

# Oakland General Plan Update 2045

Safety Element  
Discussion Group



**OAKLAND2045**  
**GENERAL PLAN**

**June 30, 2022**

# Agenda

- Timeline
- Safety Requirements and Background
  - Emergency Preparedness and Response
  - Seismic and Geologic Hazards
  - Flooding and Sea Level Rise
  - Wildfire
  - Humanmade Hazards
  - Climate Change Adaptation and Resilience
    - (for continued discussion on 7/8)
- Discussion
- Close



# General Plan Background

# Elements required to be updated by early 2023



**HOUSING**  
Adopted 2014



**SAFETY**  
Adopted 2004  
*(Last amended 2021)*

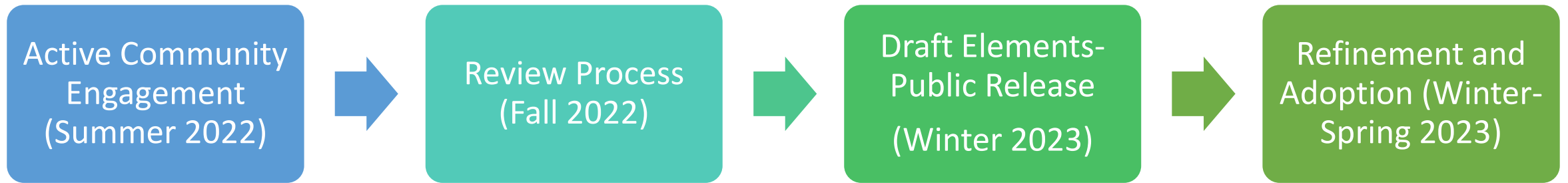


**ENVIRONMENTAL  
JUSTICE**  
*\*New Requirement\**  
May be stand-alone  
or integrated



**INDUSTRIAL  
LANDS POLICY**  
*\*New\**

# Element Development Process





# Safety

# SB 379 Requirements

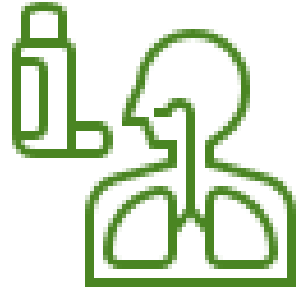
- Oakland faces many hazards, including:
  - **Environmental: wildfire, earthquakes/seismic hazards, flooding, extreme weather, climate change**
  - **Humanmade: hazardous materials**
- Certain populations may be more vulnerable to hazards



Infants and youth



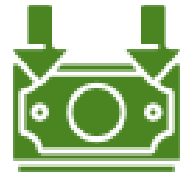
Communities of color



Pre-existing conditions



Older populations or mobility impairments



Low-income communities



People who work outside



No vehicle/accessible transit

# Requirements

Topics	Requirements
Seismic and Geologic Hazards	<ul style="list-style-type: none"><li>• Slope instability</li><li>• Policies and mapping related to seismic hazards (surface rupture, ground shaking, ground failure, tsunami, seiche, dam failure, subsidence, liquefaction, etc.)</li></ul>
Emergency Preparedness	<ul style="list-style-type: none"><li>• Evacuation routes</li><li>• Peakload water supply requirements</li><li>• Minimum road widths and clearances around structures</li><li>• Essential public facilities and their location</li><li>• Cooperative relationships with relevant public agencies</li></ul>
Flooding	<ul style="list-style-type: none"><li>• Mapped flood hazard zones and FEMA maps</li><li>• Appropriate mitigations for new development in hazard areas</li></ul>
Wildland and Urban Fires	<ul style="list-style-type: none"><li>• Fire Hazard Severity Zone mapping, historical fire data</li><li>• Avoid and minimize fire risk for new development</li></ul>
Climate Change Adaptation and Resilience (SB 379)	<ul style="list-style-type: none"><li>• Cal-Adapt information- risk of climate change, including assets ,resources, and populations</li><li>• Set of adaptation and resilience goals, policies and objectives based on results</li></ul>



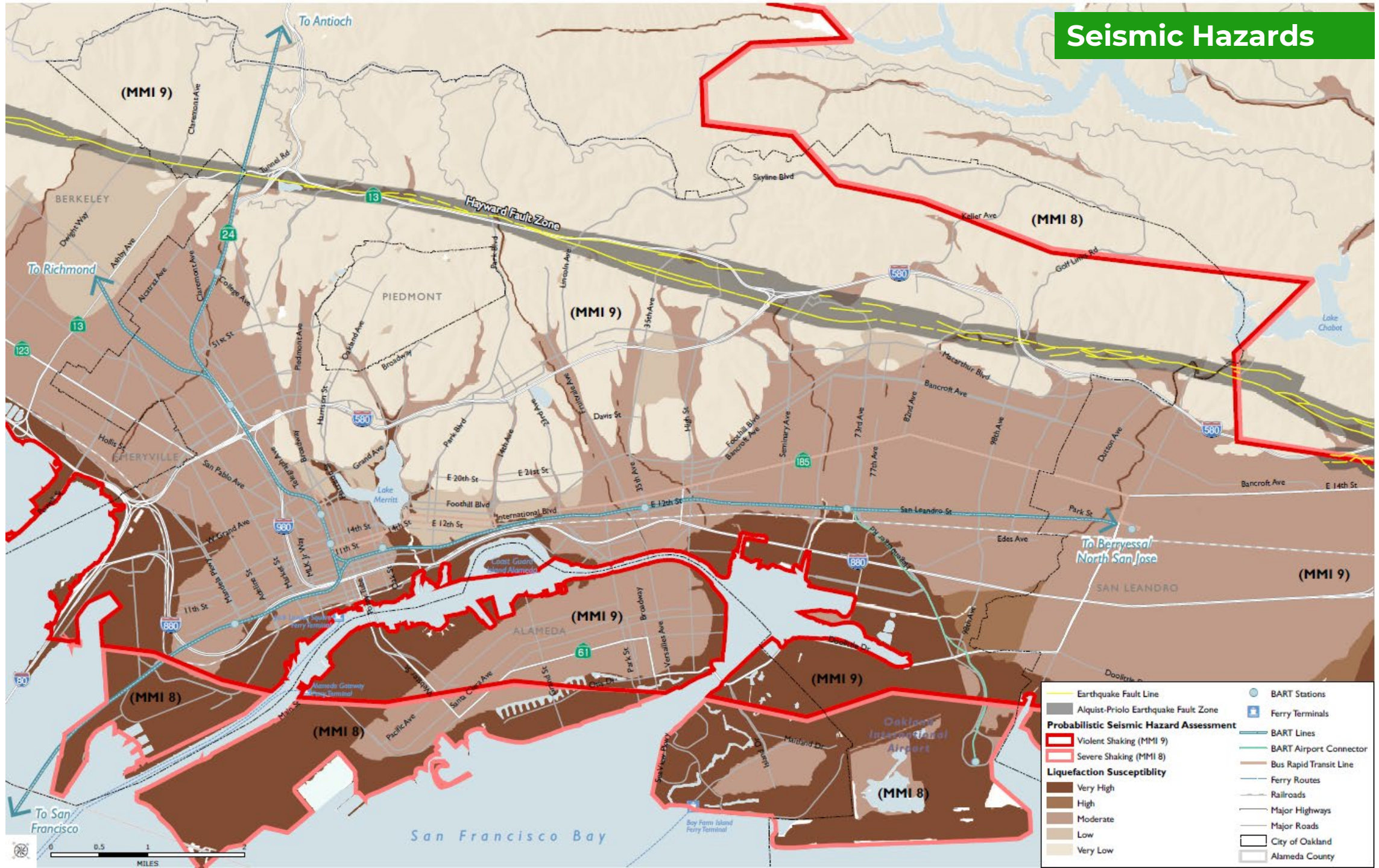
# Other Topics

Topics	
Hazardous Materials	<ul style="list-style-type: none"><li>• Materials spills and transport</li><li>• Cleanup</li></ul>
Public Safety	<p>Crime Prevention through Environmental Design (CPTED)</p> <ul style="list-style-type: none"><li>• Other topics cross-referenced with other elements. For example:<ul style="list-style-type: none"><li>• Collisions and safer streets (EJ and LUTE elements)</li><li>• Community gathering places (LUTE, OSCAR, EJ)</li></ul></li><li>• Interdepartmental/community collaboration to address community safety</li></ul>



# **Hazards and Safety Assessment: Initial Findings**

# Seismic Hazards





# Seismic Population Impacts

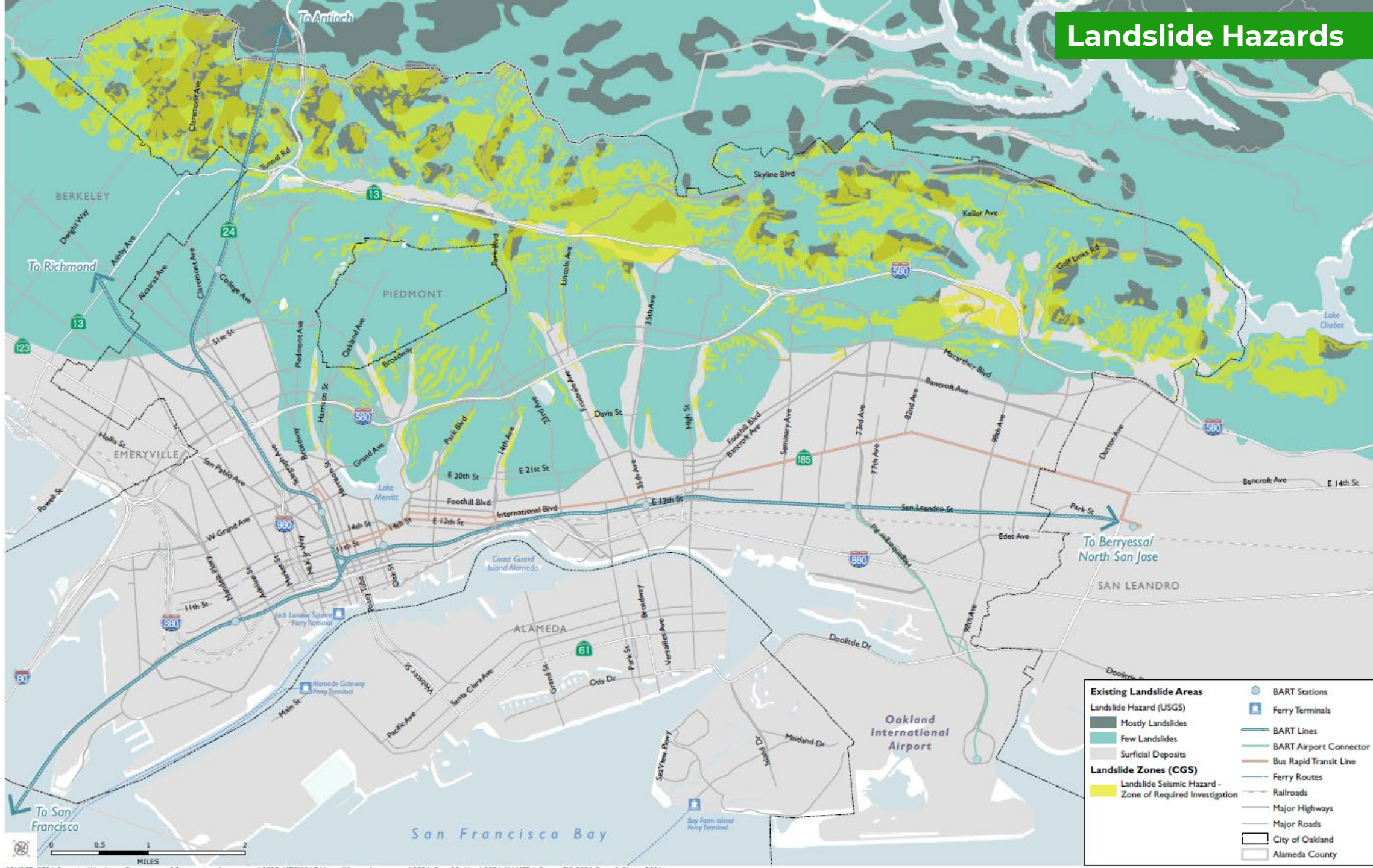
## Most of Oakland is at risk for violent shaking.

- Aging housing stock and public infrastructure impact residents in **low-income** areas.
- Soft-story apartment buildings are at risk of structural damage or even collapse from an earthquake; they account for approximately **22,000 housing units** in Oakland.

## Liquefaction susceptibility is generally highest in the low-lying coastal areas.

- **Lower-income** areas and **communities of color** predominantly live in census tracts that are more likely to be affected by liquefaction.

# Landslide Hazards



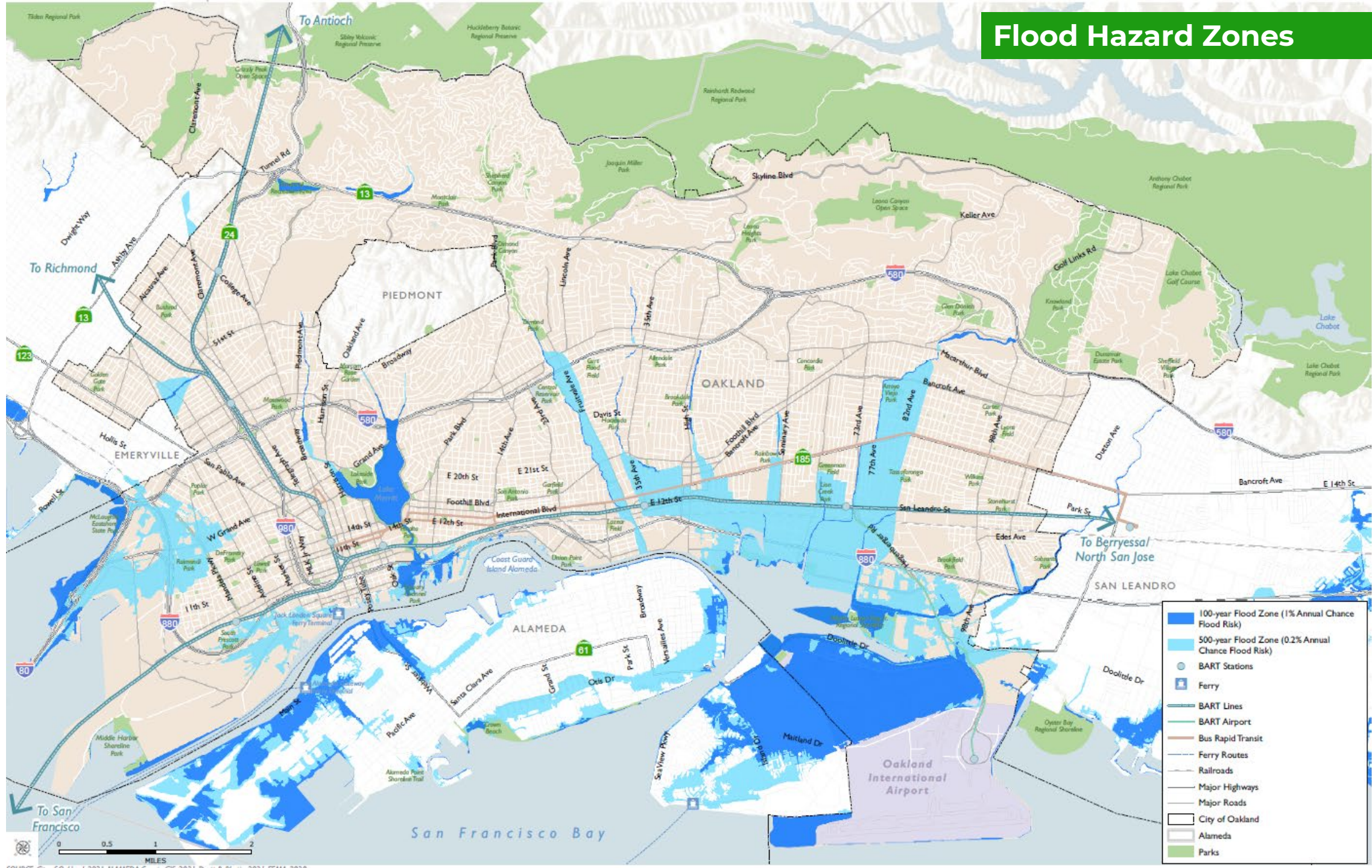
# Landslide Population Impacts

## Landslide threats are most likely to impact the Oakland Hills.

- Higher-income and white residents make up the majority of the population in tracts that are more likely to be at risk of landslides and ground shaking.
- Of the total population vulnerable to landslide threats, 40% were households making less than \$50,000 annually, 22% were black, and 18% were Hispanic or Latino.

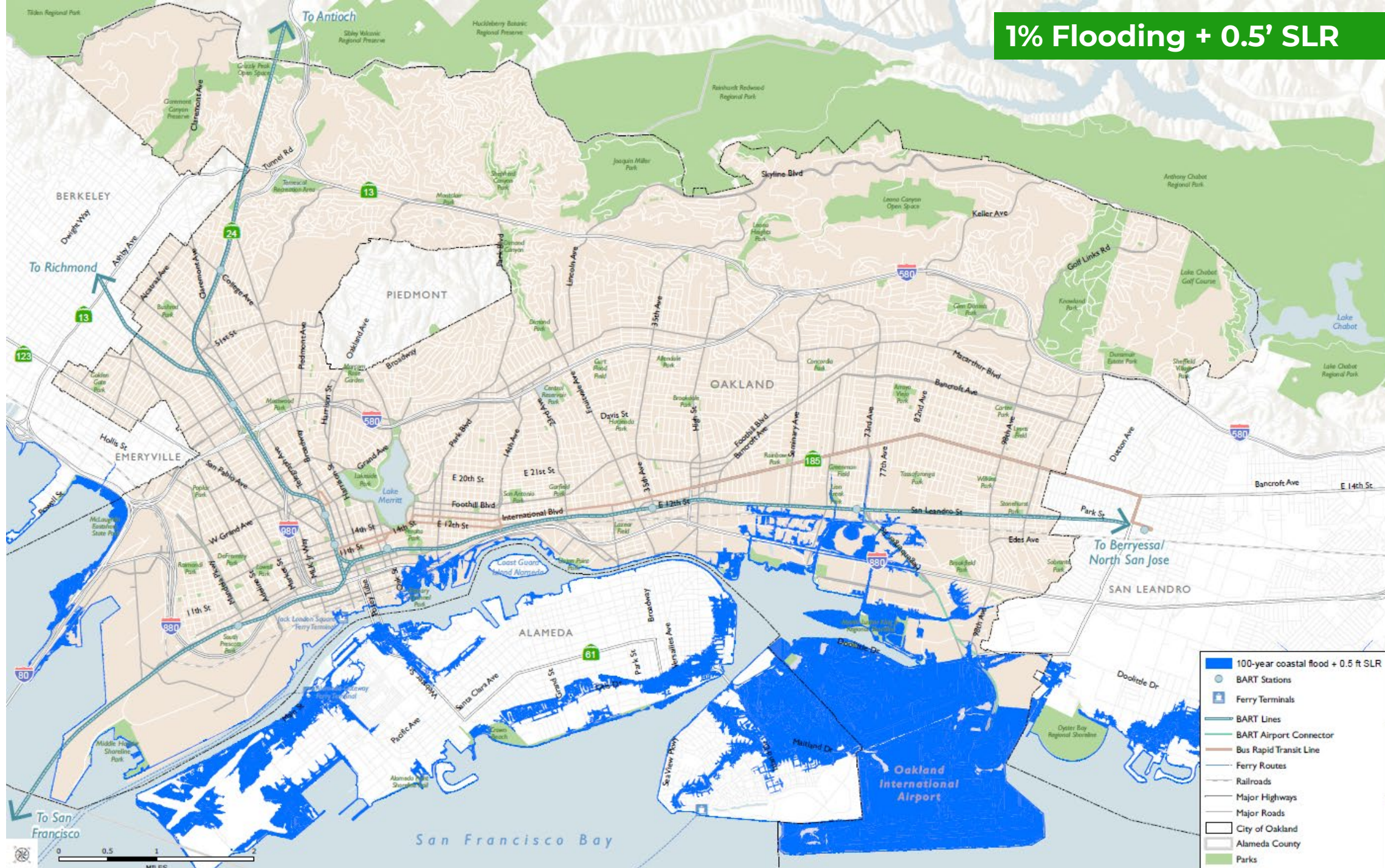


# Flood Hazard Zones





# 1% Flooding + 0.5' SLR





# 1% Flooding + 5.5' SLR



# Flood Population Impacts

## Communities throughout Oakland face emergency and disaster related logistical barriers.

- Some communities lack access to preparedness information, transportation options, healthcare, and insurance, which increase their vulnerability to the adverse impacts of a flood event.

## Flooding susceptibility is generally highest in the low-lying and coastal areas, such as the Coliseum and West Oakland neighborhood.

- Lower-income areas and communities of color predominantly live in census tracts that are more likely to be affected by flooding.
- There is a moderate concentration of people living with a disability (20-30 percent) in some tracts in Downtown Oakland, including Chinatown, plus a tract in West Oakland which are susceptible to flooding.



# SLR Vulnerability

Figure 12: Critical Community Facilities and SLR (Western Extent)

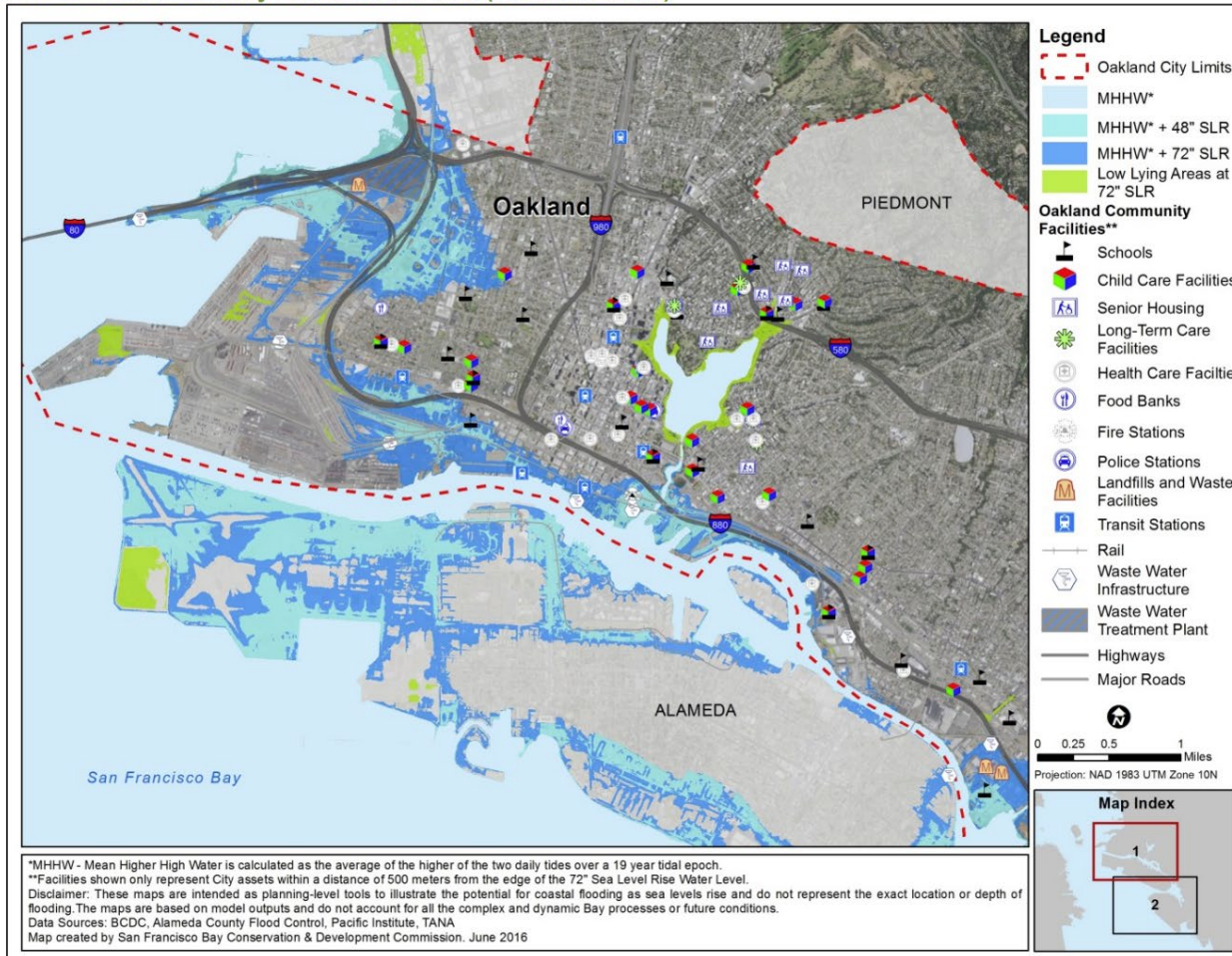
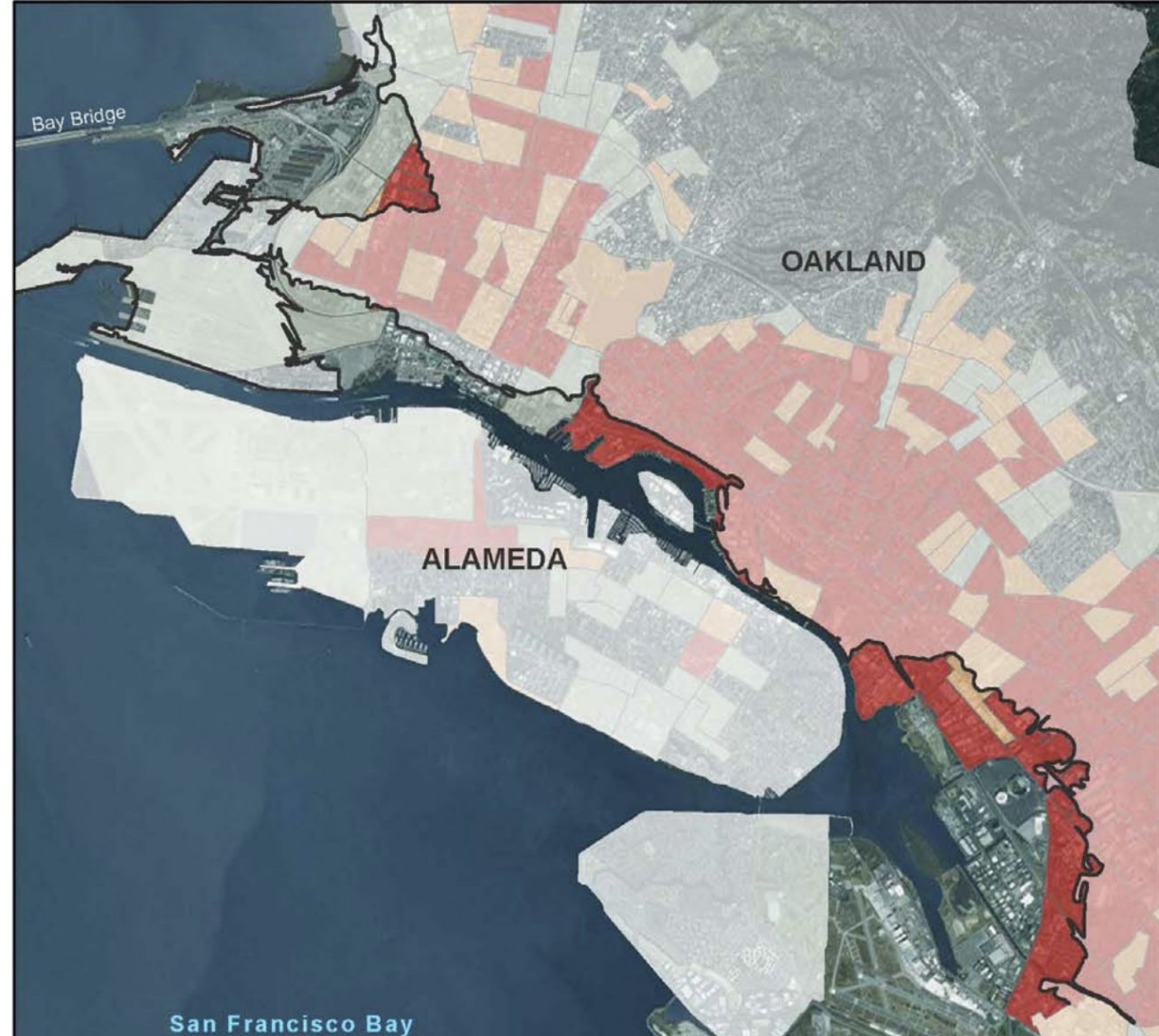
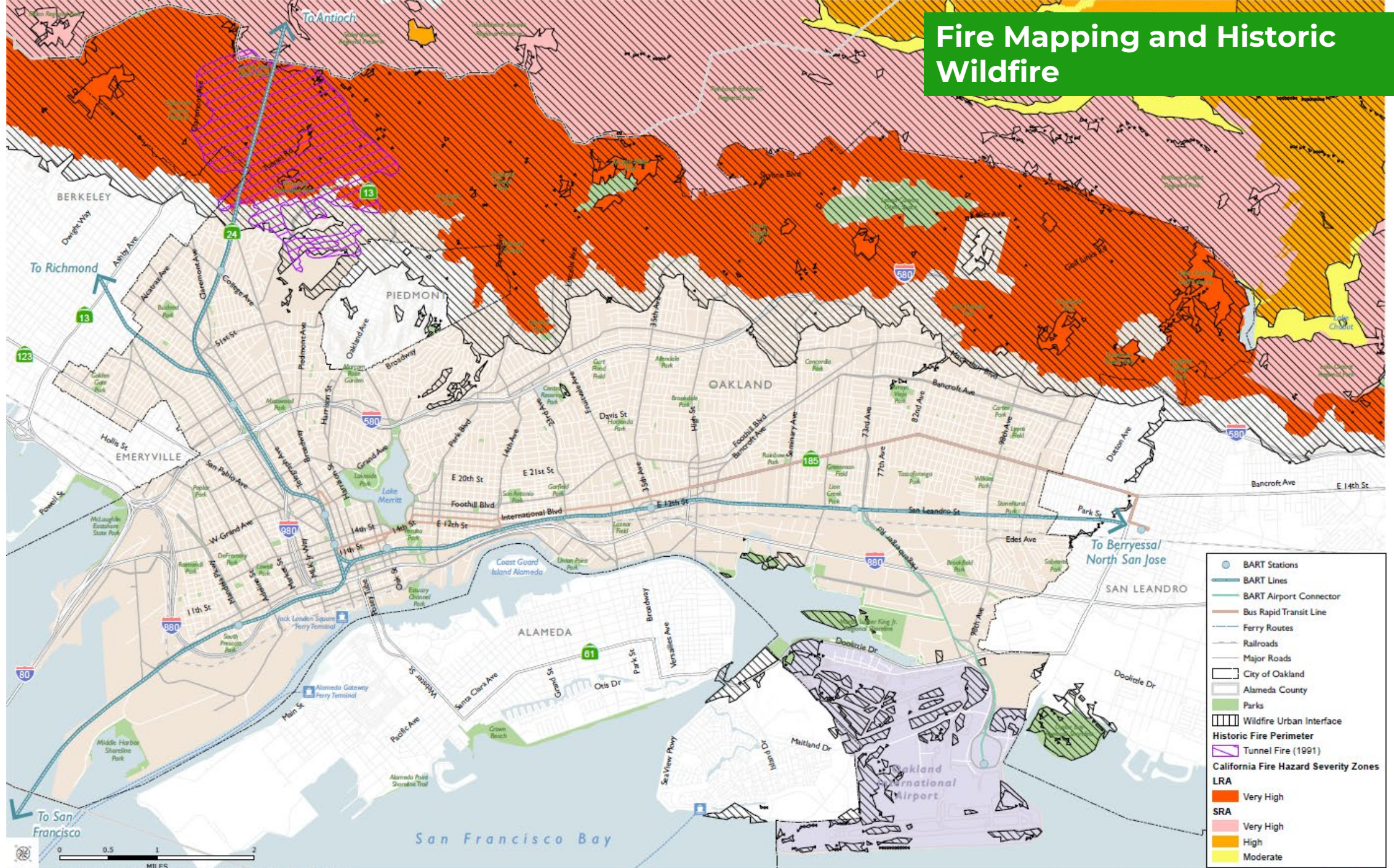


Figure 14: Indicators of Community Vulnerability in Oakland





# Fire Mapping and Historic Wildfire





# Wildfire Population Impacts

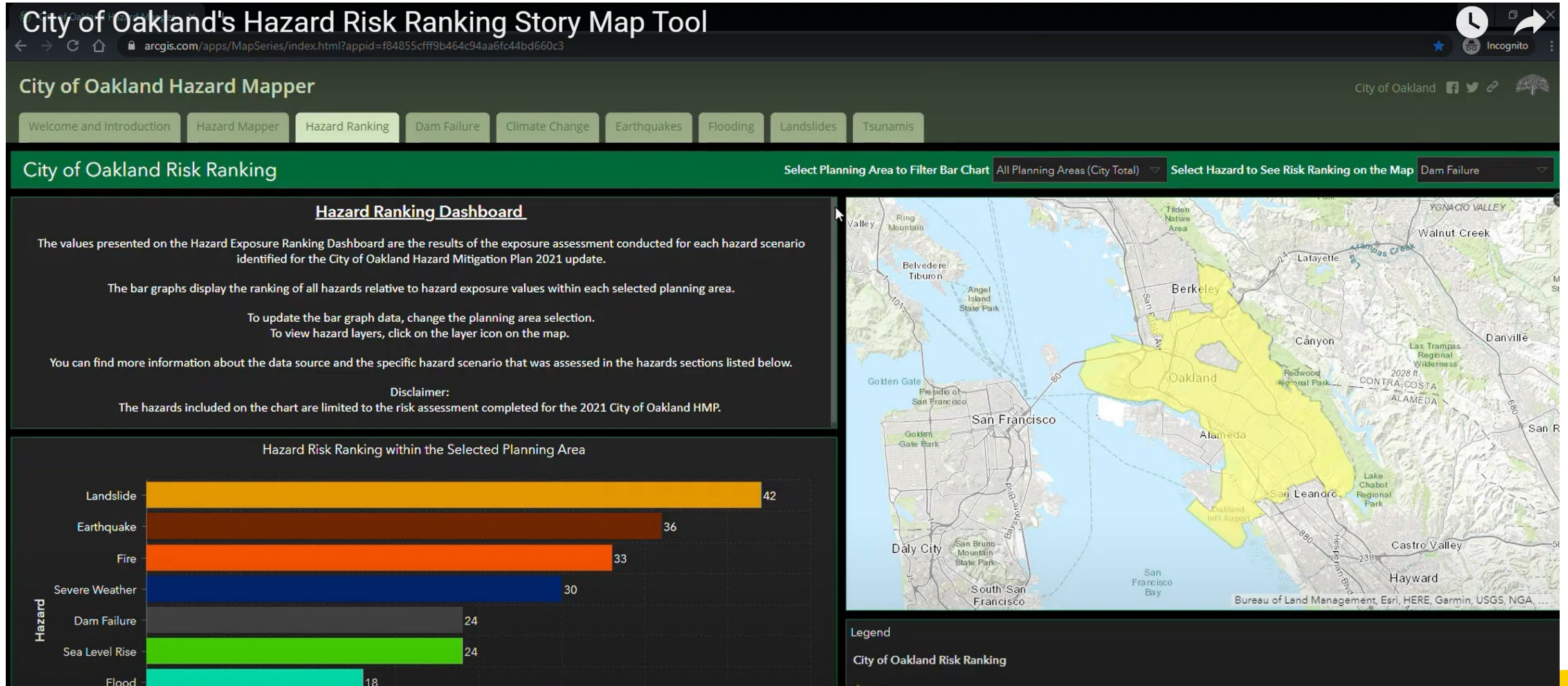
## Smoke from wildfires occurs throughout the greater region.

- Unhoused populations, outdoor workers, residents who live in poorly insulated or ventilated homes, and people who are already burdened by air pollution are increasingly at risk.
- Children's ongoing lung development, airway size, level of physical activity, and body weight increase their susceptibility to respiratory hazards including ozone and wildfire smoke.

## Wildfire threats are most likely to impact the Oakland Hills.

- Census tracts are predominantly higher-income with greater concentrations of white residents.
- Some tracts at the northeastern edge have substantial concentrations of Black and Hispanic/Latinx populations, with slightly lower incomes.

# OAKLAND'S LHMP



Select the planning area of interest on the filter bar on the top right

# Discussion

# Discussion

- **Key Issues.** What are the key safety issues your department or organization addresses?
  - Are there any known concerns or deficiencies in service, distribution of emergency facilities, etc.?
  - What is working well? What existing policies and practices do you think are working well?
- **Gaps.** Where are policy gaps related to safety issues?
  - What policies or strategies would you recommend the City explore to address these gaps?
- **Racial Equity.** How can the City more intentionally address racial equity or needs of vulnerable communities through these policies?
  - How can the City promote equitable emergency response, resiliency, and recovery?

# Next Steps

Safety Focus Group #2 on July 8, 3-4:30pm

- Climate Change Adaptation and Resilience
- Policy Discussion



Visit the general Plan Update website for more information and to sign-up for regular updates:

[www.oaklandca.gov/topics/general-plan-update](http://www.oaklandca.gov/topics/general-plan-update)