#### MEMORANDUM



Agenda Item 7a

DATE: March 6, 2019

TO: Joint MTC Planning Committee with the

ABAG Administrative Committee

FR: Deputy Executive Director, Policy

RE: <u>Horizon: Interim Futures Report - Opportunities and Challenges</u>

#### **Summary**

Today, MTC/ABAG staff are releasing the Opportunities and Challenges Report, which highlights major opportunities and challenges that the Bay Area might face in the coming decades as a result of three "what if...?" scenarios known as futures. This report is a key milestone of the *Horizon* long-range planning process, designed to help prioritize strategies in an era of uncertainty. Over the past six months, staff have analyzed the three futures finalized in summer 2018 using economic, land use, and travel models. This work is focused on exploring how previously unmodeled external forces, such as autonomous vehicles, rate of sea level rise, and national economic growth, affect the Bay Area's future - assuming that today's policies continue in future decades.

The final report provides a set of opportunities and challenges for each future, organized by impacts on the five *Horizon* Guiding Principles: affordable, connected, diverse, healthy, and vibrant. The report will be available on the *Horizon* website at <u>bayareametro.gov/horizon</u>.

#### The Futures Process

Futures Planning is a new way of looking at long-range planning, focusing on exploring divergent "what if...?" scenarios to identify strategies that are effective in a wide variety of circumstances. It replaces traditional scenario planning where funding and growth are distributed based on fixed assumptions; instead, the Futures Planning process outlines a variety of potential political, technological, economic and environmental challenges that would affect the lives of Bay Area residents.

Based on the first round of analysis, the Opportunities and Challenges Report explores the future conditions of the Bay Area with current policies - in part, to understand what challenges may emerge if we do not take action in the coming years. This month, we pivot to the next phase of Futures Planning for *Horizon*, delving into prioritization of strategies for further testing in the second round of analysis.

Guiding Principles



External Forces



Futures Creation



Futures Selection



Analysis with Current Policies



Strategies Prioritization



Analysis with Optimized Strategies

#### **Upcoming Opportunities to Provide Strategy Feedback**

Based on feedback from stakeholders and residents in March, MTC/ABAG will identify a suite of transportation, land use, economic development, and resilience strategies to apply to each future in the second round of analysis. An optimized mix of strategies will be incorporated for each future, with the goal of better understanding the effectiveness of current and new strategies across a range of potential future conditions.

In the coming weeks, staff will engage with the public, stakeholders, and community-based organizations to get feedback on which strategies should be prioritized for further study for each future:

- Technical Stakeholders Workshop (1)
- Public Workshops (5)
  - o March 12, 6pm-8pm; Oakland, 101 8th Street
  - o March 14, 6pm-8pm; San Jose, 200 E. Santa Clara Street
  - o March 16, 10am-12pm; Petaluma, 320 North McDowell Blvd
  - o March 19, 6pm-8pm; San Bruno, 1150 El Camino Real
  - o March 20, 6pm-8pm; Vallejo, 253 Georgia Street
- Community Based Organization Focus Groups (8)
- Online Engagement via Vital Signs Website: <a href="http://www.vitalsigns.mtc.ca.gov/horizon">http://www.vitalsigns.mtc.ca.gov/horizon</a>

#### **Next Steps**

Staff will return to the MTC Planning and ABAG Administrative Committees in April with a summary of feedback from March outreach and a preliminary list of strategies to analyze in each of the three futures for the next phase of *Horizon*.

lix A. Bockelman

#### Attachments:

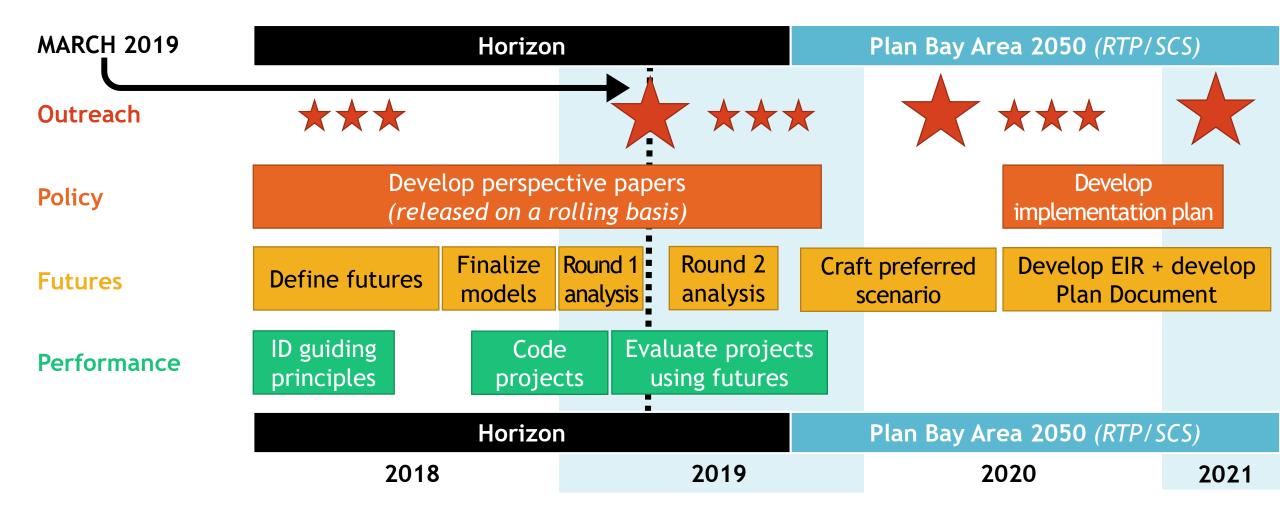
Attachment A: Presentation

AAB:mg

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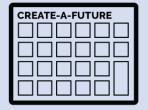


# Schedule for Horizon and Plan Bay Area 2050



### **Futures Process**

#### **OUTREACH**











#### **ROUND 1 ANALYSIS**

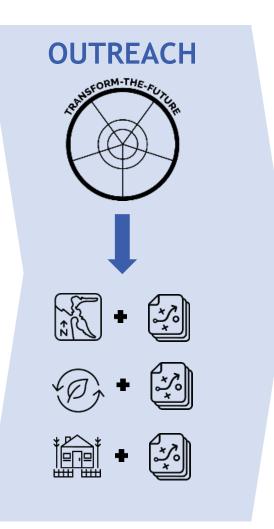
**Current Strategies** 





#### **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?



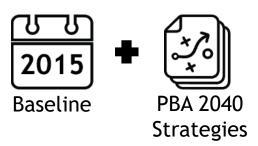


















# **External Forces**

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 <b>urban</b>	Relaxed	More <b>limited</b>	Magnitude 7.0 Hayward Fault earthquake
				Similar to today	regulations (3' SLR)		
Clean and Green	Similar to today	<b>Higher funding</b> via carbon tax	Similar to today	Housing: more <b>urban</b>	Stricter regulations (1' SLR)	Widespread	Magnitude 7.0 Hayward Fault earthquake
				Jobs: more <b>dispersed</b>			
Back to the Future	Increased	Similar to today	Rapid	Housing: more <b>dispersed</b>	Similar to today (2' SLR)	Widespread	Magnitude 7.0 Hayward Fault earthquake
				Jobs: more <b>urban</b>			



# 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.



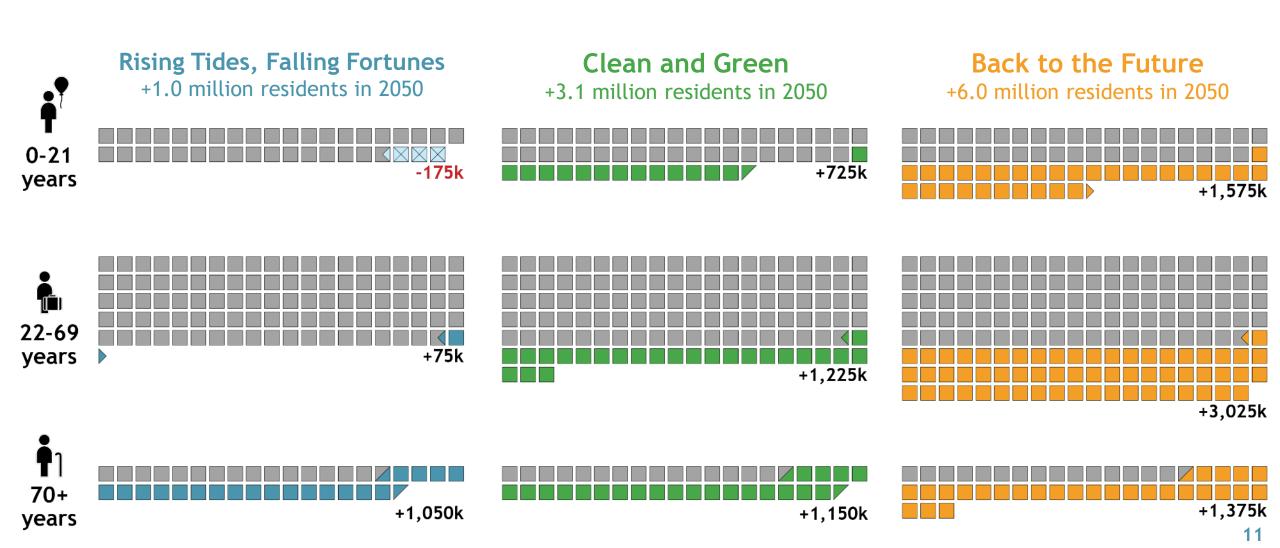




# **Population Growth**

■ = 50,000 residents.

a single line represents 1 million residents



# Housing Growth

Circle color is representative of year.



Circle area is representative of the number of homes.

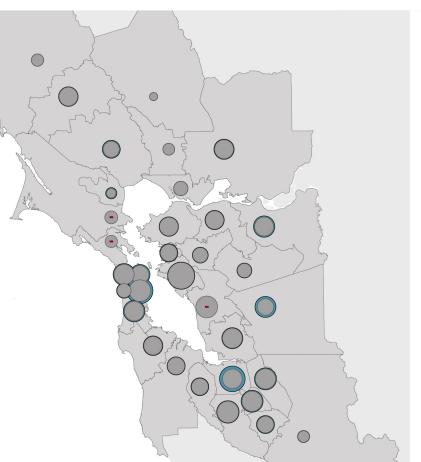
500k 100k

#### **Back to the Future**

+2.1 million units by 2050

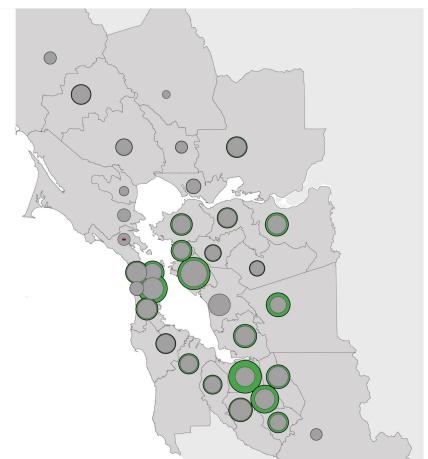


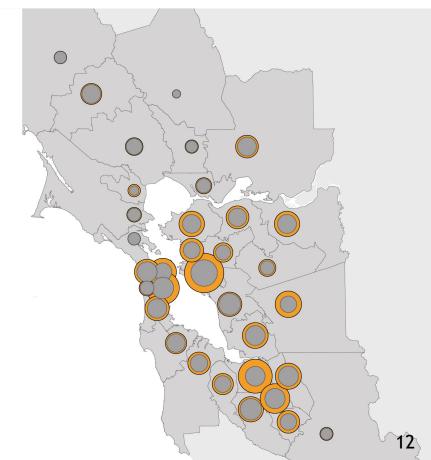
+1.3 million units by 2050



Rising Tides, Falling Fortunes

+0.5 million units by 2050





### Job Growth

Circle color is representative of year.



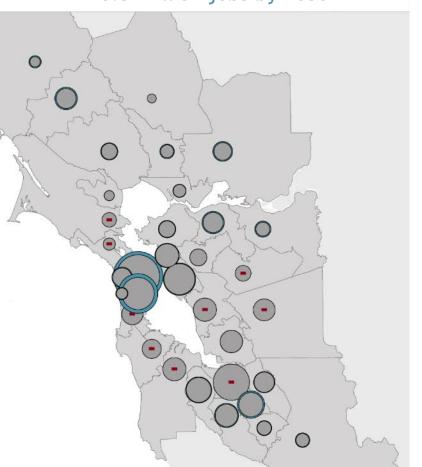
### Circle area is representative of the number of jobs.

50k 100k 500k

**Back to the Future** 

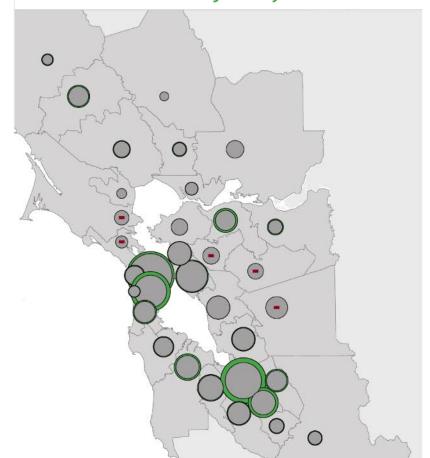
+2.7 million jobs by 2050

#### Rising Tides, Falling Fortunes +0.5 million jobs by 2050



#### **Clean and Green**

+1.1 million jobs by 2050





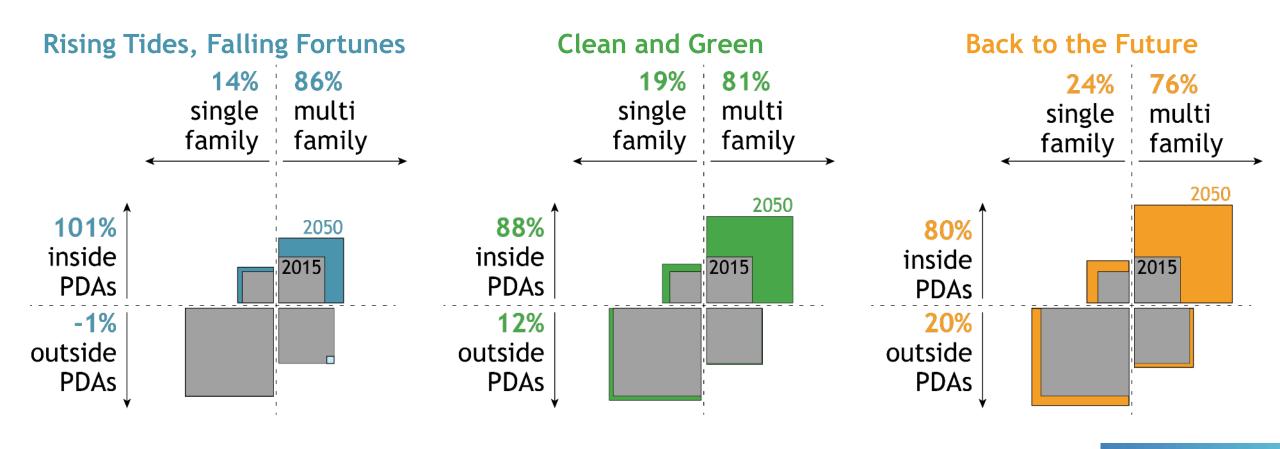
# Opportunities & Challenges: Top 10 Findings

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.



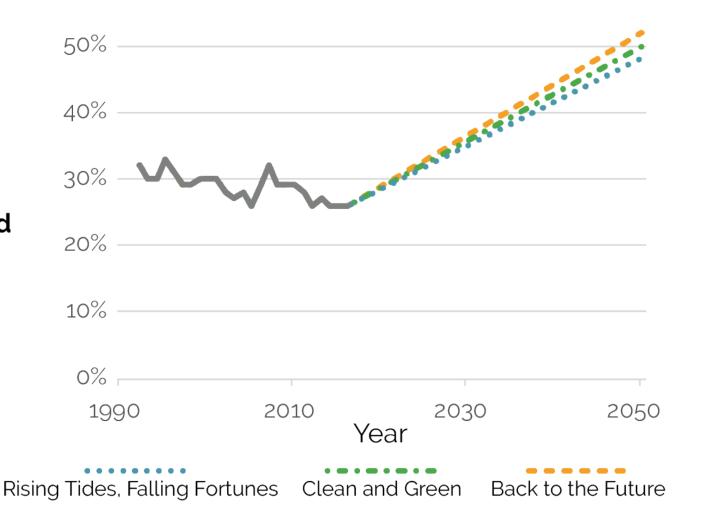
# Challenge



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





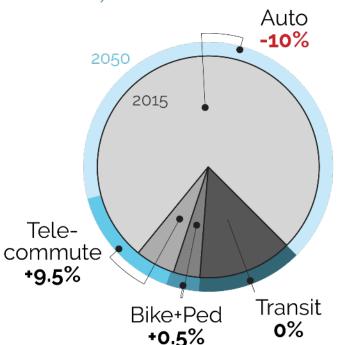
# **Opportunity**



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

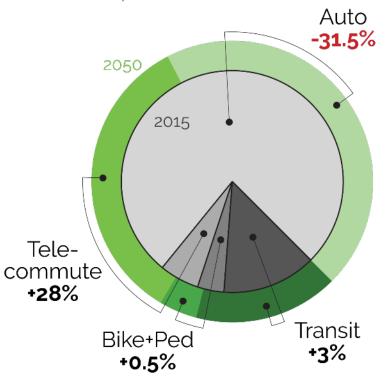
#### Rising Tides, Falling Fortunes

In 2050, 67% of commuters use autos.



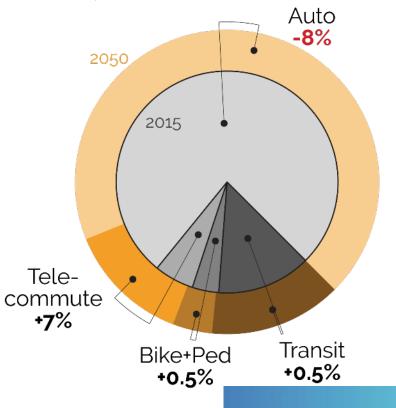
#### Clean and Green

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

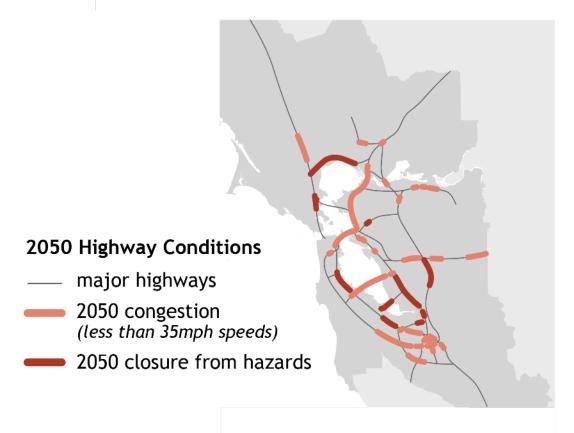
Clean and Green

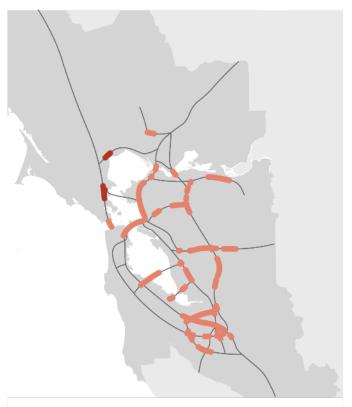
Significant AV, High cost to drive,

Shared ownership model

Back to the Future

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





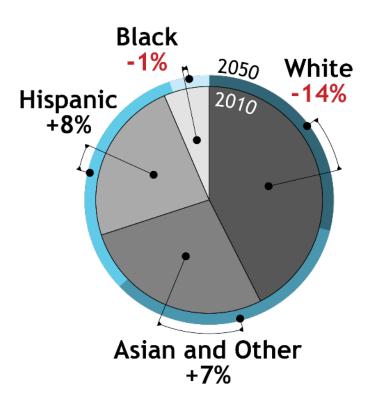


# Opportunity #1

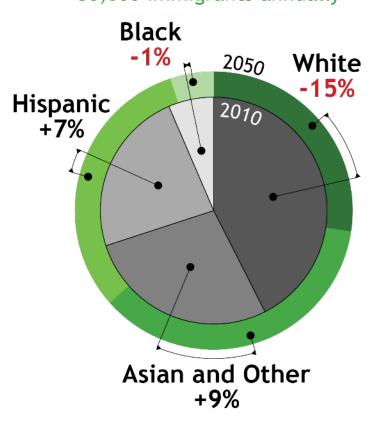


The Bay Area is likely to become more racially diverse over time, driven primarily by immigration from abroad.

# Rising Tides, Falling Fortunes +20,000 immigrants annually



# Clean and Green +80,000 immigrants annually



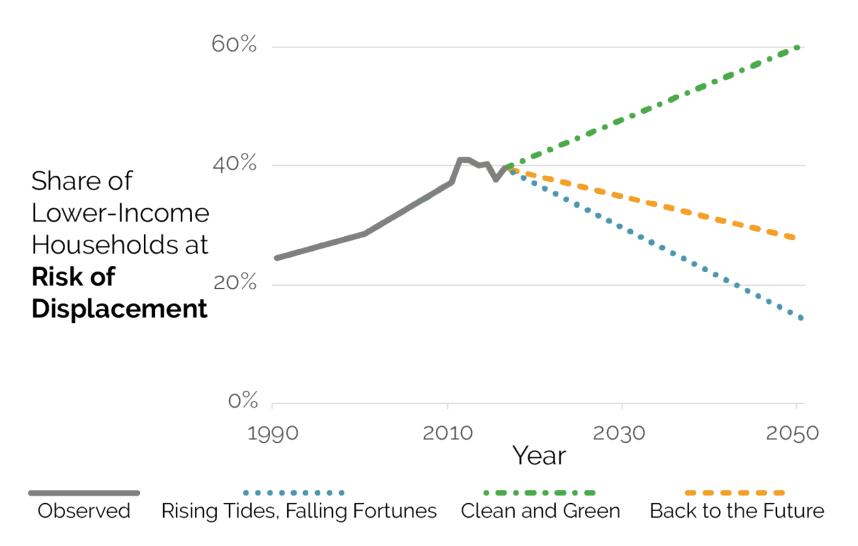
### Back to the Future +240,000 immigrants annually Black White -1% 205<sub>0</sub> -20% Hispanic 2010 +7% Asian and Other +14%

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.

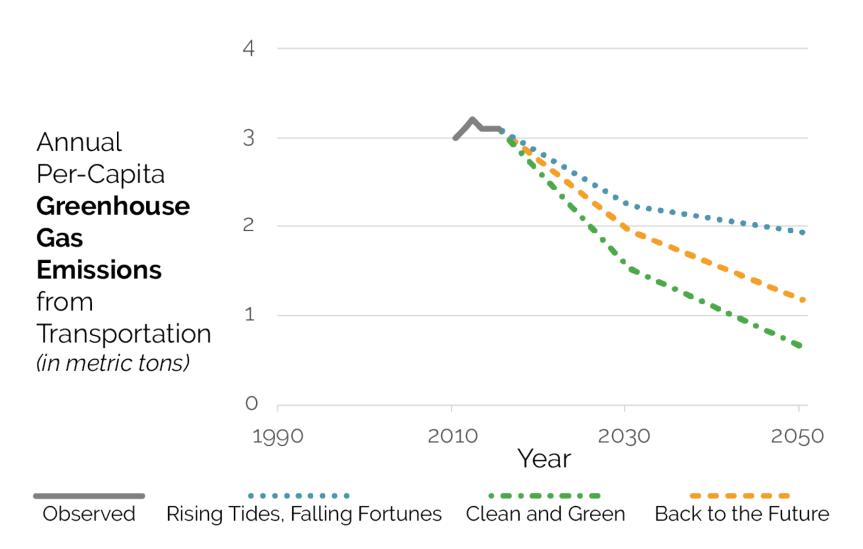




# **Opportunity**



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

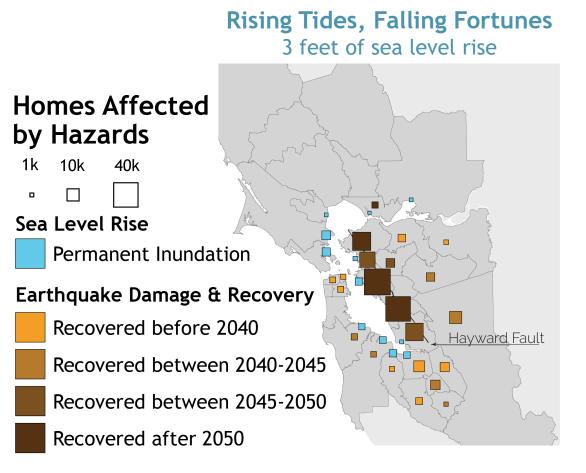


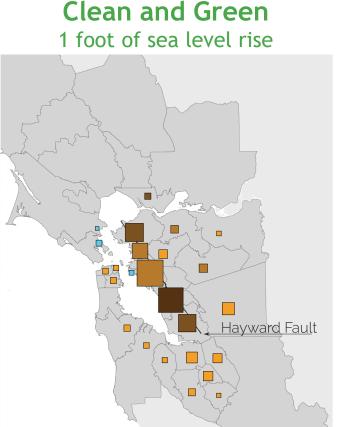


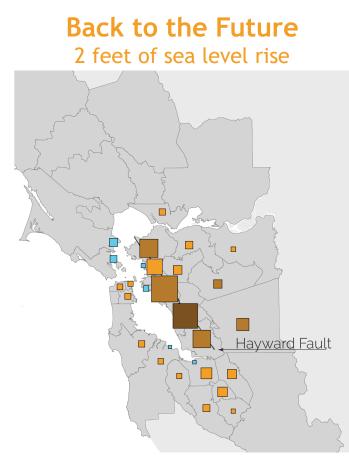
### Challenge



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



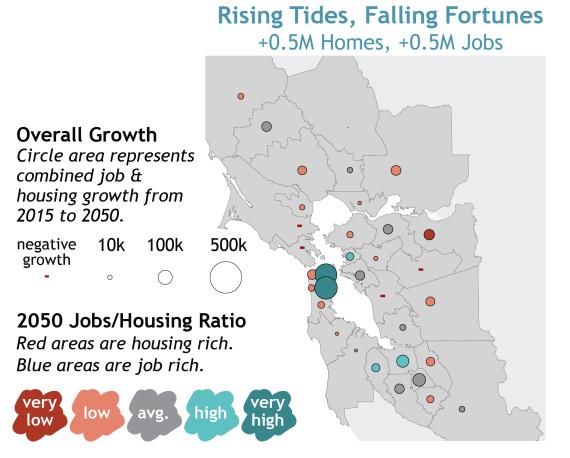


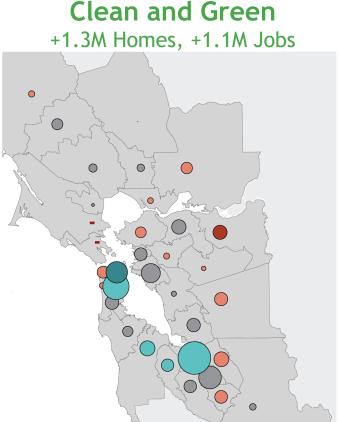


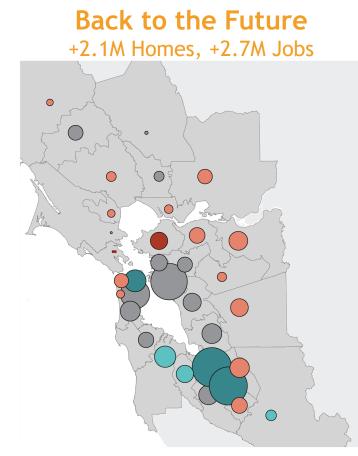
# Challenge #1



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



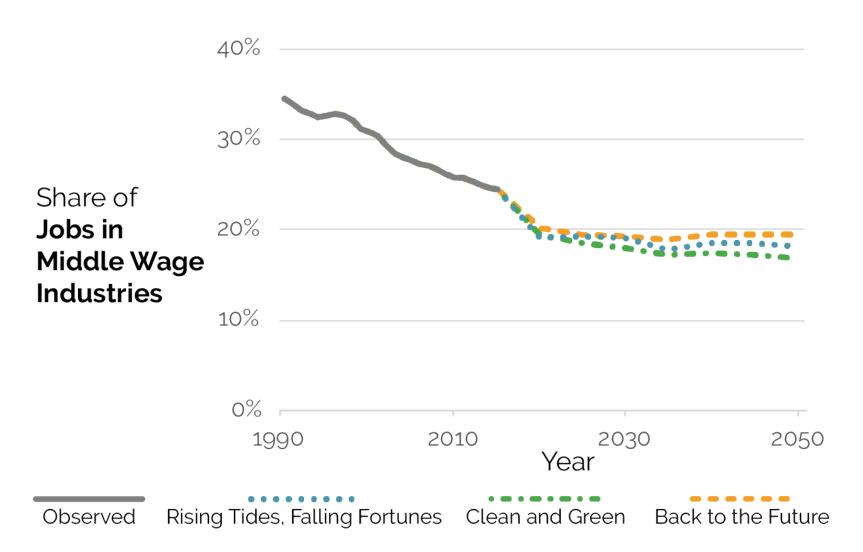




# Challenge #2



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





# Futures Scorecard - Guiding Principles (1)

	Selected Indicators from VITAL MSIGNS	2015	Rising Tides, Falling Fortunes <b>2050</b> Plan Bay Area 2040	Clean and Green  2050 Plan Bay Area 2040	Back to the Future <b>2050</b> 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 <b>2050</b> Plan Bay Area 2040 Policies	Clean and Green  2050 Plan Bay Area 2040 Policies	Back to the Future <b>2050</b> 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	<b>\$1.9</b> trillion <sub>26</sub>



# 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: <a href="mailto:mtc.ca.gov/our-work/plans-projects/horizon/futures-planning">mtc.ca.gov/our-work/plans-projects/horizon/futures-planning</a>



#### HORIZON

# What's Next?

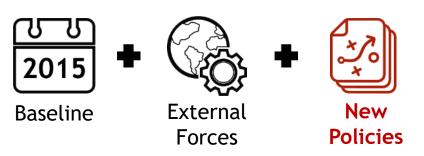
The conditions in each future present unique challenges and opportunities for the region to leverage and address in the next round of analysis.

# 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.

