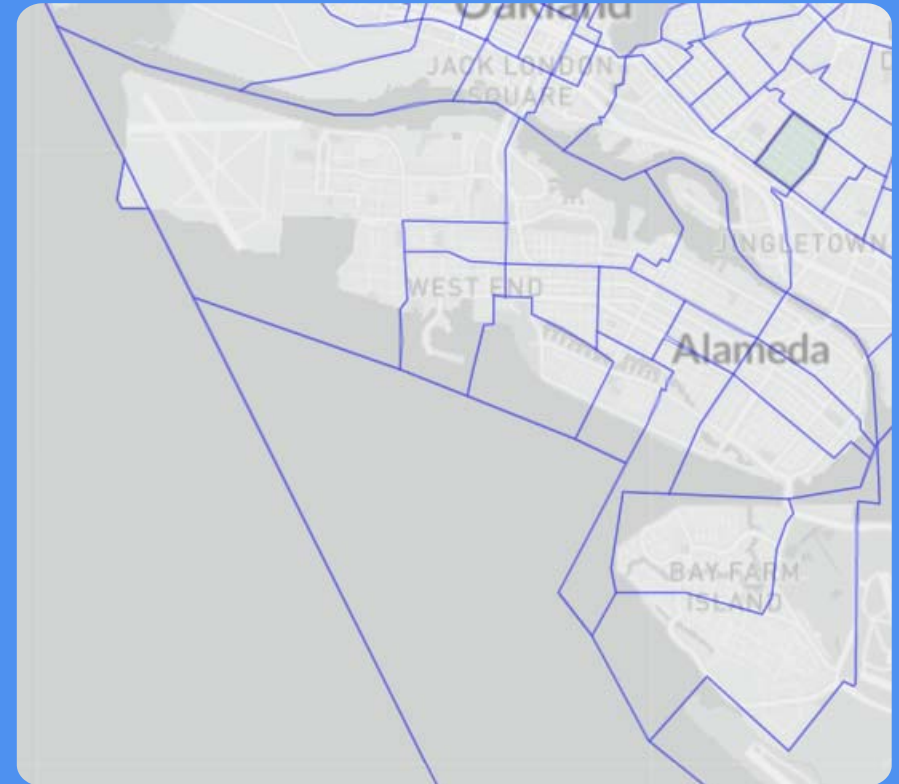
Environmental
Justice 40
Initiative

UC Berkeley
Urban
Displacement
Project

Census geographic hierarchy diagram

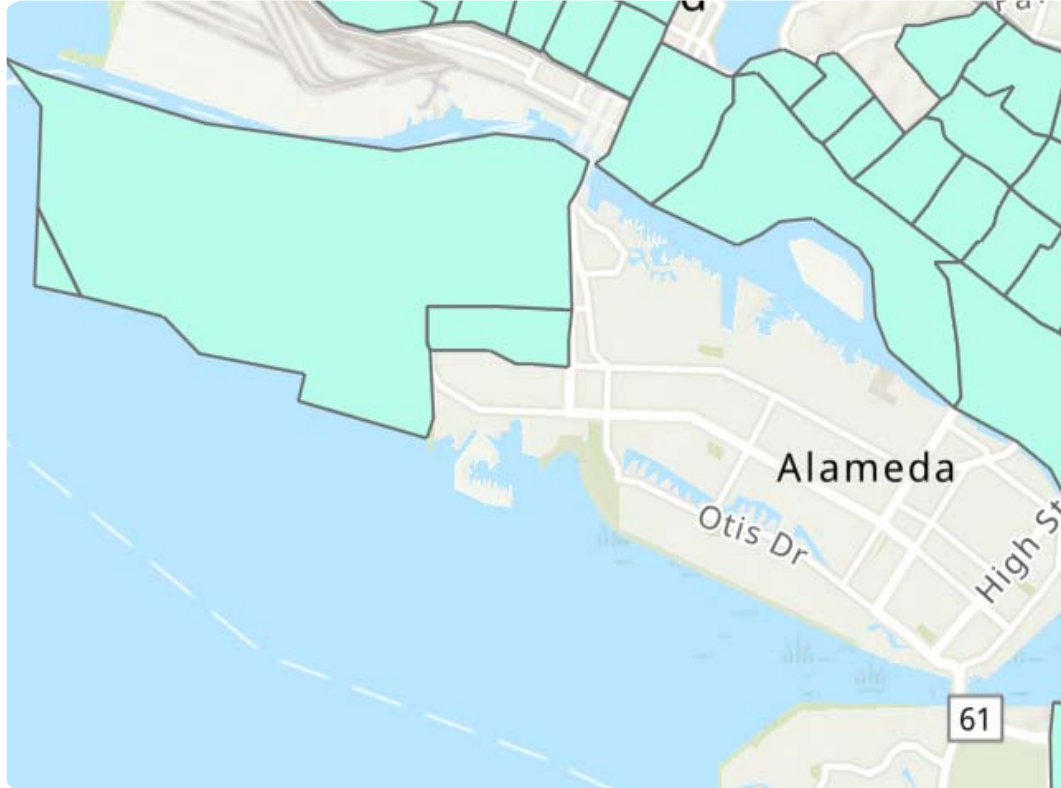


City of Alameda tracts



City of Alameda block groups





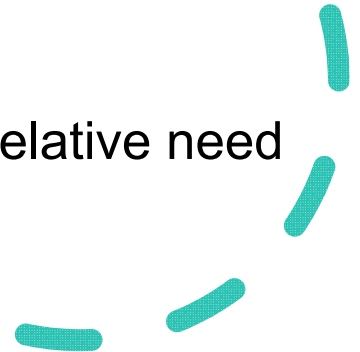
MTC Equity Priority Communities

Benefits

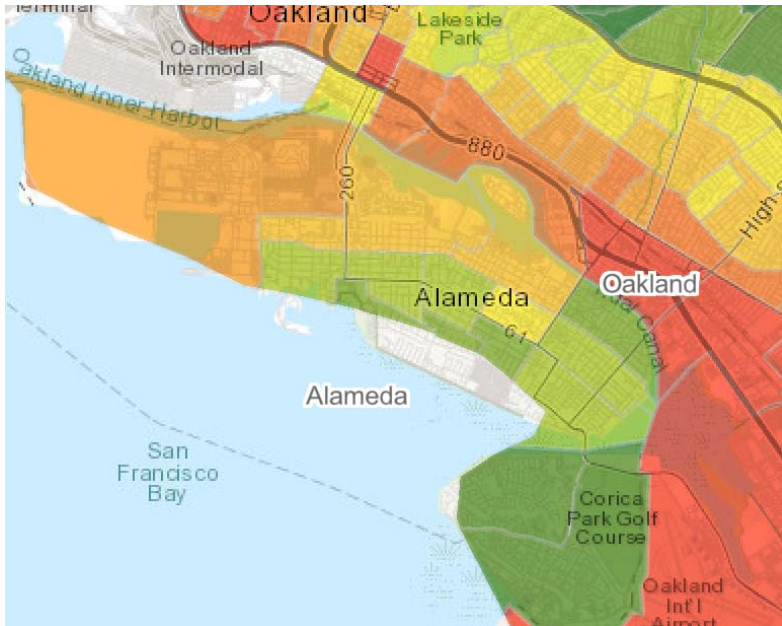
- 8 indicators
- High threshold for inclusion

Gaps

- Tract-level data
- Hard to prioritize relative need within the city



Cal Enviro Screen 4.0 (Cal OEHHA)

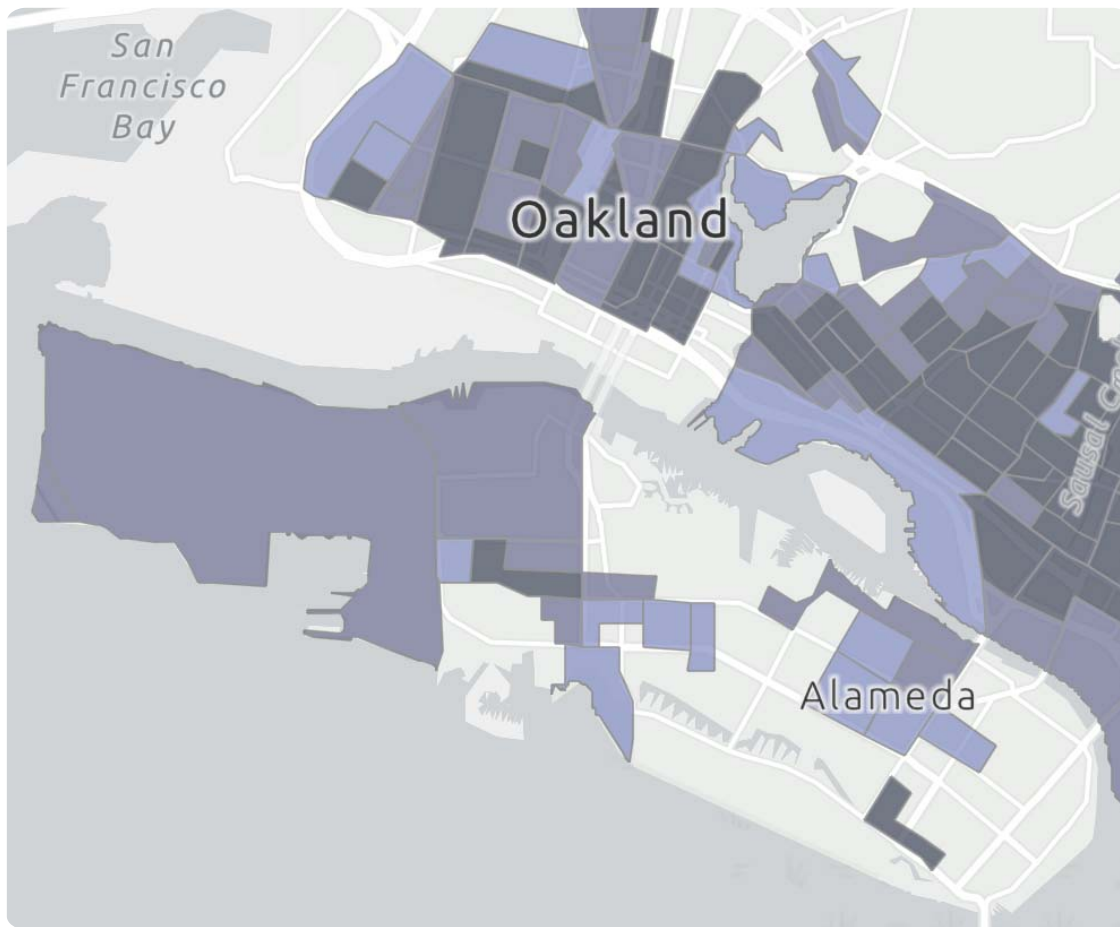


Benefits

- Identify areas where environmental injustice/pollution burdens are greatest (PM 2.5, diesel particulate, waste, threats to water, etc.)
- Have separate maps for most indicators

Gaps

- Based on exposure levels rather than demographics → Less actionable for traffic safety planning



BCDC Community Vulnerability map

Benefits

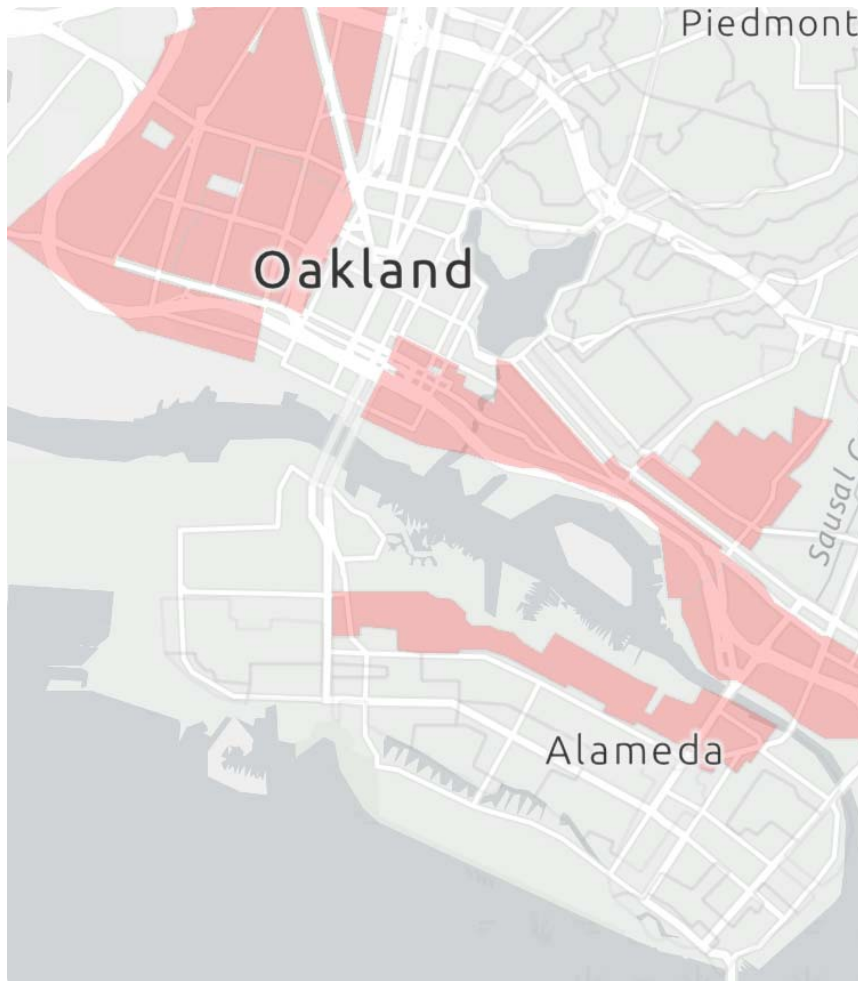
- Block- group level data, many indicators (all from the CARP tool)
- Integrates several data sources
 - Social Vulnerability- ACS data
 - Contamination Vulnerability
 - Exposure to Sea Rise
 - Cal Enviro Screen
 - MTC/ABAG Equity Priority Communities
 - UC Berkeley Displacement Project

Gaps

- Can't filter by one indicator → Made a separate GIS map to enable this decision-making



Supplemental Maps



HOLC 1937 Redlining Map

Benefits

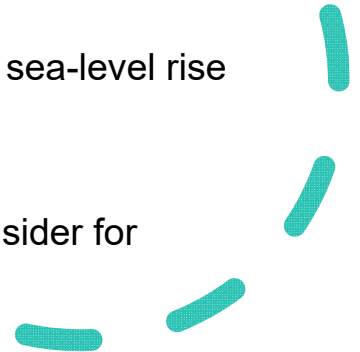
- Identifies areas that historically have received less investment due to structural racism

Gaps & Challenges

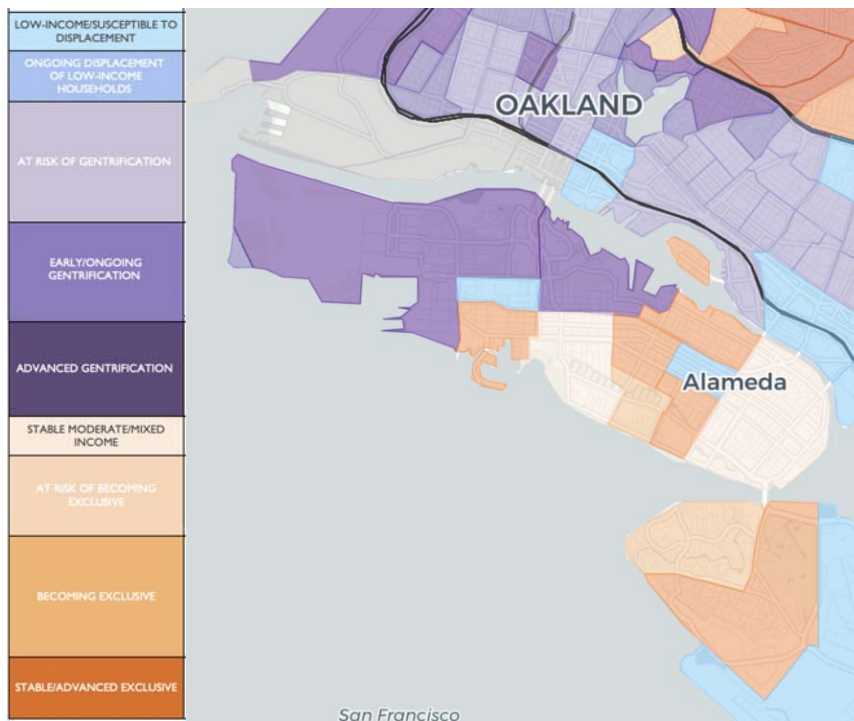
- Lack of alignment to some degree with areas currently identified as socially vulnerable by other maps
- Less vulnerability through a sea-level rise lens

Recommendation

- May be helpful frame to consider for infrastructure planning



UC Berkeley Displacement Project



Benefits

- Identifies characteristics of census blocks according to likelihood for low-income residents to be displaced due to housing costs and neighborhood change

Gaps & Challenges

- Primarily looking at housing costs, demographic change but does not provide granular detail on needs of those present in a given tract

Recommendation

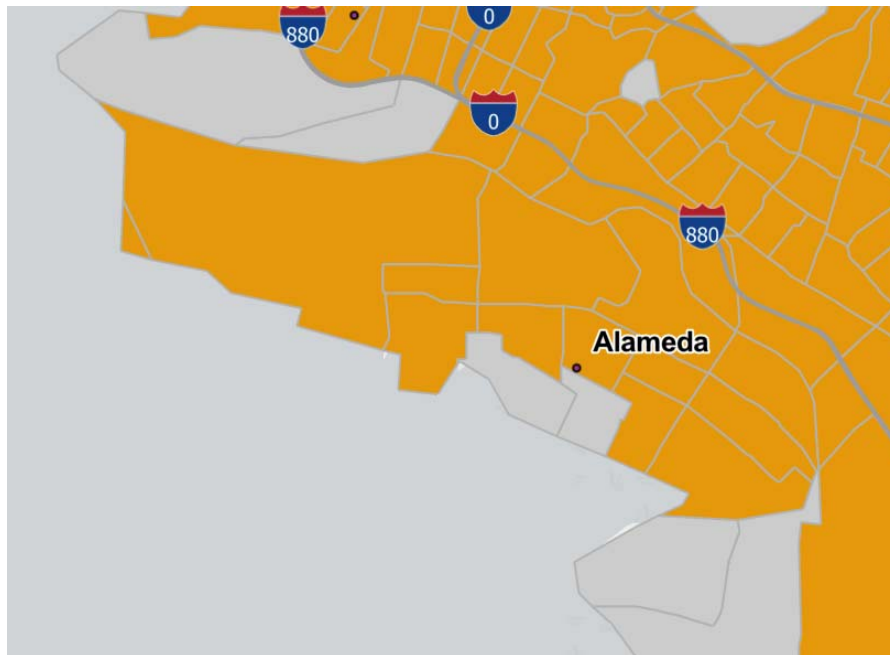
- Use as additional source to BCDC to consider impact of infrastructure projects & guide community engagement



Justice 40 initiative

 **JUSTICE**
40

DOT Justice 40- Transportation Disadvantaged Census Tracts (Historically Disadvantaged Communities)



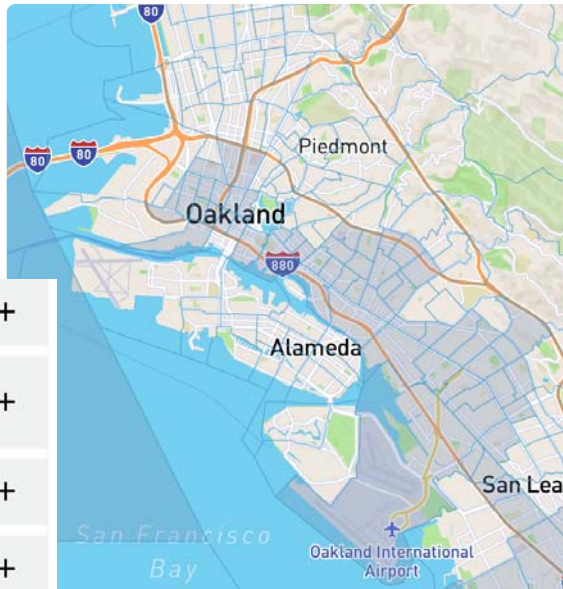
Benefits

- Based off national data sets

Gaps & Challenges

- Beta mode
- Hard to prioritize within city, tract level
- May be politically vulnerable

Climate change	+
Clean energy and energy efficiency	+
Clean transit	+
Sustainable housing	+
Legacy pollution	+
Clean water and waste infrastructure	+
Health burdens	+
Workforce development	+



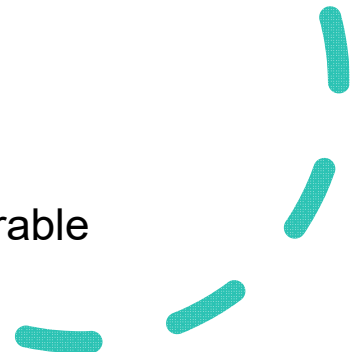
Council on Environmental Quality (CEQ)- Climate and Economic Justice Screening Tool

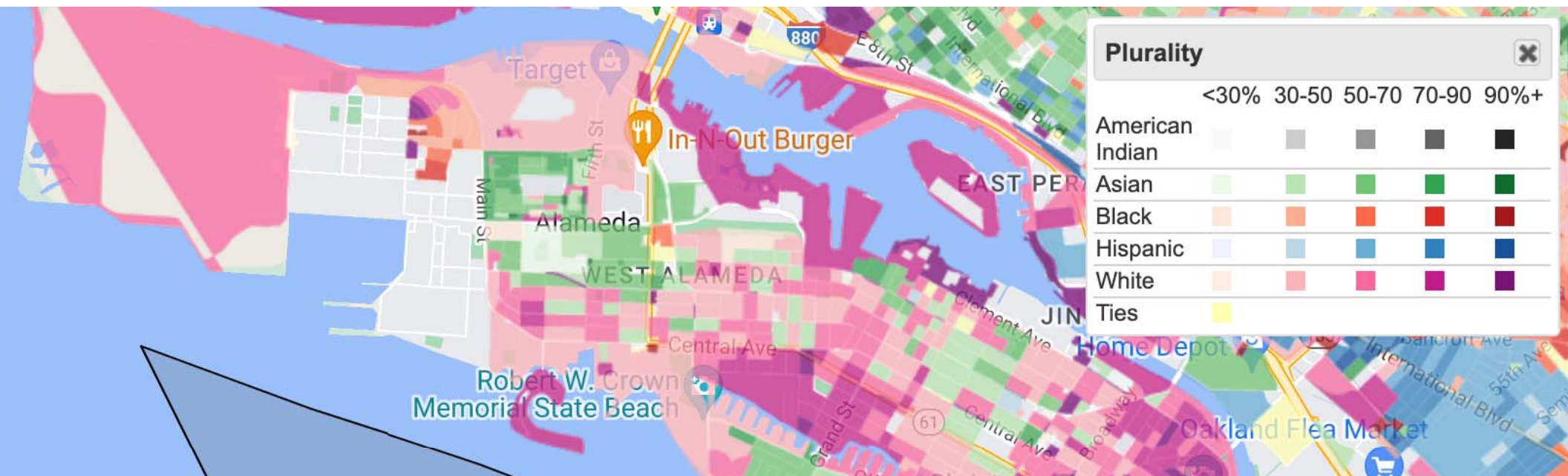
Benefits

- Unique indicators
- Based off national data sets

Gaps & Challenges

- Beta mode
- National percentiles
- May be politically vulnerable





**Energy Justice
Network**

Map Overlay

Purple: BCDC

Blue: MTC

Red: Formerly redlined areas with
“Hazardous Rating”

*Note: Bay Farm Island was not included in
screenshot as no areas were identified as
high-need.*





Other Recommendation

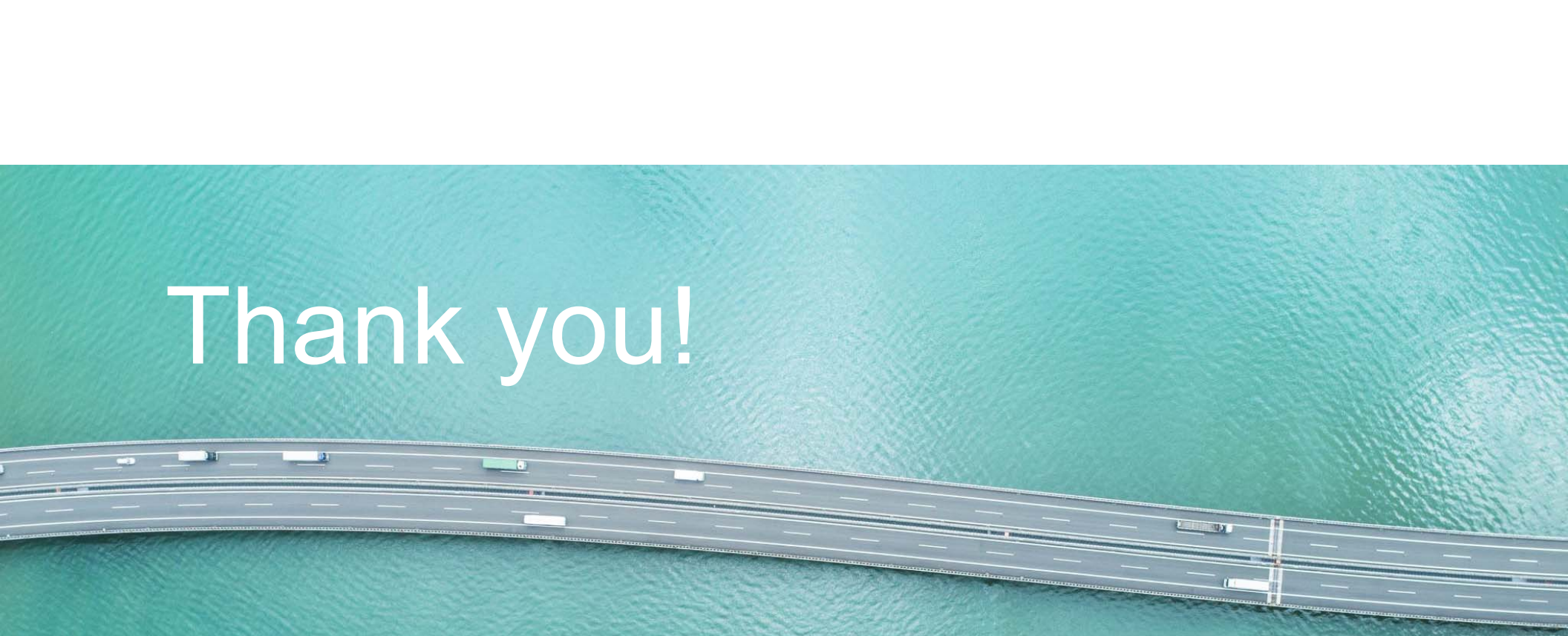
Change “**Socially Vulnerable Areas**” to “**Equity Priority Areas**”

- Empowering
- Shows action orientation aligned with values
- In line with other cities in the region that are changing to this terminology



Questions



An aerial photograph of a multi-lane highway bridge spanning a body of water. The water is a vibrant turquoise color. The bridge has several lanes in each direction, with white lane markings. Several vehicles, including cars and trucks, are visible on the bridge. The text "Thank you!" is overlaid in white on the upper left portion of the image.

Thank you!

Feel free to reach out with any questions
at emilyeveclaytonwood@berkeley.edu



Additional Resources

- [CARP Map & Literature Review](#) → See Appendix G p 55-67
- [Overlay Map](#)
 - Best to open in Google Chrome, may not work on Firefox
- [BCDC Community Vulnerability Mapping](#)
 - [Methodology](#) and [Detailed Appendix](#)
- [BCDC Indicators Map](#)
 - Need to turn layers on and off on the left-hand side to display each indicator, best to open in Google Chrome, may not work on Firefox
- [MTC Equity Priority Communities Map](#)
- [Cal Enviro Screen 4.0 Map](#)
- [Justice 40 Initiative- DOT](#)
- [US DOT Transportation Disadvantaged Census Tracts](#)
- [Climate and Economic Justice Screening Tool](#)
- [UC Berkeley Gentrification & Displacement Project Map](#)
- [HOLC 1937 Redlining Map](#) (see Oakland)
- [San Francisco's Approach to Equity Mapping](#)
- [Oakland Equity Toolkit](#)

