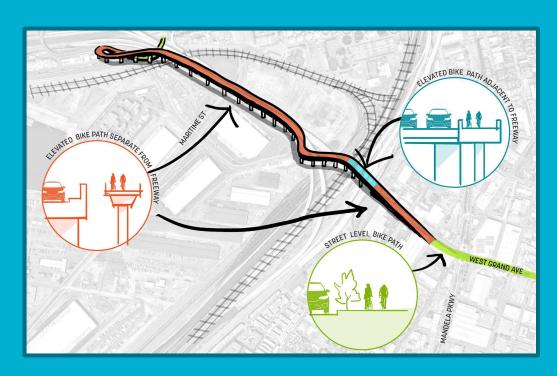


## What is the project?

In simple language this is a trail project.

The West Oakland Link of the Bay Skyway, is part of the Bay Trail and will provide a safe 15-foot wide connection for bicyclists and pedestrians to travel between West Oakland, the Port of Oakland, and the Bay Bridge Trail.

- 1.1 miles of separated, elevated low-stress multi-use path
- Connects with the planned Grand Ave protected bike lane (to downtown) at Mandela/Grand intersection
- Landscaping and community amenities based on community input



# Schedule RSVP to upcoming meetings at woeip.org/events

	Phase	Meeting	Date	Purpose
	1	1: Intro to the West Oakland Link	9/1/2023	Start the community engagement process.
		2: Design Deep-dive	10/10/2023	Explore design elements shaping the path at key locations.
Tonig	ght 🕕	3: Environmental Justice, Air Pollution & Public Health	10/17/2023	Explore the health and equity implications of the path's location through an area with elevated pollution levels.
		4: Streetscapes, Intersections & Traffic Safety	10/25/2023	Use shared local knowledge to help shape a path that accommodates different modes of transportation for all.
		5: Placemaking, Design & History	11/8/2023	Root the Link in local history and create a sense of community.
	2	Design Update Meeting 1	2/2024	
		Design Update Meeting 2	6/2024	
	3	Design Update and Construction Phase Introduction Meeting	8/2024	
	4	Pre-Construction Phase Meeting	3/2025	

# Meeting Expectations

- Please communicate with respect and be mindful of how much space you're taking while engaging those who haven't spoken
- Respect time agreements and stay on topic in order to achieve our meeting goals
- We actively listen with an open mind, respecting multiple points of view
- We assume good faith in giving and receiving feedback, criticism and questions
- We check for diversity gaps (who is missing) and propose solutions for it

#### **Community Process**





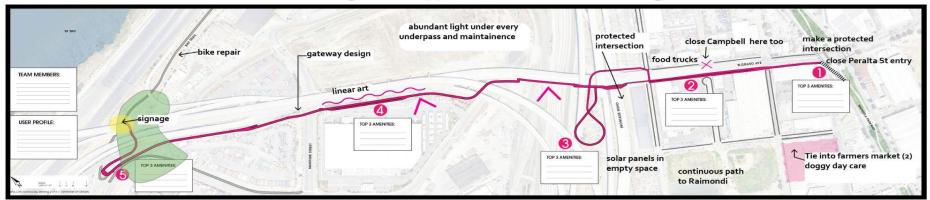


#### 4 Groups Made Placemaking Maps



#### What We Heard:

#### "tell stories - including transportation both wrongs and opportunities to make it right"



- Signage (2) Strong lighting (2)
  - **Urban forest**
  - Digital display counter (bike+ped)
  - Metrics trees saved
  - Opportunity for play (mini golf)
  - Trash cans
  - Water fountains
  - Mini golft
  - Accessibility for people w/ disabilities on this grade
  - Memorial plaques (military/army)
  - View point(scenic view)
  - Bench
  - · Trash cans? Recycling

- Signage to seperate entrance + exit + wayfinding (2)
- No hostile seating (bench)
- Water
- Interactive space
- Way finging
- Bike counting device
- Gateway design for the port

- Make this stand out, visually/ architecturally (x3)
  - Quiet ride calm (x2)
  - Visually appealing underpass (2)
  - Street art on columns
  - Skate park attracts (daring users)
  - Union point pask
  - Spiral structure
  - Stronger lighting
  - Make space for dancers or other performing groups
  - Can this be an attraction
  - Lighting
  - Sound (ped bridge in san diego)
  - Poop bags
  - Picnic table
  - Wayfindings
  - Fun intuitive
  - What about a "tube" for agi? Esp. At Frontage Rd

- Street lighting (2) Planting (2)
  - Wind sound screen (2)
  - Gathering space (2)
  - More housing + jobs= lunch zone
  - Clear view sights no blind spots Left unmaintained this corridor
  - could be a disaster
  - Bench Cameras
  - Linear park
  - Walking path connected to mandela pkwy

- Arch way large welcoming/ attractive entry (4)
  - Map + wafinging (3) Storytelling (3)

  - · Could it span over west grand?
  - Gateway Restrooms

  - Shade structure
  - Food coffee
  - Safe intersection to enter
  - Continuity with the rest of the community & future development

#### Local Stories:

- 1. History of west Oakland cypress freeway removal story
- 2. Memory of the neighborhood removed
- 3. Earthquake of 89 "Black Wall Street" of 7th st, Jazz Clubs, continued railroads, Black Panthers, etc.

# <u>Agenda</u>

- Environmental Justice and West Oakland
- Traffic Related Air Pollution
- Health Implications
- Mitigation Opportunities and Limitations

Environmental justice embraces the principle that all people and communities have a right to equal protection and equal enforcement of environmental laws and regulations.

-Dr. Robert Bullard, Father of environmental justice

West Oakland and Environmental Justice



#### **Connecting West Oakland to the Shoreline and San Francisco**

Provides a West Oakland bicycle & pedestrian connection to:

- Bay Trail and East Span
  Path
- Judge John Sutter Shoreline Park
- 280 acres of parks on Treasure Island
- Jobs at the Port and in San Francisco



# Potential risks of traffic-related air pollution (TRAP) exposure and mitigation strategies

Created by Maria Harris, Kelsey Meisenhelder, Ms. Margaret Gordon

Members of West Oakland Community Action Plan Health Equity Advisory Committee (WOCAP HEAC)

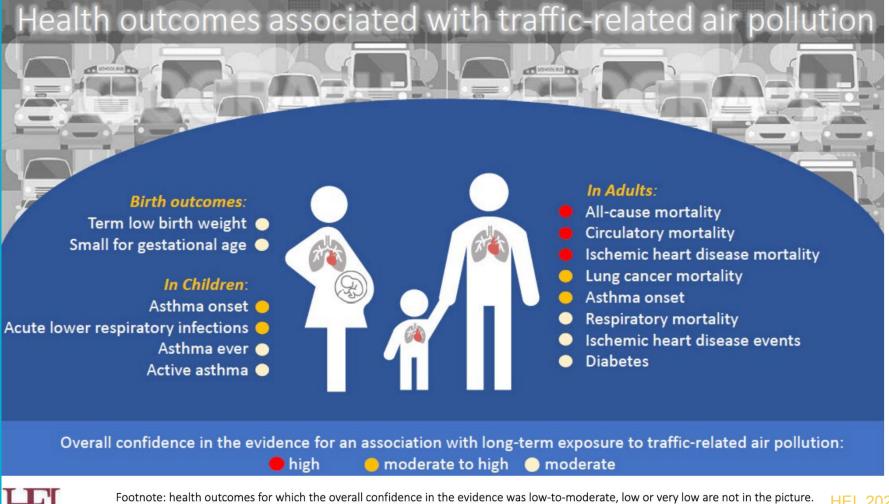




# What is traffic-related air pollution (TRAP)?

- Motor vehicles emit a complex mixture of particles and gases including:
  - Tailpipe emissions
    - Ultrafine particles
    - NOx, CO₂, Ozone, Particulate Matter
  - Non-tailpipe emission
    - Brake-wear
    - Tire-wear
    - Road dust
- Traffic noise
- TRAP is characterized by high spatial and temporal variability







# **Short-term health impacts of TRAP**



- Asthma exacerbation (increased asthma symptoms, asthma emergency department visits and hospital admissions)
- Worsening of lung disease (increased hospitalizations for COPD and other respiratory diseases)
- Increased hospitalizations for acute lower respiratory infections in children
- Heart attacks and stroke (increased hospitalizations and emergency department visits)
- Death from cardiovascular disease

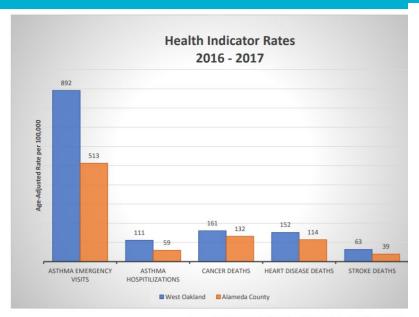
## TRAP and Exercise

- Exercising has many positive health impacts, but can also increase intake of pollution
  - People with health conditions like heart and lung disease are more vulnerable to negative impacts of pollution
  - The health impacts of exercising in a polluted area can vary depending on air pollution level, health status and exercise intensity (<u>US EPA</u>)

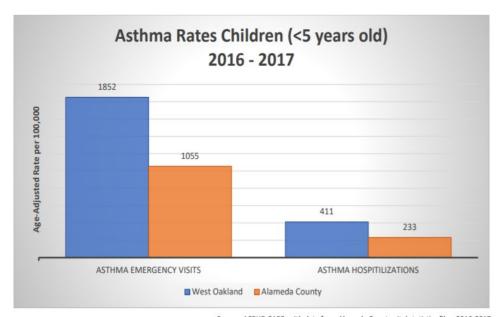




## West Oakland residents have higher rates of health conditions that increase vulnerability to air pollution



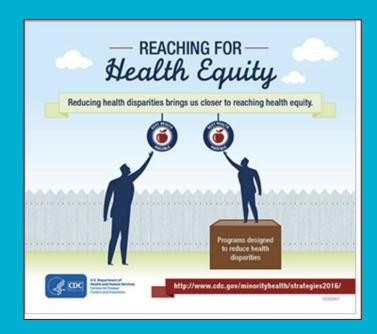


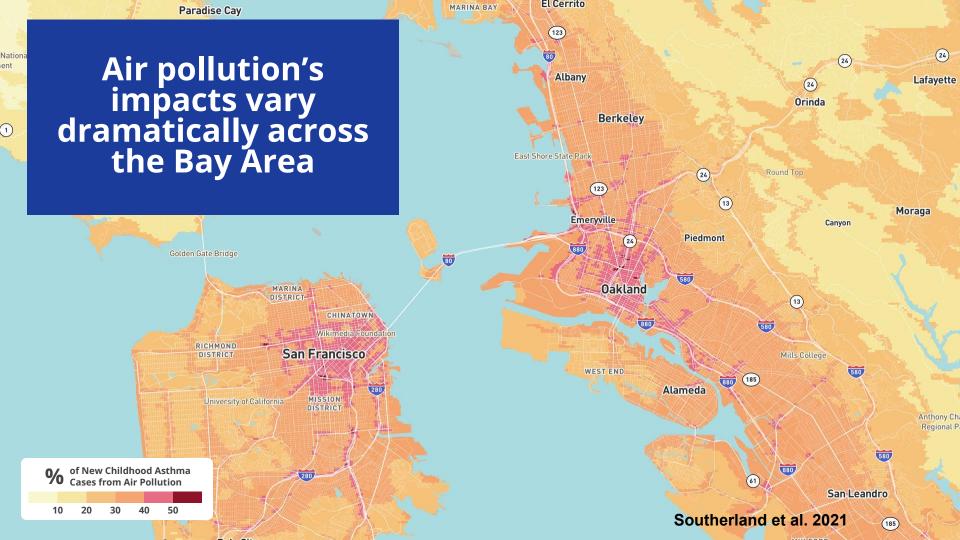


# **Health Equity**

When everyone has the opportunity to be as healthy as possible

- address historical and contemporary injustices
- overcome economic, social, and other **obstacles** to health and healthcare
- eliminate preventable health disparities





#### Communities of color face higher rates of health impacts from air pollution



## **Pollution on West Oakland Link route**

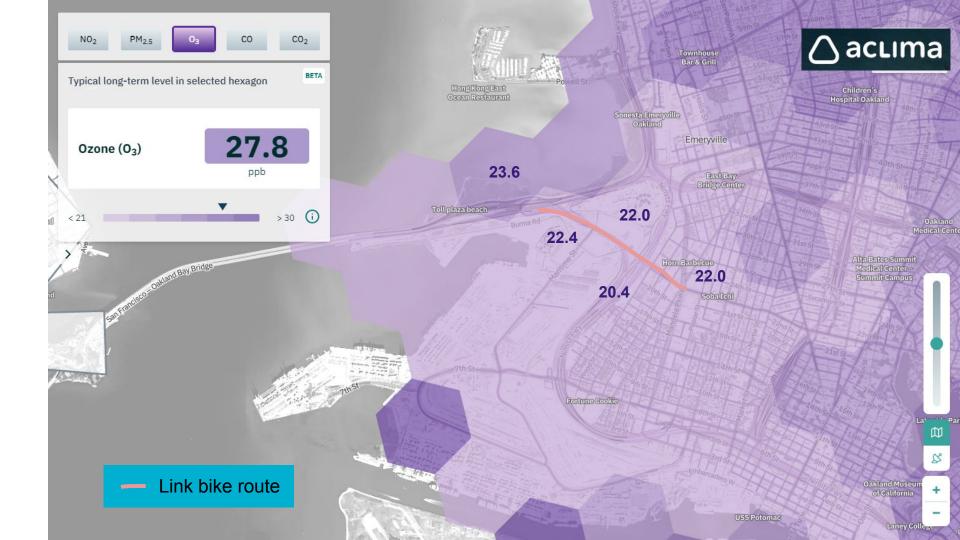
Long-term average PM<sub>2.5</sub> along the proposed Link route is 9-12 μg/m3, while NO<sub>2</sub> is 10-12 ppb, higher than lower traffic areas of West Oakland (based on Aclima mobile data)

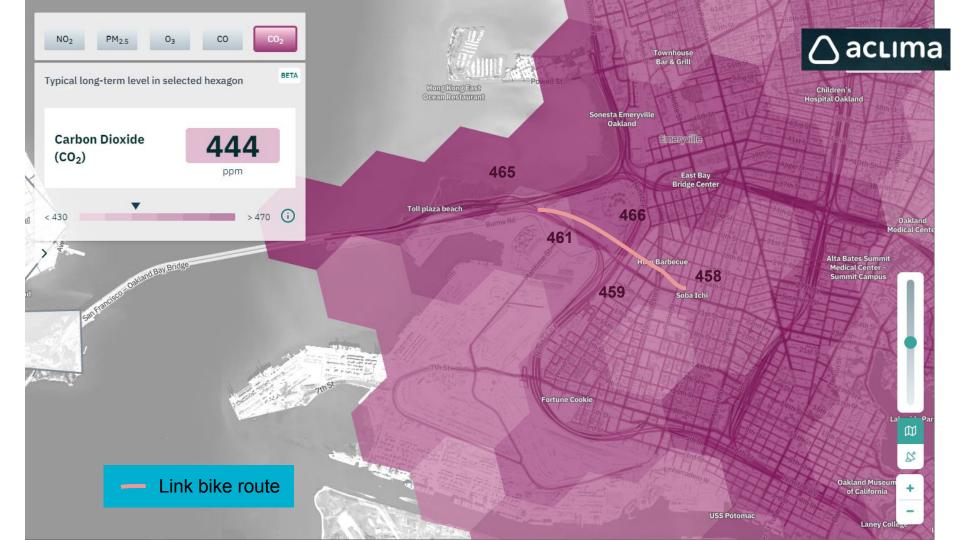


WHO guideline









# **Noise Pollution**

- Unwanted sound
- Affects health and well being

What are mitigation opportunities for West Oakland Link?

# Reducing Air Pollution & Exposure

#### Air Quality Monitors









#### Education



#### **Vegetative Buffers**



Recommended planting order for Row 1 and 3: 2-3 Deciduous trees, 2-3 Conifer trees, 2-3 deciduous trees, 2-3 conifer trees, repeated. Trees rebuild be planted in progressing with 10.15 between them.



# Possible mitigation strategies

Maximize the health benefits of exercise from "active commuting" and minimize the negative impacts of exposure to air pollution by...

- Advise trail travelers and recreational users to use Link route outside of peak traffic hours (Phuong et al 2020, <u>website</u>)
- Install a solid barrier or dense vegetation, or a combination, along the highway and the sides of the Link route (<u>website</u>) (<u>Charette</u>)

#### Other best practices

- Develop cyclist & pedestrian routes away from high traffic roads and other pollution sources (Phuong et al 2020, Potera et al 2017)
- Phase out diesel engines (Phuong et al 2020)
- Reduce car use (Potera et al 2017)
- Create car-free time periods along the Link route (Potera et al 2017)

# How can we maximize the benefits of the West Oakland link project for West Oakland residents?

- Stationary monitoring of air quality along Link route to better understand temporal patterns in pollution (in coordination with BAAQMD)
  - Communicate results to users of West Oakland Link
- Evaluation of potential mitigations to reduce pollution exposure to Link users
- Coordination with WOCAP Steering Committee as project proceeds