

Youth Participatory Action Research



01

What is YPAR

02

YPAR 2019

03

YPAR 2020

04

YPAR 2021

05

Current Project

06

What's Next



Who we are:

Youth Participatory Action Research (YPAR) Student Interns of



University of California
San Francisco



In collaboration with:



YPAR 2019




YPAR 2019 Mural



YPAR 2020

Structured Social Observation (SSO)

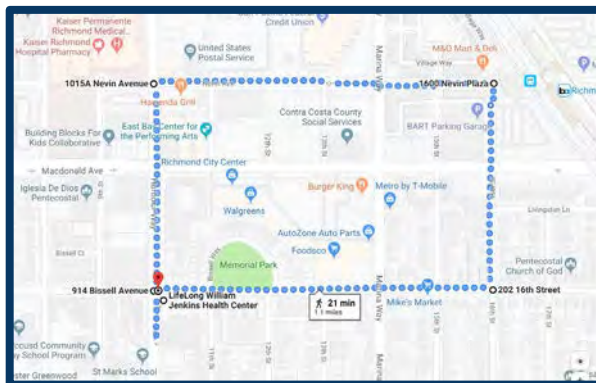
INSTITUTIONAL LEVEL	
Commercial or industrial properties that have banners/grates on doors or windows	_____
Commercial or industrial properties that appear burned out, boarded up, or abandoned	_____
Commercial or industrial properties that are very poorly maintained, but occupied	_____
Businesses that feels unsafe or scary; no lighting of parking lot	_____
Check cashing	_____

06/15/2020 3:37pm 

Confidential Page 1

Liquor and/or tobacco sales	_____
Adult entertainment	_____
Construction (street, commercial, industrial)	_____
Auto repairs/other businesses with visible dirt or garbage piles	_____

INDICATORS OF ORDER/ASSETS	
Safe place to walk	_____
Residential properties (house, yard) that are well maintained	_____
Street lights	_____
Sidewalks	_____
Empty lot (well-maintained)	_____



YPAR 2021



YPAR 2021 Students presenting project



YPAR 2021

Path to Clean Air Mini-Grant



YPAR 2022



Online 10-minute survey

TOGETHER WE CAN IMPROVE RICHMOND

We are asking Richmond adults, teenagers, and community based organizations in Richmond to complete a 10-minute survey to help us find solutions that improve environmental issues and community health and wellness in Richmond, CA.

To complete the survey:
Go to: <https://tinyurl.com/3v9eudvc>
or scan the QR code

Get a \$5 e-gift card once you're done

Then share the survey with 5 of your friends (optional)



(About us) We are Richmond high-school students in the YPAR (Youth Participatory Action Research) program with UCSF. We created this survey and by the end of our program in August we will present the results and our recommendations to city leaders, community members, and community-based organizations.



YPAR—What Comes Next?





Thanks!

Do you have any
questions?



CalEnviroScreen 4.0

Office of Environmental Health Hazard
Assessment

Laura August, Research Scientist
BAAQMD Board Presentation



CalEnviroScreen 4.0

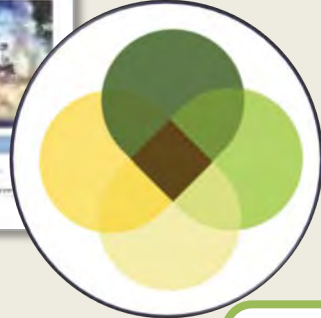
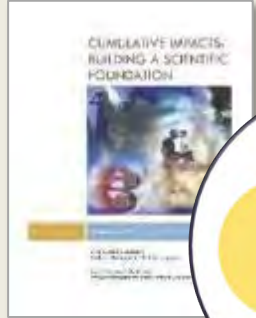


- Environmental Justice Screening Method and Tool: Cumulative analysis of relative burdens in California communities from pollution and population vulnerability
- Geographic focus: 21 indicators combined into a single score at the census tract scale
- Identifies California communities that are most affected by many sources of pollution, and where people are especially vulnerable to the effects of pollution
- Version 4.0 was released in 2021



California EJ Statutes

1999-2000



Cumulative Impacts Work Group

2008-2013



CalEnviroScreen Public Versions 1.0 to 4.0

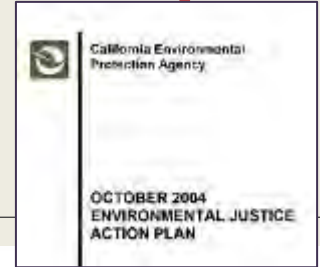
2013-2022

2004

Advisory Committee Recommendations & CalEPA EJ Action Plan

2010-2021

Workshops and Consultation Processes



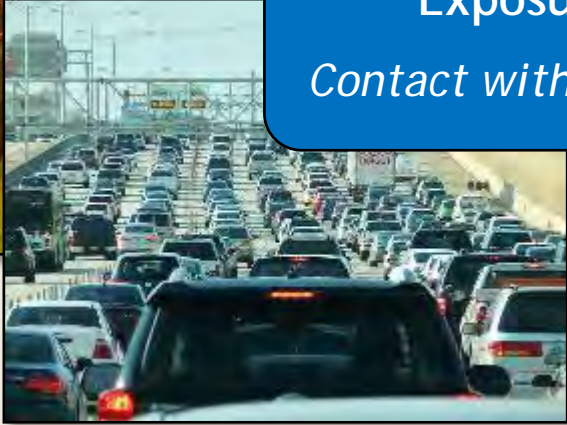
What are cumulative impacts?

“Cumulative impacts means exposures, public health or environmental effects from the combined emissions and discharges, in a geographic area, including environmental pollution from all sources, whether single or multi-media, routinely, accidentally, or otherwise released. Impacts will take into account sensitive populations and socioeconomic factors, where applicable and to the extent data are available.”

CalEPA Interagency Working Group on Environmental Justice (2005)



Exposures:
Contact with pollution



Environmental Effects:
Adverse environmental conditions caused by pollutants



CalEnviroScreen Components



Sensitive Populations:
Populations with biological traits or health status that may magnify the effects of pollutant exposures
























Socioeconomic Factors:
Community characteristics that result in increased vulnerability to pollutants

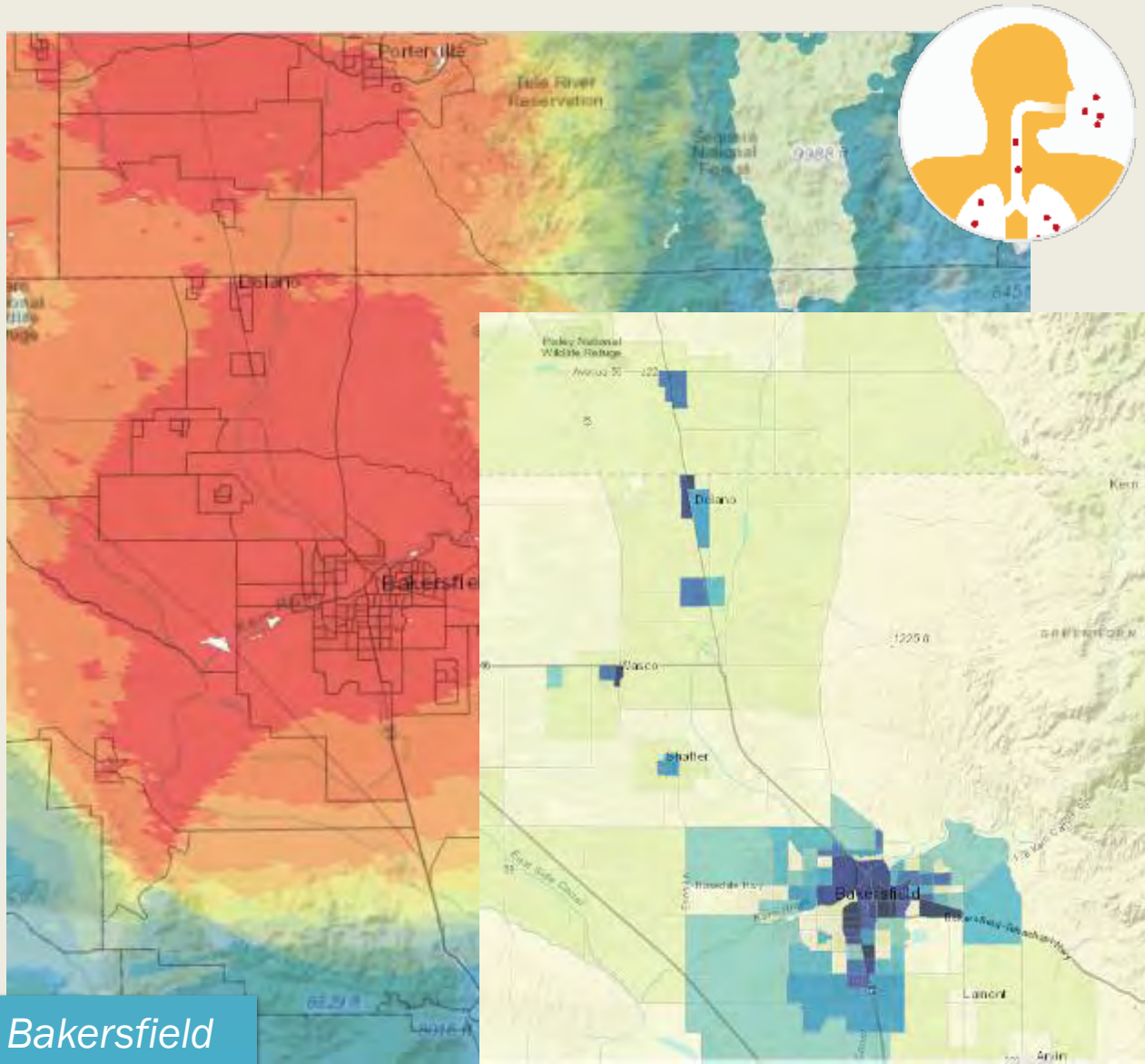




CalEnviroScreen 4.0 Indicators

Pollution Burden		Population Characteristics	
Exposures	Environmental Effects	Sensitive Populations	Socioeconomic Factors
 Ozone  PM2.5  Diesel Particulate Matter  Drinking Water Contaminants  Toxic Releases from Facilities  Traffic  Children's Lead Risk from Housing  Pesticide Use	 Solid Waste Sites and Facilities  Cleanup Sites  Groundwater Threats  Impaired Water Bodies  Hazardous Waste Generators and Facilities	 Asthma  Cardiovascular Disease  Low Birth Weight Infants	 Educational Attainment  Housing Burden  Linguistic Isolation  Poverty  Unemployment

New



Bakersfield
Region

Indicator Example Particulate Matter 2.5

- Indicator represents the annual mean PM2.5 concentration for 2015-2017 by census tract
- Satellite data used in combination with monitor data
- PM2.5 estimates generated from a 1-km square grid layer,
- Census tract results calculated by taking the average of each grid cell value within the tract

CalEnviroScreen 4.0 Indicator Major Updates



New Indicator: Children's Lead Risk from Housing



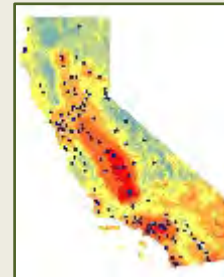
Incorporation of additional pesticides in the Pesticide Use indicator



Addition of dairies and feedlots to the Groundwater Threats indicator



Addition of chrome metal plating facilities to the Hazardous Waste indicator



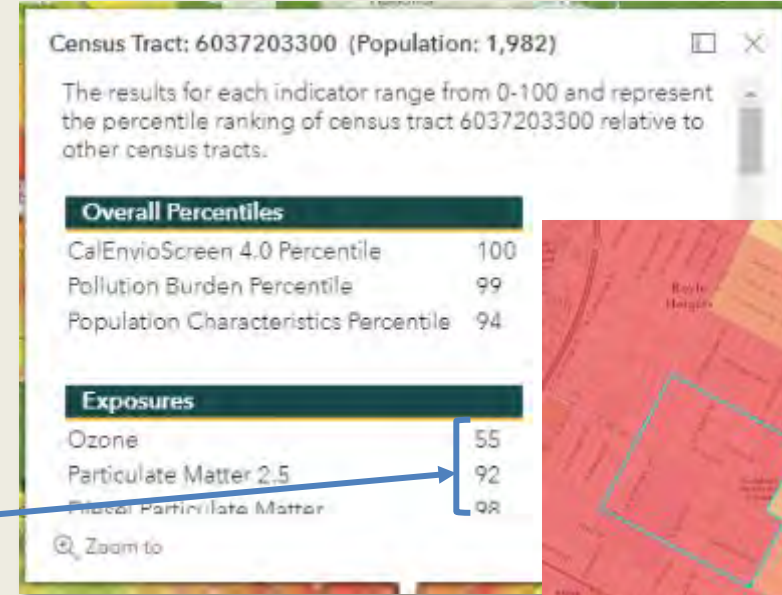
Improvements in the methodology for PM 2.5 and Diesel PM indicators



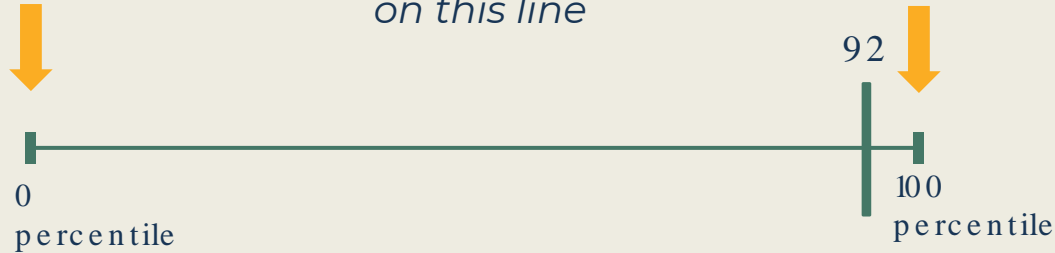
Updated contaminants and service boundaries for the Drinking Water indicator

Indicator Scoring

- Each census tract's raw indicator score is assigned a percentile value based on where it falls among values state-wide
- Percentiles represent relative scores for each of the 21 indicators



All ~8,000 tracts in California fall somewhere on this line



For example, this Los Angeles area census tract is in the 92nd percentile for PM2.5, meaning its value is higher than 92% of all other census tracts in California.

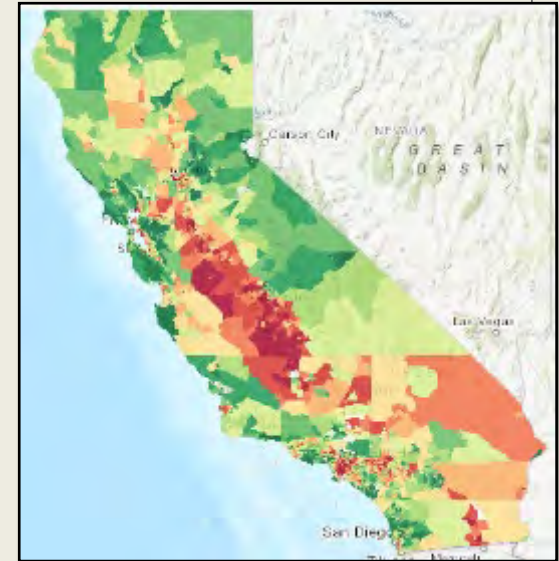
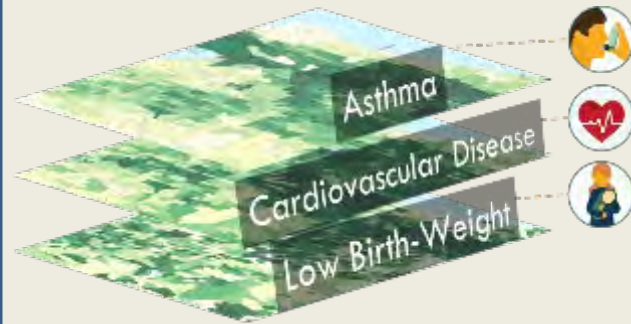
CalEnviroScreen Model



Pollution Burden



Population Characteristics



Scoring Calculation Example

	Pollution Burden		Population Characteristics	
	Exposure Indicators	Environmental Effects Indicators*	Sensitive Population Indicators	Socioeconomic Factor Indicators
Component Score	79.67	$(0.5 \times 45.95) = 22.98$	96.51	79.78
Average of Component Score	$102.65 \div (1 + 0.5) = 68.43$ Pollution Burden is calculated as the average of its two component scores, with the Environmental Effects component half-weighted.		$176.29 \div 2 = 88.15$ Population Characteristics is calculated as the average of its two component scores.	
Scaled Component Scores (Range 0-10)	$(68.43 \div 81.9^{**}) \times 10 = 8.36$ The Pollution Burden percentile is scaled by the statewide maximum Pollution Burden scores.		$(88.15 \div 96.4^{***}) \times 10 = 9.14$ The Population Characteristics percentile is scaled by the statewide maximum Population Characteristics scores.	
CalEnviroScreen Score	$8.36 \times 9.14 = 76.4$ A score of 76.4 puts this census tract in the 95-100 percentile or top 5% of all CalEnviroScreen scores statewide.			

From page 28 of report



San Francisco Bay Area

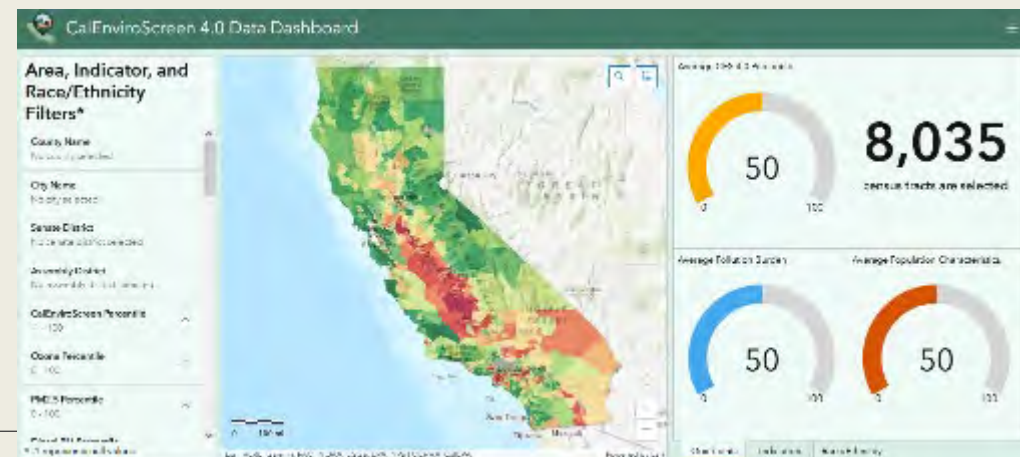
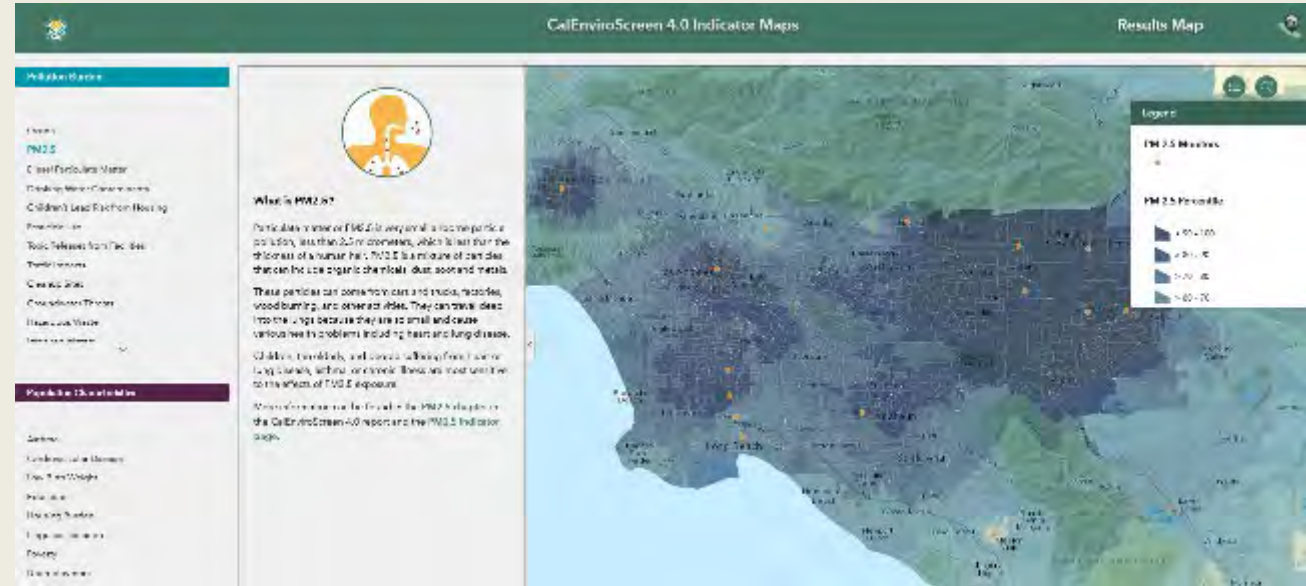
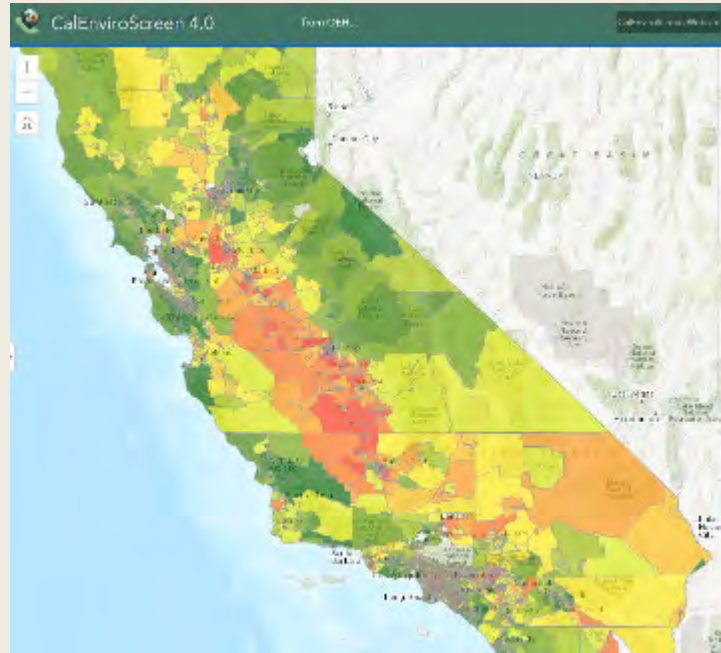


Greater Los Angeles Area

CalEnviroScreen 4.0 Results

- Scores represent a relative ranking of the burden of combined pollution and population vulnerability.
- Disproportionate high scores in Greater Los Angeles Area and the San Joaquin Valley.
- Broad similarity across versions of CalEnviroScreen.

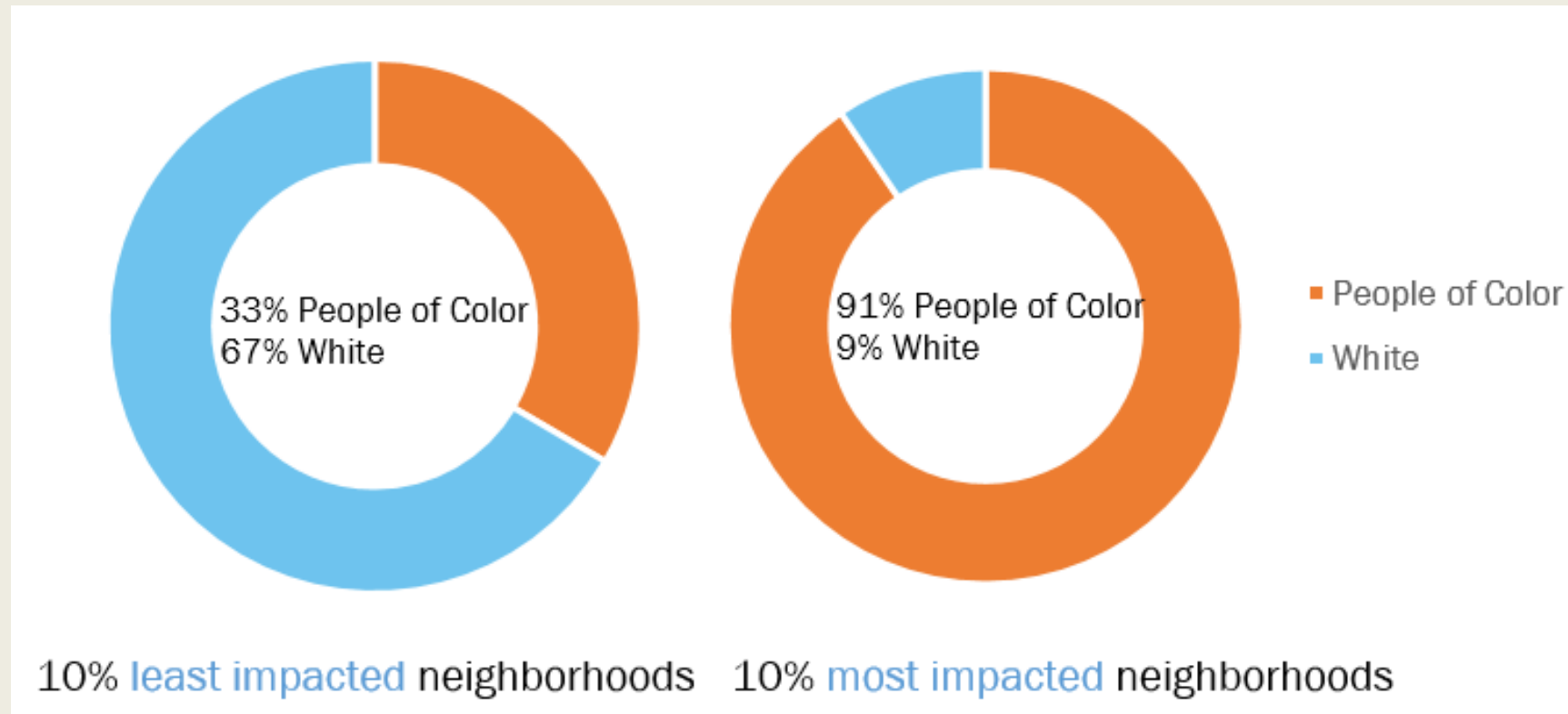
CalEnviroScreen Interactive Products



Inequitable Distribution of Burden

CalEnviroScreen 4.0 Data

Race in the least and most impacted census tracts by CalEnviroScreen 4.0 decile

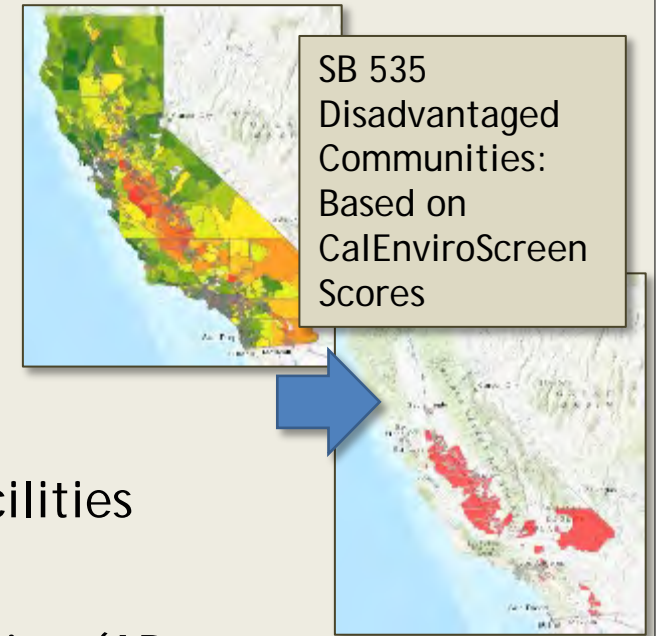


Story map and report: <https://storymaps.arcgis.com/stories/f555670d30a942e4b46b18293e2795a7>

Uses of CalEnviroScreen

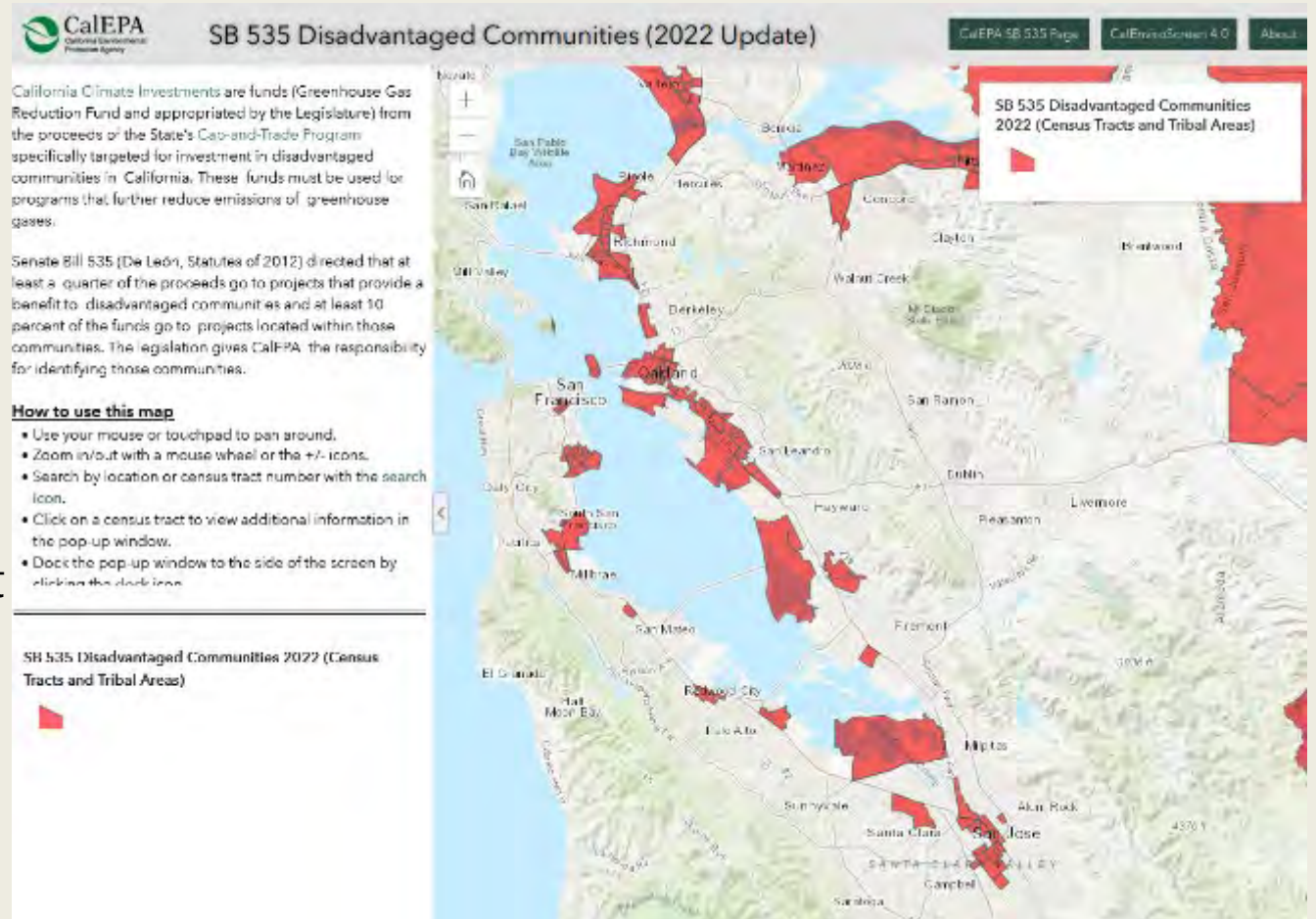
■ In California Government Policy

- To designate disadvantaged communities (DACs)* for investments from Greenhouse Gas Reduction Fund (SB535) *more on next slides*
- To support identification of enforcement priorities
- To consider cumulative impacts in DTSC permitting hazardous waste facilities (SB 673)
- To support CARB's identification of communities for air pollution reduction (AB 617)
- Public Utilities Commission and Energy Commission: funding prioritization tool
- CA Natural Resources Agency: equity decision support layer
- Local uses:
 - EJ element now required in city general plans (SB 1000)
 - BAAQMD use in definitions of Overburdened Community (New Source Review of Toxic Air Contaminants) and Historically Underserved Communities (Clean Air Centers)

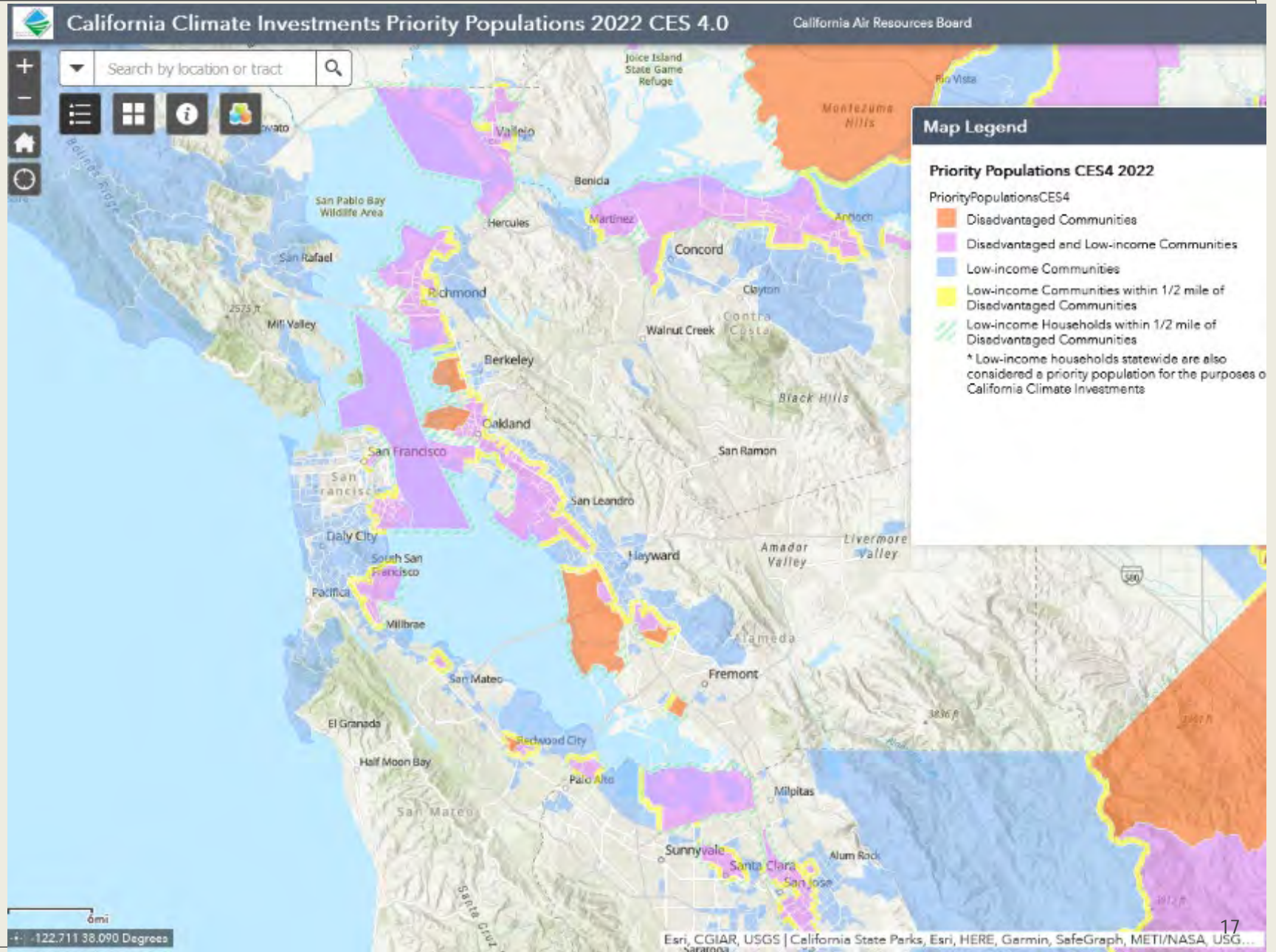


SB 535 Disadvantaged Communities

- Top 25 percent of overall scores in CalEnviroScreen 4.0
- Top 5 percent of CalEnviroScreen 4.0 cumulative pollution burden scores (but with no scores in CalEnviroScreen 4.0)
- 2017 DAC designated tracts, regardless of their scores in CalEnviroScreen 4.0
- Lands under the control of federally recognized tribes.



Priority Populations (SB535 DACs + AB1550 Low- Income Communities)



California Climate Investments

CUMULATIVE OUTCOMES



\$18.3 B APPROPRIATED



\$10.5 B IMPLEMENTED



76.0 MMTCO₂E REDUCED



50% of funding benefiting priority populations (\$5.2 billion)



563,812 individual projects implemented



8,939 affordable housing units under contract



170,000 urban trees



800+ transit agency projects funded, adding or expanding transit service



419,000+ rebates issued for zero-emission and plug-in hybrid vehicles



721,000 acres of land conserved or restored



70,000 tons of criteria air pollutant reductions

Benefits to Priority Populations

Per statute, a minimum of 35 percent of California Climate Investments must benefit priority populations, which include disadvantaged communities and low-income communities and households across the state per [Senate Bill 535](#) (De León Chapter 830, Statutes of 2012) and [Assembly Bill 1550](#) (Gomez, Chapter 369, Statutes of 2016).

Cumulatively, 50 percent, or \$5.2 billion, of implemented California Climate Investments project funding is benefiting priority populations, greatly exceeding the statutory minimums. To view a more detailed analysis, visit the [Priority Populations webpage](#) on the [California Climate Investments website](#).

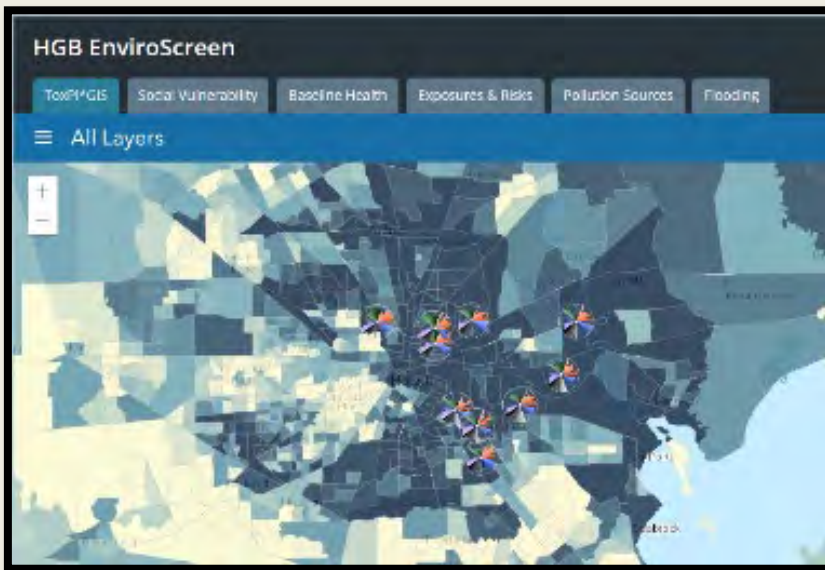
50%
Benefiting
priority
populations
(\$5.2 billion)

Cumulative
Benefits
to Priority
Populations

50%
Benefiting other
areas of California

Other Uses of CalEnviroScreen

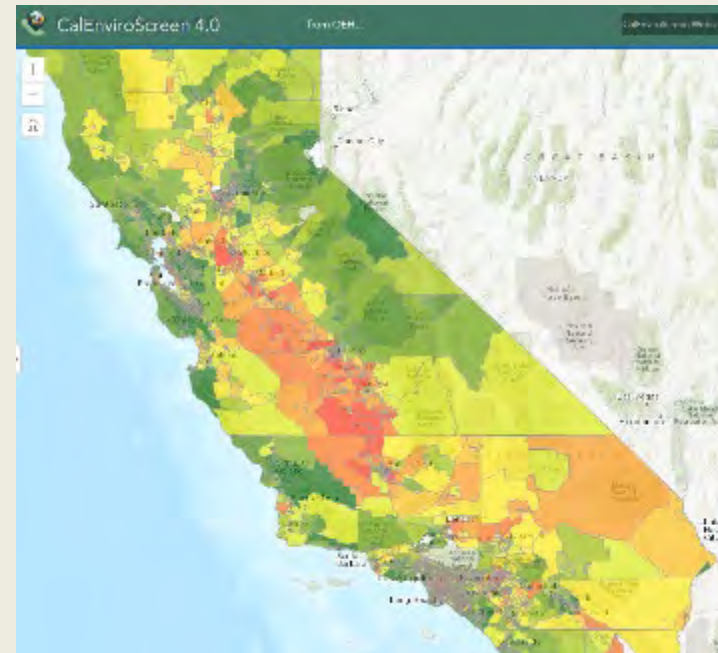
- As a model for developing EJ tools in the US, other states, local and regional governments
- To evaluate grants
- As a teaching tool in schools and other settings
- As a tool to evaluate EJ issues by communities



Thank you and demo

Laura.August@oehha.ca.gov

CalEnviroScreen@oehha.ca.gov





BAY AREA
AIR QUALITY
MANAGEMENT
DISTRICT

AGENDA: 7

Diversity, Equity, and Inclusion Office Update and Report of the Air District's Equity Resource Team

Community Equity, Health and Justice Committee Meeting
November 3, 2022

Tim Williams
Diversity, Equity, and Inclusion Manager
twilliams@baaqmd.gov

Presentation Outcome



- Provide an update on the Diversity, Equity, and Inclusion Office and the Air District's Equity Resource Team

Presentation Requested Action



- None – informational presentation

Agenda



Events/Activities

Collaborative Efforts

Trainings - Human Resources

Updated Demographics

Equity Resource Team

Q&A



Collaborative Efforts



- Monthly Diversity Equity, and Inclusion best practices and planning sessions
 - California Air Resources Board
 - South Coast Air Quality Management
 - Sacramento Air Quality Management
 - San Diego County Air District
 - San Joaquin Valley Air Pollution Control
- Bay Area Regional Collaborative (BARC)
 - Metropolitan Transportation Commission
 - Bay Conservation and Development Commission



Listening Circles



- Do social/political issues impact your professional wellbeing?
- Safe space
- Monthly series
- Topics vary

A promotional graphic for a listening circle event. It features a blue header with a colorful circular icon of people and text detailing the event's name, date, time, and Zoom ID. Below this is an orange section with a question, a description of listening circles, and a call to action.

**If Beale Street
Could Talk
Listening Circle**
October 19 | Zoom ID:
12-1 P.M. | 870 6880 1447

**DO SOCIAL/POLITICAL ISSUES IMPACT
YOUR PROFESSIONAL WELLBEING?**

**NEED A SAFE SPACE TO SHARE YOUR
THOUGHTS ON WHAT'S GOING ON?**

Listening circles offer a safe space for individuals to open up and share their thoughts, emotions, experiences and challenges without fear of being judged. By practicing open listening and offering full acceptance in this way, we can build a sense of psychological security and trust in the workplace, which in turn, naturally boosts a sense of community and belonging.

These spaces allow us to accept others exactly as they are, even if their views differ wildly from our own, and understand more about the challenges that we all face in our daily lives. They allow us to feel seen, heard and valued as part of a community.

[Click here to join meeting!](#)

Trainings



Emotional Intelligence

- Manager/Supervisor
- Staff (no direct reports)
- Learn more about why so many people fear giving and receiving feedback and how you can improve your own emotional intelligence for better workplace feedback.

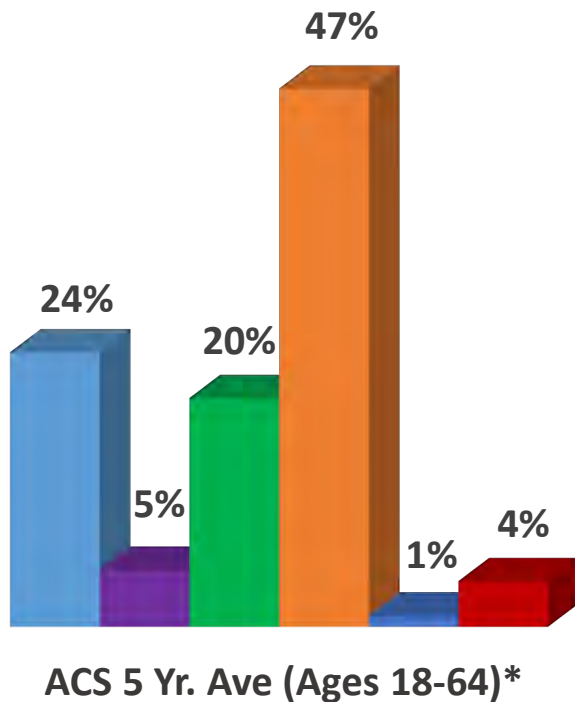
EMOTIONAL INTELLIGENCE FOR EXTRAORDINARY TEAMS

RECEIVING FEEDBACK	GIVING FEEDBACK
STEP 1  Don't dread it. Welcome it. Champion feedback as a leader.	STEP 1  Normalize giving feedback on a regular basis, not just through a performance review.
STEP 2  Listen to understand, not respond.	STEP 2  Create a climate of safety and trust. Tell the truth and keep it in confidence.
STEP 3  Separate the what you do from who you are. Identify blind spots on what you do and how you do it. Don't take constructive feedback personally. Look for the lessons.	STEP 3  Be clear and honest. Provide real time examples. Explain that their intentions are good but here's some suggestions for better impact.
STEP 4  Ask clarifying questions & be grateful for the feedback. "Help me better understand." "Provide me with examples."	STEP 4  Keep it concise. Keep it simple. Focus on 1-2 areas to improve. Do not overwhelm.

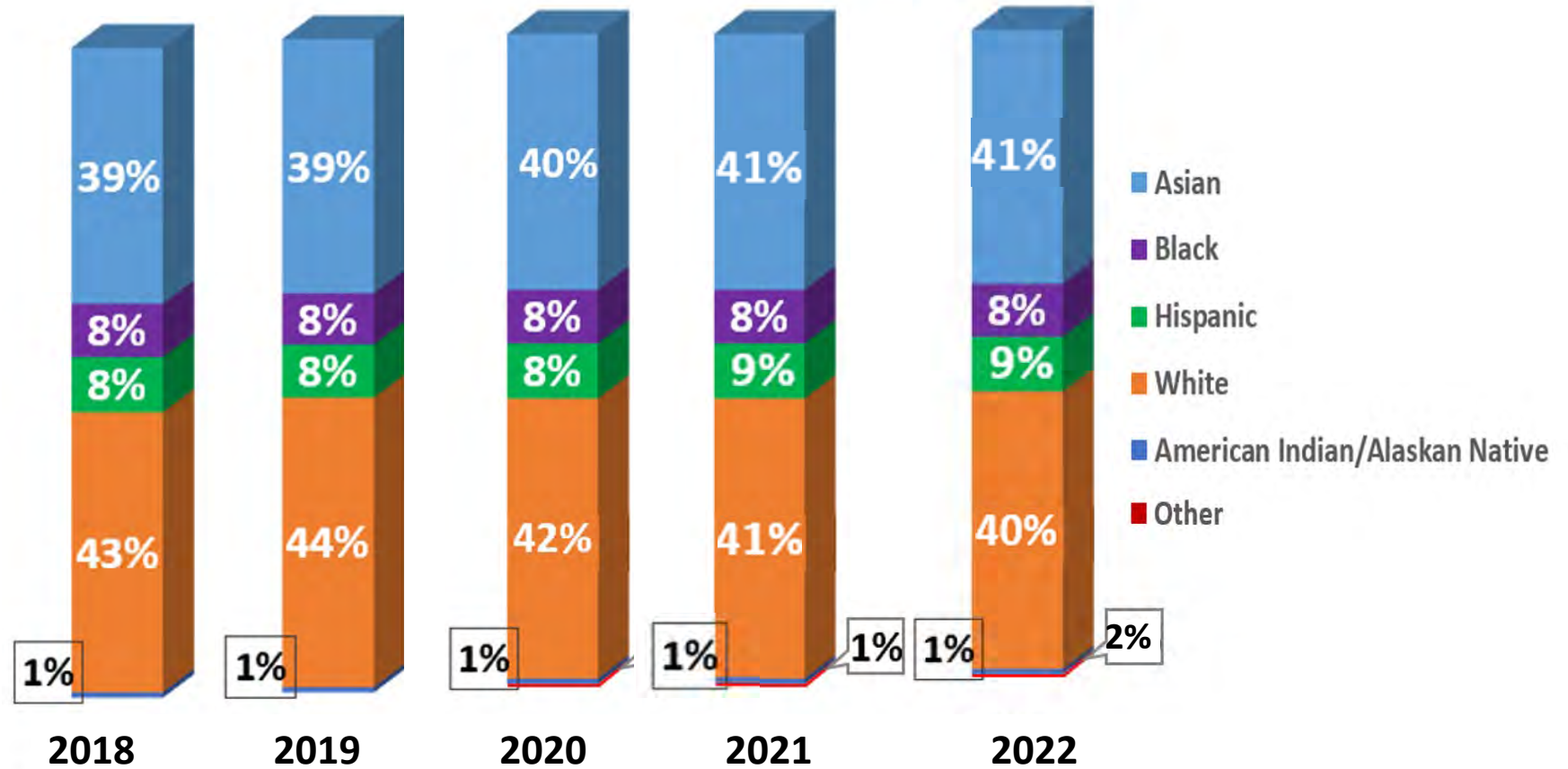
Demographics by Race/Ethnicity



Bay Area

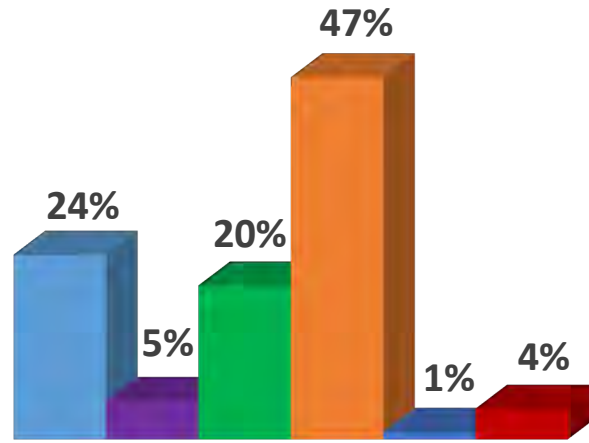


All Employees



*American Community Survey (ACS) Census Bureau

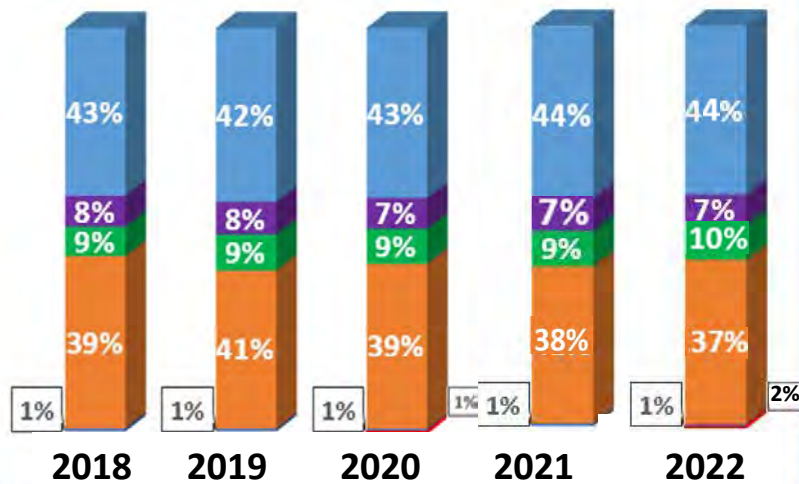
Demographics by Race/Ethnicity Summary



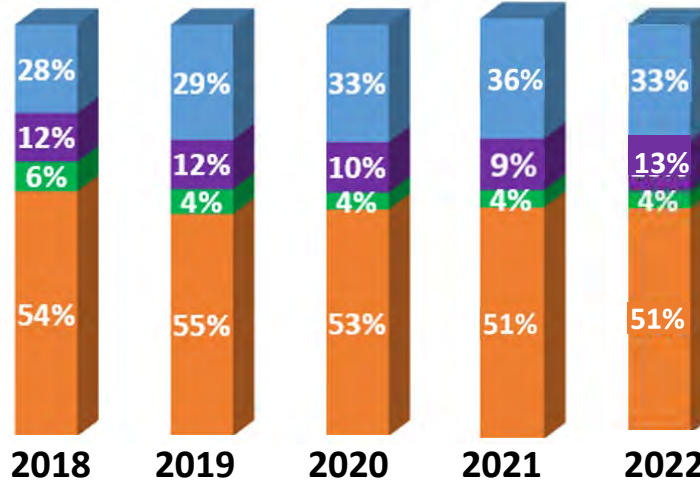
- Asian
- Black
- Hispanic
- White
- American Indian/Alaskan Native
- Other

Bay Area Demographics

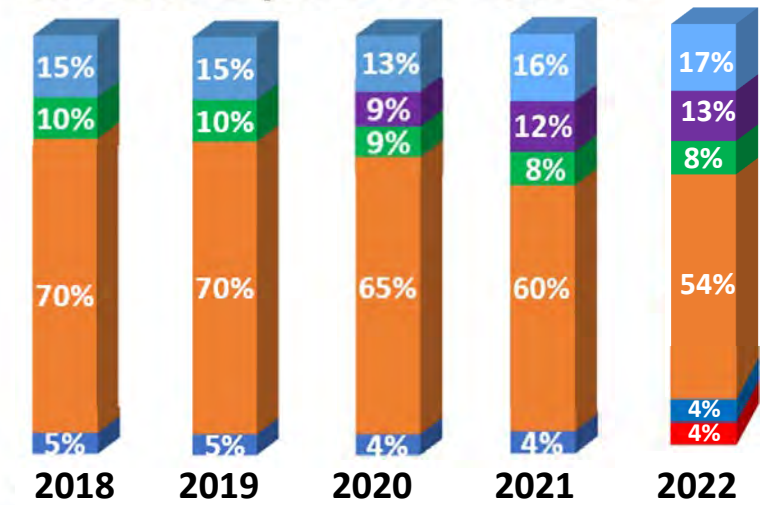
Staff (non-Management)



Assistant Manager and Managers



Executives (Directors and Above)

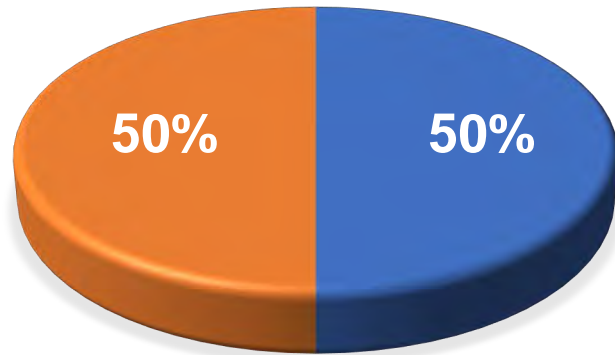


*American Community Survey (ACS) Census Bureau
Community, Equity, Health and Justice Committee
November 3, 2022

Demographics by Gender



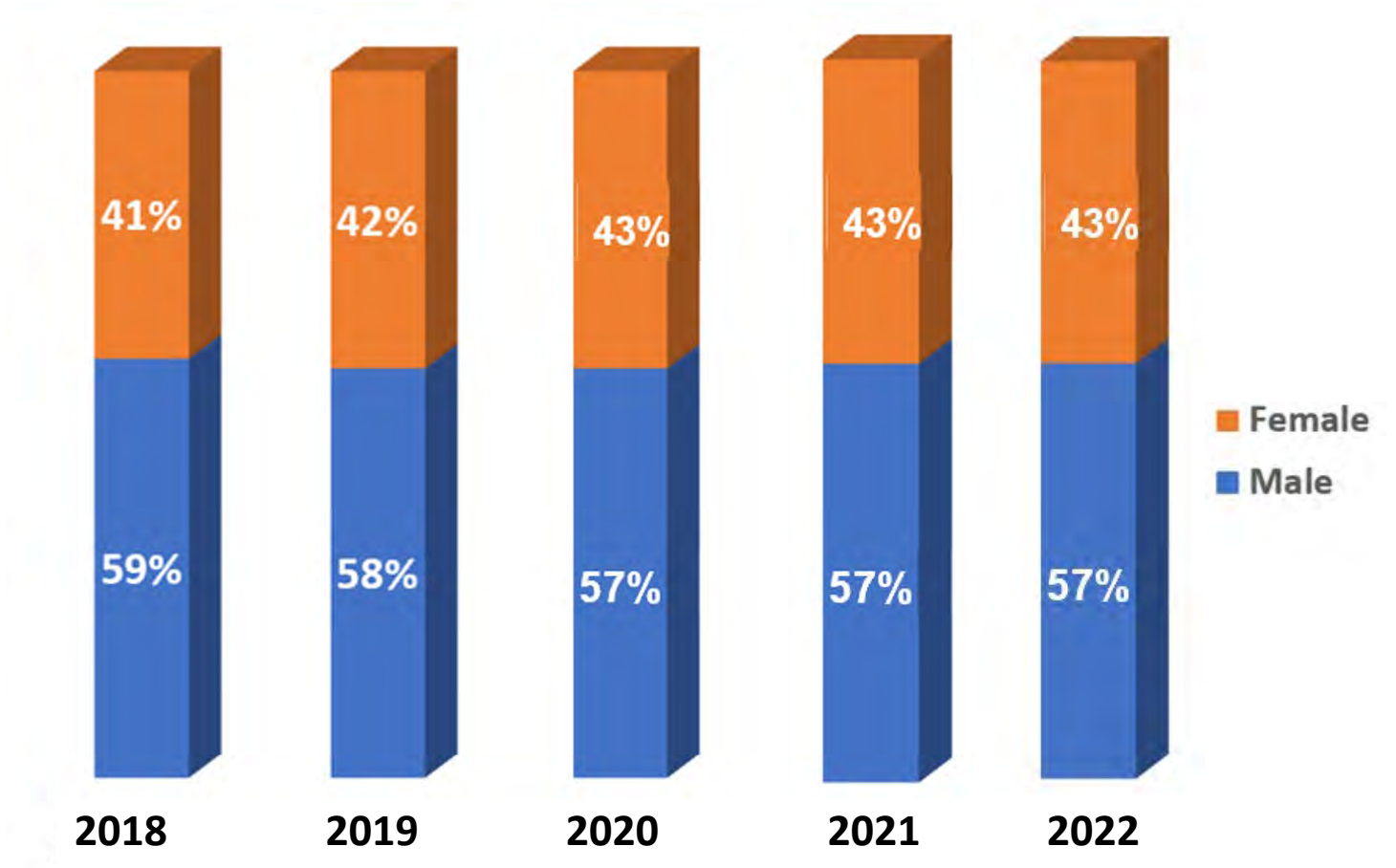
Bay Area



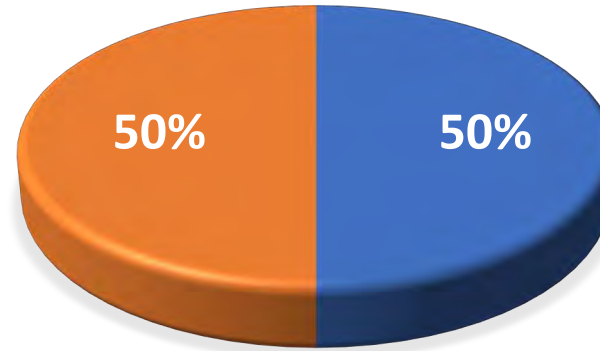
Bay Area Demographics
ACS 5 Yr. Ave (Ages 18-64)*

*American Community Survey (ACS) Census Bureau

All Employees



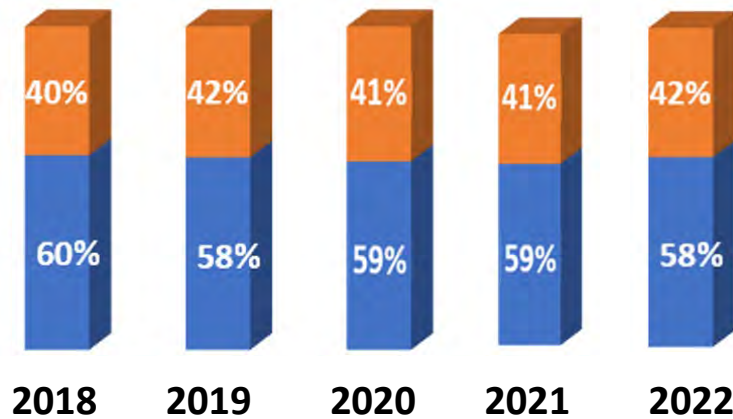
Demographics by Gender Summary



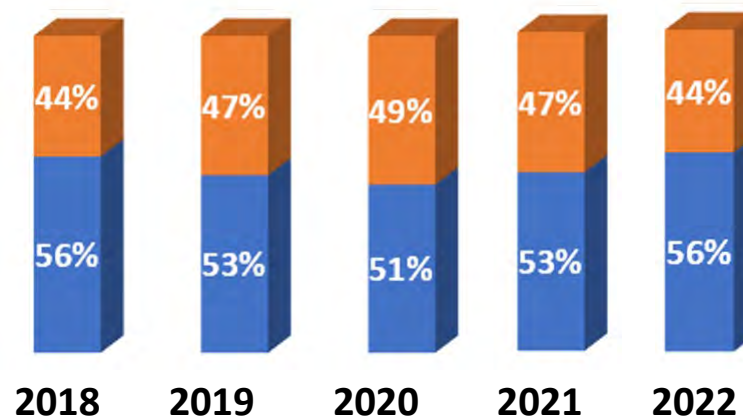
Bay Area Demographics
ACS 5 Yr. Ave (Ages 18-64)*

■ Female
■ Male

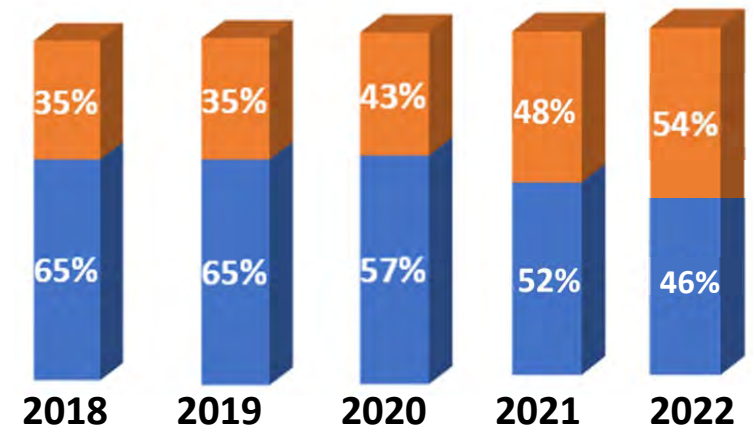
Staff (non-Management)



Assistant Managers and Managers



Executives (Directors and Above)



*American Community Survey (ACS) Census Bureau
Community, Equity, Health and Justice Committee
November 3, 2022

Demographic Highlights



Race/Ethnicity

Managers Assistant Managers	2018	2022
Asian	28%	33%

Executives – Directors & Above	2018	2022
African American	0%	13%

ALL Employees	2018	2022
Hispanic/Latinx	9%	10%



Gender

Executives - Directors & Above	2018	2022
F	35%	54%
M	65%	46%

Equity Resource Team



- Team of dedicated staff across Agency
- Develops strategies to implement equitable practices, policies and procedures
- Internal and external focus





North Star: Incorporate Equity into Decision Making*

Research <i>(Toolkit Best Practices)</i>	Design	Pilot	Scale	Evaluate
Case Studies	Questions	Training/ Workshops	Distribute & Provide Guidance	Outcome Assessment
Community members will play a crucial role throughout the process	Guidance (document)	Determine Division	Training/ Workshops	Accountability Assessment
	Applicability (when applied)	Refine		Progress Report
	Training Series			Recommendations for Modifications

*** Decisions include polices, programs, practices and budgets.**

Q&A

