Transformative Projects & Project Performance Assessment
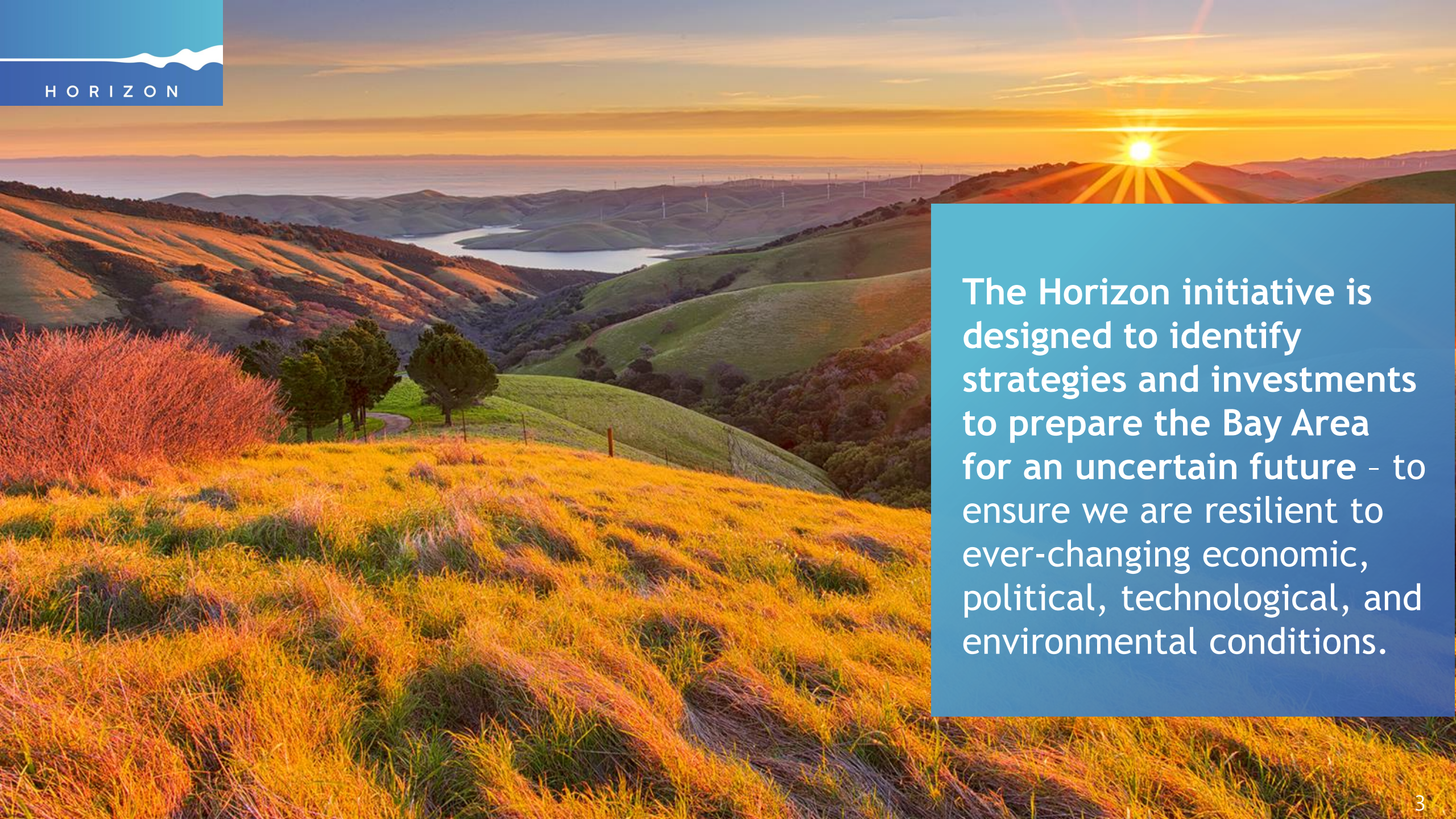
Horizon & Plan Bay Area 2050
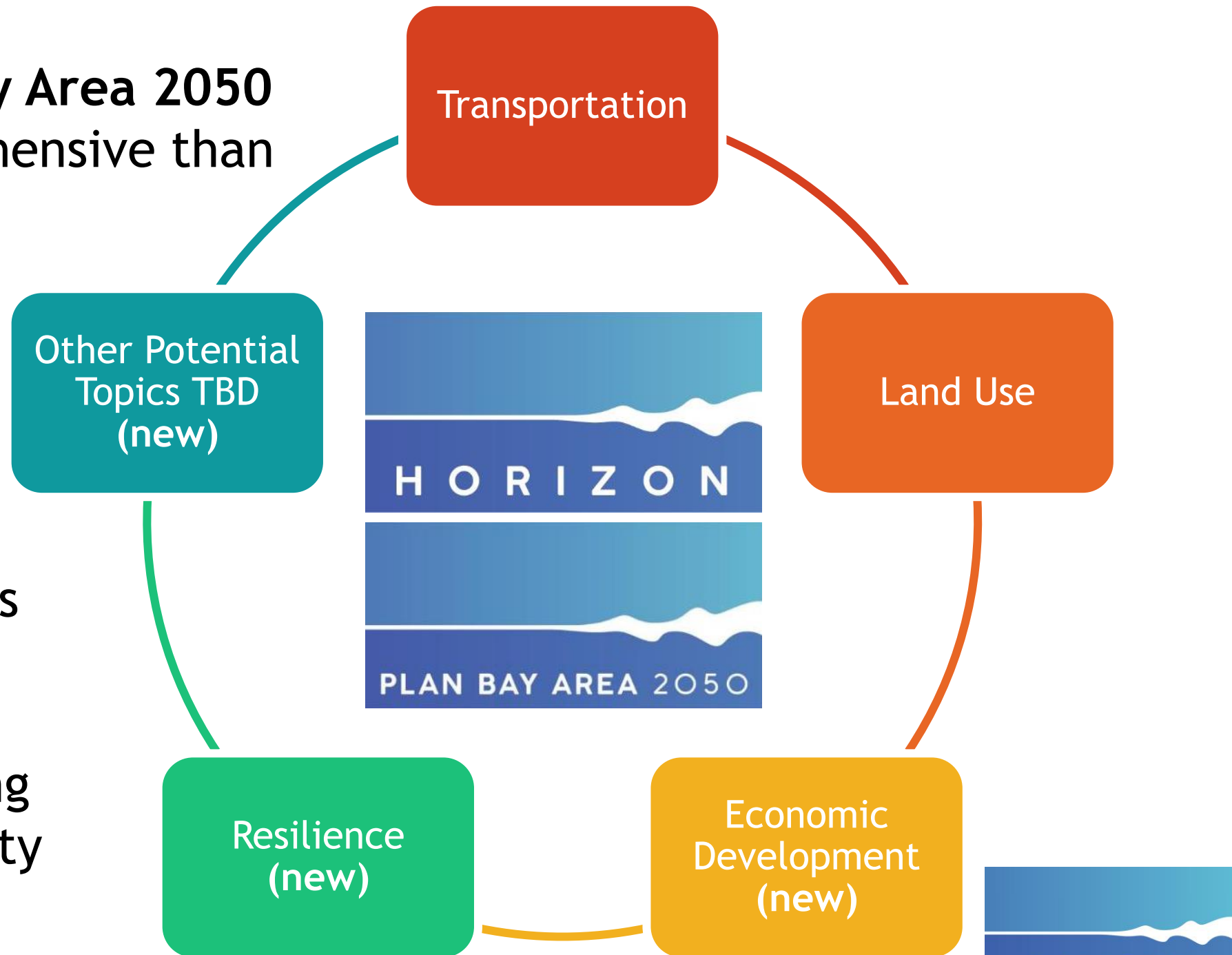
Anup Tapase, MTC/ABAG – November 15, 2018

Horizon Overview:
Preparing for an Uncertain Future

The Horizon initiative is designed to identify strategies and investments to prepare the Bay Area for an uncertain future – to ensure we are resilient to ever-changing economic, political, technological, and environmental conditions.

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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

Land Use

Other Potential Topics TBD **(new)**

Resilience **(new)**

Economic Development **(new)**

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Key Components of **Horizon**

Outreach

Perspective Papers

Futures

Project Performance

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Three Futures – "What If?" Scenarios

A Clean and Green

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

B Rising Tides, Falling Fortunes

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

C Back to the Future

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

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Futures – External Forces

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

*For more information on the Horizon futures, visit **bayareametro.gov/horizon**.*

COLOR LEGEND

Lower value   Higher value

HORIZON
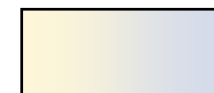
Futures – Population and Jobs

#	FUTURE NAME	2050 POPULATION	2050 JOBS	2050 INCOME DISTRIBUTION	2050 RACIAL DISTRIBUTION	2050 AGE DISTRIBUTION	2050 INTERREGIONAL TRAVEL	2050 TRANSPORTATION REVENUES
A	Clean and Green	10.9 million	5.4 million	21% low-income	73% minority	41 median age	↔	$$$
B	Rising Tides, Falling Fortunes	8.6 million	4.7 million	31% low-income	71% minority	43 median age	↑	$$
C	Back to the Future	13.8 million	7.2 million	21% low-income	77% minority	38 median age	↑↑↑	$$$$

Plan Bay Area 2040

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

COLOR LEGEND

Lower value ▢ Higher value
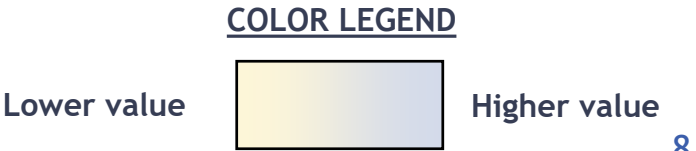
HORIZON

Project Performance Assessment
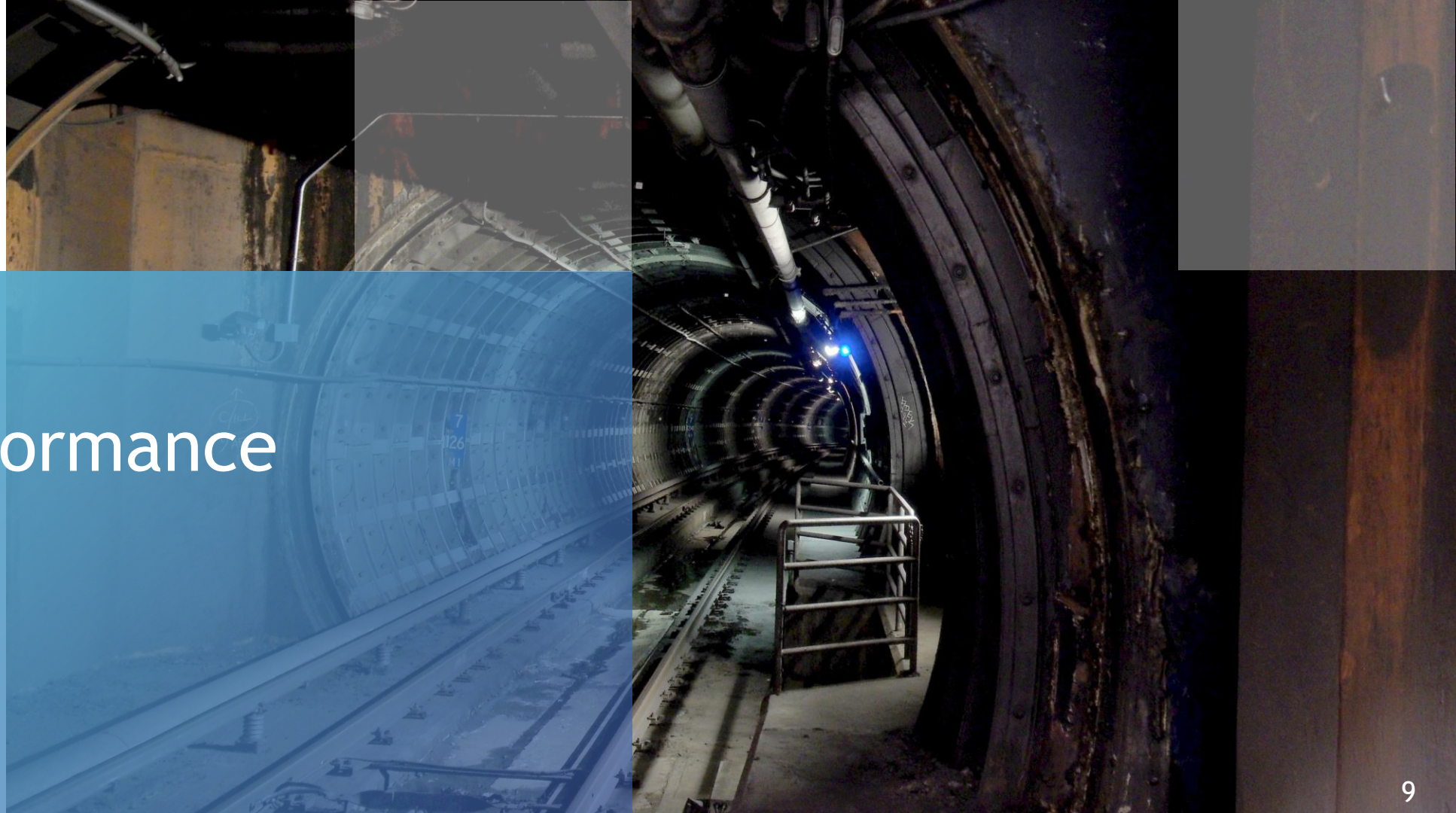
The Project Performance Assessment evaluates major transportation investments for the Bay Area, through a primary benefit-cost assessment and secondary assessments that study impacts with respect to Guiding Principles and equity.

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Spring 2015 to July 2017

February 2018 to August 2019

September 2019 to June 2021

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

Project Performance Assessment:
Projects Slated for Assessment – Total: ~94

Capacity Increasing Projects	Major Projects (>$250M) from PBA2040 (31)
	Bay Crossing Alternatives (7)
	Transformative Projects (>$1B) from Partner Agencies (37)
	Transformative Project Finalists from Public/NGOs (6)
Operational Strategies	Transformative Project Finalists from Agencies/Public/NGOs (6)
Resilience Projects	Resilience Projects (7)

Selected by Jury

Full list available at:
https://mtc.ca.gov/our-work/plans-projects/horizon/project-performance-assessment

Transformative Projects Online Submission Process

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Major Project Examples (Total: 31)

Bus

- AC Transit Frequency Increases
- Muni Forward
- San Pablo BRT
- El Camino Real BRT

BART and Commuter Rail

- BART Core Capacity
- BART to Silicon Valley Phase 2
- Caltrain Modernization Phase 2
- SMART to Cloverdale

LRT

- Downtown San Jose LRT Subway
- Stevens Creek LRT

Pricing

- Express Lanes
- Downtown SF Congestion Pricing
- SR-239 Tollway

Freeways and Interchanges

- I-680/SR-4 Interchange + Widening SR-4 Widening

Other (Ferry, Bicycle, etc.)

- WETA Ferry Expansion
- Bay Bridge West Span Bike Path
- Better Market Street

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Transformative Project Examples (Total: 37)

Bus/LRT

- AC Transit Transbay Improvements
- Muni Metro Southwest Subway
- Fremont-Newark LRT

BART and Commuter Rail

- BART Evening Service Frequency Increase
- Caltrain Grade Separation Program
- Dumbarton Rail

Freeways

- SR-37 Widening + Resilience
- I-580/I-680 Corridor Enhancements
- SF Freeway GP to HOT Lane Conversions

Bridges and Tunnels

- Richmond-San Rafael Bridge Replacement
- Webster/Posey Tube Replacements
- SR-87 Tunnel

Networks

- South Bay Rail + Resilience
- Megaregional Rail Network
- Oakland/Alameda Gondola Network

Multimodal / Next Generation

- Alameda County BRT Network + Connected Vehicle Corridors
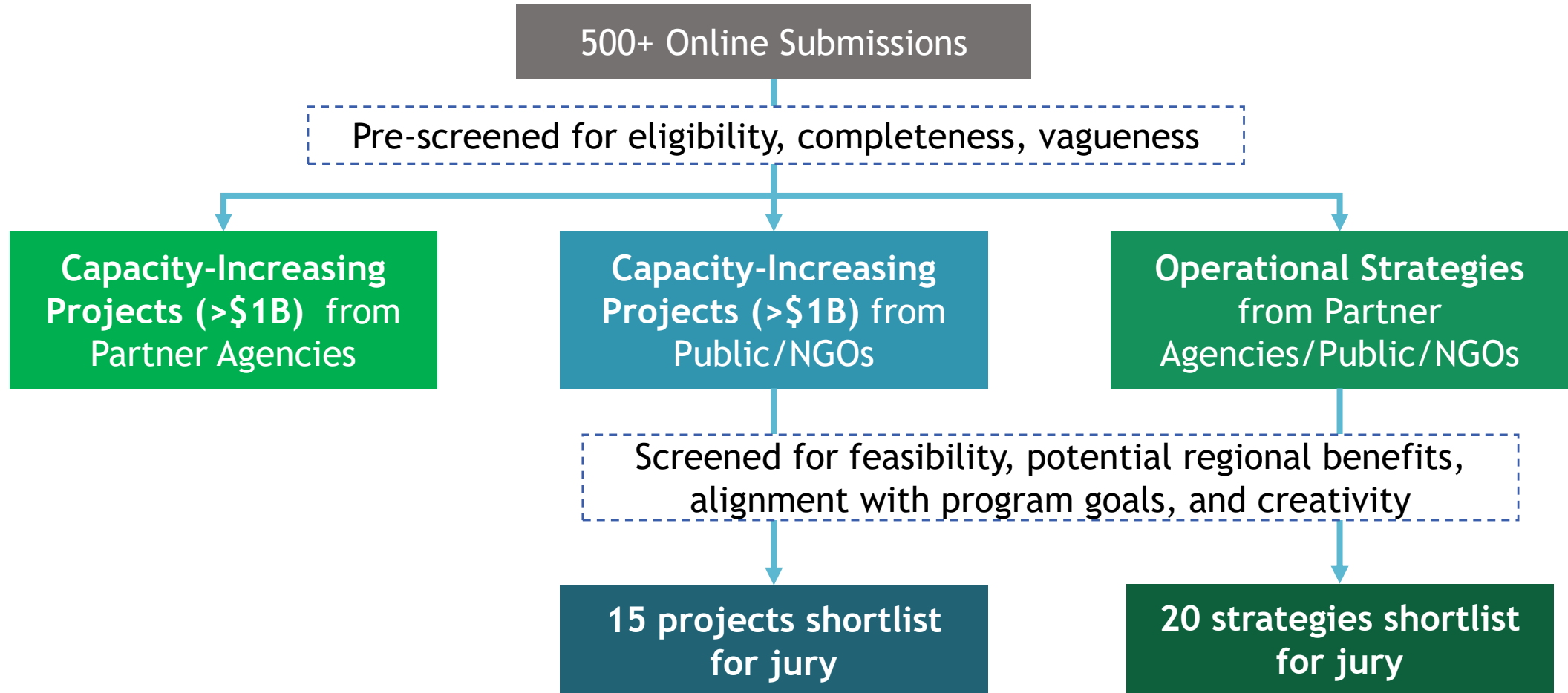- Contra Costa AV Shuttle Program

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Transformative Projects

Transformative Projects

500+

big ideas to improve
Bay Area transportation

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Filtering Process from Online Submissions

500+ Online Submissions

Pre-screened for eligibility, completeness, vagueness

Capacity-Increasing Projects (>$1B) from Partner Agencies

Capacity-Increasing Projects (>$1B) from Public/NGOs

Operational Strategies from Partner Agencies/Public/NGOs

Screened for feasibility, potential regional benefits, alignment with program goals, and creativity

15 projects shortlist for jury

20 strategies shortlist for jury

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Jury selection process

Packets provided to Jury

Jury Voting

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Finalists - Transformative Projects (1 of 2)

Finalists: 6 Capacity-Increasing Projects

Optimized Express Lane Network + Regional Express Bus Network

(SPUR and TransForm)

I-80 Corridor Overhaul

(Arup)

Bus Rapid Transit (BRT) on All Bridges

(Tony Breslin)

Regional Bicycle Superhighway Network

(Arup)

SMART to Richmond via New Richmond-San Rafael Bridge

(William Manley, Joseph Naujokas, Christopher Sork and Sonoma County Transportation & Land Use Coalition)

Bay Trail Completion

(Jim Stallman)

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Finalists - Transformative Projects (2 of 2)

Finalists: 6 Operational Strategies

Integrated Transit Fare System

(Eddy Ionescu & Jason Lee, Seamless Bay Area and SPUR)

Free Transit

(Mark Apton, Christian Rodgers, Danielle Venton and Gabriela Zuniga)

Higher-Occupancy HOV Lanes

(3 Revolutions Book Club)

Demand-Based Tolls on All Highways

(Jeremy Besmer and City of San Jose)

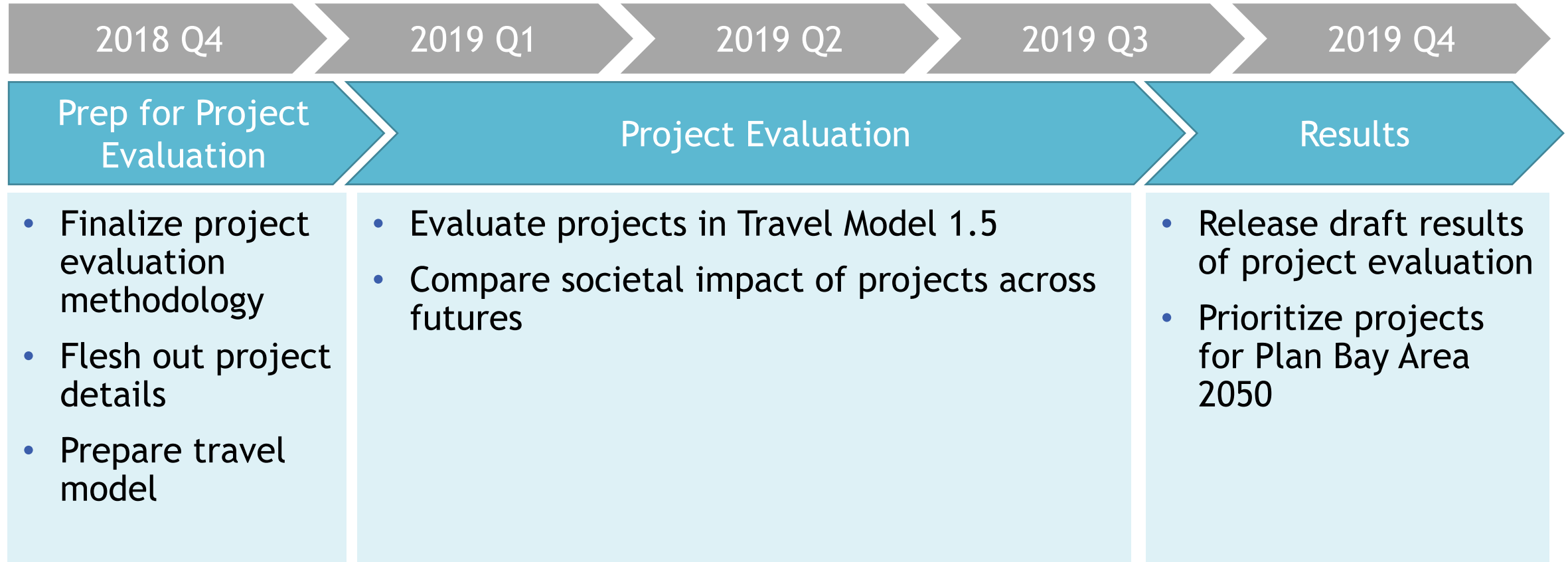### Reversible Lanes on Congested Bridges and Freeways

(City of San Jose)

Freight Delivery Timing Regulation

(Daniel Ayers, Marc Brenman, Kevin Brooks and Cesar Plata)

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Next Steps

Project Performance Assessment Timeline

2018 Q4	2019 Q1	2019 Q2	2019 Q3	2019 Q4

Prep for Project Evaluation	Project Evaluation			Results
• Finalize project evaluation methodology • Flesh out project details • Prepare travel model	• Evaluate projects in Travel Model 1.5 • Compare societal impact of projects across futures			• Release draft results of project evaluation • Prioritize projects for Plan Bay Area 2050

HORIZON

Questions?

For more information:
http://bayareametro.gov/horizon