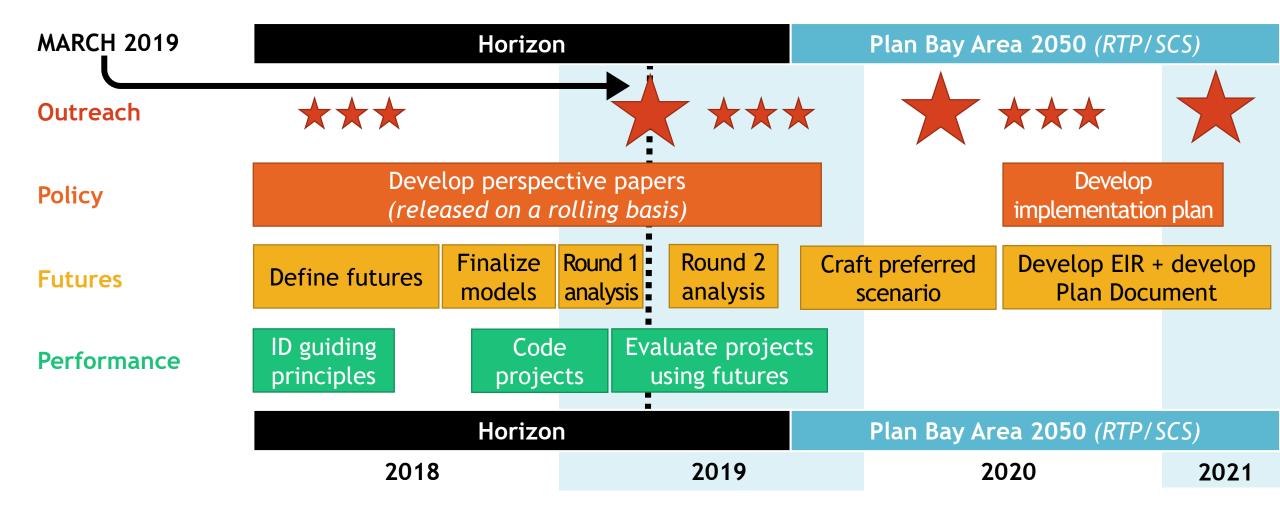
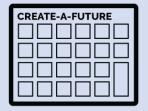


Schedule for Horizon and Plan Bay Area 2050



Futures Process

OUTREACH











ROUND 1 ANALYSIS

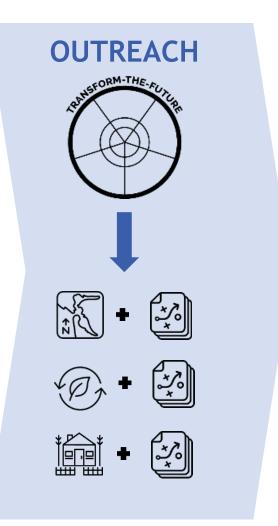
Current Strategies





REPORT





ROUND 2 ANALYSIS

New Strategies







Futures **Analysis**

Plan Bay Area 2040
Adopted in July 2017

Horizon Futures Round 1 Analysis

- How does the region's currently-adopted Plan fare in an era of uncertainty?
- What are the opportunities and challenges the region may face?

Horizon Futures Round 2 Analysis

- How might new strategies result in improved outcomes in each future?
- Which strategies are effective across many futures?



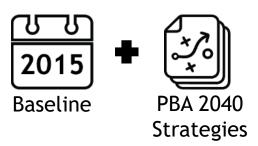


















External Forces

FUTURE NAME	IMMIGRATION AND TRADE	NATIONAL TAXES AND FUNDING	NATIONAL GROWTH	LAND USE PREFERENCES	NATIONAL ENVIRONMENTAL POLICY	NEW TECHNOLOGIES	NATURAL DISASTERS
Rising Tides, Falling Fortunes	Reduced	Lower funding due to tax cuts	Limited	Housing: more urban	Relaxed	More limited	Magnitude 7.0 Hayward Fault earthquake
				Similar to today	regulations (3' SLR)		
Clean and Green	Similar to today	Higher funding via carbon tax	Similar to today	Housing: more urban	Stricter regulations (1' SLR)	Widespread	Magnitude 7.0 Hayward Fault earthquake
				Jobs: more dispersed			
Back to the Future	Increased	Similar to today	Rapid	Housing: more dispersed	Similar to today (2' SLR)	Widespread	Magnitude 7.0 Hayward Fault earthquake
				Jobs: more urban			



Plan Bay Area 2040 Policies

Land Use

- Assign higher density than currently allowed by cities in select PDAs.
- Keep urban growth boundaries in place.
- Preserve and incorporate office space caps in some job-rich cities.
- Assume 10% inclusionary zoning for all for-profit housing development.
- Assume eased parking minimums, streamlined process, and subsidies stimulate development in PDAs.

Transportation

- Operate and Maintain Fix-it-First; Ongoing Operations
- Modernize Caltrain Electrification, BART Core Capacity, New BRT Lines, Bay Area Forward, etc.
- Expand BART to Silicon Valley, Caltrain DTX, Express Lanes Network, etc.

Three Futures

By imagining three different futures for the Bay Area, we can begin to explore the impacts associated with each path forward.



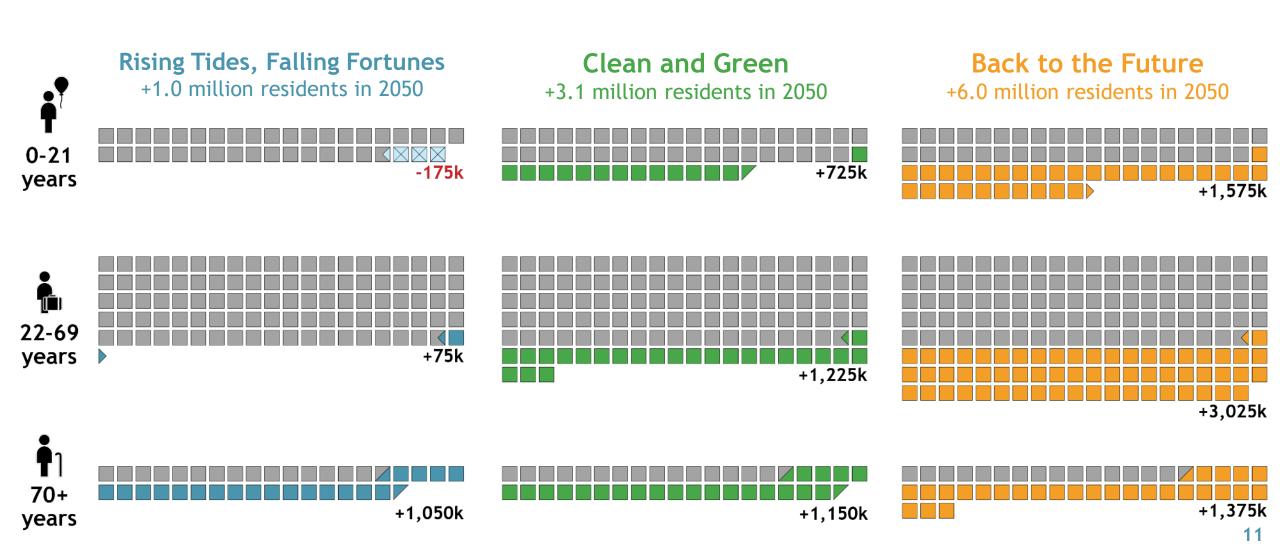




Population Growth

■ = 50,000 residents.

a single line represents 1 million residents



Housing Growth

Circle color is representative of year.



Clean and Green

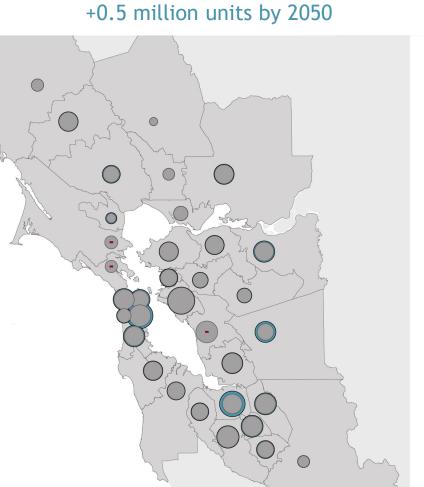
+1.3 million units by 2050

Circle area is representative of the number of homes.

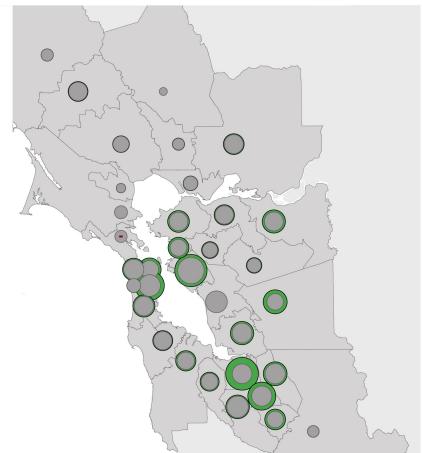
50k 100k 500k

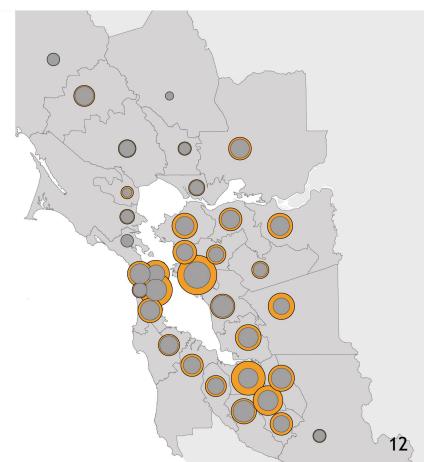
Back to the Future

+2.1 million units by 2050



Rising Tides, Falling Fortunes





Job Growth

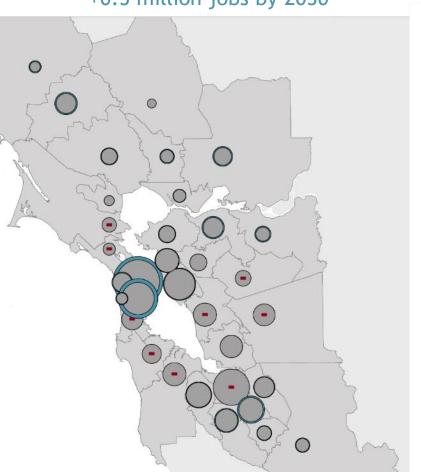
Circle color is representative of year.



Circle area is representative of the number of jobs.

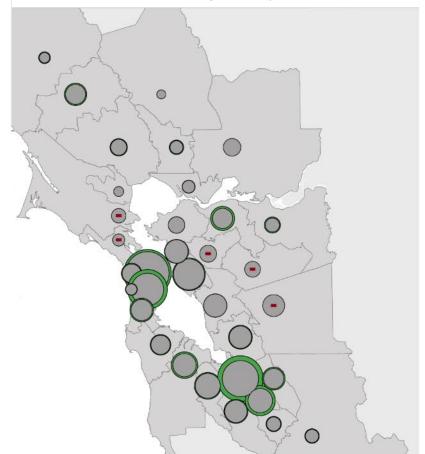
50k 100k 500k

Rising Tides, Falling Fortunes +0.5 million jobs by 2050



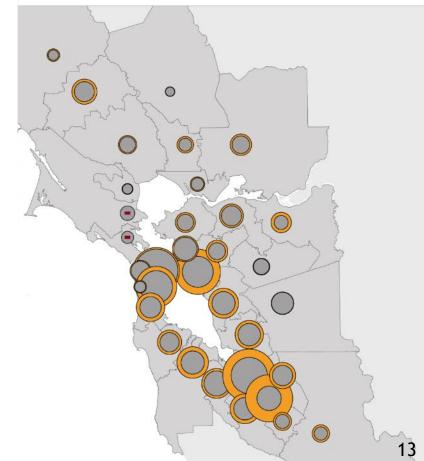
Clean and Green

+1.1 million jobs by 2050



Back to the Future

+2.7 million jobs by 2050



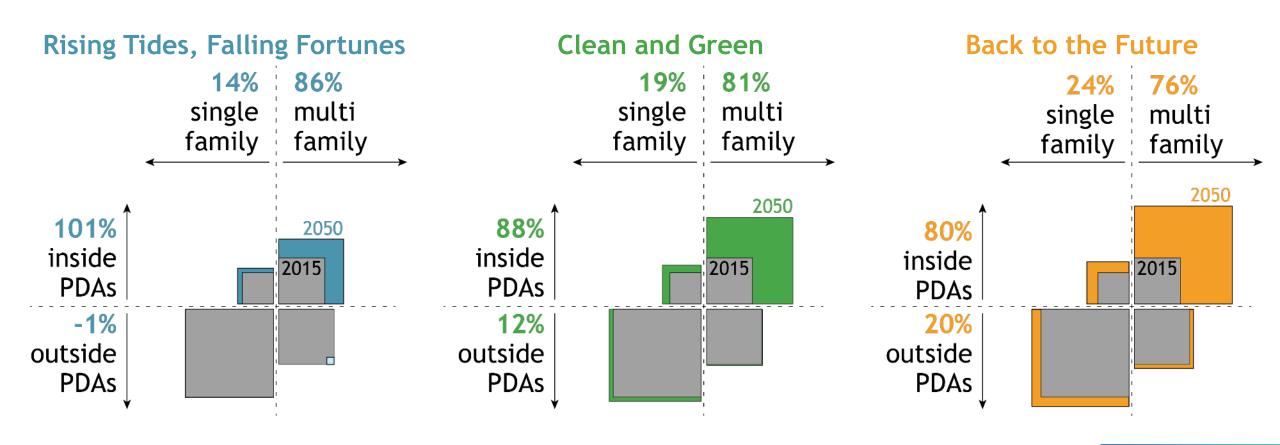
Opportunities & Challenges: Top 10 Findings

We have explored the opportunities and challenges associated with each future across the five Guiding Principles of Horizon.

Opportunity



Priority Development Areas (PDAs) thrive in all three futures, putting a greater share of residents close to higher-quality affordable transit.



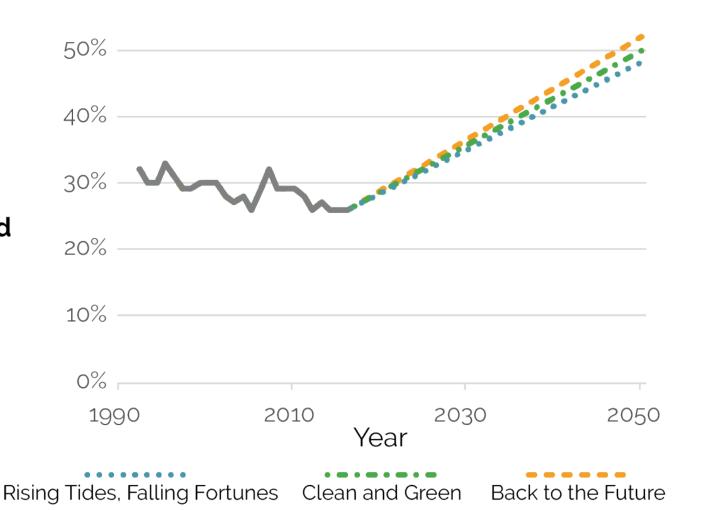
Challenge



Without new strategies in place, Bay Area housing affordability is likely to continue to get worse.

Average
Share of
Household
Income
Spent on
Housing

Observed





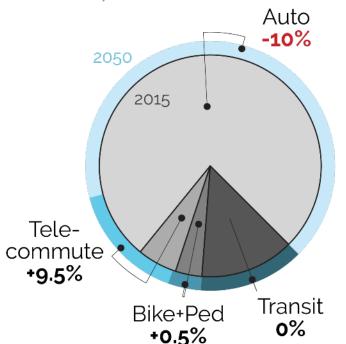
Opportunity



With growing demand for telecommuting and transit, a smaller percentage of residents may need to depend on automobiles to get around.

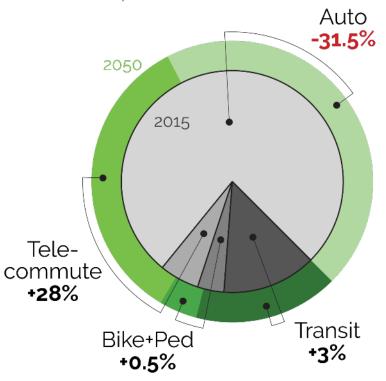
Rising Tides, Falling Fortunes

In 2050, 67% of commuters use autos.



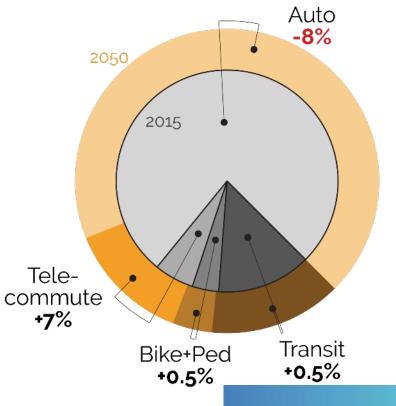
Clean and Green

In 2050, 45% of commuters use autos.



Back to the Future

In 2050, 69% of commuters use autos.



Challenge



Without new strategies like roadway pricing, changing conditions will result in even higher levels of traffic congestion.

Rising Tides, Falling Fortunes
Limited AV, Similar cost to drive,
Similar ownership model

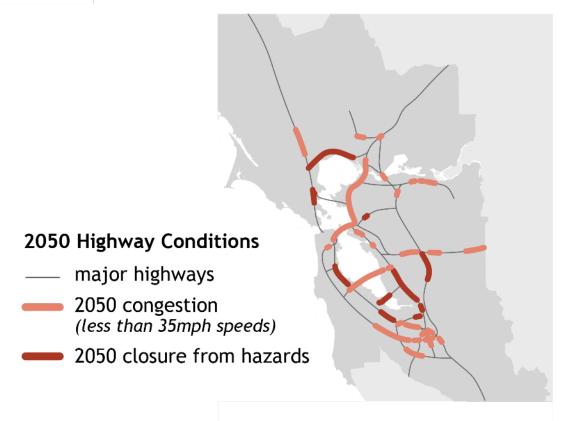
Clean and Green

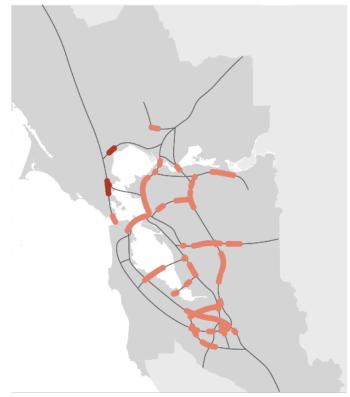
Significant AV, High cost to drive,

Shared ownership model

Back to the Future

<u>Significant</u> AV, <u>Low</u> cost to drive,
<u>Individual</u> ownership model





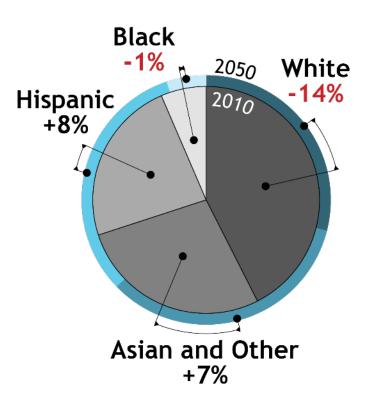


Opportunity #1

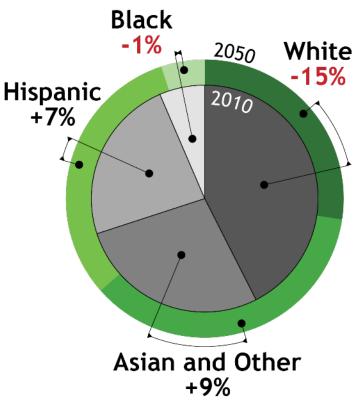


The Bay Area is likely to become more racially diverse over time, driven primarily by immigration from abroad.

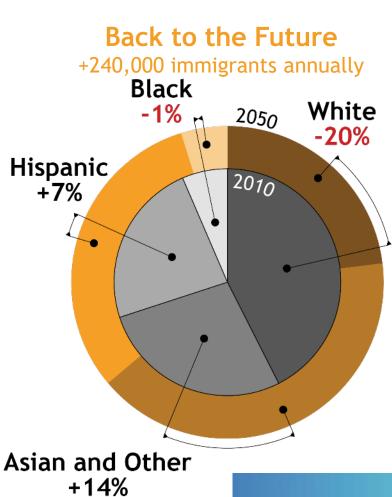
Rising Tides, Falling Fortunes +20,000 immigrants annually



Clean and Green +80,000 immigrants annually



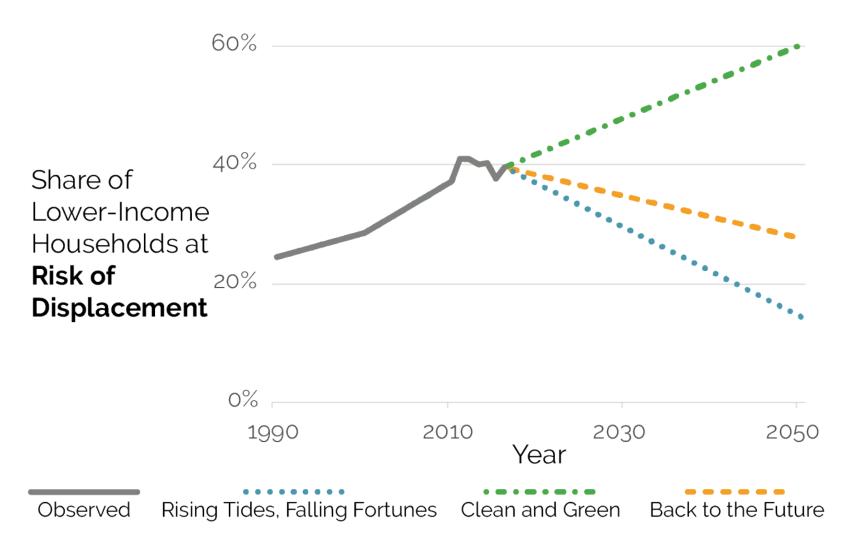
Above is the change in regional share. In Rising Tides, a future with slower growth, the absolute number of white residents decreases. In Back to the Future, a future with faster growth, the absolute number of white residents increases, but as a share of the regional population it decreases.



Opportunity #2

DIVERSE

Rapid housing growth - or an economy cool-off - could both help ease displacement pressures.

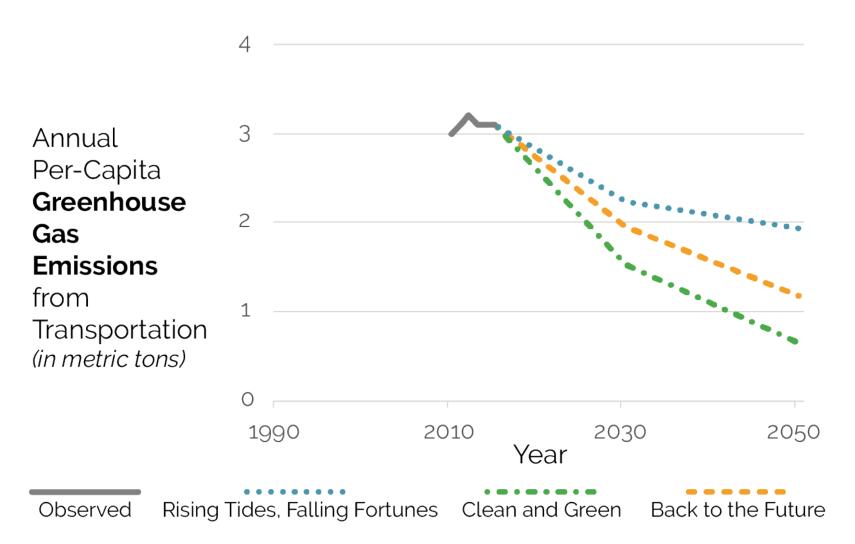




Opportunity



Electrification and urban growth boundaries could reduce human impacts on the environment.

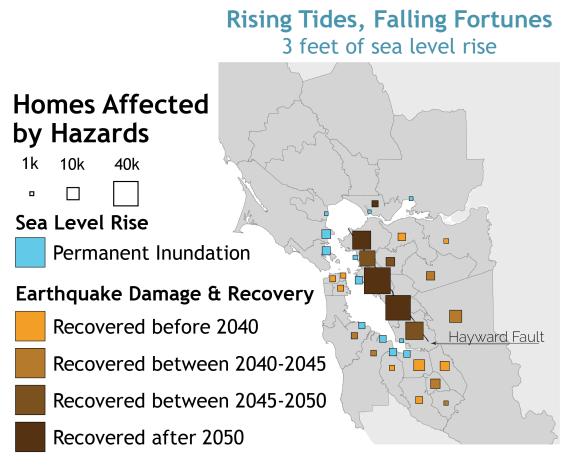


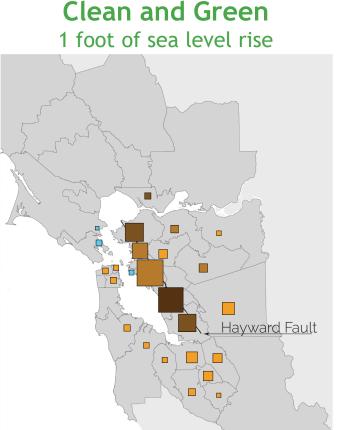


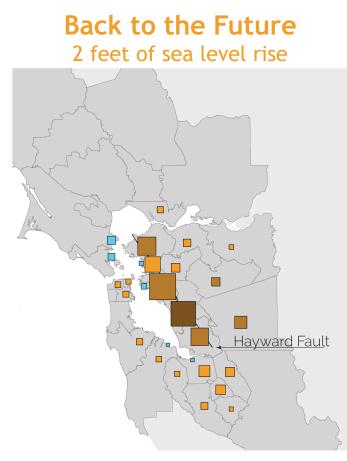
Challenge



Acute impacts from sea level rise and natural disasters will be more difficult to recover from if the region's economy is weak.



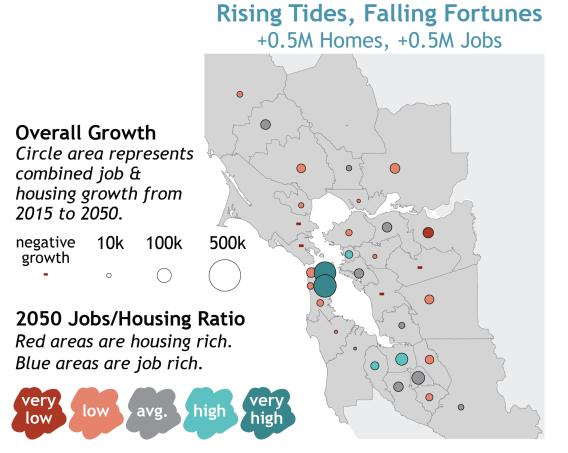


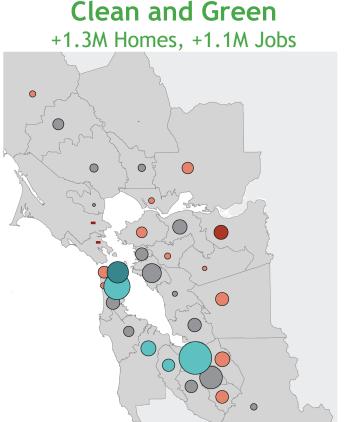


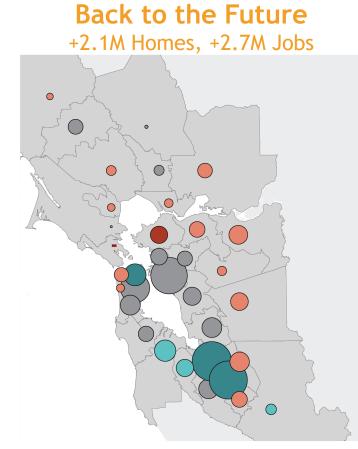
Challenge #1



Land use strategies included in *Plan Bay Area 2040* are insufficient to address the region's longstanding jobs-housing imbalance.



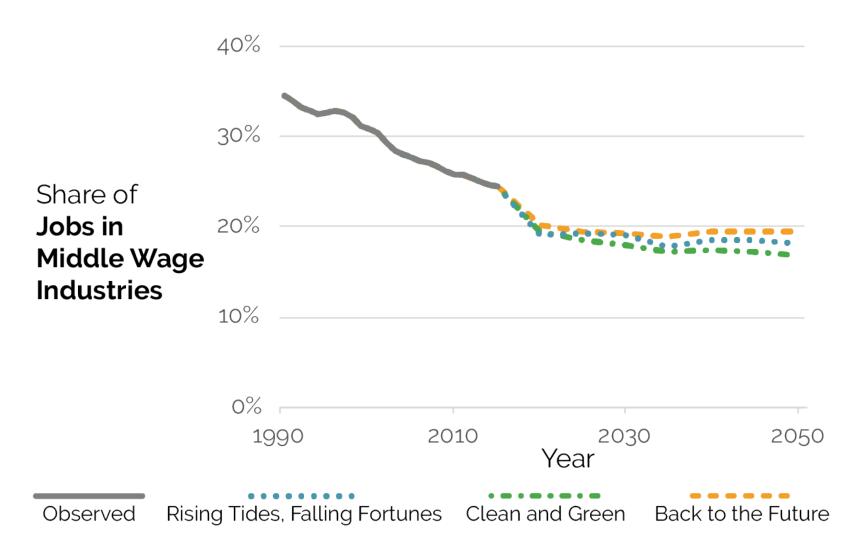




Challenge #2



Middle-wage jobs continue to disappear in all three futures.





Futures Scorecard - Guiding Principles (1)

	Selected Indicators from VITAL Masigns	2015	Rising Tides, Falling Fortunes 2050 Plan Bay Area 2040	Clean and Green 2050 Plan Bay Area 2040	Back to the Future 2050 Plan Bay Area 2040
			Policies	Policies	Policies
AFFORDABLE	Housing costs (share of income)	26%	48%	50%	52%
	Housing production (net new units)	16,000	14,000	38,000	60,000
CONNECTED	Non-auto commute mode share	25%	33%	55%	31%
	Average commute time (minutes)	31	34	36	40
DIVERSE	Risk of displacement (share of lower-income HHs)	38%	14%	60%	28%

Futures Scorecard - Guiding Principles (2)

	Selected Indicators from VITAL SIGNS	2015	Rising Tides, Falling Fortunes 2050 Plan Bay Area 2040 Policies	Clean and Green 2050 Plan Bay Area 2040 Policies	Back to the Future 2050 Plan Bay Area 2040 Policies
DIVERSE	Low-income population (share of overall population)	50%	54%	37%	39%
HEALTHY	Greenhouse gas emissions (per-capita)	3.0	1.9	0.7	1.2
	Annual greenfield development (acres)	1,200	300	300	500
VIBRANT	Jobs in middle-wage industries (share of all jobs)	21%	18%	17%	19%
	Gross regional product (inflation-adjusted)	\$0.7 trillion	\$1.1 trillion	\$2.1 trillion	\$1.9 trillion 26



Futures Interim Report: Opportunities and Challenges

The full report highlights a broader suite of opportunities and challenges, delving into specifics for each future.

Go to: mtc.ca.gov/our-work/plans-projects/horizon/futures-planning



HORIZON

What's Next?

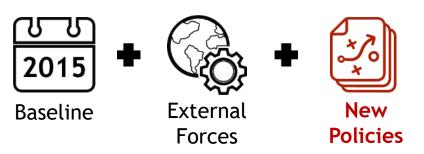
The conditions in each future present unique challenges and opportunities for the region to leverage and address in the next round of analysis.

Next Step for Futures: Round 2

Horizon Futures Round 2 Analysis

- How might new strategies result in improved outcomes in each future?
- Which strategies are effective across many futures?





Strategies are based on existing and future Perspective Papers:

- Autonomous Vehicles
- Toward a Shared Future
- Growth Strategies
- The Future of Jobs (Coming in April)
- Bay Crossings (Coming in May)
- Sea Level Rise (Coming in September)

Strategies are also based on other efforts, including:

- CASA
- BCDC's Adapting to Rising Tides Program
- Comprehensive Economic Development Strategy
- Horizon/Plan Bay Area 2050 Project Performance



Get Involved Planning the Region's Future!

Stakeholder Workshop

San Francisco

3/11/19 - 8:30 AM to 1:30 PM

Public Workshops

Oakland

3/12/19 - 6:00 PM to 8:00 PM

San Jose

3/14/19 - 6:00 PM to 8:00 PM

Petaluma

3/16/19 - 10:00 AM to 12:00 PM

San Bruno

3/19/19 - 6:00 PM to 8:00 PM

Vallejo

3/20/19 - 6:00 PM to 8:00 PM

Online Outreach

vitalsigns.mtc.ca.gov/horizon

We're seeking input from stakeholders & the public on which strategies would transform each future - and we'll report back next month.

