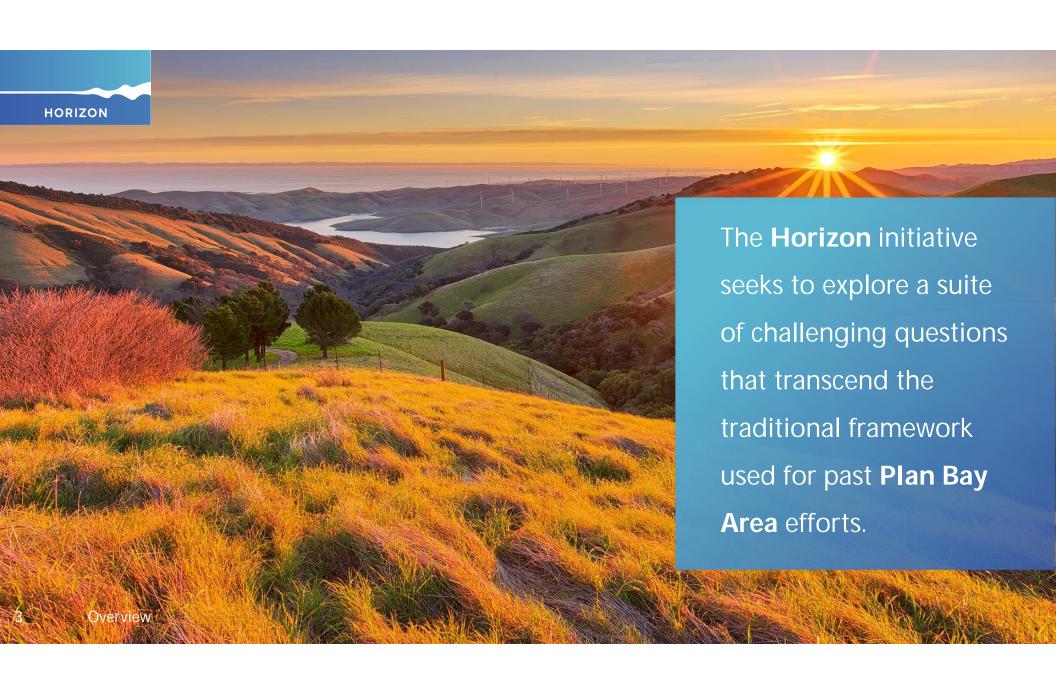
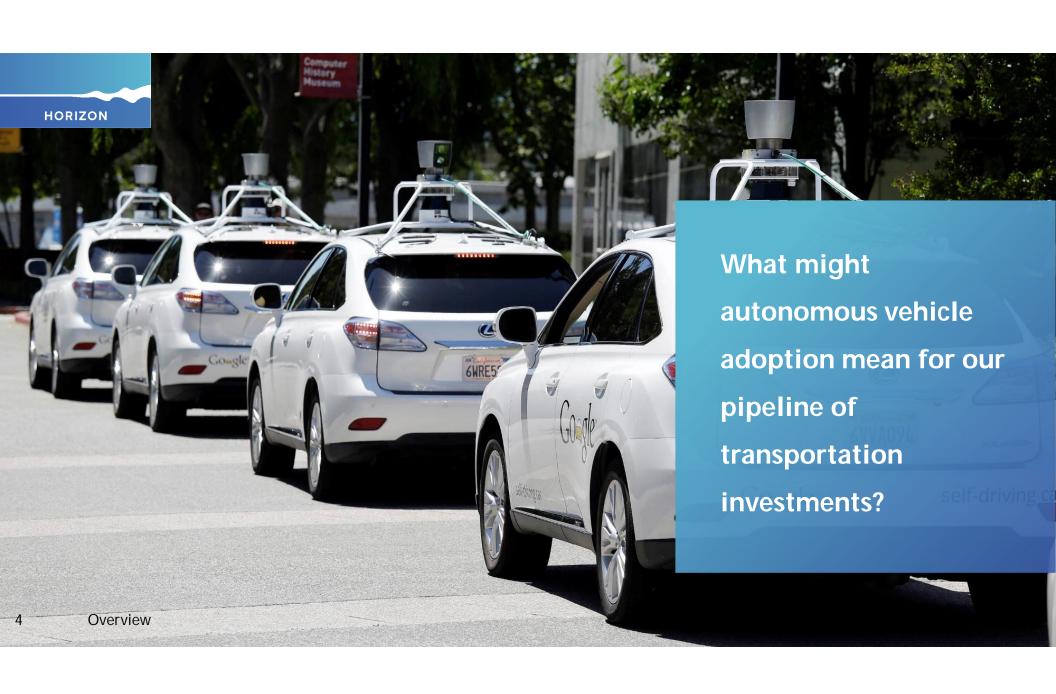


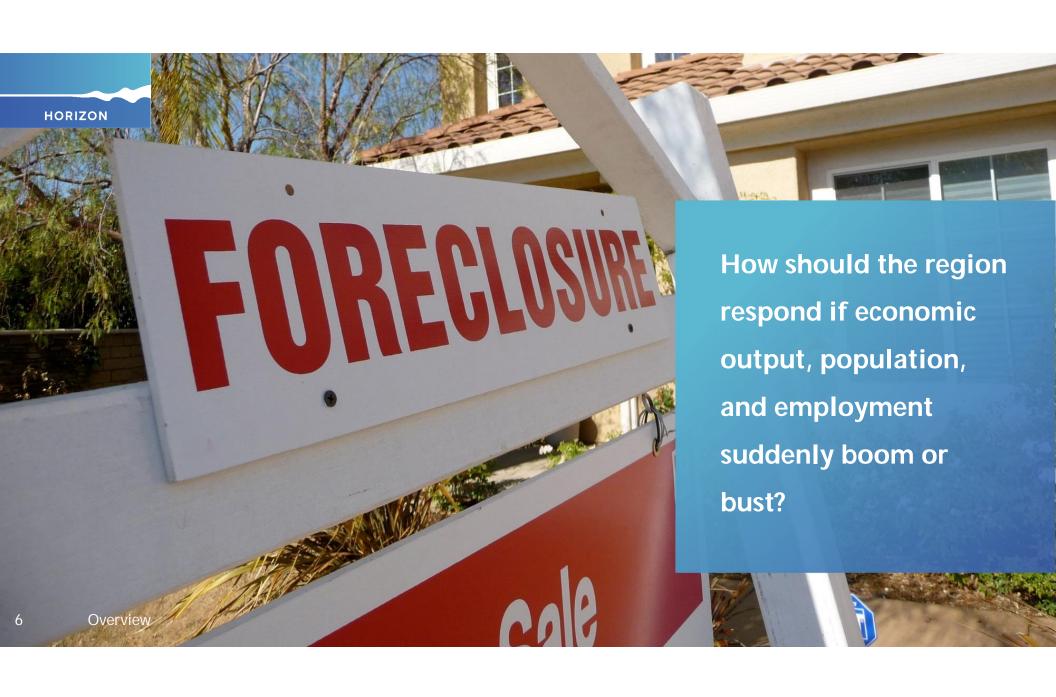
We live in a time of incredible uncertainty. And our regional plans need to acknowledge this reality.

Our region's history inspired our thought process on how to prepare for ever-changing circumstances.













HORIZON

PLAN BAY AREA 2050

Spring 2015 to July 2017

February 2018 to June 2019

July 2019 to June 2021

High-performing strategies and projects from *Horizon* – those that are resilient to uncertainties – **will be recommended for inclusion** in the **Preferred** Plan Bay Area 2050 (RTP/SCS).

Overview

HORIZON

Horizon and Plan Bay Area 2050 will be more comprehensive than past RTP/SCS cycles.

Horizon's Guiding
Principles and Plan
Bay Area 2050's goals
& targets will guide
decision-making and
integrate cross-cutting
issues, including equity
and sustainability.

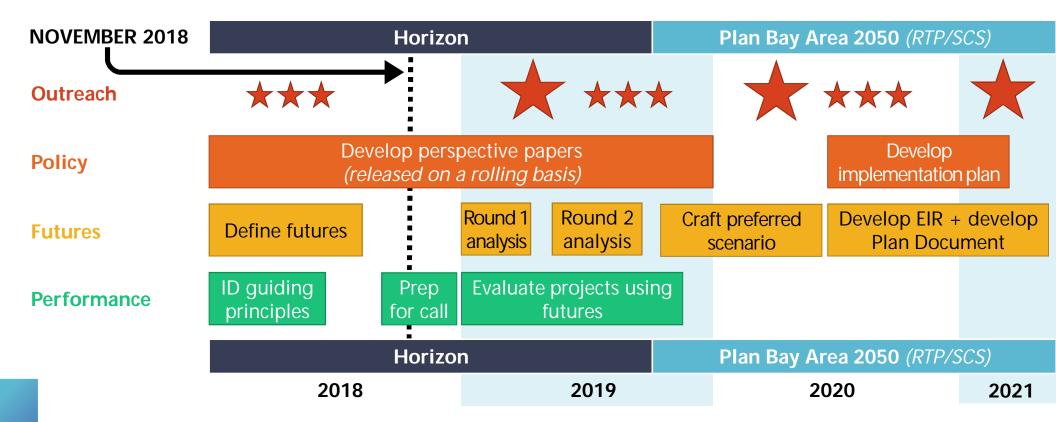
Transportation Other Potential **Topics TBD** Land Use (new) HORIZON PLAN BAY AREA 2050 **Fconomic** Resilience Development (new) (new) **HORIZON**



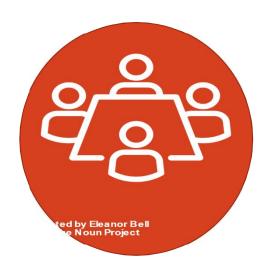


Horizon Update: June 2018

Latest Schedule for Horizon/PBA 2050



What's Happening with Horizon?









Outreach

Perspective Papers

Futures

Project Performance



What's Happening with Horizon?









Outreach

Perspective Papers

Futures

Project Performance



Three Potential Futures – "What If?" Scenarios



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

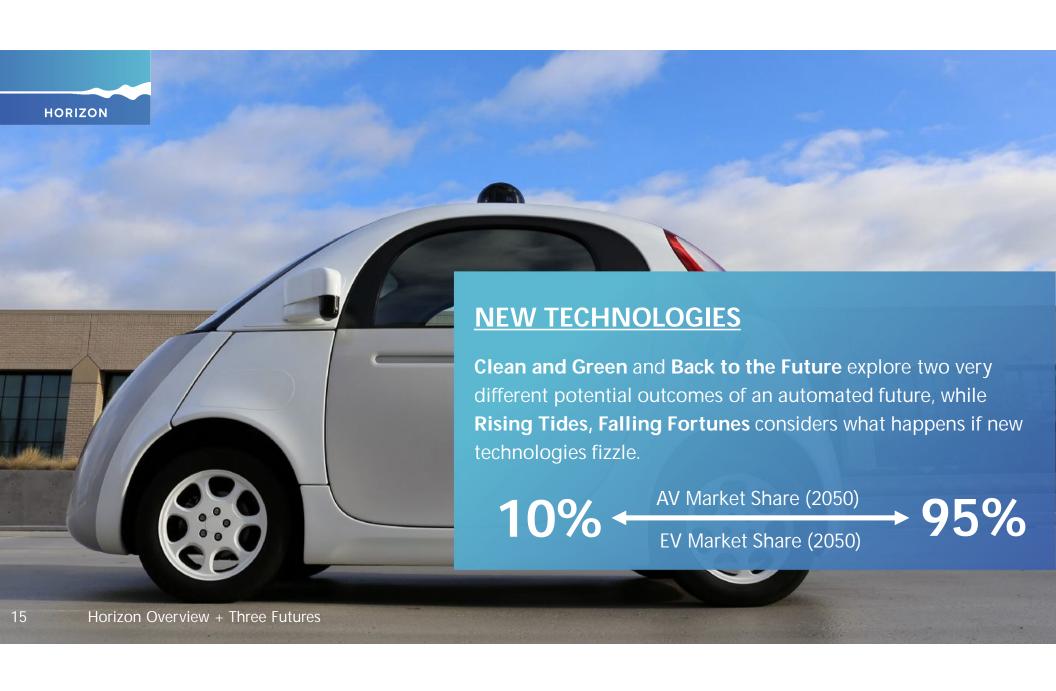


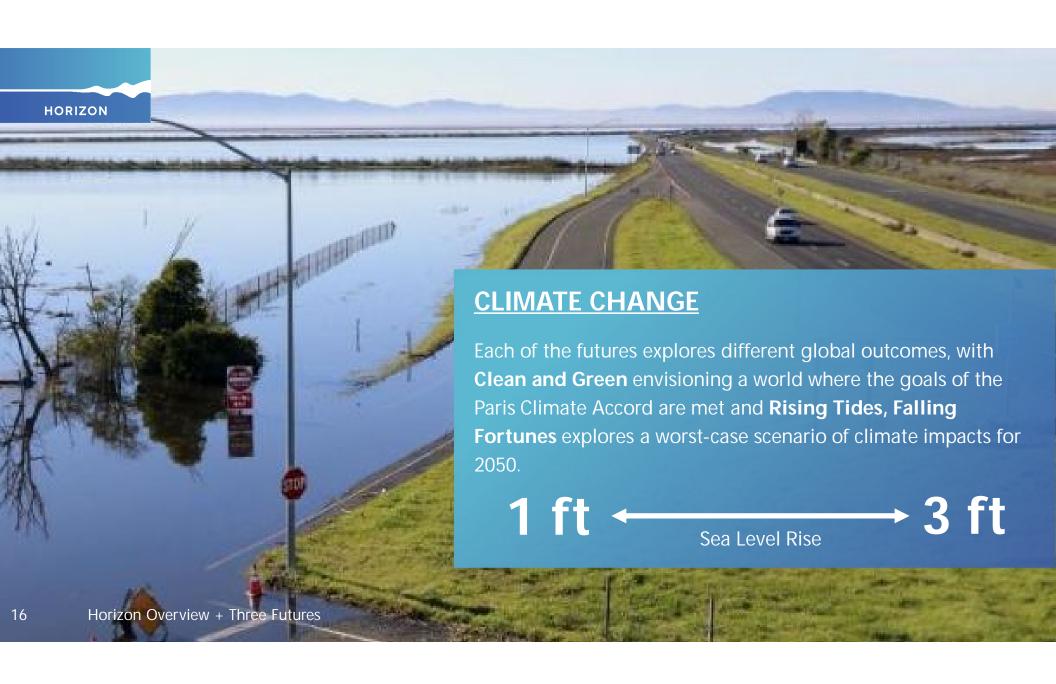
What if... the federal government cuts spending and reduces regulations, leaving decisions to states & regions?



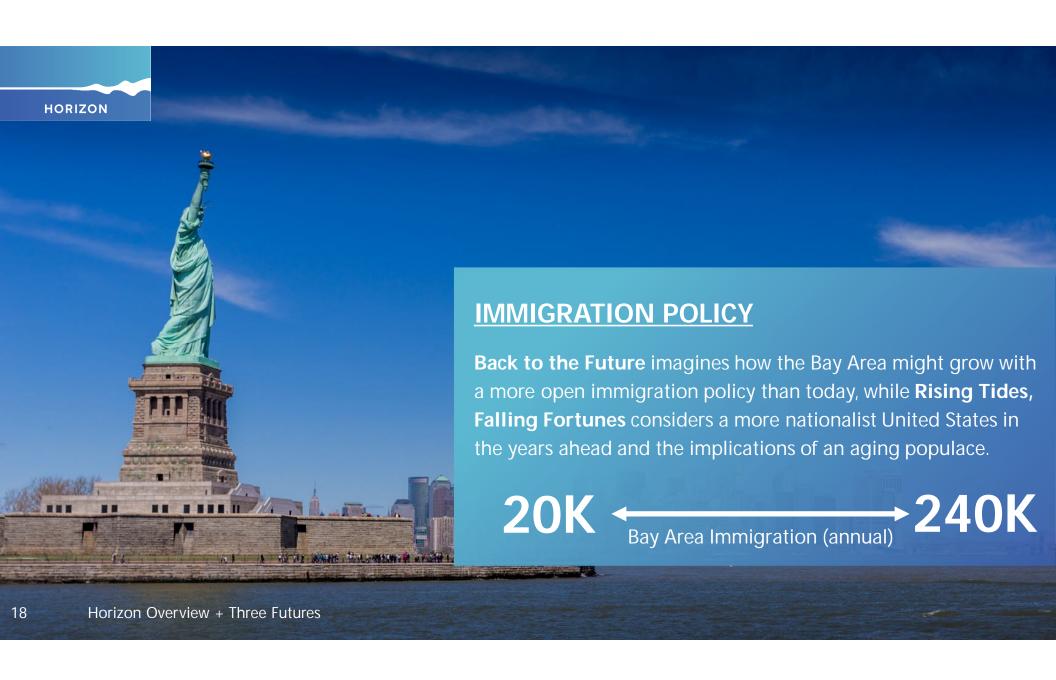
What if... an economic boom and new transportation options spur a new wave of development?











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



Higher value



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

Plan BayArea 2040

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 January, 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

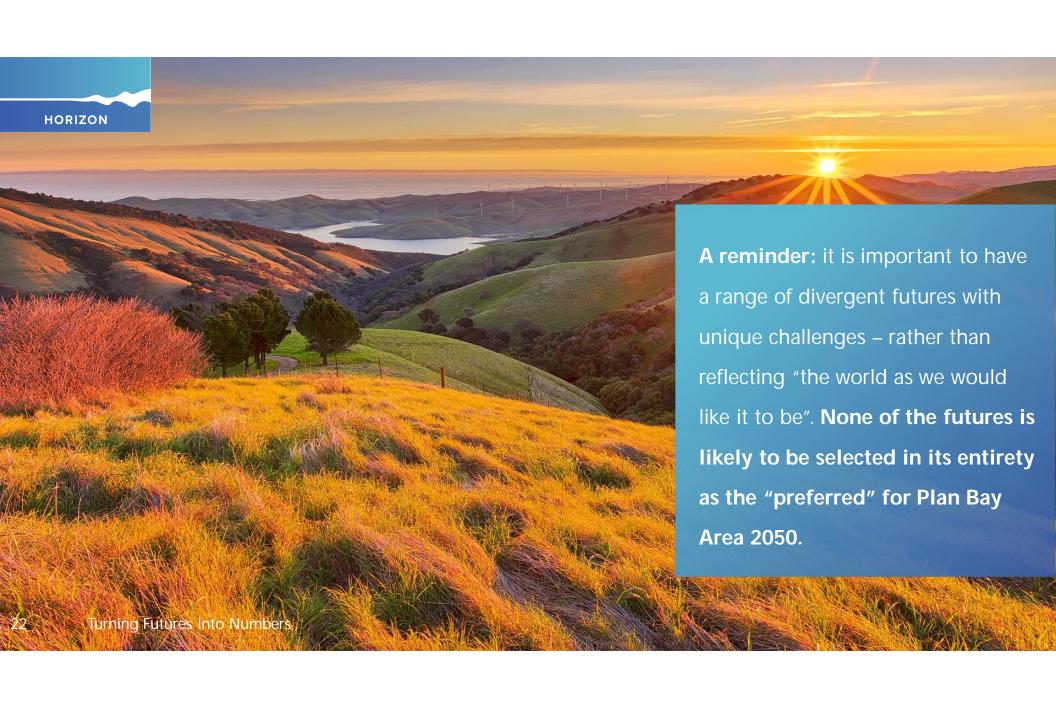
Clean and Green

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

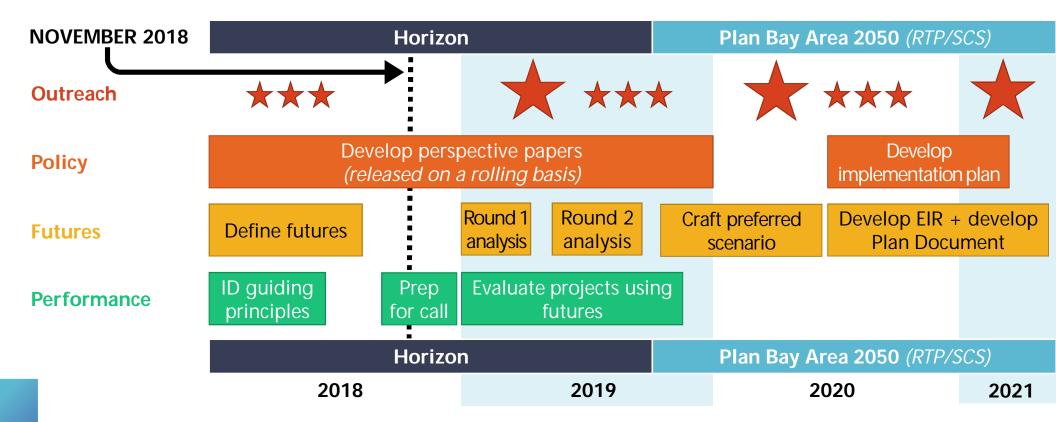
Back to the Future

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

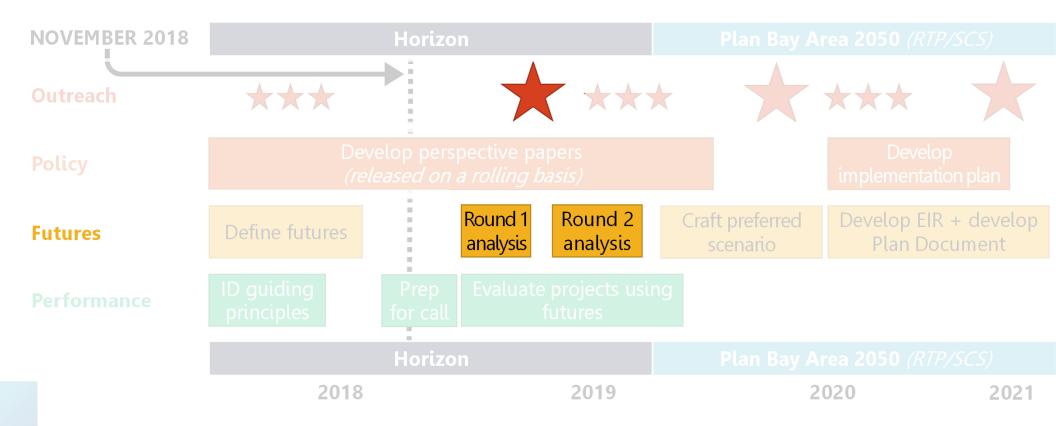




Latest Schedule for Horizon/PBA 2050



Latest Schedule for Horizon/PBA 2050



Futures: Sea Level Rise applied to models

The futures process is supported by robust models. **Urban Sim**, a parcel-level land use model, uses existing zoning and land values to forecast where new housing and jobs will develop in the future. **Travel Model**, a transportation model, uses Urban Sim outputs to estimate how people will travel. *Horizon* uses the models to study policy impacts (i.e. new zoning, new fees on driving) and projects (i.e. \$\$\$ for housing, BART to San Jose).

Round I Analysis

- Assumes only existing policies and funded projects occur.
- In the model, Sea Level Rise floods homes, businesses, and transportation assets.

Strategy Development

- Stakeholders digest Round I outputs.
 Match and prioritize policy strategies for each future.
- Sea Level Rise strategies crafted with BCDC ART staff.

Round II Analysis

- Apply strategy interventions to the models.
- Study impact of modeled strategy.

X3 for each future



Horizon: Urban Water draft approach

Staff would like to include an urban water demand perspective for each future. Staff are considering a similar approach of studying water demands as the rest of futures, analyzing water demand for each future with current trends, seeking feedback on strategies, and then roughly analyzing the strategy impact.

Round I Analysis

- Assumes new construction is built to todays efficiency standards.
- Assumes existing levels of use by geography and use.

Strategy Development

- Invite water stakeholders to a workshop to discuss strategies.
- Prioritize strategies that Plan Bay Area is the right tool for.

Round II Analysis

 If possible, a second analysis may try to quantify the impact of strategies. **X3** for each future



Horizon: Green Infrastructure draft approach

Staff are exploring two possible synergies:

The opportunities and challenges of green infrastructure implementation in Priority Development Areas.

Many PDAs will see significant levels of growth and development, which at times will present
opportunities to make wholesale changes to street infrastructure. A set of best practices on
integrating green infrastructure could streamline GI and development processes.

The opportunities in aligning local Green Infrastructure Plans with local streets and roads programs at MTC

 MTC estimates the resources needed to [maintain] or [improve] the current road condition 30 years into the future to support sufficient funding for maintenance. Pulling similar assessments from local Green Infrastructure Plans could provide a more complete picture of the resource needs for local streets.

