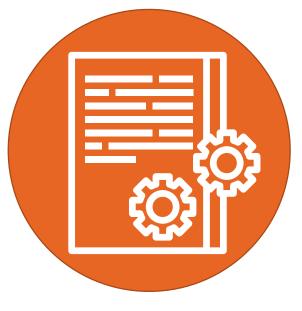
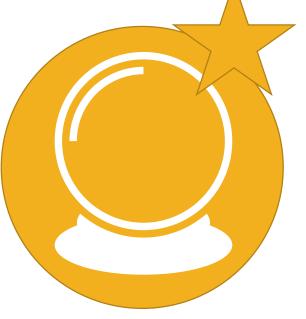
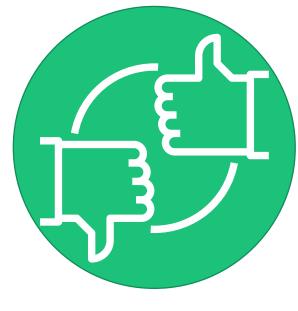


Key Components of Horizon









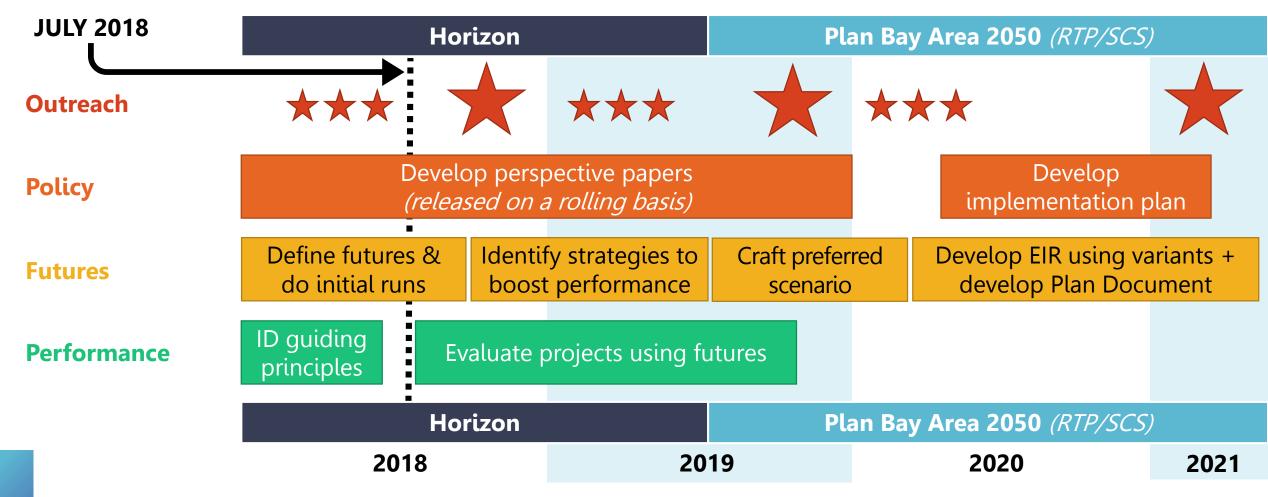
Outreach

Perspective Papers

Futures

Project Performance

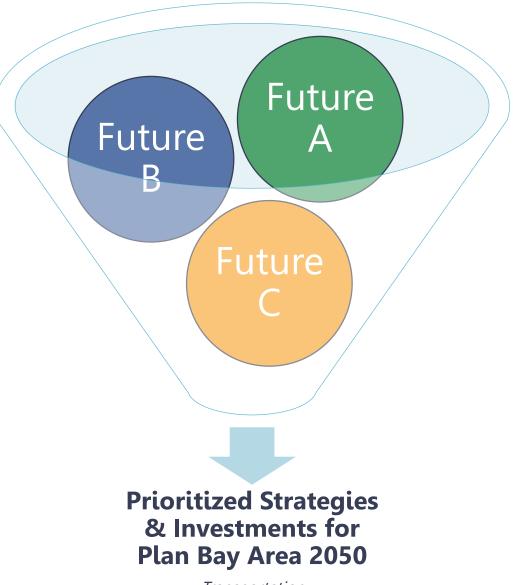
Horizon + Plan Bay Area 2050 Overview



Why Are We Creating Futures?

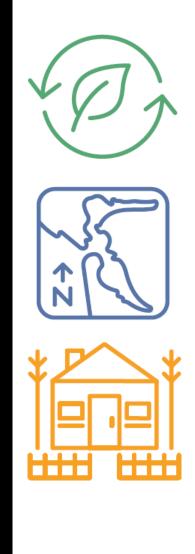
Creating a range of divergent futures will allow us to envision how the San Francisco Bay Area would respond to a wide range of external forces. The futures enable us to "stress test" policies and investments to ensure they are effective under a range of future conditions.

However, this is not a traditional scenario planning process – none of the futures is likely to be selected as a "preferred". Rather than selecting a "preferred scenario" from this process as in past plans, the strategies that perform best in multiple futures will be incorporated into Plan Bay Area 2050.



Transportation
Land Use
Economic Development
Resilience

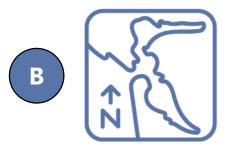
Overview Video: Proposed Futures



Three Futures – "What If?" Scenarios



What if... new technologies and a national carbon tax enabled greater telecommuting and distributed job centers?



Falling

Rising Tides, What if... the federal government cuts spending and reduces regulations, leaving more policy decisions to states and regions?

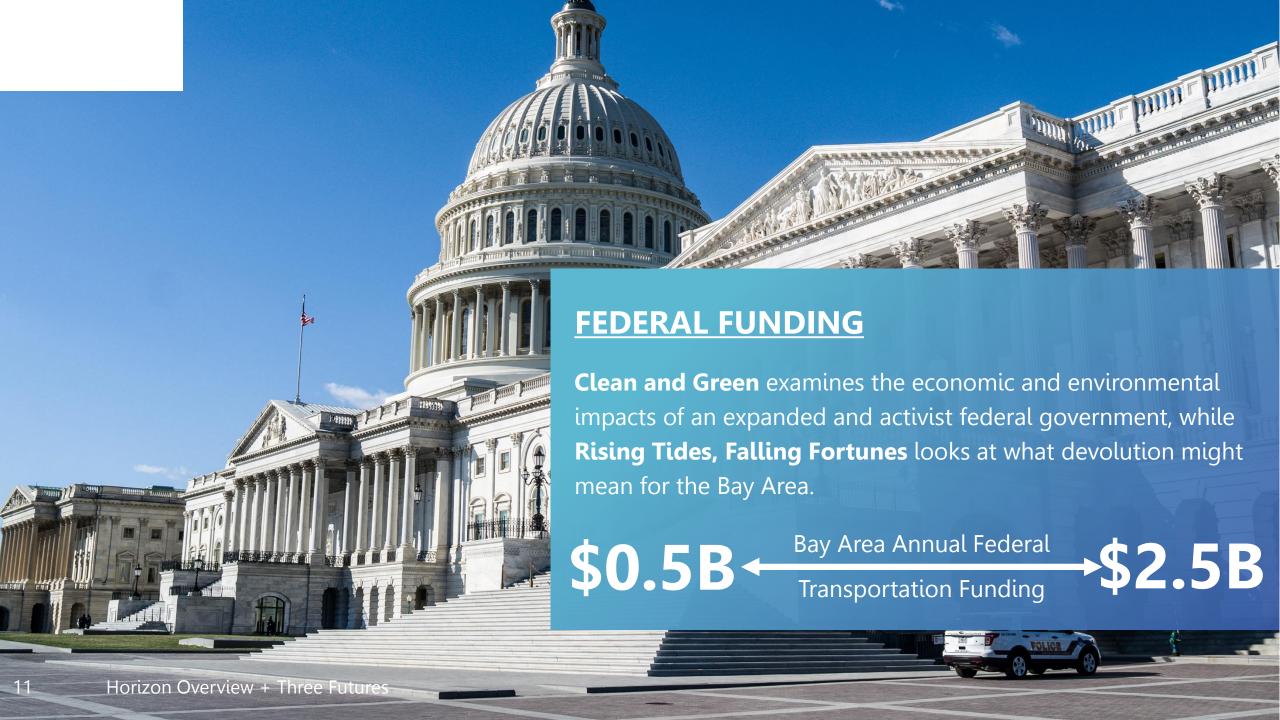


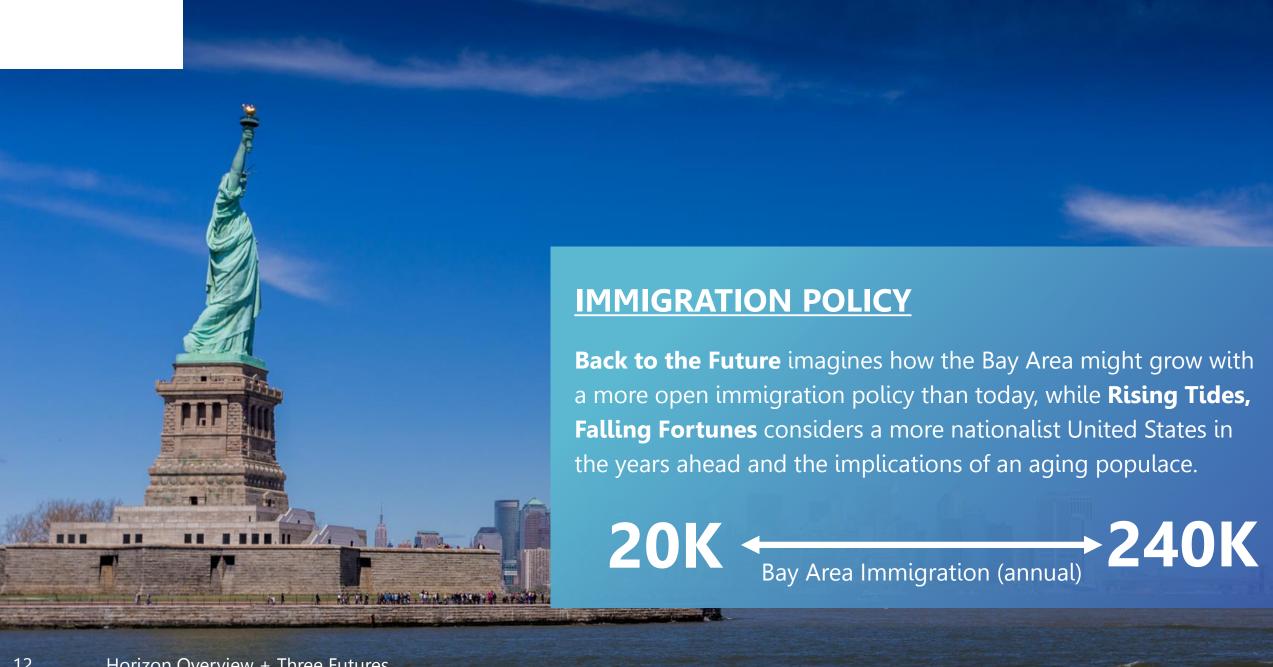
Back to

What if... an economic boom and new transportation options spur a new wave of development?









Back to the Future imagines how the Bay Area might grow with a more open immigration policy than today, while Rising Tides, Falling Fortunes considers a more nationalist United States in the years ahead and the implications of an aging populace.



Summary: External Forces

#	FUTURE NAME	IMMIGRATION AND TRADE	NATIONAL TAXES AND FUNDING	NATIONAL GROWTH	LAND USE PREFERENCES	NATIONAL ENVIRONMENTAL POLICY	NEW TECHNOLOGIES	NATURAL DISASTERS
Α	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			
В	Rising Tides, Falling Fortunes	Reduced	Lower funding due to tax cuts	Limited	Housing: more urban	Relaxed regulations (3' SLR)	More limited	Magnitude 7.0 Hayward Fault earthquake
					Similar to today			
С	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			

COLOR LEGEND

Lower value





Creating Futures from Ideas

What might these external forces mean for the Bay Area?

How can we translate assumptions about global and national trends into a picture of the region's future?



Tools for Translating Ideas Into Futures

 REMI: a stylized model of the economy, from the present through 2050

- Side-model analyses
 - Household analysis
 - Income distribution analysis
 - Revenue forecasts (separate approach)

REMI:

National Factors

REMI:

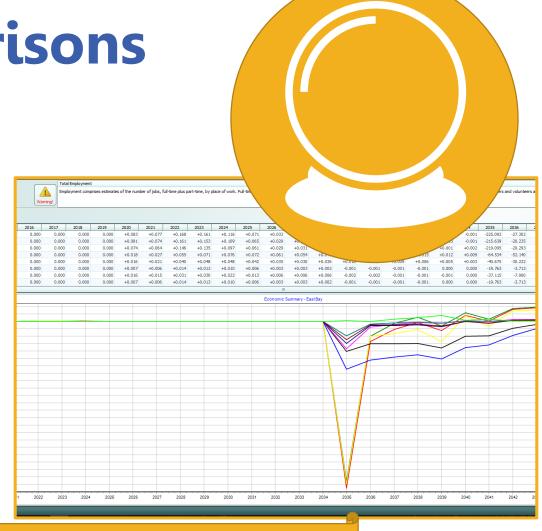
Regional Jobs
Regional Output
Regional
Population

ABAG/MTC:

Income
Distribution
Revenues

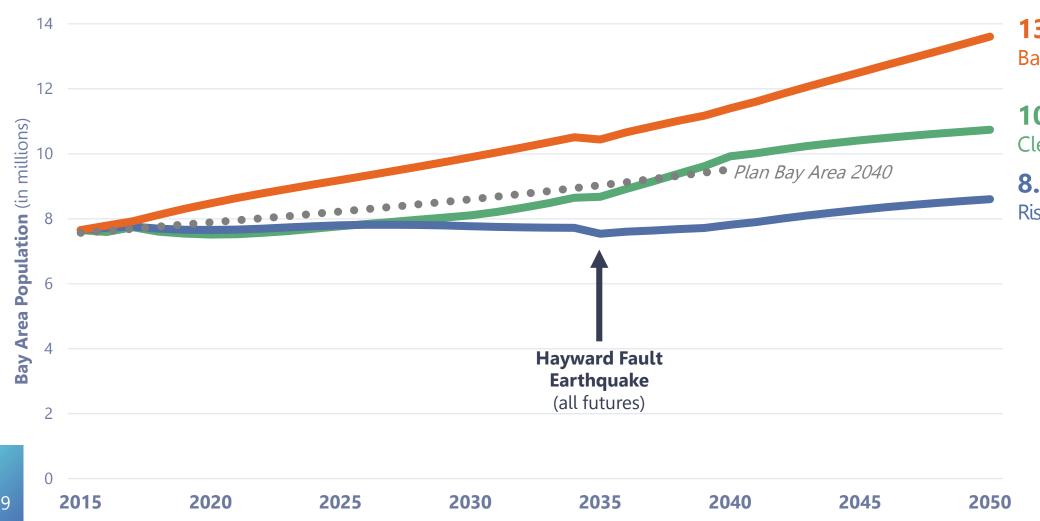
Towards Useful Comparisons

- New assumptions change the "future"
 - National jobs, population, output
 - Regional jobs, population, output, total income
 - Households by income category
 - Revenues
- Handcrafting results
- Review & refinement through the month of July



Economic forecasters assume everything except responsibility

Futures: Bay Area Population (draft)



13.6 million

Back to the Future

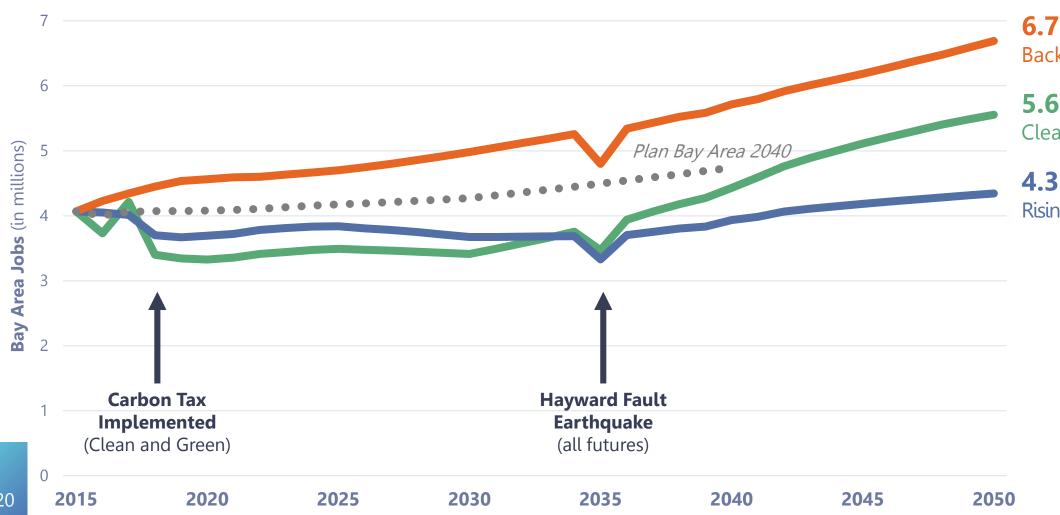
10.7 million

Clean and Green

8.5 million

Rising Tides, Falling Fortunes

Futures: **Bay Area Jobs** (draft)



6.7 million

Back to the Future

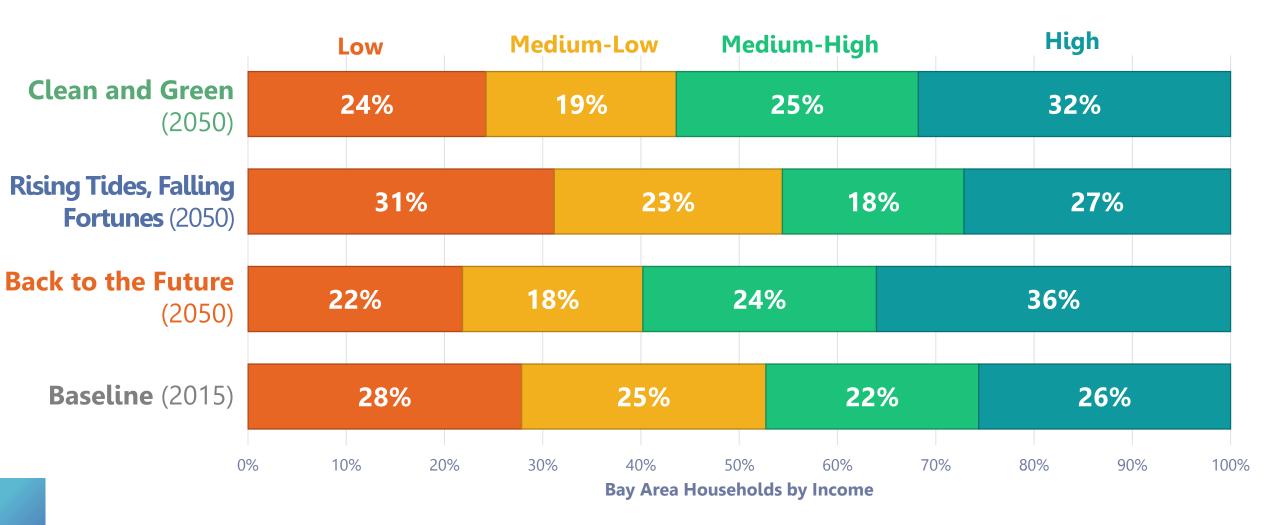
5.6 million

Clean and Green

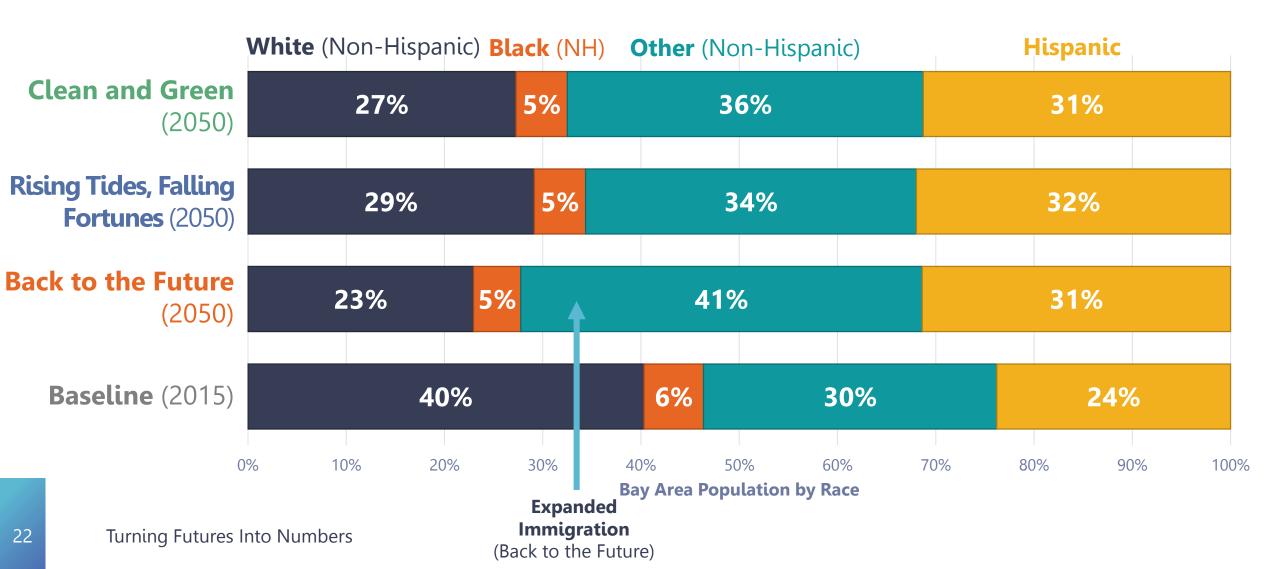
4.3 million

Rising Tides, Falling Fortunes

Futures: Bay Area Household Incomes (draft)

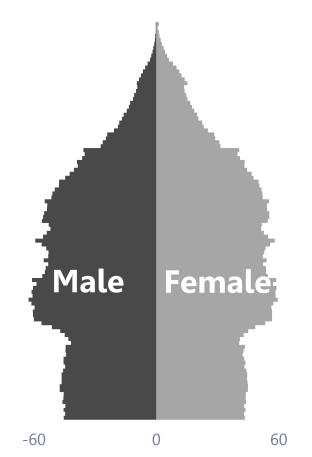


Futures: Bay Area Population by Race (draft)

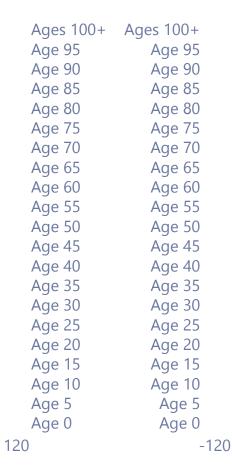


Futures: Bay Area Population by Age (draft)

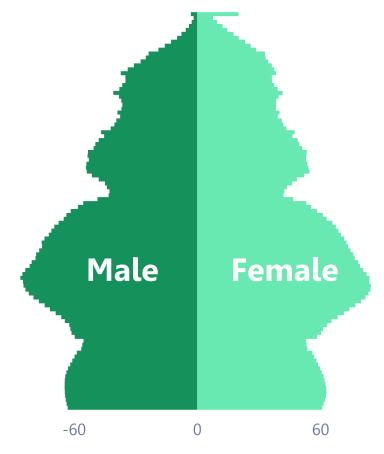
Baseline (2015)



Bay Area Population by Age



Clean and Green (2050)



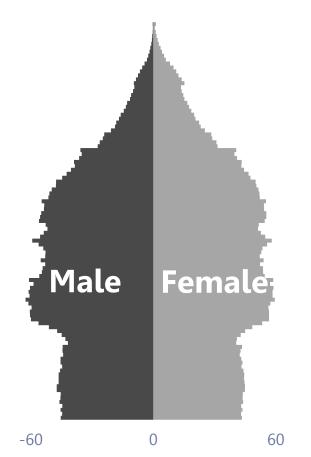
Bay Area Population by Age

120

-120

Futures: Bay Area Population by Age (draft)

Baseline (2015)



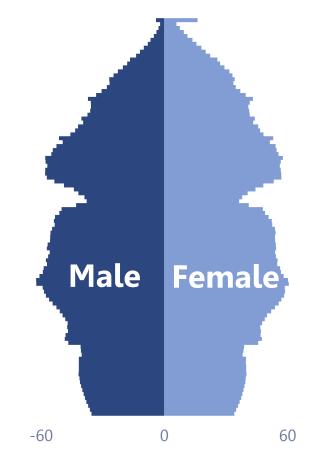
Bay Area Population by Age

Ages 100+ Ages 100+ Age 95 Age 95 Age 90 Age 90 Age 85 Age 85 Age 80 Age 80 Age 75 Age 75 Age 70 Age 70 Age 65 Age 65 Age 60 Age 60 Age 55 Age 55 Age 50 Age 50 Age 45 Age 45 Age 40 Age 40 Age 35 Age 35 Age 30 Age 30 Age 25 Age 25 Age 20 Age 20 Age 15 Age 15 Age 10 Age 10 Age 5 Age 5 Age 0 Age 0

120

-120

Rising Tides, Falling Fortunes (2050)



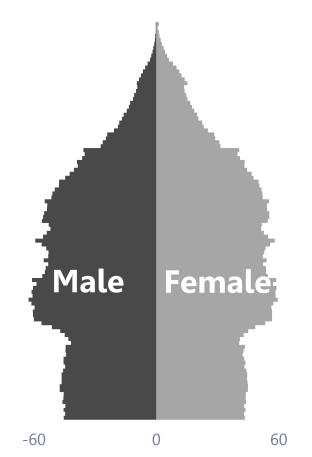
Bay Area Population by Age

120

-120

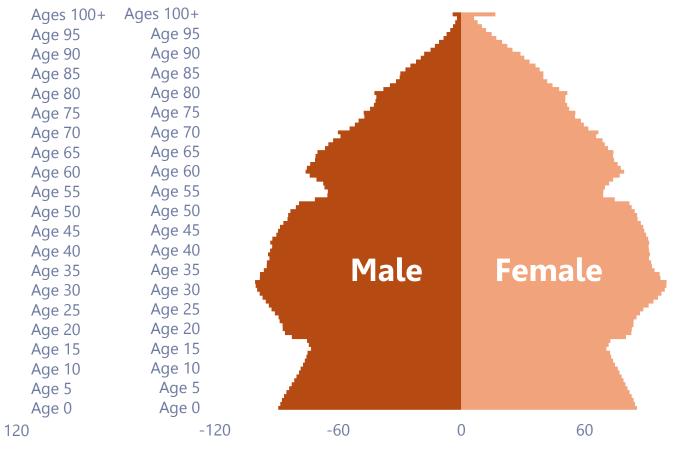
Futures: Bay Area Population by Age (draft)

Baseline (2015)



Bay Area Population by Age

Back to the Future (2050)

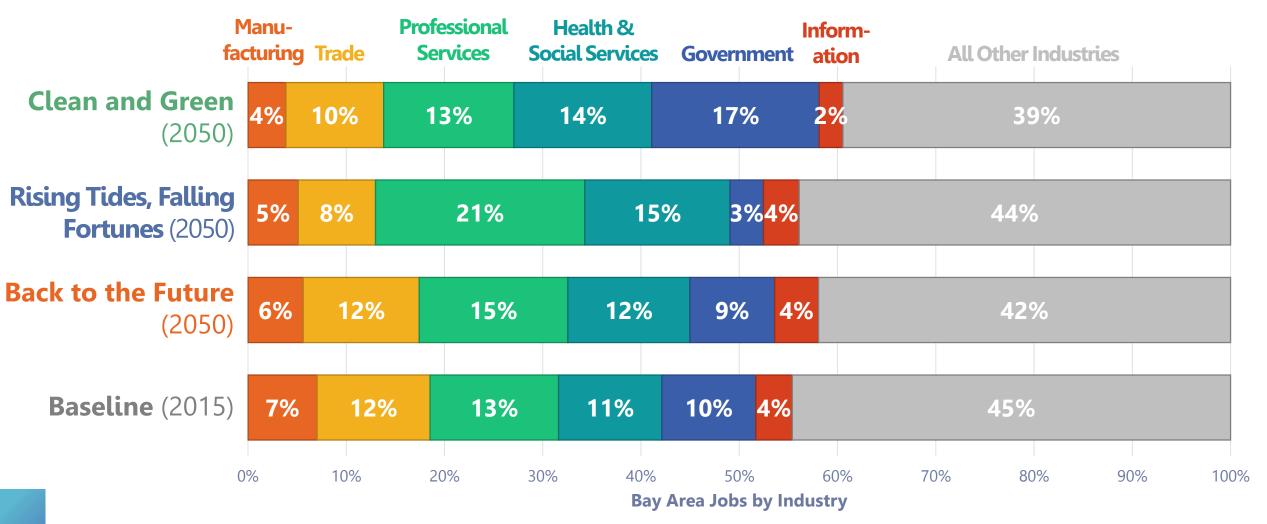


Bay Area Population by Age

120

-120

Futures: Bay Area Jobs by Industry (draft)



Futures: **Summary Table** (draft)

#	FUTURE NAME	2050 POPULATION	2050 JOBS	2050 INCOME DISTRIBUTION	2050 RACIAL DISTRIBUTION	2050 AGE DISTRIBUTION	
Α	Clean and Green	10.7 million	5.5 million	24% low-income	73% minority	38 median age	Why do economists provide detailed
В	Rising Tides, Falling Fortunes	8.6 million	4.3 million	31 % low-income	71 % minority	43 median age	forecasts out 30 years? To prove
С	Back to the Future	13.6 million	6.7 million	22% low-income	77% minority	38 median age	they have a sense of humor



Year 2040 Forecasts (for reference)
9.6 million residents and 4.7 million jobs

Futures: Bay Area Transport Revenues (draft)

Revenue forecasts for each future **will be finalized using travel & land use model outputs in September**, as revenues are driven by VMT, transit boardings, and other metrics forecasted by those models. Preliminary findings are shown below **for information purposes only**.



Rising Tides, Falling Fortunes

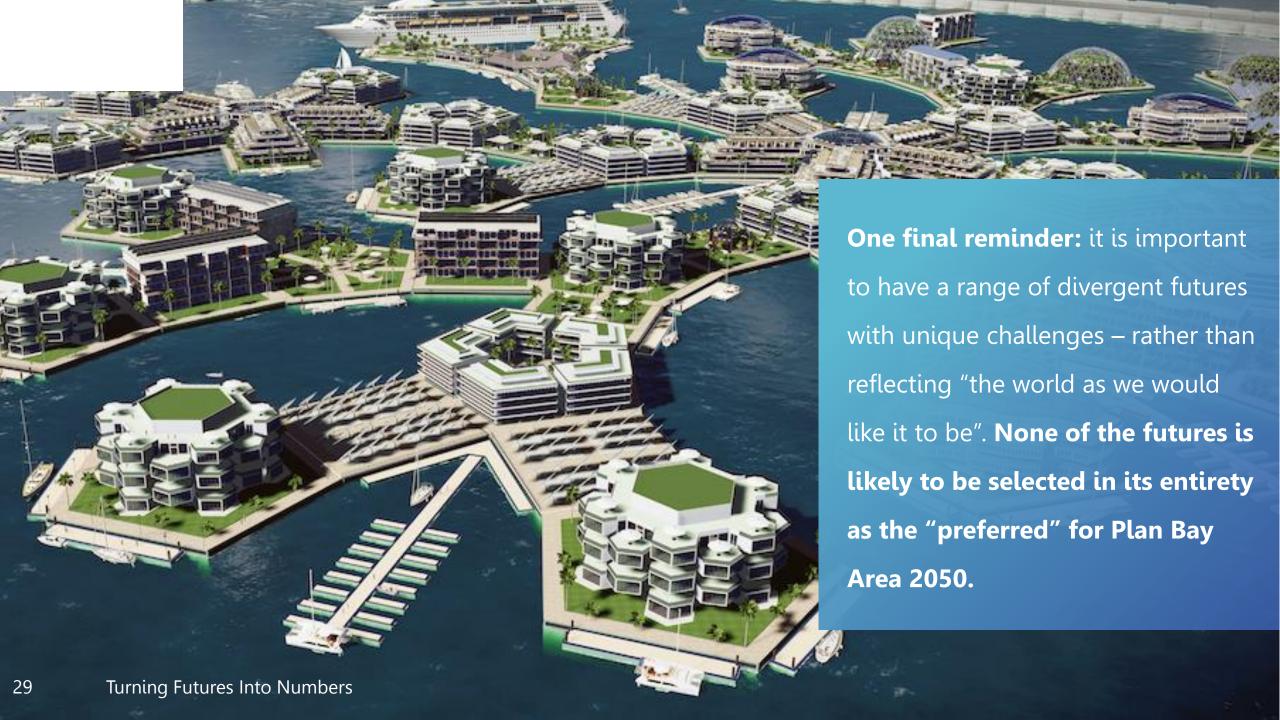
- Impacts from federal funding cuts
- Sales tax revenues decline due to weak economy
- Limited EV sales mean stronger gas tax revenues

Clean and Green

- Changing land use patterns results in declining transit fare revenues
- Significant cuts to SHOPP funding
- Robust federal funding via carbon tax

Back to the Future

- Booming economy & population generates significant local sales tax revenues
- Growth in VMT and transit ridership means more toll revenues and transit fares paid





What's Next for the Futures in Horizon

July 2018

Finalize Futures

Incorporate feedback and prepare to run simulation models for transportation & land use August – October 2018

Round 1 Analysis

Analyze each future with "status quo" strategies to identify opportunities & challenges

Fall **2018**

Strategies Outreach

Collaboratively identify strategies and investments to better align future outcomes with Guiding Principles Winter – Spring 2019

Round 2 Analysis

Test strategies to determine efficacy + develop Final Report on "Win-Win" Strategies

Integrate the most effective and resilient strategies into **Plan Bay Area 2050**

Round 1 Analysis of Futures ("Status Quo")

General Approach for Round 1 Analysis: apply external forces & regional growth forecasts in models and assume that strategies & investments included in Plan Bay Area 2040 move forward

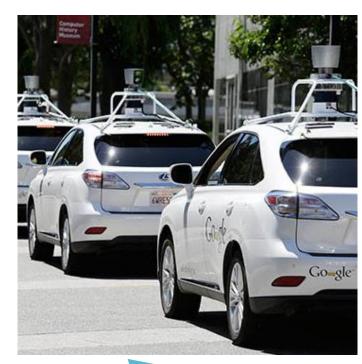
Goal: to identify and quantify opportunities and challenges in each future using Travel Model Two & UrbanSim 1.5



UrbanSim 1.5

Generally assume land use strategies from Plan Bay Area 2040:

- Upzone select PDAs
- Keep UGBs in place
- Implement job caps
 & development fee
- Require 10% deedrestricted housing
- Etc.



Travel Model Two

Generally assume major transportation investments from Plan Bay Area 2040:

- Fix It First
- Express Lanes/ITS
- Transit Modernization
- BART to Silicon Valley
- Caltrain DTX
- Etc.

Strategies Outreach & Round 2 Analysis

- Later this fall, we will be conducting public and stakeholder outreach to determine which strategies and investments would be most effective in improving outcomes in each future.
- Strategies will need to address opportunities and challenges in each future related to:
 - Transportation
 - Land Use/Housing
 - Economic Development
 - Resilience
- **Round 2 Analysis** will involve studying how effective these strategies and investments are in aligning each future more closely with the Guiding Principles to identify "win-win" strategies resilient to changing circumstances.



The San Francisco Bay Area Aspires To Be:



AFFORDABLE

All Bay Area residents and workers have sufficient housing options they can afford – households are economically secure.



CONNECTED

An expanded, well-functioning transportation system connects the Bay Area – fast, frequent and efficient intercity trips are complemented by a suite of local transportation options, connecting communities and creating a cohesive region.



DIVERSE

The Bay Area is an inclusive region where people from all backgrounds, abilities, and ages can remain in place – with access to the region's assets and resources.



HEALTHY

The region's natural resources, open space, clean water and clean air are conserved – the region actively reduces its environmental footprint and protects residents from environmental impacts.



VIBRANT

The Bay Area region is an innovation leader, creating quality job opportunities for all and ample fiscal resources for communities.

What's Next?

