City of SF

Population UP 11% GDP UP 40% Emissions DOWN 14.5%

28% less per capita (1990 - 2010)

6.5 mT CO₂ per capita in 2010 vs. US average > 20 mT per capita

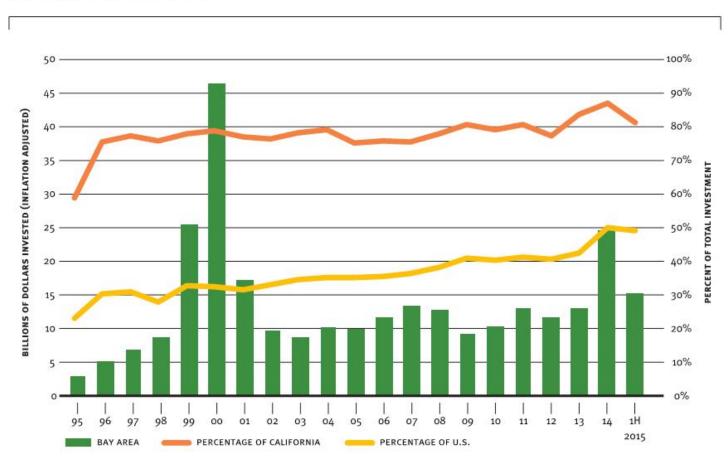
- 100% renewable electricity for residential by 2030
- 80% renewable electricity for commercial by 2030
- 50% of trips non-automobile by 2017 and 80% by 2030
- Achieve zero waste to landfills
- Increase tree canopy to 25% of city land area
- Move Muni buses to 100% renewable fuels

San Francisco Climate Action Strategy

City of SF – Economic Vitality Indicators

- -SF Bay Area up to 50% of all Venture Capital investments nationally
- -California #1 in business startup activity among 25 large states, per the Kauffman Report

VENTURE CAPITAL INVESTMENT



Note: "Bay Area" Includes northwestern California

Data Source: PricewaterhouseCoopers/National Venture Capital Association MoneyTreeTM Report

Analysis: Bay Area Council Economic Institute

<u>City of SF – Economic Vitality Indicators</u>

THE CONVERSATION

San Francisco fell 10 spots in Kauffman's 2017 rankings for business startup activity among the 40 leading metro areas – from #4 to #14

San Jose dropped seven spots to #16

Miami ranked #1, Austin ranked #2: Los Angeles and San Diego ranked #3 and #4.

Confidence in the SF Bay Area economy at lowest level in 4 years due to frustrations about housing prices and traffic according to a survey released by the Bay Area Council last month

Academic rigor, journalistic flair



Australia's population is highly concentrated in a few cities, so once centres like Newcastle have absorbed the spill-over from high-cost capitals, where will the talent go? City of Newcastle/AAP

Author



Kaufman Index, www.kauffman.org

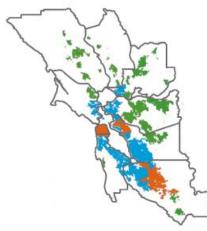
ol of Architecture. University o chnology Sydney

Plan Bay Area 2040 – Challenge

Jobs added from 2011 through 2015: Housing units built from 2011 through 2015:

501,000 65,000





Big 3 Cities: 1 housing unit built for every 7 jobs created

Bayside Cities and Towns: 1 housing unit built for every 15 jobs created

Inland, Coastal, Delta Cities and Towns:

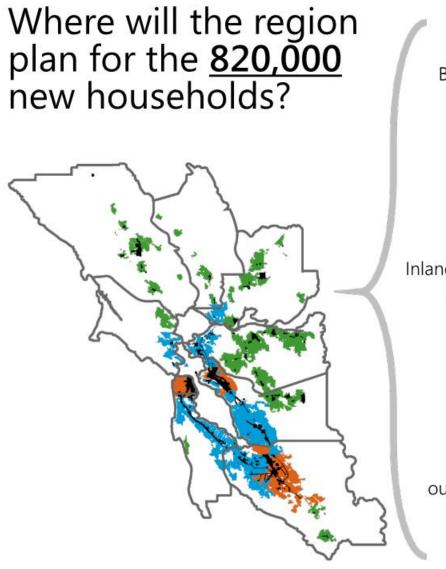
1 housing unit built for every **3 jobs** created

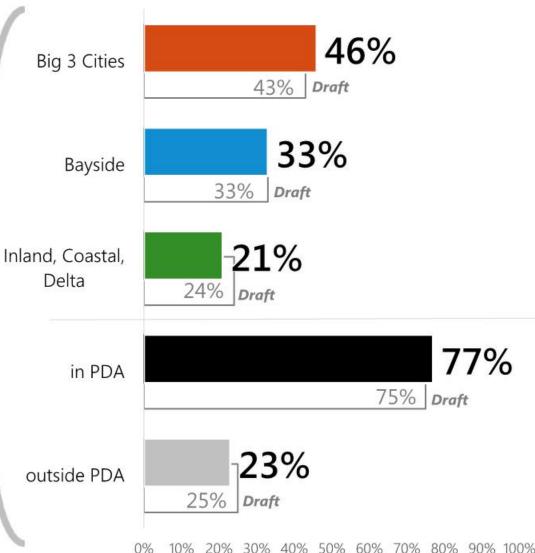
Regionally: 1 house was built for every 8 jobs created

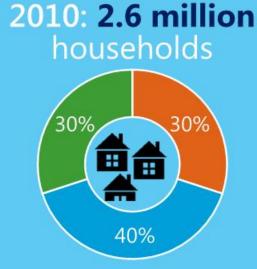
http://www.dof.ca.gov/research/demographic/reports/estimates/e-5/2011-20/view.php



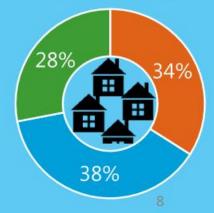
Plan Bay Area 2040 – Housing Allocation



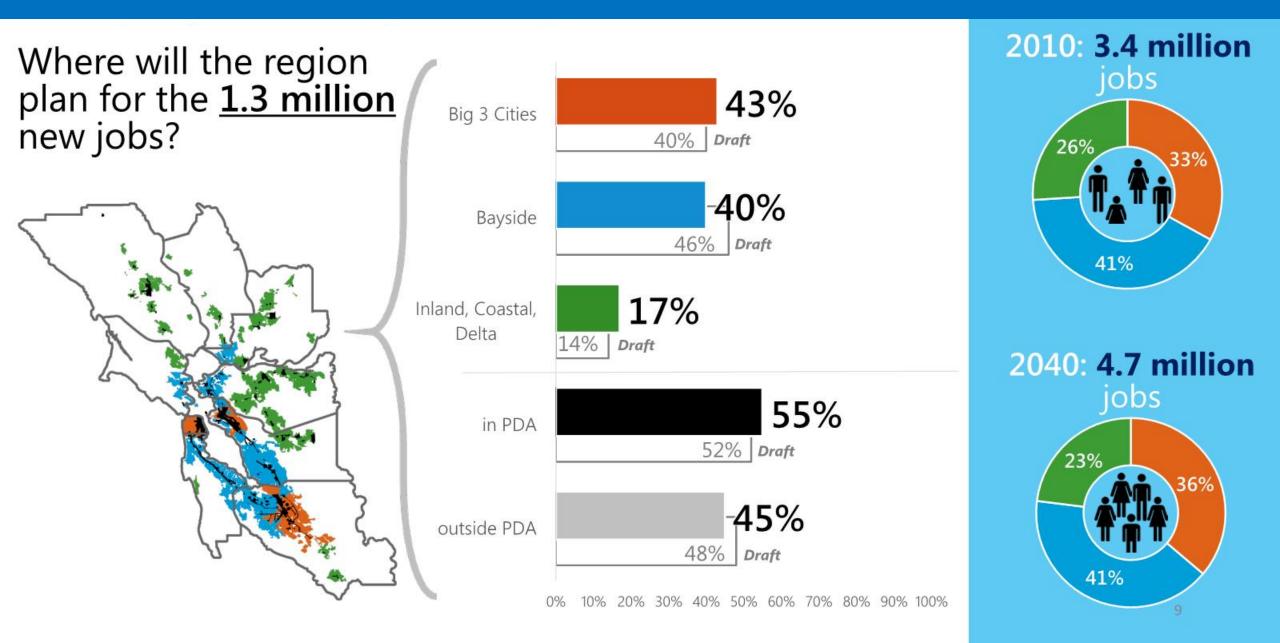




2040: 3.4 million households



Plan Bay Area 2040 – Jobs Allocation



Plan Bay Area

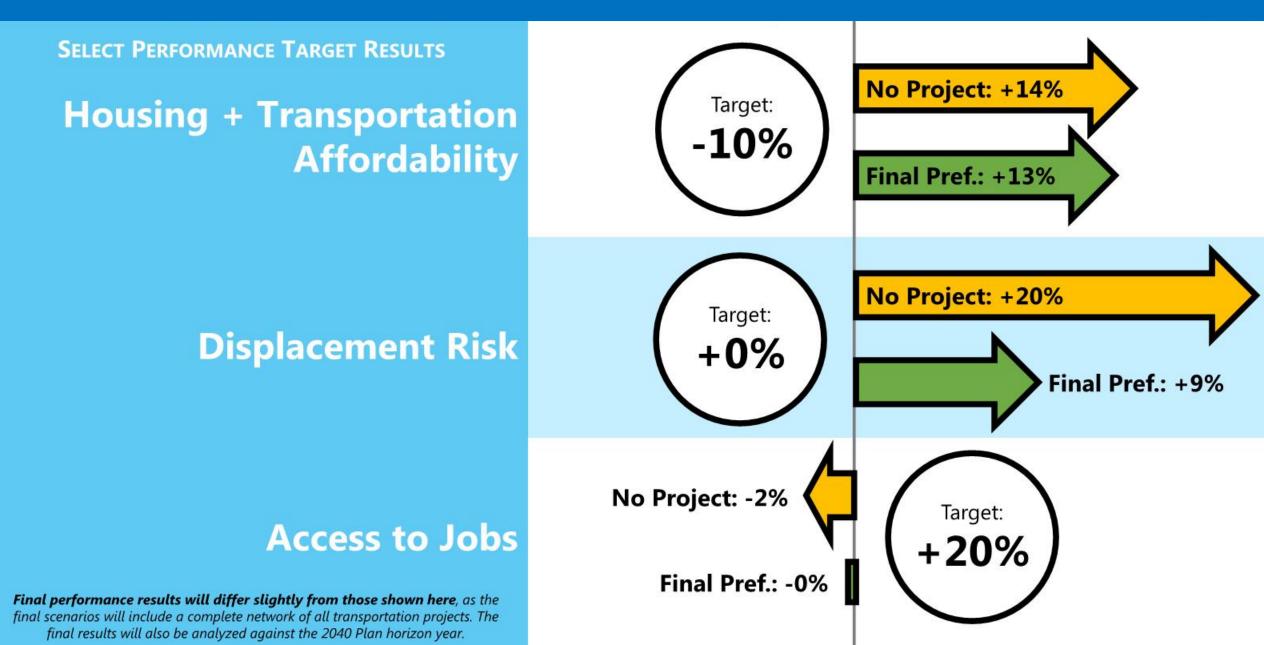
PERFORMANCE TARGET SUMMARY FOR THE FINAL PREFERRED SCENARIO Refer to Attachment D1 for

detailed results.

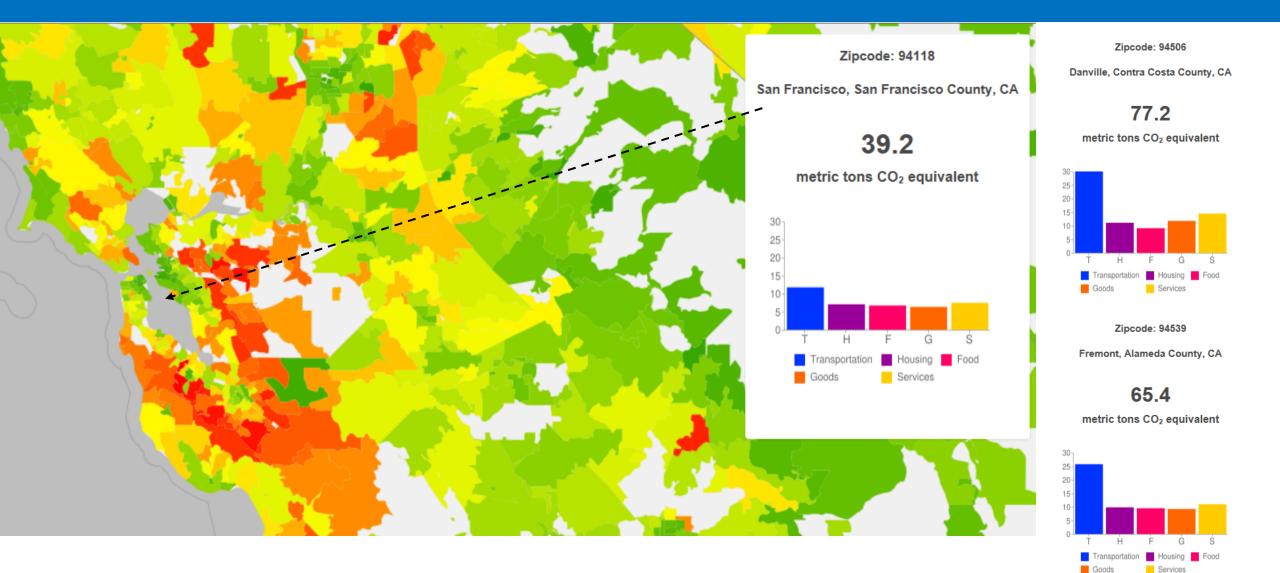
Final performance results will differ slightly from those shown here, as the final scenarios will include a complete network of all transportation projects. The final results will also be analyzed against the 2040 Plan horizon year.



Plan Bay Area – Equity Challenge



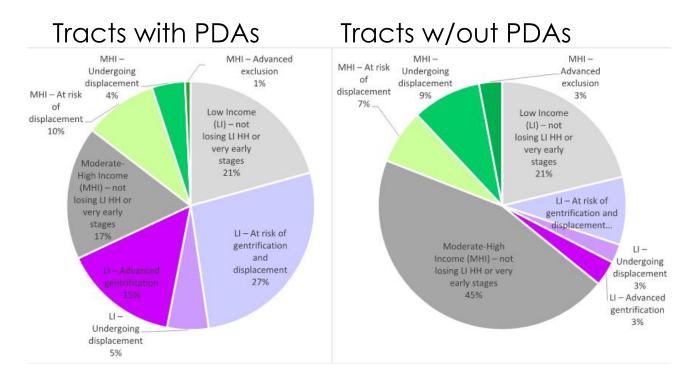
Environmental Cost of Sprawl



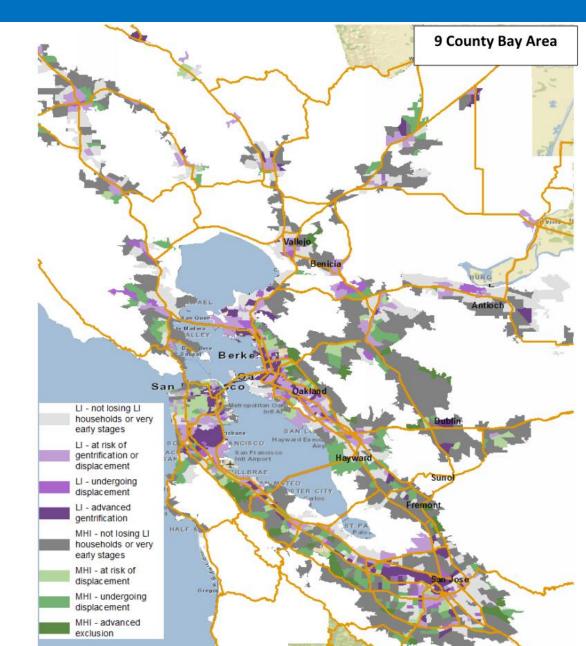
http://coolclimate.berkeley.edu/maps

Hidden Cost of Transit Oriented Development...

UC Berkeley Regional Early Warning System for Displacement



Source: Regional Early Warning System for Displacement (REWS), a project of the Center for Community Innovation at UC Berkeley, supported by the Bay Area Regional Prosperity Plan and the California Air Resources Board



SB 32 – Global Warming Solutions Act

Signed by Governor Jerry Brown in September 2016 --Provides legislative authority for 2030 Goals

Companion Bill AB 197: Addresses Environmental Justice concerns – requires consideration of "social costs" and protects vulnerable communities.

RESEARCH BRIEF - SEPTEMBER 2016

A PRELIMINARY ENVIRONMENTAL EQUITY ASSESSMENT OF CALIFORNIA'S CAP-AND-TRADE PROGRAM

By Lara J. Cushing^{1,3} Madeline Wander⁴ Rachel Morello-Frosch^{1,2} Manuel Pastor⁴ Allen Zhu³ James Sadd⁶





BAY AREA CHALLENGE

Carlos and

South Lat. Str.

ΒY

DESIGN

HOME



Topography

NOAA Hillshade DEM



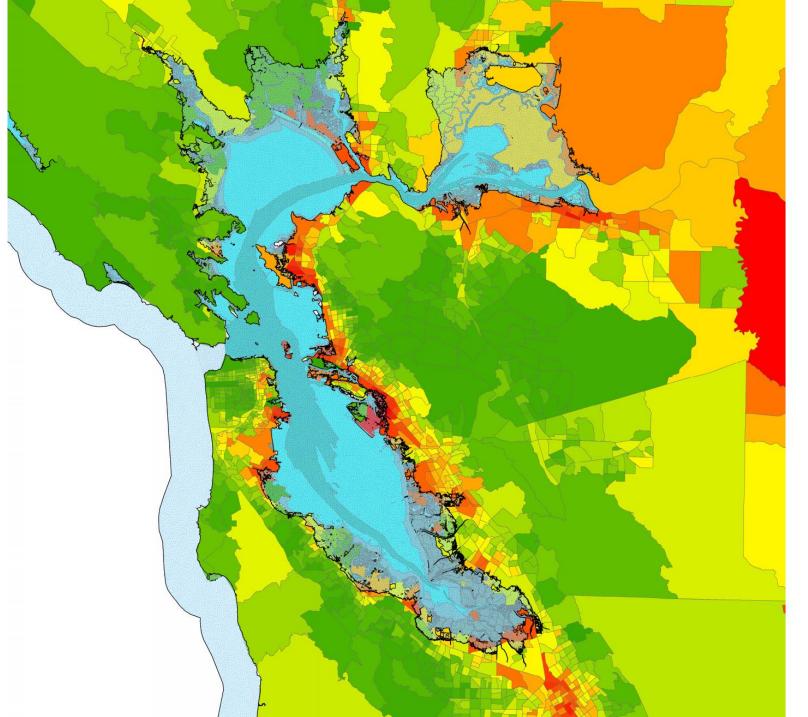


Topography and sea level rise @ 6'

NOAA Hillshade DEM & estimated reach of 6' of sea level rise.





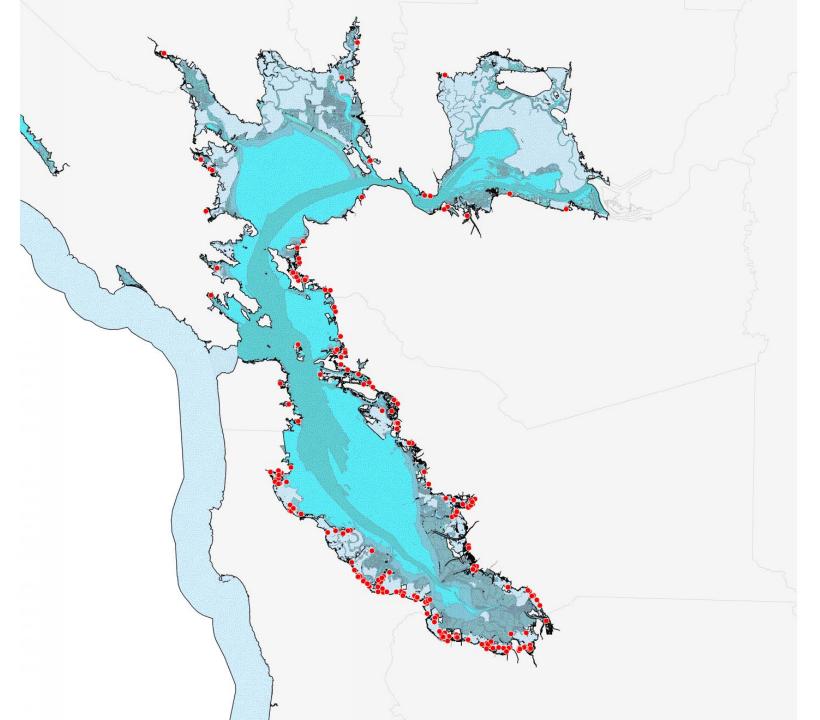


CalEviroscreen: overall score

CalEnviroscreen 3.0





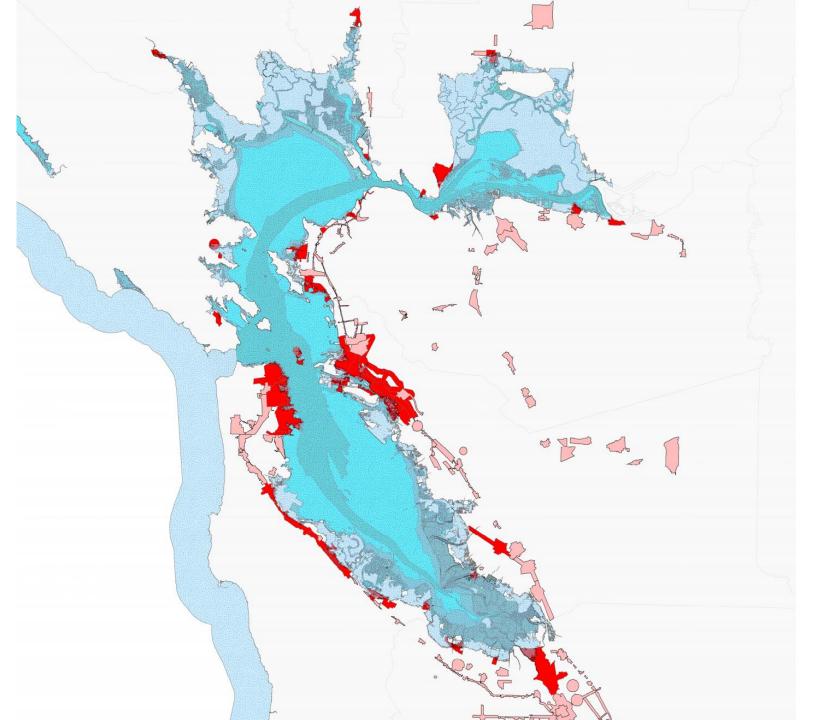


Where are the EPA listed brownfield sites inundated in 6' of sea level rise?

This map identifies low income (<200% federal poverty level, 30% threshold) communities at risk of gentrification,that also lie within half a mile of the 6' sea level rise line.



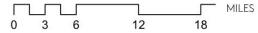


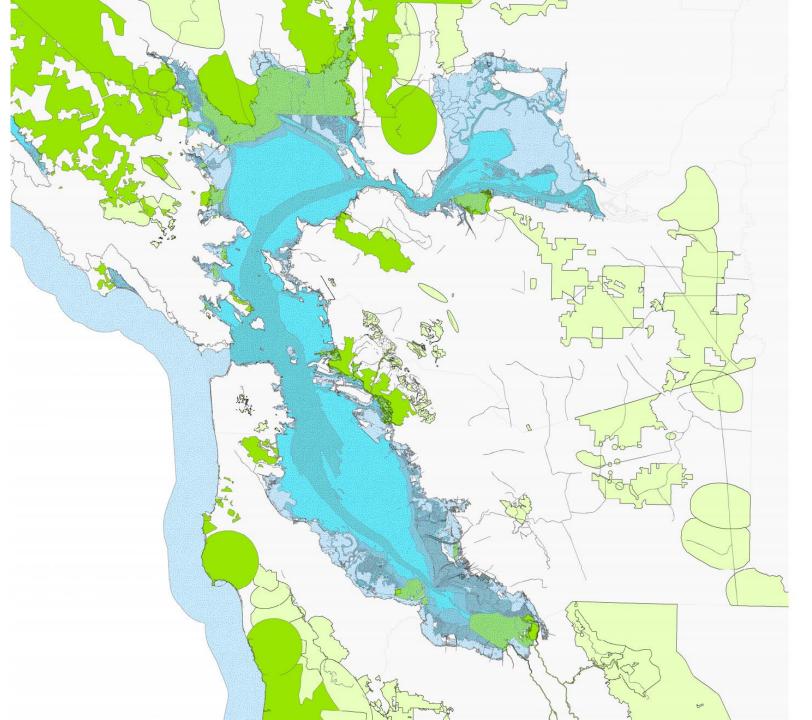


Where do Priority Development Areas overlap with sea level rise?

This map identifies where the Association of Bay Area Governments' Priority Development Areas intersect with a sea level rise height of 6'.



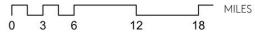




Where do Priority Conservation Areas overlap with sea level rise?

This map identifies where the Association of Bay Area Governments' Priority Conservation Areas intersect with a sea level rise height of 6'.





Priority Resilience Areas...



Climate Equity Resilience





ou R-HOME North Richmond Priority Resilience Area



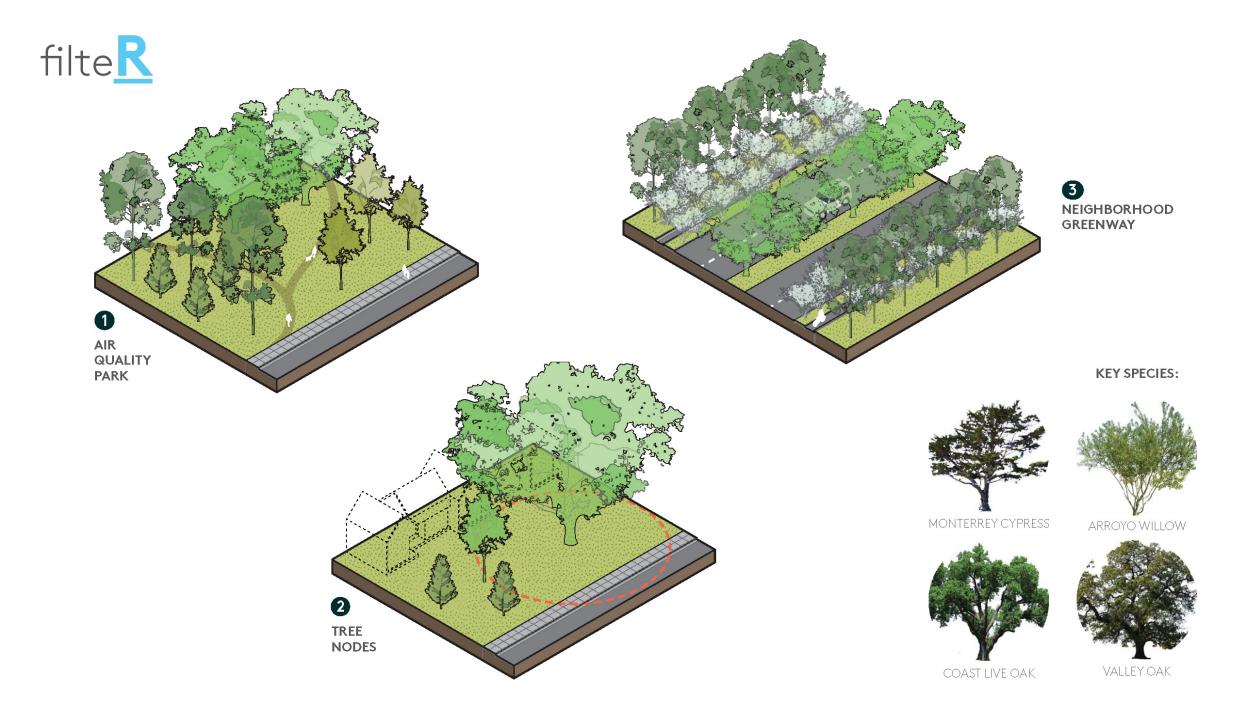
Adapt in Place



North Richmond has more diesel pollution (PM) per squae mile than the rest of Contra Costa County, the Bay Area average and

Bay Area average, and 502 more than the California average.

















EXISTING LEVEEPROPOSED LEVEE

ECOTONE SLOPE

REESTABLISHED TIDAL MARSH

TERTIARY

TREATMENT

Section A

Section B

WASTE

WATER

HORIZONTAL

LEVEE

COMPANY IN

MUTED MARSH

W. GROVE AVE

TIDAL BAY FLAT - POSSIBLE NATIVE OYSTER/EELGRASS RESTORATION MANAGEMENT SHALLOW BAY - POSSIBLE EELGRASS RESTORATION/ MANAGEMENT EXISTING EELGRASS BED



HIDDEN HABITATS:





SALT HARVEST MOUSE



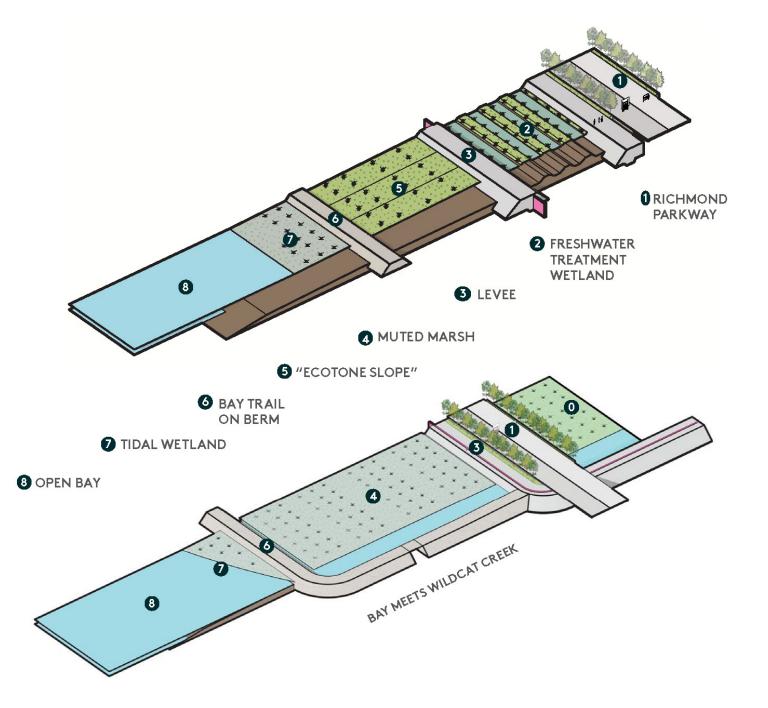


PACIFIC HERRING



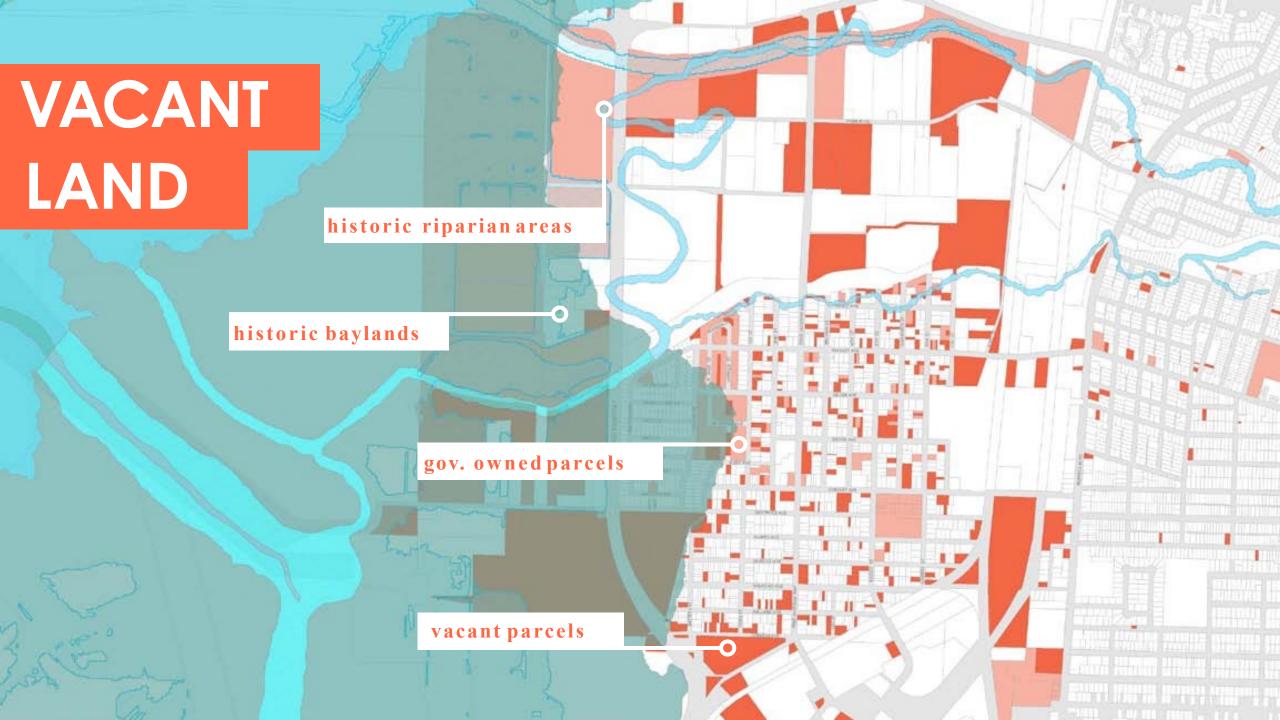


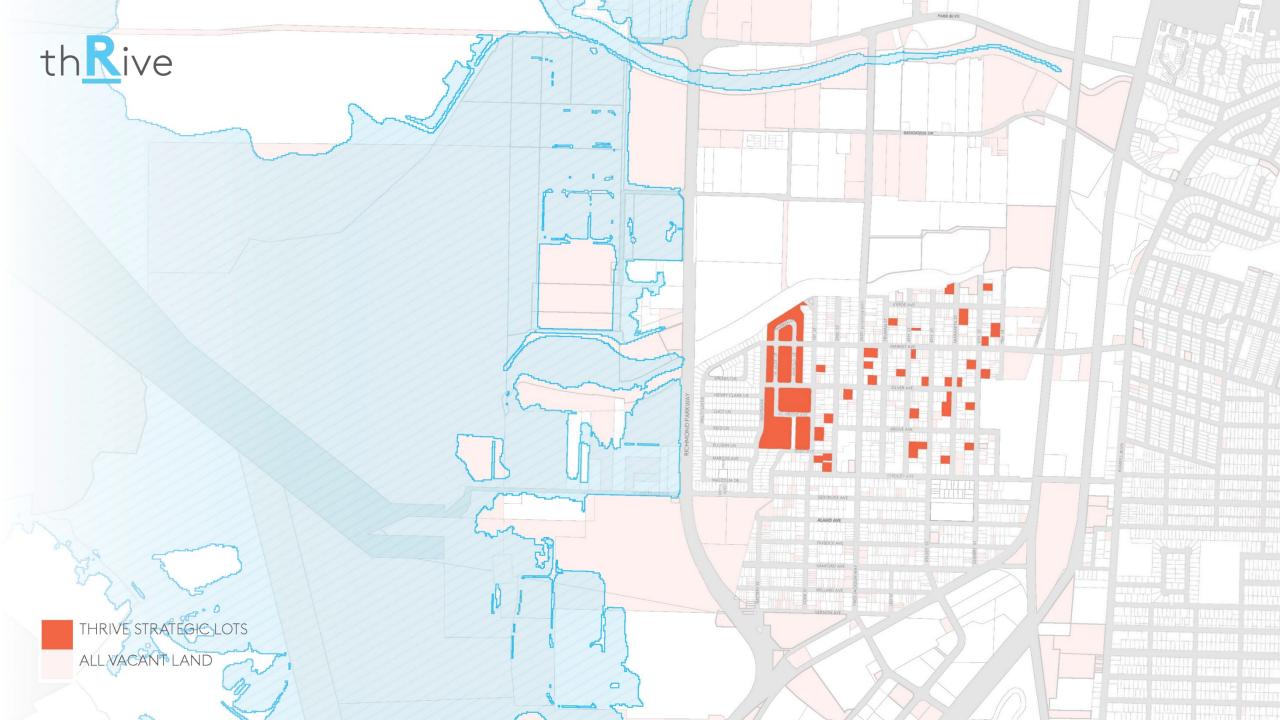
MIGRATORY BIRDS



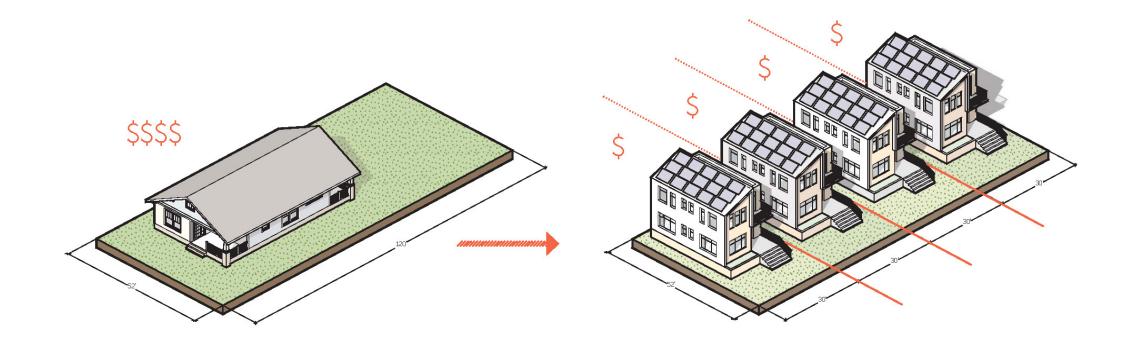








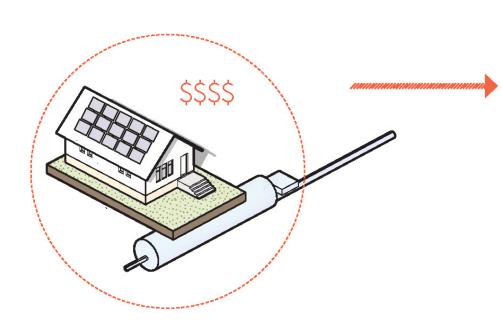


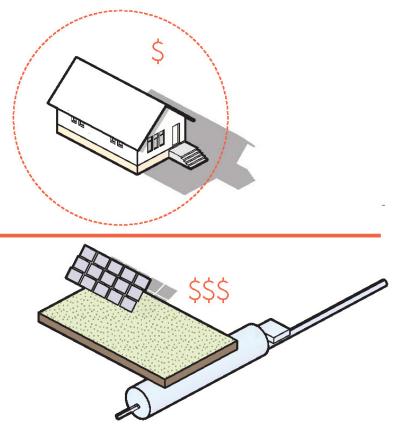


Existing Lot = 6240 SF Typical Single Family Home

Split Lot = 6240 SF / 4 Four Small Lots @ 1560 each 1250 SF Townhouses (2 story)







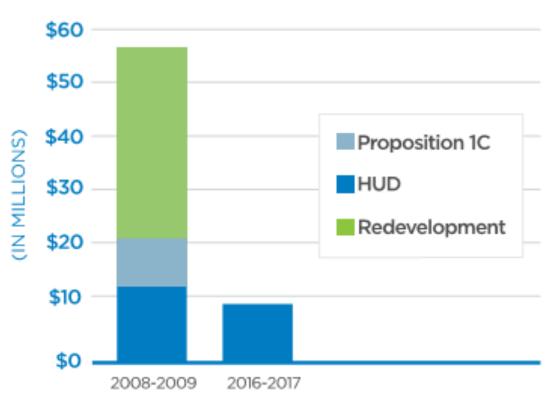
Existing Condition Home Cost includes land and utilities

Community Land Trust Family owns the home Trust owns the land and utilities





How to fill the gap?



CONTRA COSTA COUNTY LOST 83% OF STATE AND FEDERAL FUNDING FOR HOUSING PRODUCTION AND PRESERVATION BETWEEN 2008-09 AND 2016-17

- Resilience funds for major infrastructure
- Green mitigation funds for community investment
- Promote ownership
- Local hire to spur reinvestment

For every \$1. spent on hazard mitigation \$6. is saved post-disaster.

National Institute of Building Sciences, 2017

Return to Community

Climate Equity Resilence

C.T.T.

мітнūм





For more information:

Sandy Mendler, AIA, APA Mithun <u>sandym@mithun.com</u> https://www.youtube.com/watch?v=YHw80_4flBg

Funding—

- Community Based
 - Social Impact Bond
 - Community Land Trust
- Community Facilities District
 - Opportunity Zone SIB
- Green Mitigation Fund
 - Republic Services / Chevron
 - CAPP Program
- Grants
 - Grants Measure AA
 - Prop 1
 - Cap and Trade (AHSC, TCC)

