



Metropolitan Transportation Commission

Bay Area Metro Center
375 Beale Street
San Francisco, CA 94105

Meeting Agenda

Policy Advisory Council

Randi Kinman, Chair
Cynthia L. Murray, Vice Chair

Wednesday, October 9, 2019

1:30 PM

Board Room - 1st Floor

This meeting is scheduled to be webcast live on the Metropolitan Transportation Commission's Website: <http://mtc.ca.gov/whats-happening/meetings> and will take place at 1:30 p.m.

1. [19-1031](#) Welcome

Action: Information
Presenter: Randi Kinman, Council Chair

2. Roll Call / Confirm Quorum

Quorum: A quorum of this council shall be a majority of its regular voting members (12).

3. [19-1032](#) Approval of September 11, 2019 Meeting Minutes
(5 minutes)

Action: Approval
Presenter: Randi Kinman, Council Chair
Attachments: [03_Council Minutes_Sept 2019.pdf](#)

4. [19-1033](#) Subcommittee Reports
(5 minutes)

The subcommittee may refer an item from its agenda to the full Council for action at its next meeting if needed.

Action: Information
Presenter: Jim Blacksten, Subcommittee Chair

5. [19-1035](#) Horizon: Futures Final Report
(45 minutes)

Presentation on findings from the second and final round of Futures Planning, including recommendations of Horizon strategies resilient to future uncertainty which should be advanced into Plan Bay Area 2050.

Action: Information

Presenter: Michael Germeraad

Attachments: [05 Horizon Futures Final Report.pdf](#)

6. [19-1036](#) Transit Update: Rail Synthesis and Crossings
(30 minutes)

Highlights of the progress on regional rail over the past decade, including identification of potential next steps to improve the region's transit system and discussion of tradeoffs associated with a new Transbay Crossing.

Action: Information

Presenter: Adam Noelting and Anup Tapase

Attachments: [06 Regional Rail Planning Update.pdf](#)
[06 Correspondence Regional Rail Planning Update.pdf](#)

7. [19-1037](#) Staff Liaison Report
(5 minutes)

Relevant MTC policy decisions and other activities.

Action: Information

Presenter: Marti Paschal, Staff Liaison

Attachments: [07 Staff Liaison Report Oct 2019.pdf](#)

8. [19-1038](#) Council Member Reports
(10 minutes)

Members of the Council may report on locally relevant issues or events.

Action: Information

Presenter: Randi Kinman, Council Chair

9. [19-1039](#) New Business
 (5 minutes)

Members of the Council may bring up new business for discussion or addition to a future agenda.

Action: Discussion

Presenter: Randi Kinman, Council Chair

10. Public Comments / Other Business

11. Adjournment / Next Meeting

The next meeting of the Policy Advisory Council will be held Wednesday, November 13, 2019 at 1:30 p.m. at the Bay Area Metro Center, 375 Beale Street, San Francisco, CA.

Public Comment: The public is encouraged to comment on agenda items at Committee meetings by completing a request-to-speak card (available from staff) and passing it to the Committee secretary. Public comment may be limited by any of the procedures set forth in Section 3.09 of MTC's Procedures Manual (Resolution No. 1058, Revised) if, in the chair's judgment, it is necessary to maintain the orderly flow of business.

Meeting Conduct: If this meeting is willfully interrupted or disrupted by one or more persons rendering orderly conduct of the meeting unfeasible, the Chair may order the removal of individuals who are willfully disrupting the meeting. Such individuals may be arrested. If order cannot be restored by such removal, the members of the Committee may direct that the meeting room be cleared (except for representatives of the press or other news media not participating in the disturbance), and the session may continue.

Record of Meeting: Committee meetings are recorded. Copies of recordings are available at a nominal charge, or recordings may be listened to at MTC offices by appointment. Audiocasts are maintained on MTC's Web site (mtc.ca.gov) for public review for at least one year.

Accessibility and Title VI: MTC provides services/accommodations upon request to persons with disabilities and individuals who are limited-English proficient who wish to address Commission matters. For accommodations or translations assistance, please call 415.778.6757 or 415.778.6769 for TDD/TTY. We require three working days' notice to accommodate your request.

可及性和法令第六章: MTC 根據要求向希望來委員會討論有關事宜的殘疾人士及英語有限者提供服務/方便。需要便利設施或翻譯協助者, 請致電 415.778.6757 或 415.778.6769 TDD / TTY。我們要求您在三個工作日前告知, 以滿足您的要求。

Acceso y el Titulo VI: La MTC puede proveer asistencia/facilitar la comunicación a las personas discapacitadas y los individuos con conocimiento limitado del inglés quienes quieran dirigirse a la Comisión. Para solicitar asistencia, por favor llame al número 415.778.6757 o al 415.778.6769 para TDD/TTY. Requerimos que solicite asistencia con tres días hábiles de anticipación para poderle proveer asistencia.

Attachments are sent to Committee members, key staff and others as appropriate. Copies will be available at the meeting.

All items on the agenda are subject to action and/or change by the Committee. Actions recommended by staff are subject to change by the Committee.

MTC's Chair and Vice-Chair are ex-officio voting members of all standing Committees.



Metropolitan Transportation Commission

375 Beale Street, Suite 800
San Francisco, CA 94105

Legislation Details (With Text)

File #: 19-1031 **Version:** 1 **Name:**
Type: Report **Status:** Informational
File created: 9/3/2019 **In control:** Policy Advisory Council
On agenda: 10/9/2019 **Final action:**
Title: Welcome
Sponsors:
Indexes:
Code sections:
Attachments:

Date	Ver.	Action By	Action	Result
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Subject:
Welcome

Presenter:
Randi Kinman, Council Chair

Recommended Action:
Information



Metropolitan Transportation Commission

375 Beale Street, Suite 800
San Francisco, CA 94105

Legislation Details (With Text)

File #: 19-1032 **Version:** 1 **Name:**
Type: Minutes **Status:** Committee Approval
File created: 9/3/2019 **In control:** Policy Advisory Council
On agenda: 10/9/2019 **Final action:**
Title: Approval of September 11, 2019 Meeting Minutes
(5 minutes)
Sponsors:
Indexes:
Code sections:
Attachments: [03 Council Minutes Sept 2019.pdf](#)

Date	Ver.	Action By	Action	Result
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Subject:
Approval of September 11, 2019 Meeting Minutes
(5 minutes)

Presenter:
Randi Kinman, Council Chair

Recommended Action:
Approval

Attachments:



Metropolitan Transportation Commission

Meeting Minutes - Draft

Policy Advisory Council

Randi Kinman, Chair
Cynthia L. Murray, Vice Chair

Agenda Item 3

Bay Area Metro Center
375 Beale Street
San Francisco, CA 94105

Wednesday, September 11, 2019

1:30 PM

Board Room - 1st Floor

1. [19-0892](#) Welcome

Presenter: Randi Kinman, Council Chair

2. Roll Call / Confirm Quorum

Present: 17 - Blacksten, Burnett, Castellanos, Coates, Cochran, Eldred, Florez, Hedges, Kallins, Chair Kinman, Levin, Lopez, Madden, Mendoza, Momoh, Ozim and Williams

Excused: 5 - Hernandez, Lee, Vice Chair Murray, Saver and Schweng

Absent: 1 - Wolff

3. [19-0893](#) Approval of July 10, 2019 Meeting Minutes
(5 minutes)

Action: Approval

Presenter: Randi Kinman, Council Chair

Attachments: [03_Council Minutes_July 2019.pdf](#)

Upon the motion by Hedges and second by Momoh, the July 10, 2019 Meeting Minutes were unanimously approved. The motion carried by the following vote:

Aye: 14 - Blacksten, Burnett, Cochran, Eldred, Hedges, Kallins, Chair Kinman, Levin, Lopez, Madden, Mendoza, Momoh, Ozim and Williams

Absent: 6 - Hernandez, Lee, Vice Chair Murray, Saver, Schweng and Wolff

Abstain: 3 - Castellanos, Coates and Florez

4. [19-0894](#) Subcommittee Reports
(5 minutes)

The subcommittee may refer an item from its agenda to the full Council for action at its next meeting if needed.

Action: Information

Presenter: Jim Blacksten, Subcommittee Chair

Upon the motion by Florez and second by Hedges, the correspondence letter requested by the Policy Advisory Council's Equity and Access Subcommittee to express deep concerns to the MTC Commission on safety on BART trains and stations for Seniors, Low-Income, Children, and people with disabilities was tabled.

5. [19-0896](#) ABAG Resolution No. 09-19 and MTC Resolution No. 4393: Plan Bay Area 2050: Overview and Vision & Guiding Principles Approval
(30 minutes)

Overview of the Plan Bay Area 2050 process and Vision & Guiding Principles previously developed in consultation with the public, stakeholders, and elected officials through Horizon.

Action: Information

Presenter: Dave Vautin and Raleigh McCoy

Attachments: [05_PBA_2050_Overview_Vision + Guiding Principles Approval.pdf](#)

6. [19-0897](#) Plan Bay Area 2050: Invitation to Participate in Regional Equity Working Group
(5 minutes)

Overview on the Regional Equity Working Group (REWG) process, which will help refine strategies and develop implementation actions that advance equity for Plan Bay Area 2050, the next-generation regional plan.

Action: Information

Presenter: Dave Vautin

Attachments: [06_PBA50_Equity_Sept 2019.pdf](#)

7. [19-0923](#) Priority Development Area (PDA) / One Bay Area Grant Program (OBAG) Assessment
(15 minutes)

Proposed approach for a combined PDA and OBAG Assessment.

Action: Information

Presenter: Mallory Atkinson and Mark Shorett

Attachments: [07_PDA_OBAG_Assesment_Sept_2019.pdf](#)

8. [19-0898](#) Staff Liaison Report
(5 minutes)

Relevant MTC policy decisions and other activities.

Action: Information

Presenter: Marti Paschal, Staff Liaison

Attachments: [08_Staff_Liaison_Report_Sept_2019.pdf](#)

9. [19-0899](#) Council Member Reports
(10 minutes)

Members of the Council may report on locally relevant issues or events.

Action: Information

Presenter: Randi Kinman, Council Chair

10. [19-0900](#) New Business
(5 minutes)

Members of the Council may bring up new business for discussion or addition to a future agenda.

Action: Discussion

Presenter: Randi Kinman, Council Chair

11. Public Comments / Other Business

12. Adjournment / Next Meeting

The next meeting of the Policy Advisory Council will be held Wednesday, October 9, 2019 at 1:30 p.m. at the Bay Area Metro Center, 375 Beale Street, San Francisco, CA.



Metropolitan Transportation Commission

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Legislation Details (With Text)

File #:	19-1033	Version:	1	Name:	
Type:	Report	Status:		Informational	
File created:	9/3/2019	In control:		Policy Advisory Council	
On agenda:	10/9/2019	Final action:			
Title:	Subcommittee Reports (5 minutes)				

The subcommittee may refer an item from its agenda to the full Council for action at its next meeting if needed.

Sponsors:

Indexes:

Code sections:

Attachments:

Date	Ver.	Action By	Action	Result
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Subject:

Subcommittee Reports
(5 minutes)

The subcommittee may refer an item from its agenda to the full Council for action at its next meeting if needed.

Presenter:

Jim Blacksten, Subcommittee Chair

Recommended Action:

Information

Attachments:



Metropolitan Transportation Commission

375 Beale Street, Suite 800
San Francisco, CA 94105

Legislation Details (With Text)

File #:	19-1035	Version:	1	Name:	
Type:	Report	Status:		Informational	
File created:	9/3/2019	In control:		Policy Advisory Council	
On agenda:	10/9/2019	Final action:			
Title:	Horizon: Futures Final Report (45 minutes)				

Presentation on findings from the second and final round of Futures Planning, including recommendations of Horizon strategies resilient to future uncertainty which should be advanced into Plan Bay Area 2050.

Sponsors:

Indexes:

Code sections:

Attachments: [05_Horizon_Futures_Final_Report.pdf](#)

Date	Ver.	Action By	Action	Result
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Subject:

Horizon: Futures Final Report
(45 minutes)

Presentation on findings from the second and final round of Futures Planning, including recommendations of Horizon strategies resilient to future uncertainty which should be advanced into Plan Bay Area 2050.

Presenter:

Michael Germeraad

Recommended Action:

Information

Attachments:

Metropolitan Transportation Commission Policy Advisory Council

October 9, 2019

Agenda Item 5

Horizon: Futures Final Report

- Subject:** Presentation on findings from the second and final round of Futures Planning, including recommendations of Horizon strategies resilient to future uncertainty which should be advanced into Plan Bay Area 2050.
- Background:** Policy Advisory Council Agenda Item 5, Horizon: Futures Final Report, is attached. This report will be presented to the Regional Advisory Working Group on October 8, 2019. Additionally, staff will seek input on Horizon: Futures Final Report at the October 12, 2019 Joint MTC Planning Committee with the ABAG Administrative Committee.
- Staff will be at your October 9 meeting to discuss this report. The Council's input is requested.
- Attachments:** Agenda Item 5a from the October 2019 Joint MTC Planning Committee with the ABAG Administrative Committee

Horizon: Futures Final Report

Subject:	Presentation on findings from the second and final round of Futures Planning, including recommendations of Horizon strategies resilient to future uncertainty which should be advanced into Plan Bay Area 2050.
Background:	<p>In early 2018, MTC/ABAG launched the Horizon initiative, focused on preparing the Bay Area for an uncertain future. Through four main work elements – Public Engagement, Perspective Papers, Project Performance, and Futures Planning – Horizon sought to identify transformative solutions to make the Bay Area more resilient and equitable in the coming decades. Each element was crafted to help build a stronger foundation for the next-generation regional plan, Plan Bay Area 2050.</p> <p>Over the past 18 months, the Futures Planning process has advanced from identifying Futures to testing strategies to study in each of the them. Along the way, staff explored how Plan Bay Area 2040 strategies performed under a wide range of divergent external forces. In short, many of the prior Plan’s strategies struggled to perform when exposed to a greater variety of political, technological, economic and environmental challenges that could impact the lives of Bay Area residents. These were discussed in detail in the Futures Interim Report – Opportunities and Challenges (published March 2019).</p> <p>Most recently, staff held public workshops and stakeholder meetings in spring 2019 to identify a set of roughly 30 strategies to study in the second round of Futures Planning. These strategies were designed to be both resilient and equitable, targeting the specific challenges laid out in the Futures Interim Report. Over summer 2019, staff have been conducting extensive quantitative and qualitative analysis of the strategies, simulating their impacts to provide an informed recommendation about which should be considered for inclusion in Plan Bay Area 2050.</p>
Issues:	In advance of the Futures Final Report publication later this month, staff is providing a summary of preliminary findings from the Futures Round 2 analysis. These findings are high-level, focusing on the “top 10” key takeaways from our work so far; the report will delve into the specifics in greater detail, serving as an initial staff recommendation for the Draft Blueprint phase of Plan Bay Area 2050.

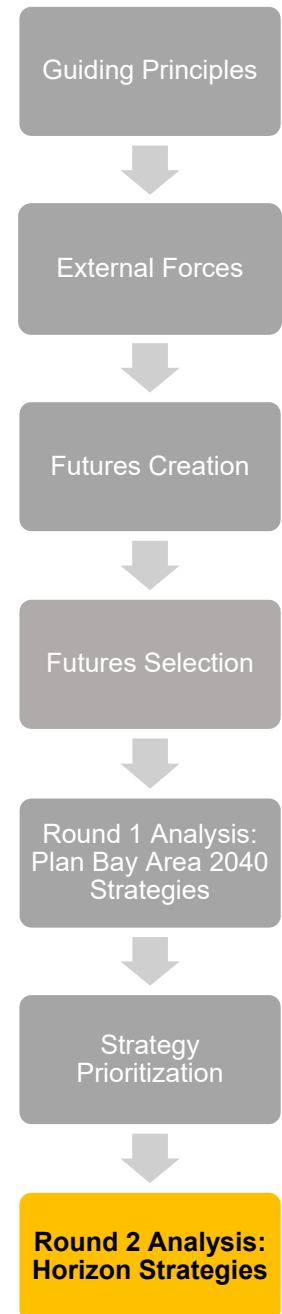


Figure 1: Primary steps of the Futures element of *Horizon*.

As detailed in **Attachment A**, our work to date has generated ten high-level findings based on the strategies studied in Futures Round 2:

1. New growth areas enable more growth near transit and near opportunity.
2. A mix of strategies to retain and expand affordable housing made progress in addressing the current affordable housing gap.
3. Shifts in transportation mode choice were most pronounced for active transportation, driven in part by micromobility strategies.
4. While still present, transit overcrowding was partially alleviated, with new bus rapid transit (BRT) lines as well as a new Transbay Rail Crossing playing a key role.
5. Road pricing reduced roadway congestion, but equity concerns need to be addressed before advancing this strategy further.
6. Economic development strategies evaluated were insufficient to slow the decline of the middle class.
7. Adaptation and retrofit strategies boosted our region's resilience.
8. Urban growth boundaries led to minimal greenfield development in both Round 1 and Round 2.
9. A VMT-based fee on office development was effective in focusing office growth, but not in shifting jobs to the East and North Bay.
10. A large tax package focused on higher-income individuals and businesses, contemplated to underwrite the cost of strategy projects and subsidies, did not have significant adverse impacts on the economy.

In addition to high-level findings, the final report will provide a breakdown of findings for each individual strategy, focusing on its resilience to a range of uncertain future conditions as well as its implications for social equity.

The Futures Planning work – in particular, the Futures Final Report – will serve as a helpful foundation for staff, committees, and board members as key Plan Bay Area 2050 decisions must be made over the coming months. Through the Blueprint planning process, the subset of Horizon strategies that proved resilient and equitable under a wide range of future conditions can be refined, improved on, and when needed, supplemented.

Starting this month, staff will hold “pop-up” workshops across the region, highlighting the most effective strategies from the Futures Final Report; this will allow us to better understand which strategies resonate with the public. Staff will also host Plan Bay Area 2050 Blueprint half-day stakeholder workshops focused on the four topical areas of the plan: Transportation, Housing, the Environment, and the Economy. Feedback at these events will inform refinements to the strategies to study in the Blueprint phase.

Recommendation: None

Attachments: Attachment A: PowerPoint Presentation


Therese W. McMillan



H O R I Z O N

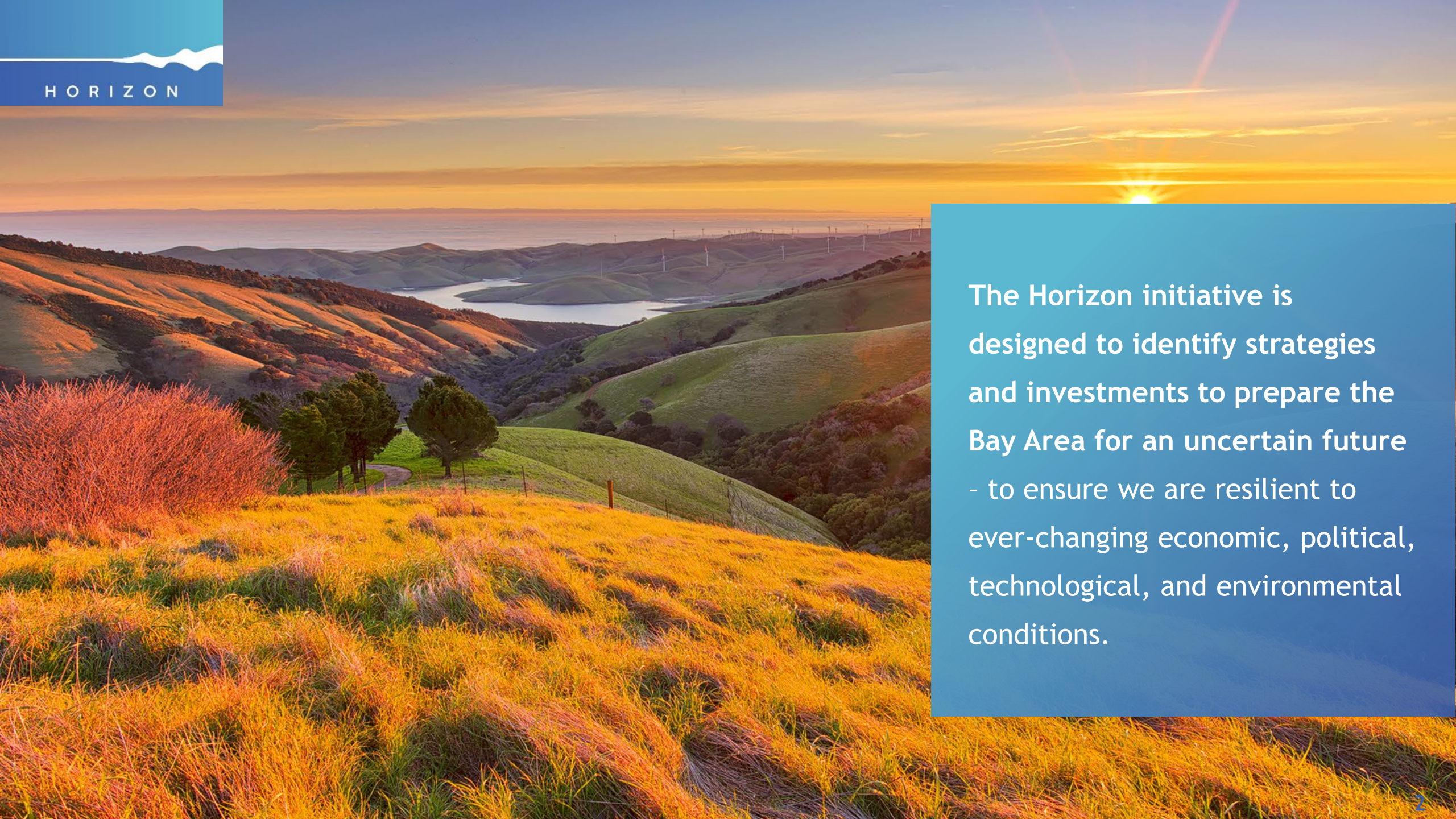


Futures Final Report

**Preliminary Findings on Horizon Strategies
in Advance of Plan Bay Area 2050**

MTC Planning Committee with the ABAG Administrative Committee

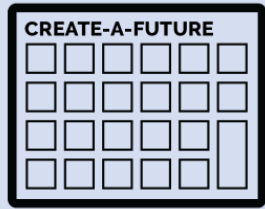
October 11, 2019 - Michael Germeraad

The background is a wide-angle landscape photograph taken during the "golden hour" of sunset or sunrise. The sky is a gradient of orange, yellow, and light blue, with the sun visible as a bright orb on the horizon. The foreground is a grassy hillside with tall, dry, golden-brown grass. In the middle ground, there are rolling green hills, a small body of water (likely a reservoir or lake) nestled in a valley, and several wind turbines visible on the distant hills. The overall mood is serene and expansive.

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.

Futures Process

OUTREACH



ROUND 1 ANALYSIS

Current Strategies



REPORT



OUTREACH



ROUND 2 ANALYSIS

New Strategies



REPORT



Three Futures - “What If?” Scenarios

A



**Rising Tides,
Falling
Fortunes**

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

B



**Clean
and Green**










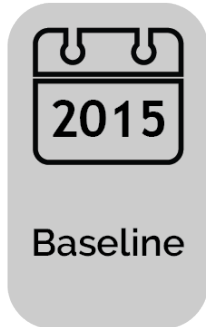





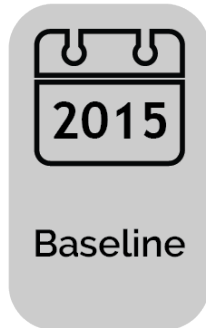


What if... new technologies and a national carbon tax enabled greater telecommuting and distributed job centers?

C






**Back to
the Future**

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

	Round 1 Analysis <i>Comparing the three Futures, how does Plan Bay Area 2040 fare in an era of uncertainty?</i>	Round 2 Analysis <i>Comparing against Round 1 results, how do new strategies improve each Future?</i>
Rising Tides, Falling Fortunes <i>(RTFF)</i>	   Baseline + External Forces (RTFF) + Strategies (PBA 2040)	   Baseline + External Forces (RTFF) + Strategies (Horizon _{\$})
Clean and Green <i>(CAG)</i>	   Baseline + External Forces (CAG) + Strategies (PBA 2040)	   Baseline + External Forces (CAG) + Strategies (Horizon _{\$\$})
Back to the Future <i>(BTTF)</i>	   Baseline + External Forces (BTTF) + Strategies (PBA 2040)	   Baseline + External Forces (BTTF) + Strategies (Horizon _{\$\$})

Refresher: External Forces for Each Future

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 regulations (3' SLR)	More limited	Magnitude 7.0 Hayward Fault earthquake
				Similar to today			
 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			

Refresher: How Did We Integrate the Megaregion?



Rising
Tides,
Falling
Fortunes

Status quo Future - interregional travel **continues to grow at current rate**, including in-commuting



Clean
and Green

Federal policy **minimizes further growth in interregional travel**, with new taxes making it much less affordable for mega-commuters



Back to
the Future

Low cost of driving allows the megaregion to blossom - with **much more rapid interregional growth than today** overwhelming existing regional gateways



Refresher: 35 Strategies Analyzed

Strategies were designed to support these nine priority areas, based on the Futures Interim Report findings. While new revenues were assumed in all Futures, fiscal constraint did mean that some strategies were omitted from Rising Tides, Falling Fortunes.



Improve Economic Mobility



Shift the Location of Jobs



Spur Housing Production



Retain & Expand Affordable Housing



Improve Access, Speed, and Reliability of Transportation



Prioritize Active Modes



Price Transportation Services



Reduce the Environment's Impact on Us



Reduce Our Impact on the Environment



H O R I Z O N

Refresher: Five Challenges from Round 1 Analysis

In the Futures Interim Report (March 2019), a set of key challenges were identified. The challenges focused on how Plan Bay Area 2040 strategies might fare under previously-unstudied external forces like sea level rise, autonomous vehicles, and federal policy shifts.

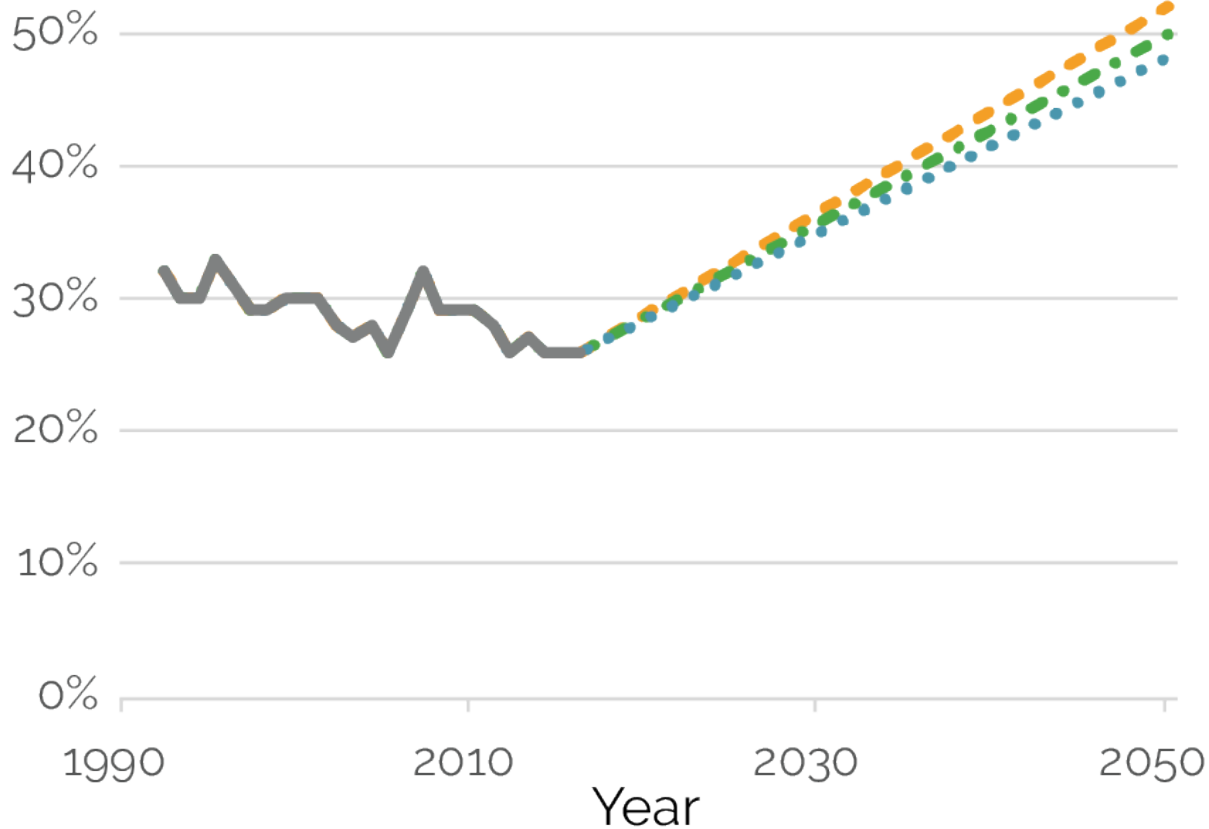
Challenge



AFFORDABLE

Without new strategies in place, Bay Area housing affordability continued to get worse.

Average
Share of
**Household
Income
Spent on
Housing**



Observed

Rising Tides, Falling Fortunes

Clean and Green

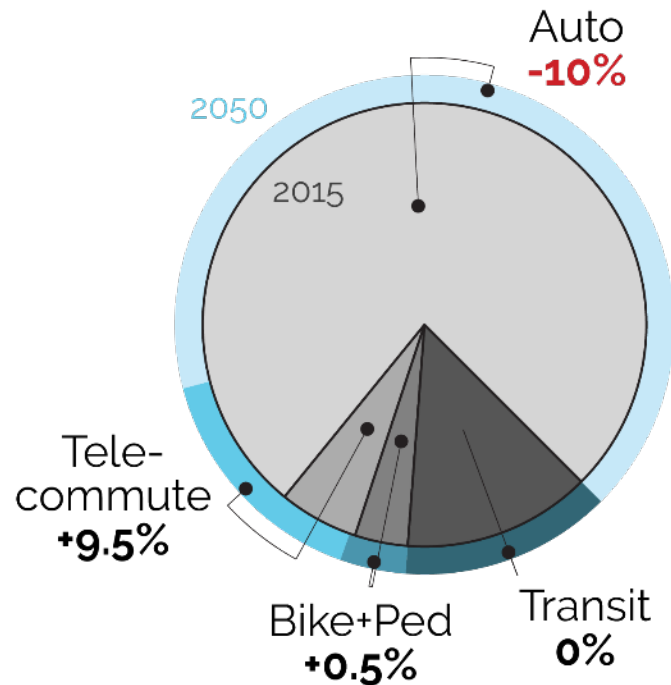
Back to the Future



Public transit, walking, and bicycling saw limited gains in mode share compared to 2015 conditions.

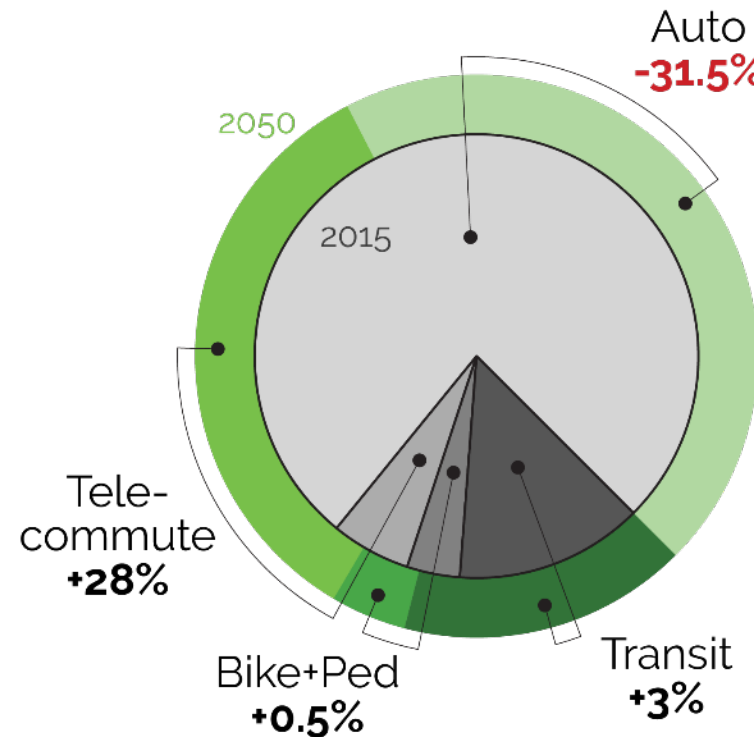
Rising Tides, Falling Fortunes

In 2050, 67% of commuters use autos.



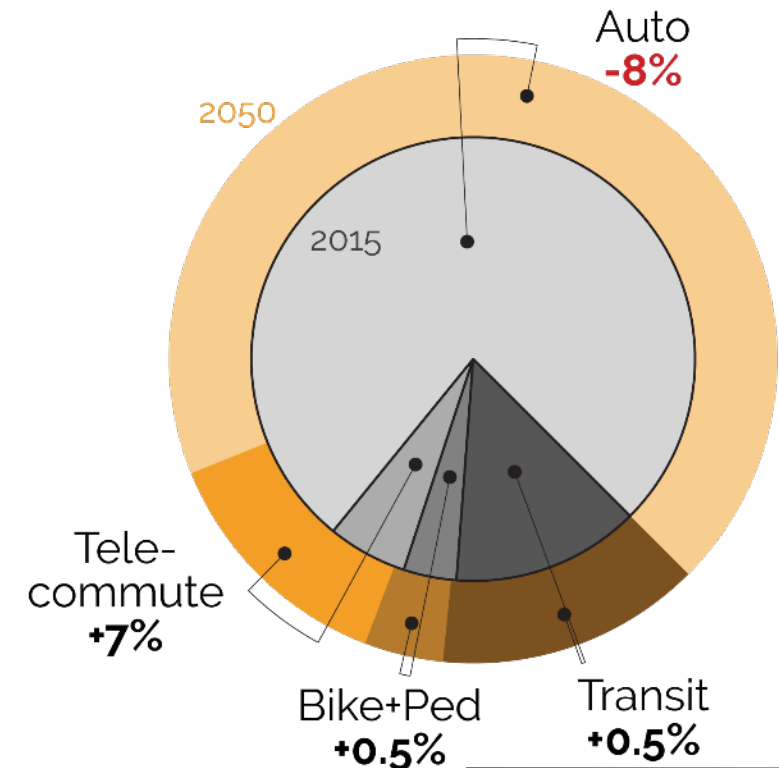
Clean and Green

In 2050, 45% of commuters use autos.



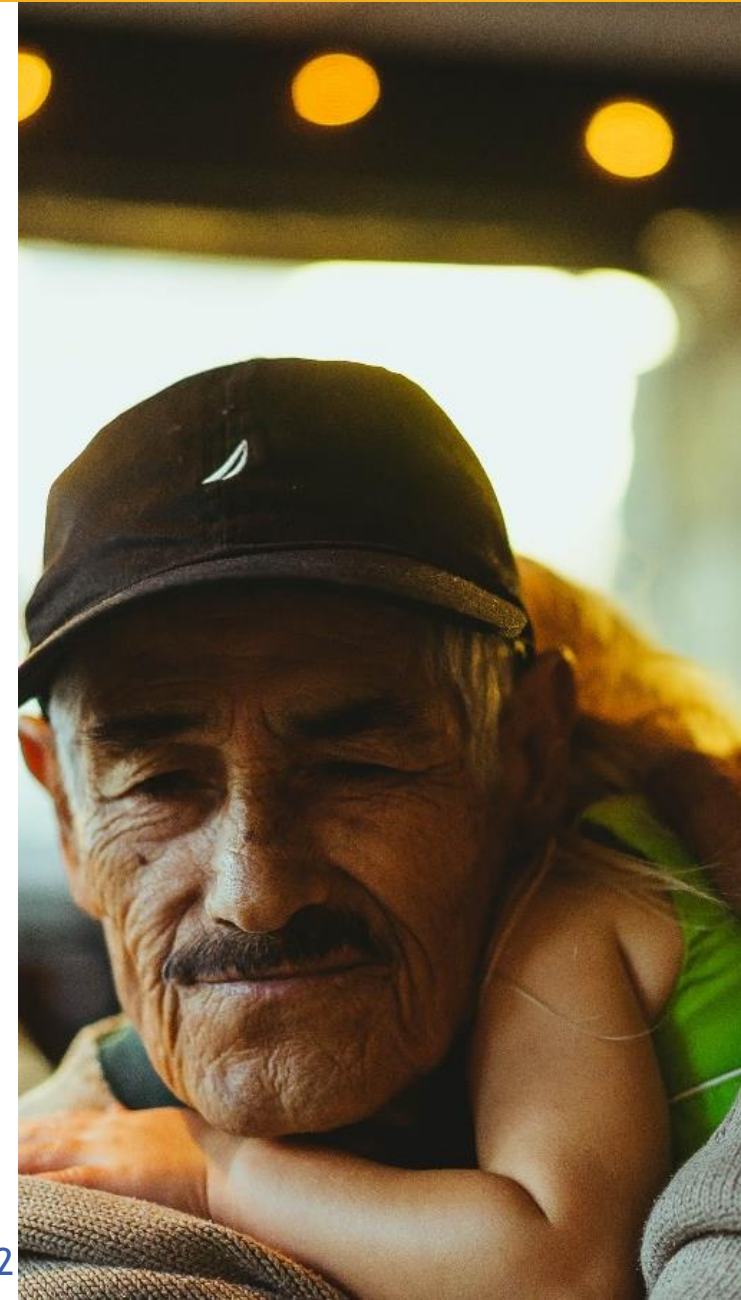
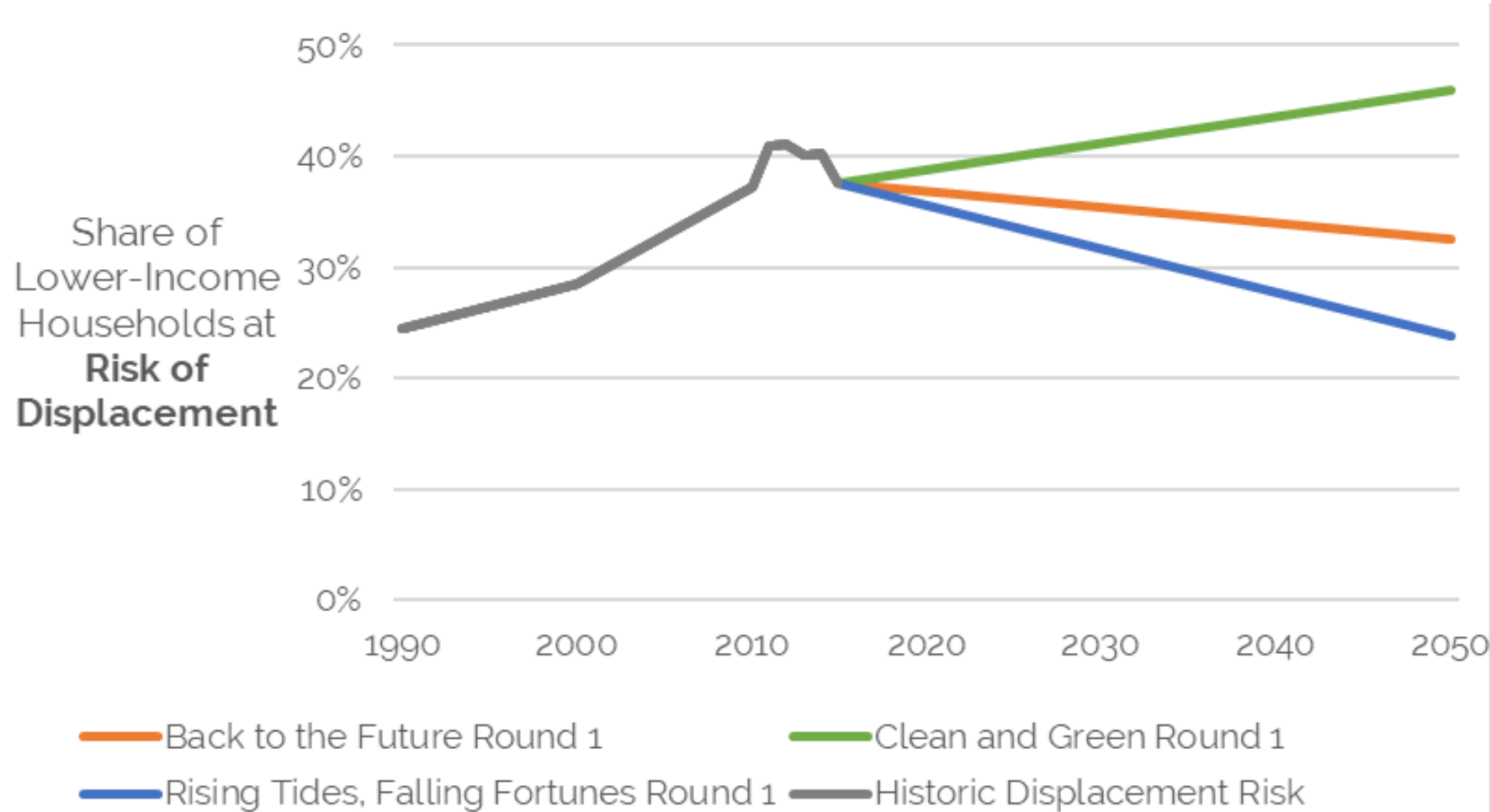
Back to the Future

In 2050, 69% of commuters use autos.



Challenge

A significant share of lower-income households remained at risk of displacement in each Future.



Unmitigated impacts from sea level rise and natural disasters resulted in significant damage across the region.

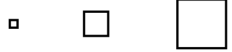
Rising Tides, Falling Fortunes
3 feet of sea level rise

Clean and Green
1 foot of sea level rise

Back to the Future
2 feet of sea level rise

Homes Affected by Hazards





1k 10k 40k

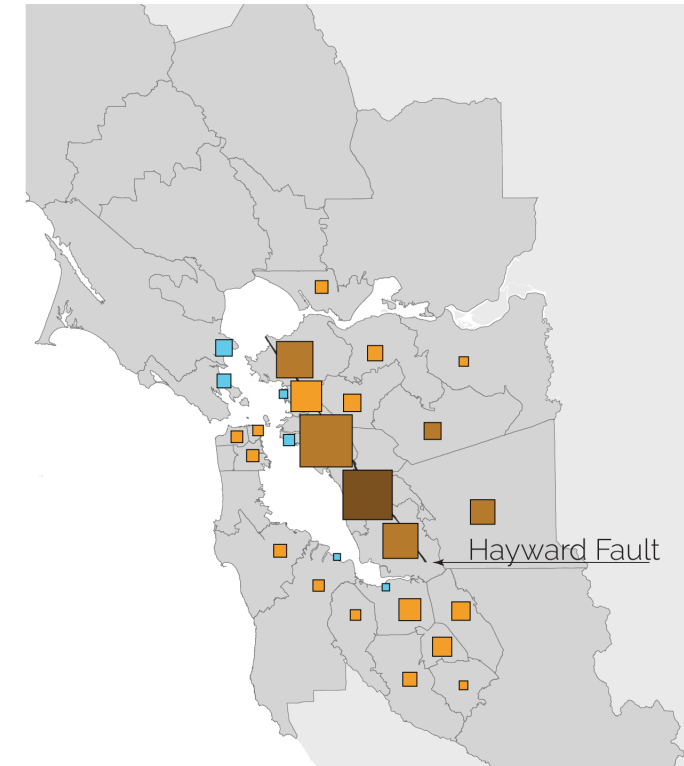
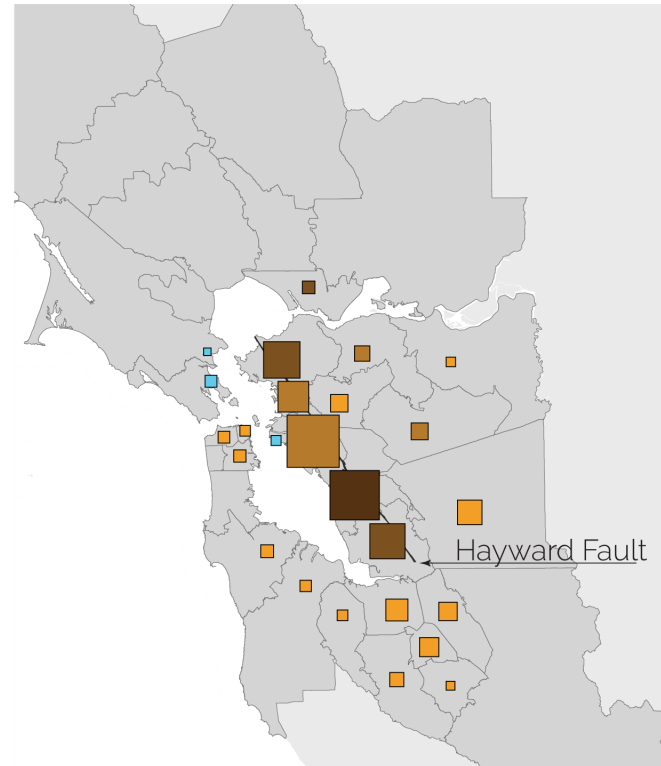
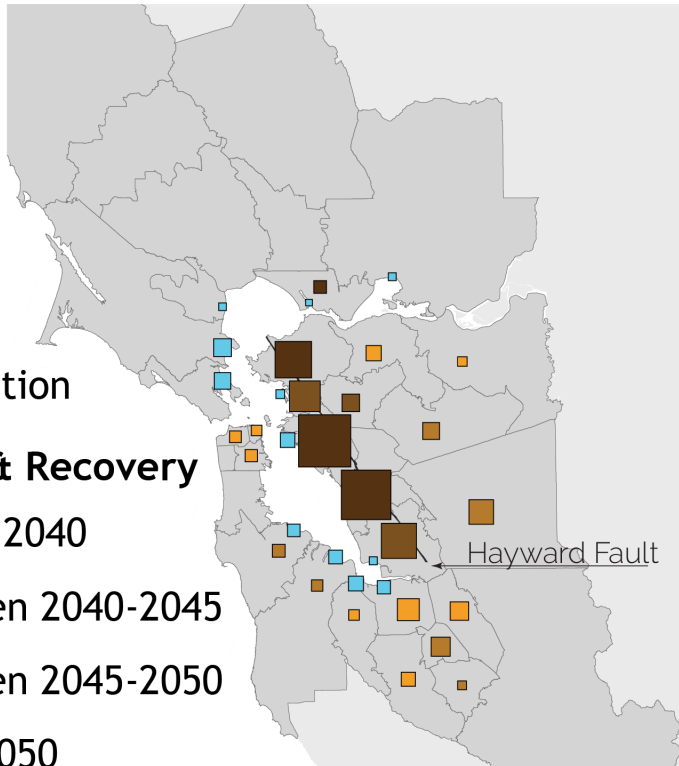


Sea Level Rise

 Permanent Inundation

Earthquake Damage & Recovery

-  Recovered before 2040
-  Recovered between 2040-2045
-  Recovered between 2045-2050
-  Recovered after 2050



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

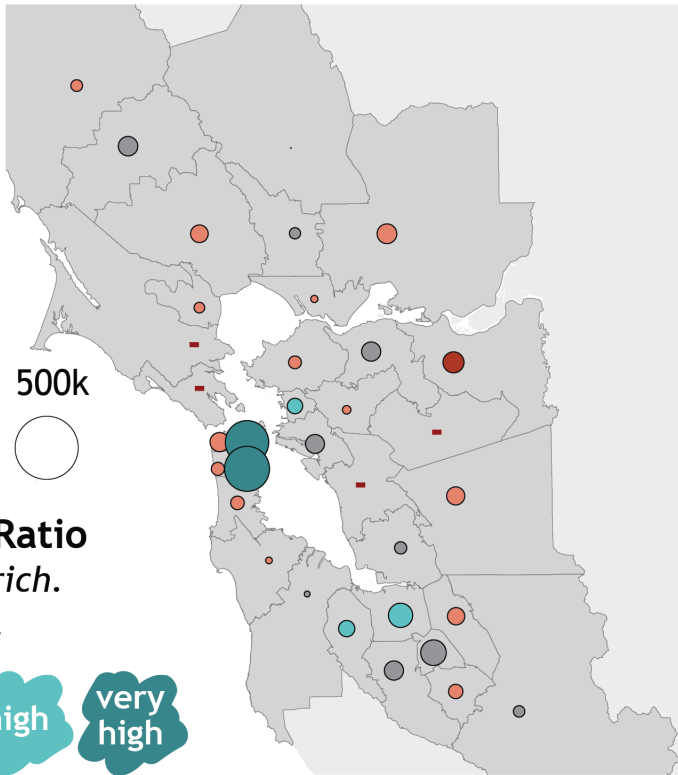
Rising Tides, Falling Fortunes
+0.5M Homes, +0.5M Jobs

Overall Growth
Circle area represents combined job & housing growth from 2015 to 2050.

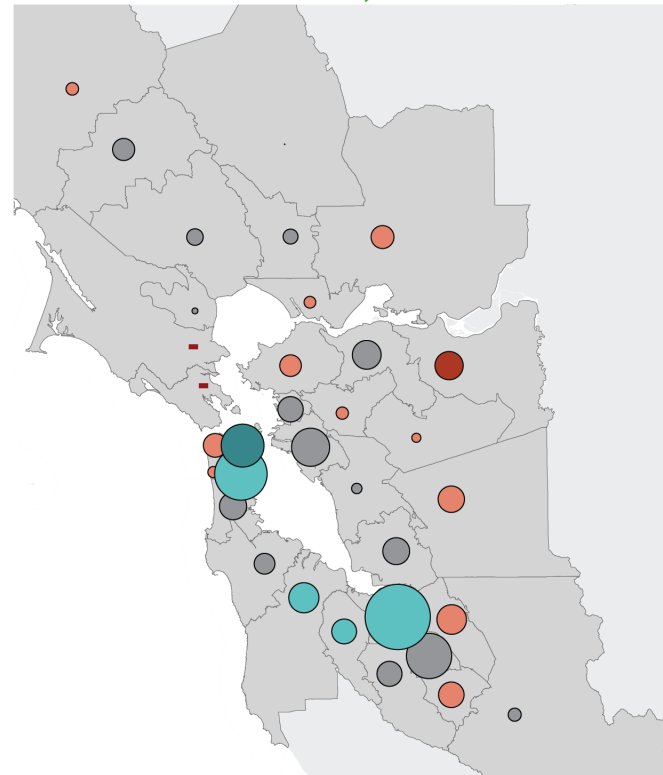
negative growth 10k 100k 500k

2050 Jobs/Housing Ratio
Red areas are housing rich.
Blue areas are job rich.

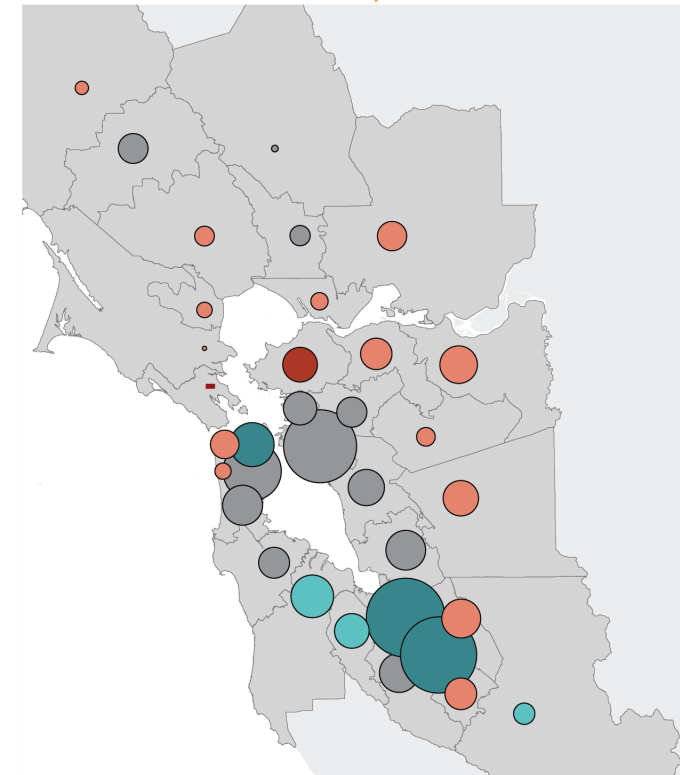
very low low avg. high very high



Clean and Green
+1.3M Homes, +1.1M Jobs



Back to the Future
+2.1M Homes, +2.7M Jobs





H O R I Z O N

Top 10: Horizon Strategy Findings

We have explored the effectiveness of over 30 strategies to improve the region's economic, housing, transportation, and environmental challenges.

New growth areas enable more growth near transit and near opportunity.



Allow Diverse Housing Around Transit



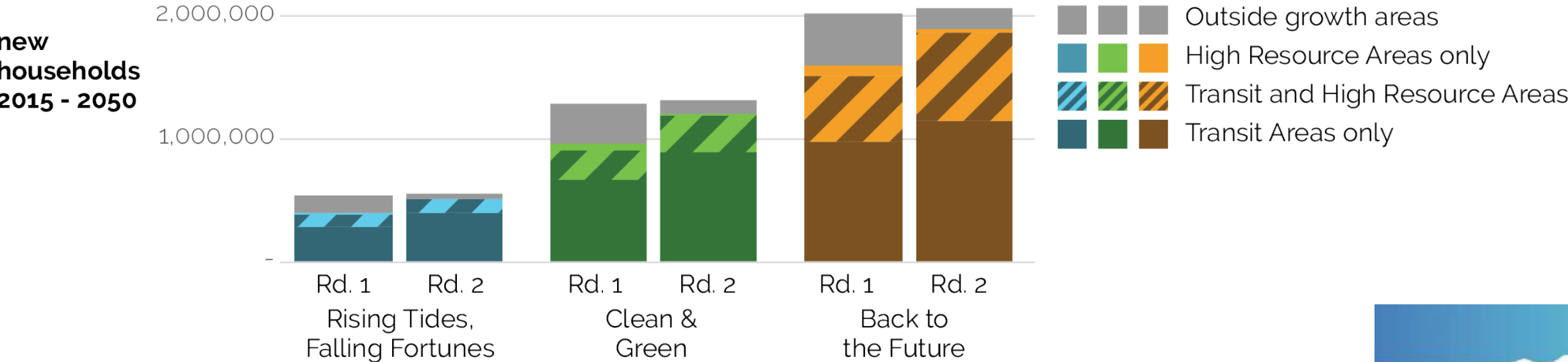
Allow more diverse housing growth around areas with high frequency transit. Expand the growth footprint beyond the current list of PDAs.

Allow Diverse Housing in High-Resource Areas



Allow more diverse housing growth in areas of high opportunity that also have moderate transit service. Expand the growth footprint beyond the current list of PDAs.

Location of households added between 2015-2050 relative to growth geography



A mix of strategies to retain and expand affordable housing made progress in addressing the current affordable housing gap.



Pass Inclusionary Zoning Policies



Strategies
(Horizon_{\$})

Require 10% to 20% of all new development to be deed-restricted affordable, expanding off the Plan Bay Area 2040 inclusionary strategy.

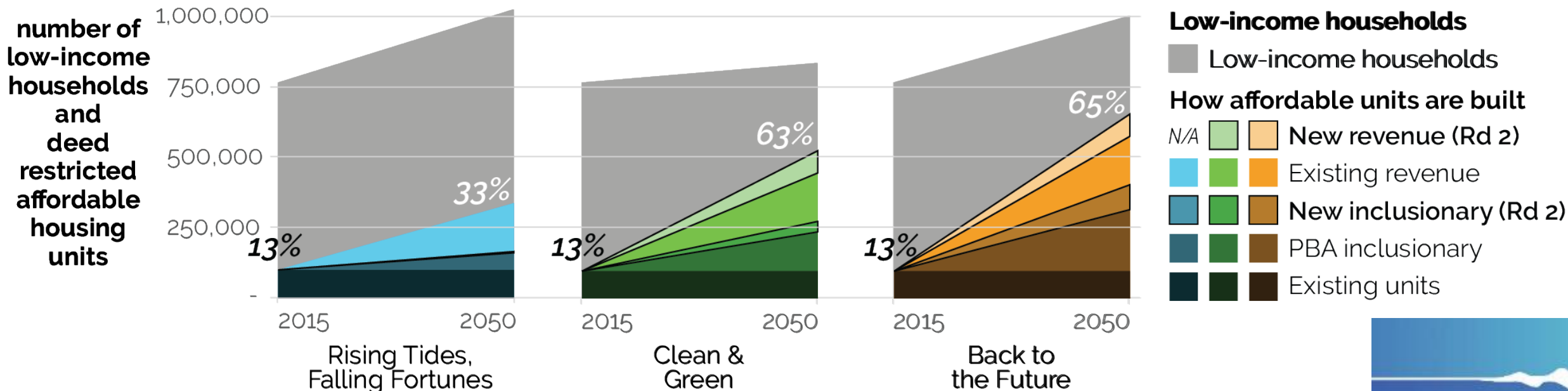
Fund Affordable Housing



Strategies
(Horizon_{\$\$})

Raise \$1.5 billion in new annual revenue to build and preserve affordable housing, complementing existing federal, state, and local affordable housing funds.

Number of deed restricted affordable housing units and the number of low-income households



Shifts in transportation mode choice were most pronounced for active transportation, driven in part by micromobility strategies.



Strategies that prioritized active modes.



Implement Vision Zero Speed Reductions

Reduce speed limits to 25 mph on local roads within three miles of transit, in addition to reducing speeds on highways.



Build a Micromobility Network

Build nearly 10,000 miles of micromobility infrastructure, including protected lanes and trails.



Invest in Free Short-Trip Service

Fund shared personal mobility, including scooters and electric bikes, within 3 miles of transit.

Other strategies that contributed to modal shift.



Suite of Growth Pattern Strategies

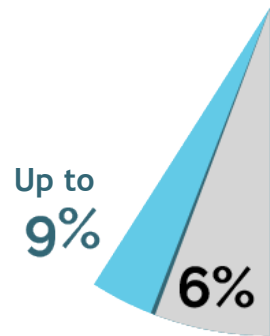
By changing the growth pattern in Round 2 analysis, more households and jobs are in areas where the active transportation investments were focused.



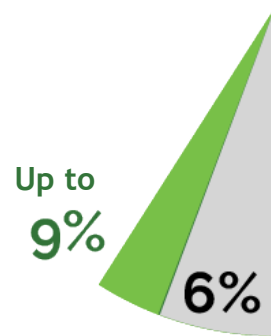
Apply Time-of-Day Tolls on All Freeways

Toll vehicles on highways based on the time of day and the number of occupants in the vehicle.

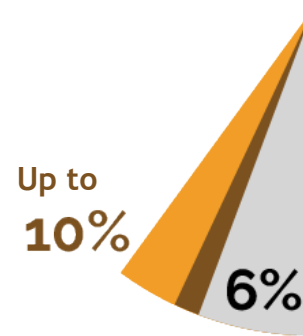
Active (walk & bike) mode share in 2015, and Futures round 1 and round 2 analysis



Rising Tides,
Falling Fortunes

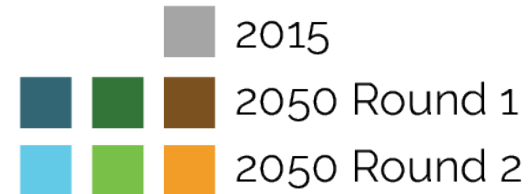


Clean &
Green



Back to
the Future

active (walk+bike) mode share



Note that mode share is reflective of commute mode; the share is higher when accounting for all trips.

While still present, transit overcrowding was partially alleviated, with new Bus Rapid Transit (BRT) lines as well as a new Transbay Rail Crossing playing a key role.



Make Strategic Transit Investments



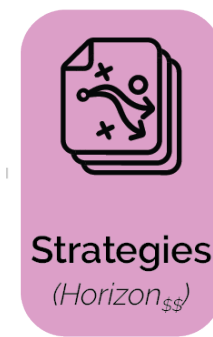
Build major PBA2050 transit investments, such as BART to Silicon Valley Phase 2 and Caltrain DTX.

Build a Next-Generation BRT Network



Create a fast and frequent regional bus network, providing redundancy for rail lines and connecting underserved areas.

Build a New Transbay Rail Crossing



Build a new rail crossing from the East Bay to the West Bay to provide greater transit capacity across the Bay.

Final analysis of transit overcrowding still under development.

Road pricing reduced roadway congestion, but equity concerns need to be addressed before advancing this strategy further. (part 1)



We were able to explore how congestion was affected by external forces & strategies.

The next slide will show the difference in Round 2.

Rising Tides Falling Fortunes

2050: 10% autonomous vehicle market share
2050: \$0.20 per mile vehicle operating cost

Round 1 Highway Congestion corridors near max capacity

- major highways
- 2050, congestion
- 2050, closure from hazards

Clean and Green

2050: 95% autonomous vehicle market share
2050: \$0.40 per mile vehicle operating cost

Round 1 Highway Congestion corridors near max capacity

- major highways
- 2050, congestion
- 2050, closure from hazards

Back to the Future

2050: 75% autonomous vehicle market share
2050: \$0.10 per mile vehicle operating cost

Round 1 Highway Congestion corridors near max capacity

- major highways
- 2050, congestion
- 2050, closure from hazards

Road pricing reduced roadway congestion, but equity concerns need to be addressed before advancing this strategy further. (part 2)

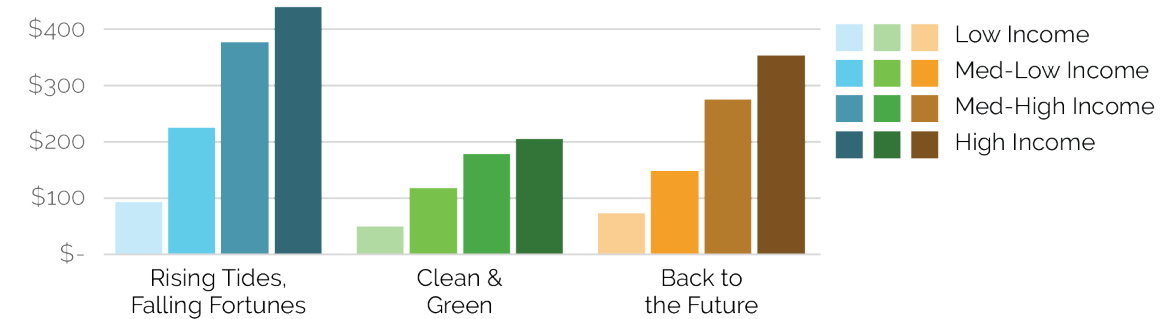


Apply Time-of-Day Tolls on All Freeways



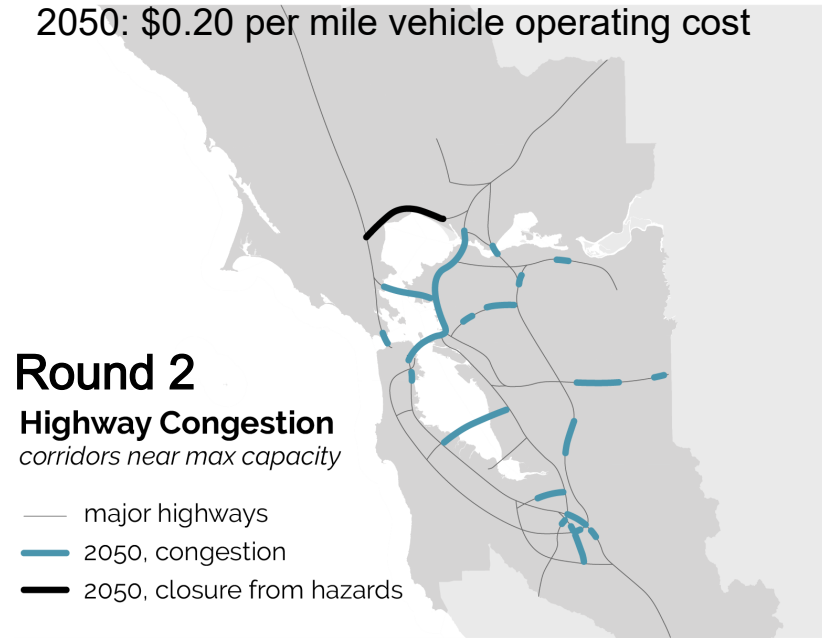
Apply a \$0.05 - \$0.15 per mile toll on all freeways depending on vehicle occupancy and time of day.

Average Annual Time-of-Day Toll Revenue per Household by Income in 2050 (2019 dollars)



Rising Tides Falling Fortunes

2050: 10% autonomous vehicle market share
2050: \$0.20 per mile vehicle operating cost



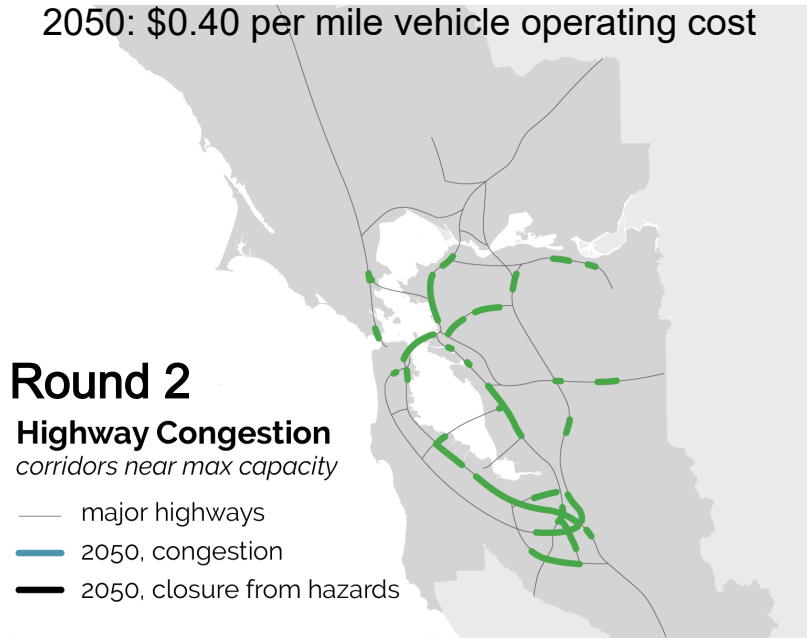
Round 2

Highway Congestion
corridors near max capacity

- major highways
- 2050, congestion
- 2050, closure from hazards

Clean and Green

2050: 95% autonomous vehicle market share
2050: \$0.40 per mile vehicle operating cost



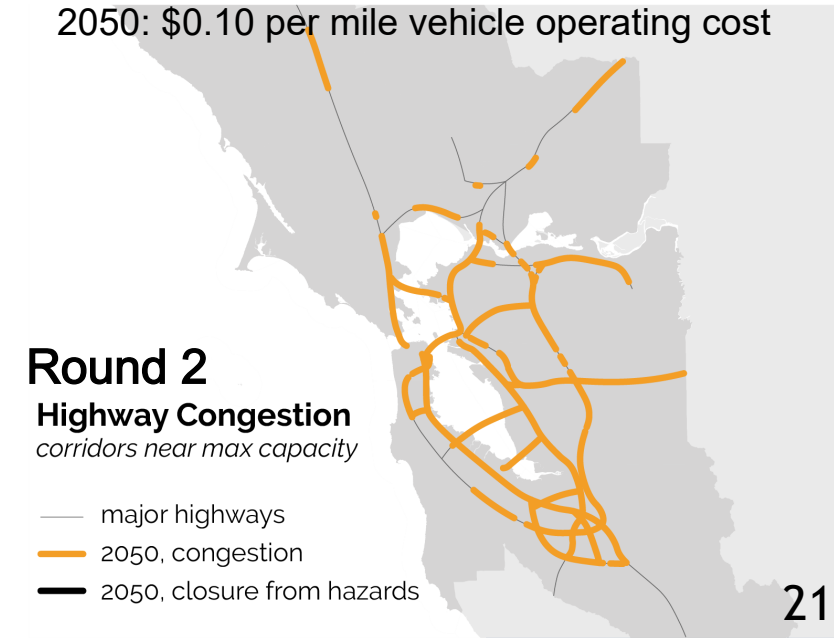
Round 2

Highway Congestion
corridors near max capacity

- major highways
- 2050, congestion
- 2050, closure from hazards

Back to the Future

2050: 75% autonomous vehicle market share
2050: \$0.10 per mile vehicle operating cost



Round 2

Highway Congestion
corridors near max capacity

- major highways
- 2050, congestion
- 2050, closure from hazards

Economic development strategies evaluated were insufficient to slow the decline of the middle class.



Create Incubator Programs



Strategies
(Horizon_{\$})

Expand and create new job incubator programs in economically-challenged communities.

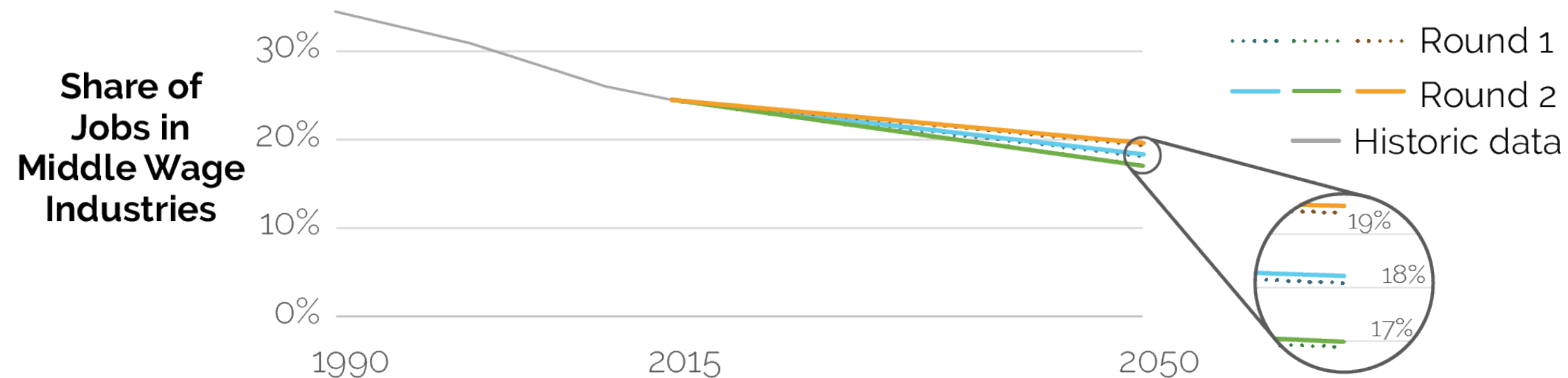
Expand Construction Workforce Programs



Strategies
(Horizon_{\$})

Expand construction workforce development and training programs. Support early construction professionals in early apprenticeship years.

Share of regional jobs in middle wage industries - historic and projected



Adaptation and retrofit strategies boosted our region's resilience.



Adapt to Sea Level Rise



Strategies
(Horizon_{\$\$})

Leverages existing and new revenues to fund a hybrid set of gray and green infrastructure systems to adapt the region.

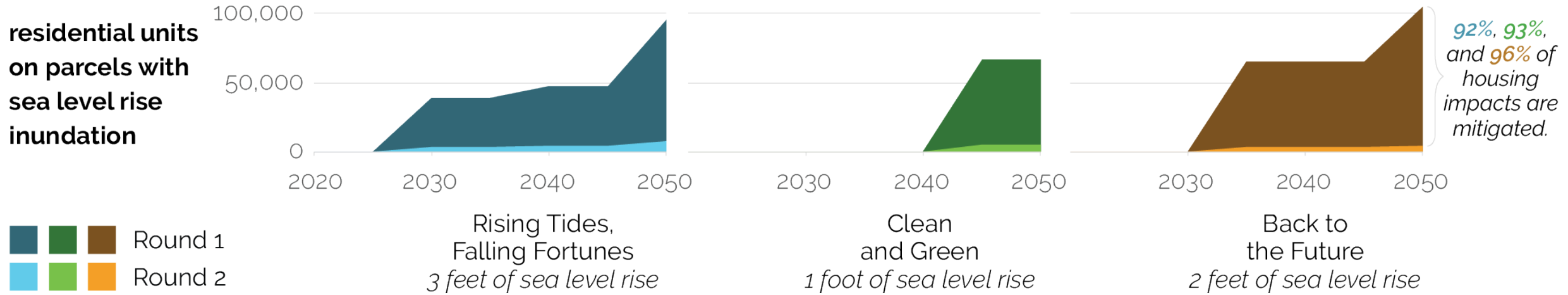
Retrofit Older Existing Buildings



Strategies
(Horizon_{\$\$})

Provides 50% subsidies for older buildings built before current codes to support common earthquake, wildfire, energy, and water retrofit strategies.

Residential sea level rise impacts in Futures round 1 (without adaptation) and round 2 (with adaptation)



Urban growth boundaries led to minimal greenfield development in both Round 1 and Round 2.



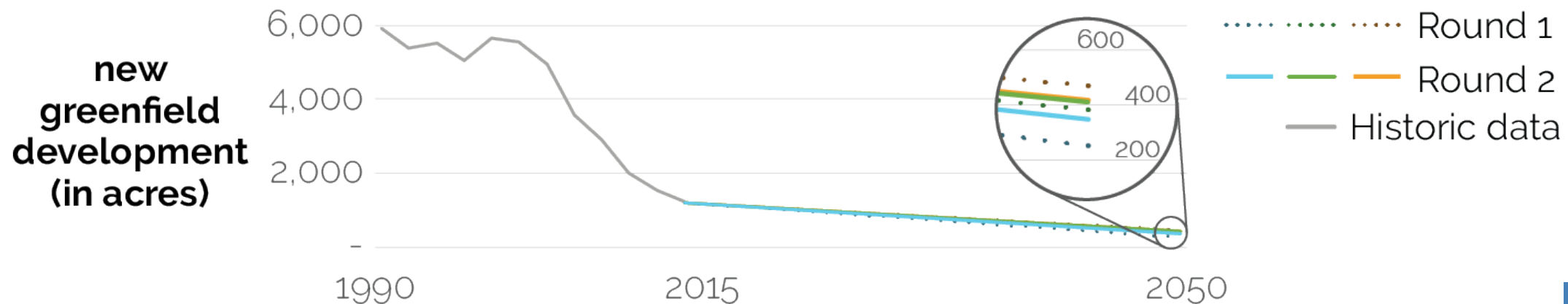
Maintain Urban Growth Boundaries



Strategies
(PBA 2040)

Restrict urban development on greenfield lands, continuing the region's recent commitment to reducing sprawl outward.

Acres of greenfield development annually - historic and projected



A VMT-based fee on office development was effective in focusing office growth, but not in shifting jobs to the East and North Bay.



Apply a VMT-Based Fee on Office Development



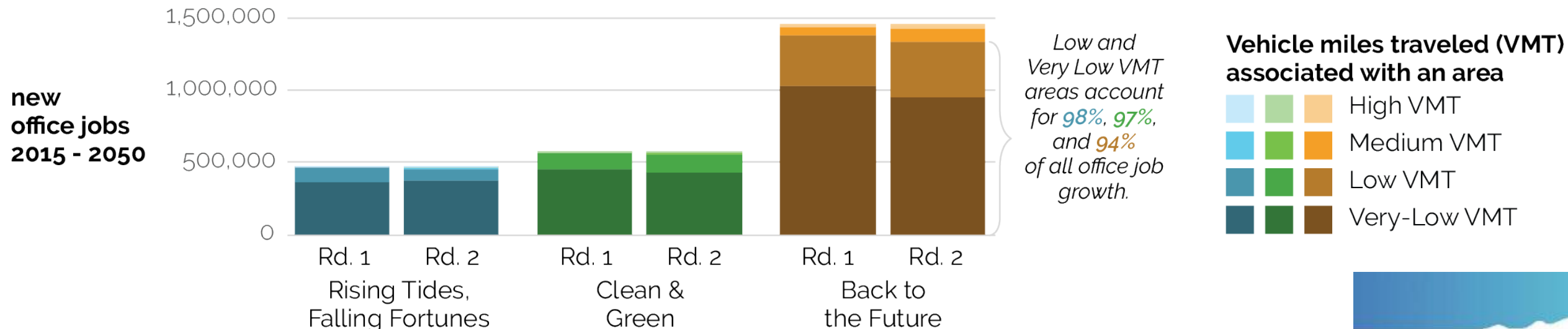
Strategies
(PBA 2040)

Apply a fee on new office development in areas that have high employment-related vehicle miles traveled (VMT), expanding upon a Plan Bay Area 2040 strategy.

Given that this strategy was included in Plan Bay Area 2040, it was studied in both Futures Round 1 and Futures Round 2 - and was very effective in focusing growth in low-VMT places in both analyses.

Further refinements could focus on better tailoring this strategy to reflect county-level conditions - rather than “one size fits all”.

Location of new office-related job growth relative to an area's associated VMT level



A large tax package (to fund subsidies / projects) focused on higher-income individuals and businesses did not have significant adverse impacts on the economy.



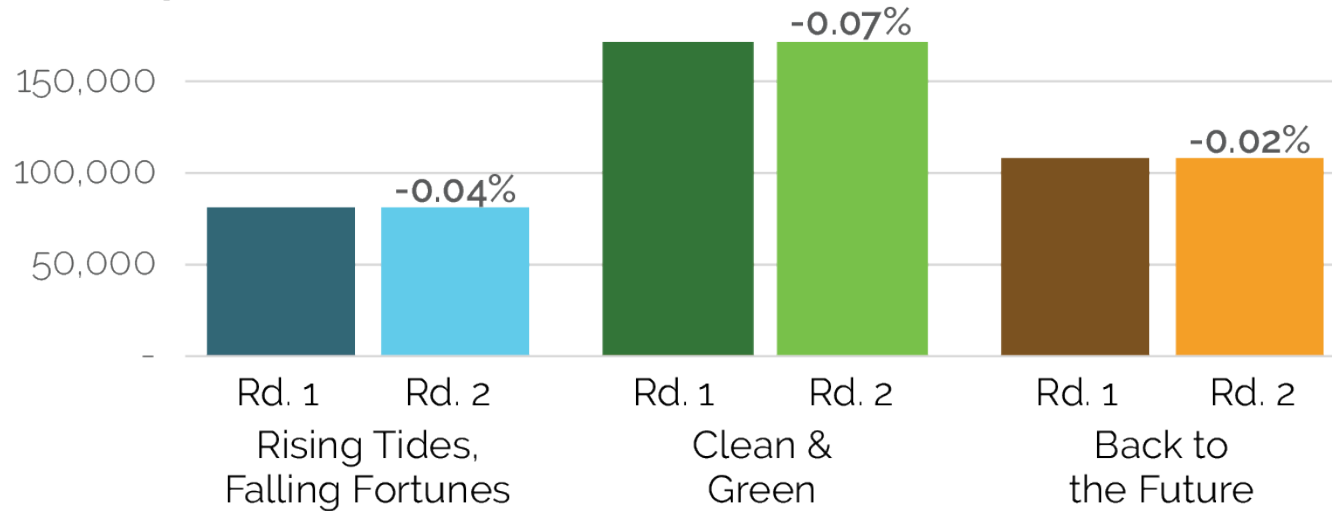
Raise New Revenues



Place a balanced tax increase on businesses, parcels (building and home owners), and high-income earners.

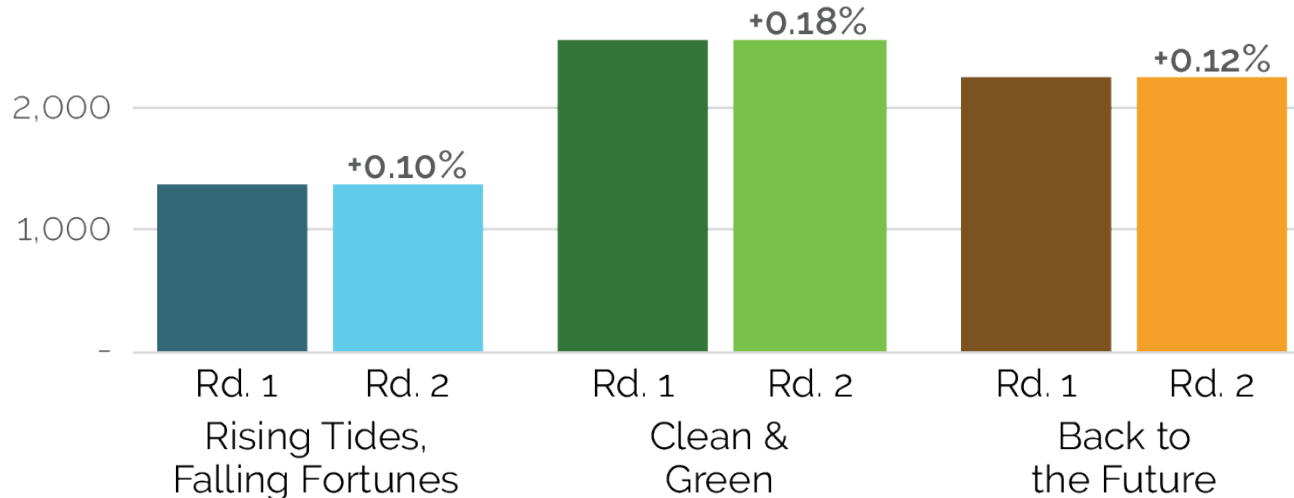
Projected Average Household Income in 2050

**2050
Average
Household
Income**
(in 2018
dollars)



Projected Annual Gross Regional Product in 2050

**2050
Gross
Regional
Product**
(in billions of
2018 dollars)



Initial economic analysis indicates that impacts would be relatively limited; however, further refinements could potentially better reflect the broader suite of benefits from infrastructure investments.



H O R I Z O N

Rating Strategies

Staff have selected one of three ratings for each strategy, based on its resilience and efficacy in the Futures analysis as well as its support for equitable outcomes.

Futures Round 2: Strategy Recommendations

Economy



Recommended to move forward into Plan Bay Area 2050 Blueprint.

No economic strategies received this rating.



Recommended to move forward *with minor revisions.*

Assess a VMT-Based Fee on Office Development

Create Incubator Programs in Economically-Challenged Areas

Expand Childcare Support for Low-Income Families



Not recommended to move forward *unless major revisions are made.*

Expand Construction Workforce Programs

Place Office Caps in Job-Rich Cities

Already advancing into implementation due to state legislative action in 2019.

Provide Portable Benefits for Part-Time/Freelance Workers

Not explored as part of Futures Round 2 analysis, but will be explored as part of Plan Bay Area 2050 Blueprint.

Establish Priority Production Areas to Protect Industrial Lands



Futures Round 2: Strategy Recommendations

Housing



Recommended to move forward into Plan Bay Area 2050 Blueprint.

Allow Diverse Housing in Priority Development Areas (PDAs)

Streamline Development in All Growth Areas



Recommended to move forward *with minor revisions*.

Allow Diverse Housing around Major Transit Stops (TPAs)

Allow Diverse Housing in High-Resource Areas (HRAs)

Transform Aging Malls and Office Parks into Neighborhoods

Fund Affordable Housing Preservation & Production

Require 10 to 20 Percent of All New Housing to be Affordable



Not recommended to move forward *unless major revisions are made*.

No housing strategies received this rating.

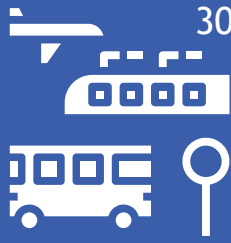
Already advancing into implementation due to state legislative action in 2019.




Repurpose Public Land to Build Housing

Increase Renter Protections

Futures Round 2: Strategy Recommendations

Transportation






 Recommended to move forward into Plan Bay Area 2050 Blueprint.	Operate and Maintain the Existing System
	Advance a Complete Micromobility Network
	Develop a Single Platform to Access and Pay for All Mobility
 Recommended to move forward <i>with minor revisions.</i>	Advance a New Transbay Rail Crossing
	Invest in Free Short-Trip Service
	Implement Vision Zero Speed Reduction Measures
 Not recommended to move forward <i>unless major revisions are made.</i>	Apply Time-of-Day Tolls on All Freeways
Ratings pending release of Draft Project Performance results.	Provide Free Transit to Lower-Income Riders
	Make Strategic Transit Modernization/Expansion Investments
	Build a Next-Generation Bus Rapid Transit Network
	Build Carpool Lanes & Address Interchange Bottlenecks
	Advance Next-Generation Rail Modernization
	Extend the Regional Rail Network

Futures Round 2: Strategy Recommendations

Environment



 Recommended to move forward into Plan Bay Area 2050 Blueprint.	<div>Keep Current Urban Growth Boundaries in Place</div> <div>Partially Adapt to Sea Level Rise</div>
 Recommended to move forward <i>with minor revisions.</i>	<div>Retrofit Older Existing Buildings (Energy, Water, Seismic, Fire, etc.)</div> <div>Fully Adapt to Sea Level Rise</div>
 Not recommended to move forward <i>unless major revisions are made.</i>	<div>Purchase Disaster Recovery Financing</div>
Rating pending release of Draft Project Performance results.	<div>Adapt SR-37 to Sea Level Rise</div>

Futures Final Report:

Resilient and Equitable Strategies
for the Bay Area's Future

The full report will highlight the full suite of strategies studied and describes to what extent the region performs better with these strategies.

The report is expected to be posted on the MTC website later this month.

FUTURES FINAL REPORT

RESILIENT AND EQUITABLE
STRATEGIES FOR
THE BAY AREA'S FUTURE

OCTOBER 2019



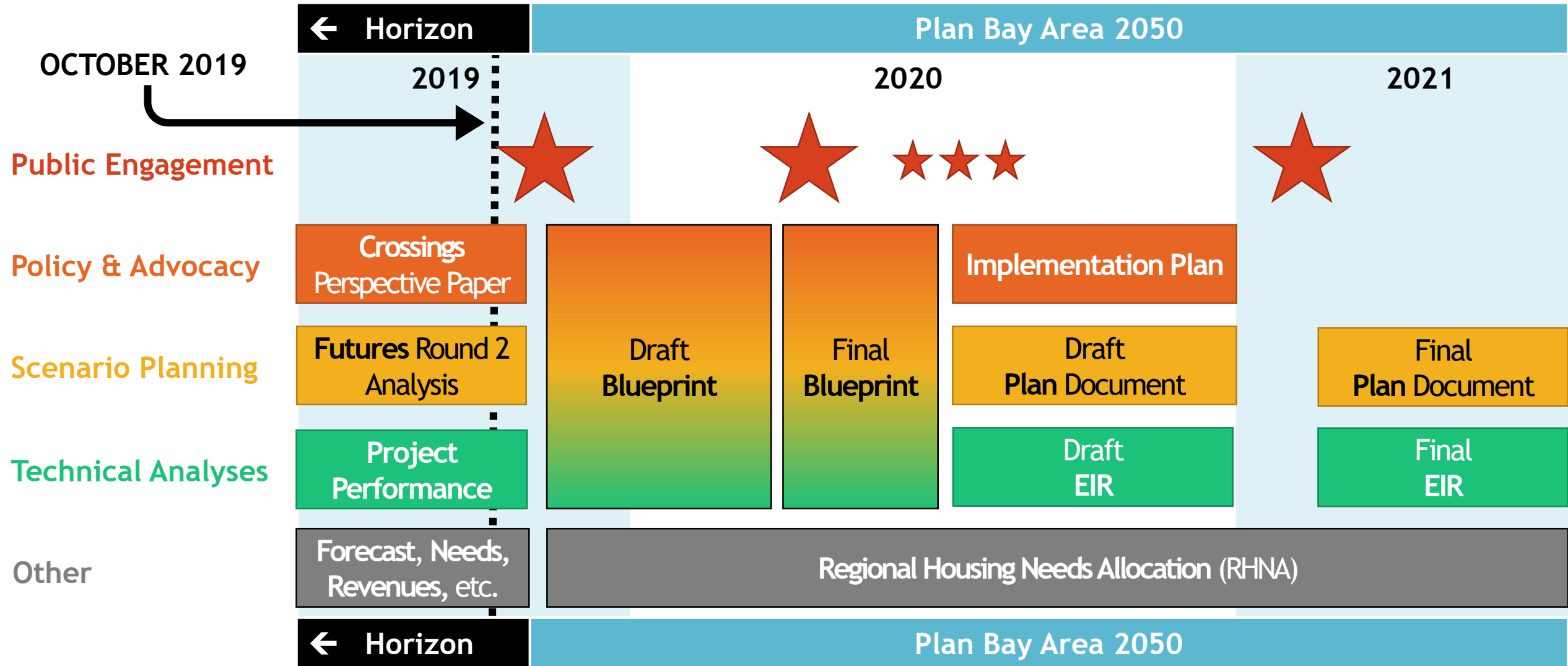
H O R I Z O N

What's Next?

Horizon provided an opportunity to “stress test” key strategies in advance of Plan Bay Area 2050. Input from elected officials, stakeholders, and the general public will help inform further refinements to make the shortlist of strategies included in the Plan Bay Area 2050 Draft Blueprint as resilient and equitable as possible.

The final decision on what strategies to include will occur in early 2020 and will be made by the MTC Commission and ABAG Executive Board.

Plan Bay Area 2050 Schedule





Metropolitan Transportation Commission

375 Beale Street, Suite 800
San Francisco, CA 94105

Legislation Details (With Text)

File #:	19-1036	Version:	1	Name:	
Type:	Report	Status:		Informational	
File created:	9/3/2019	In control:		Policy Advisory Council	
On agenda:	10/9/2019	Final action:			
Title:	Transit Update: Rail Synthesis and Crossings (30 minutes)				

Highlights of the progress on regional rail over the past decade, including identification of potential next steps to improve the region's transit system and discussion of tradeoffs associated with a new Transbay Crossing.

Sponsors:

Indexes:

Code sections:

Attachments: [06_Regional_Rail_Planning_Update.pdf](#)
[06_Correspondence_Regional_Rail_Planning_Update.pdf](#)

Date	Ver.	Action By	Action	Result
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Subject:

Transit Update: Rail Synthesis and Crossings
(30 minutes)

Highlights of the progress on regional rail over the past decade, including identification of potential next steps to improve the region's transit system and discussion of tradeoffs associated with a new Transbay Crossing.

Presenter:

Adam Noelting and Anup Tapase

Recommended Action:

Information

Attachments:

Metropolitan Transportation Commission Policy Advisory Council

October 9, 2019

Agenda Item 6

Transit Update: Rail Synthesis and Crossings

- Subject:** Highlights of the progress on regional rail over the past decade, including identification of potential next steps to improve the region's transit system and discussion of tradeoffs associated with a new Transbay Crossing.
- Background:** Policy Advisory Council Agenda Item 6, Transit Update: Rail Synthesis and Crossings is attached. This report will be presented to the Regional Advisory Working Group on October 8, 2019. Additionally, staff will seek input on the Transit Update: Rail Synthesis and Crossings at the October 12, 2019 Joint MTC Planning Committee with the ABAG Administrative Committee.
- Staff will be at your October 9 meeting to discuss this report. The Council's input is requested.
- Attachments:** Agenda Item 5b from the October 2019 Joint MTC Planning Committee with the ABAG Administrative Committee

Metropolitan Transportation Commission and the Association of Bay Area Governments Joint MTC Planning Committee with the ABAG Administrative

October 11, 2019

Agenda Item 5b

Transit Update: Rail Synthesis and Crossings

- Subject:** Highlights of the progress on regional rail over the past decade, including identification of potential next steps to improve the region's transit system and discussion of tradeoffs associated with a new Transbay Crossing.
- Background:** Over ten years ago, MTC partnered with the Peninsula Corridor Joint Powers Board (Caltrain), the Bay Area Rapid Transit District (BART), and the California High-Speed Rail Authority (CHSRA) for a two-year planning effort to develop a long-range vision for improving the passenger rail system in the San Francisco Bay Area as well as the wider Northern California megaregion. The Regional Rail Plan for the San Francisco Bay Area (2007 RRP) identified more than 50 capital improvement projects organized by a series of corridors. The 2007 RRP also recognized that success depended on more than the delivery of capital improvements, noting the need for bold policy changes to reform land use, transit governance, and transportation funding.
- The Bay Area has delivered on a number of the 2007 RRP's ready-to-go capital improvement projects, and project development phases continue for a number of other key projects. However, the region has fallen short on many of the policy recommendations, particularly the bold policy changes to reform governance and project delivery.
- Issues:** Current passenger rail trends are creating challenges for the region. Rail services are expensive to operate and maintain – accounting for a significant share of the long-range regional plan – yet at the same time regional ridership peaked in 2016 and continues to become more commute-focused. Trunk lines serving San Francisco (Transbay BART & Caltrain) are over-crowded, and the delivery of major capital projects has been slow.
- Meanwhile, project development and planning studies are underway for a next-generation of regional rail investments, including the Second Transbay Rail Crossing, Caltrain Business Plan, Caltrain Downtown Extension (DTX), Diridon Integrated Station Concept (DISC) Plan, Dumbarton Rail, San Jose Rail Corridor Plan, Southern Alameda County Integrated Rail Analysis, and Valley Link efforts. Only some of these projects are currently included in the region's adopted fiscally constrained long-range plan, Plan Bay Area 2040.
- Strategic choices related to governance and organizational structure are required to successfully deliver the next-generation regional rail investments. As part of their project development activities, several projects identified above— Second Transbay Rail Crossing, Caltrain Business Plan, DTX, DISC, and Valley Link— are engaged in discussions about optimal governance and organizational structures for their respective corridors or systems. Tying together these governance, capital project funding plans, and delivery options will be a key and significant effort throughout the region.

Evolving the Regional Role

Beginning with Resolution No. 1876 (in 1988) and evolving to Resolution No. 3434 (in 2001), MTC has a legacy of regional collaboration to develop transit expansion programs.

MTC is in the midst of developing Plan Bay Area 2050—the Bay Area’s long-range fiscally-constrained plan. It is not feasible to include all of the proposed next generation of regional rail investments using the region’s forecasted revenues, even if new revenues become available. Fiscal constraint necessitates prioritization of investment priorities, which will be informed by MTC’s ongoing Project Performance Assessment. This effort estimates project-level benefits of the region’s most costly and transformative capital projects. MTC is currently evaluating approximately 100 project proposals with costs greater than \$250 million, and a significant share of these projects are regional rail investments. In total, the Project Performance Assessment is conducting evaluations for more than \$340 billion in project capital costs (2019\$). Draft results will be released November 2019 in time for the development of the Plan Bay Area 2050 Blueprint.

MTC must evolve its regional role to ensure customer-focused and fiscally responsible project implementation. **Attachment A** details three core areas where MTC can evolve to support the advancement of passenger rail service in the Bay Area.

1. **Prioritize Investments.** Leverage work from the Project Performance Assessment to understand which projects are most effective and most equitable, given financial constraints. Advance a successor to Resolution 3434.
2. **Promote supportive land use.** Building upon the Horizon land use strategies, consider which strategies can best support future rail projects, while reimagining and revamping the TOD policy in 2020.
3. **Optimize organization and governance.** Develop partnership/organizational options for more efficient and coordinated project delivery of the next generation regional rail investments.

Crossings

Included as part of the Project Performance Assessment framework are seven Transbay Crossing concepts. The idea of a new Transbay Crossing has captured the imagination of Bay Area residents for more than 70 years. Over the last 30 years, there have been three Bay Crossing studies, which were most recently supplemented by the 2017 Core Capacity Transit Study.

As part of the ongoing Horizon initiative, observations on the performance of these seven Transbay Crossing concepts will be profiled in an upcoming Perspective Paper to inform how Plan Bay Area 2050 might incorporate an investment of this magnitude. Highlights from the Crossings Perspective Paper findings are included in **Attachment A**. In the months ahead, BART and Capitol Corridor will embark on another second crossing study by taking an even deeper

dive into the feasibility of a new Transbay Crossing for BART and/or commuter rail.

Recommendation: None

Attachments: Attachment A: PowerPoint Presentation: Regional Rail Planning Update



Therese W. McMillan

Regional Rail Planning Update

**Evolving the Regional Role via
Prioritization, Supportive Land Use, and Governance**

**Joint MTC Planning Committee with
the ABAG Administrative Committee**

October 11, 2019

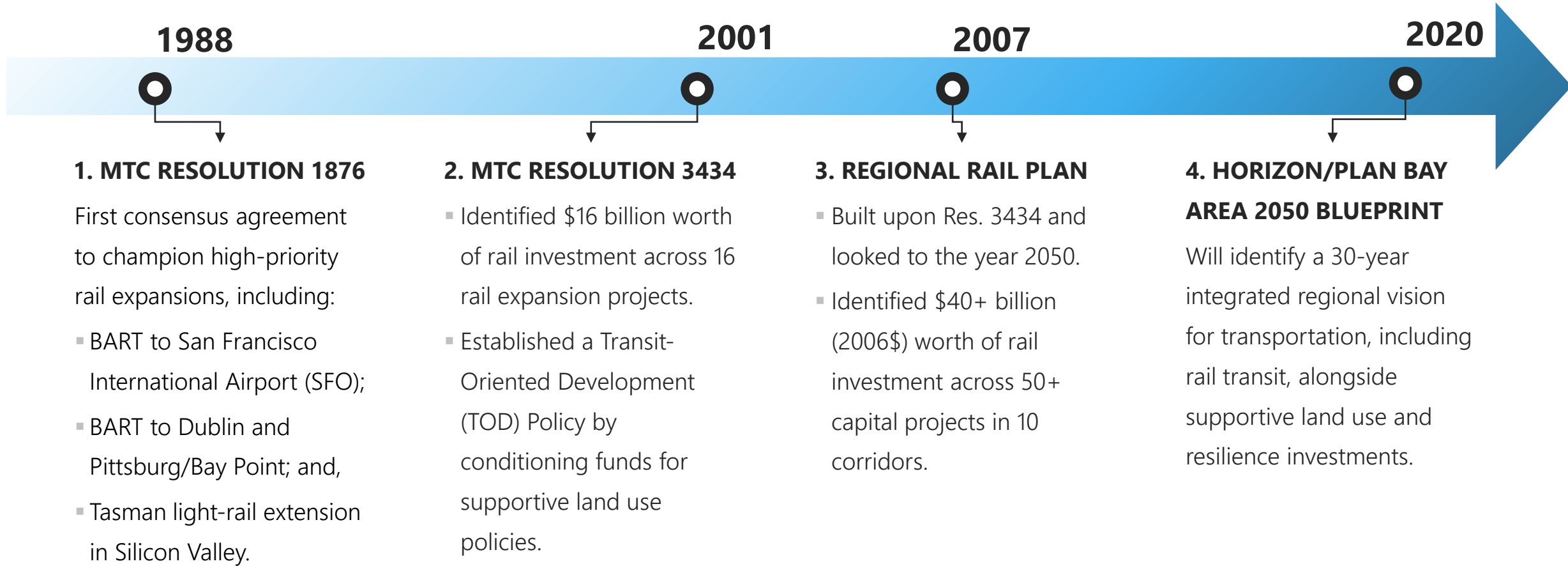


Crowded Field, A lot Going On

- **CALTRAIN BUSINESS PLAN** : Caltrain is preparing a long-term business strategy for the future of its system
- **CALTRAIN DOWNTOWN EXTENSION (DTX)**: SFCTA is conducting a governance and delivery review
- **DIRIDON INTEGRATED STATION CONCEPT (DISC) PLAN**: collaborative planning effort of future hub station and surrounding area
- **DUMBARTON RAIL**: A consortium called “Crossbay Transit Partners,” comprising Facebook and Plenary Group, working with Caltrain staff, is exploring options for a new Dumbarton Rail crossing
- **SECOND TRANSBAY RAIL CROSSING**: BART and Capitol Corridor staff are beginning planning work related to a potential future new Bay rail crossing
- **VALLEY LINK**: The recently-created Tri Valley, San Joaquin Valley Regional Rail Authority (TVSJVRRA) is currently conducting a feasibility study and environmental review process for a for a potential future “Valley Link” rail project



Legacy of Regional Rail Expansion Programs



2007 Regional Rail Plan (“RRP”) Vision



PRIORITIZE

- Ring the Bay With Rail
- The Right Technology Should Be Used With the Right Corridor
- The BART & Caltrain Systems are the Backbone
- The BART System’s Outward Expansion is Nearly Complete
- Rail Infrastructure Must Be Expanded to Accommodate Growth In Passenger and Freight Traffic



LAND USE

- Rail Transit and Focused Transit-Oriented Developments Must Go Hand in Hand



ORGANIZATION & GOVERNANCE

- The Bay Area Needs a Regional Rail Network
- High-Speed Rail Provides Opportunities to Enhance and Accelerate Regional Rail Improvements
- Institute a New Governance Structure for Delivery of Rail Services
- Successor to Resolution 3434 Needed to Advocate for Rail Funding

Rail **Implementation** Recent Highlights

CAPITAL PROJECTS HIGHLIGHTS

- ✓ 1. Addition of a 4th daily round trip on ACE service (2012)
- ✓ 2. Inauguration of the BART Oakland Airport Connector (2014)
- ✓ 3. Inauguration of SMART from Santa Rosa to San Rafael (2017)
- ✓ 4. Opening of BART to Warm Springs/South Fremont (2017)
- ✓ 5. Opening of the Fairfield-Vacaville Capitol Corridor Station (2017)
- ✓ 6. Inauguration of BART to Antioch (2018)
- ✓ 7. Opening of the Salesforce Transit Center (2018)
- ☐ 8. Opening of BART to Berryessa (under testing)
- ☐ 9. Opening of SMART to Larkspur Ferry (under testing)
- ☐ 10. Modernization and Electrification of Caltrain (under construction)



SUMMARY OF COMPLETED
REGIONAL RAIL
IMPROVEMENT PROJECTS

Current **Trends** for the Rail Network

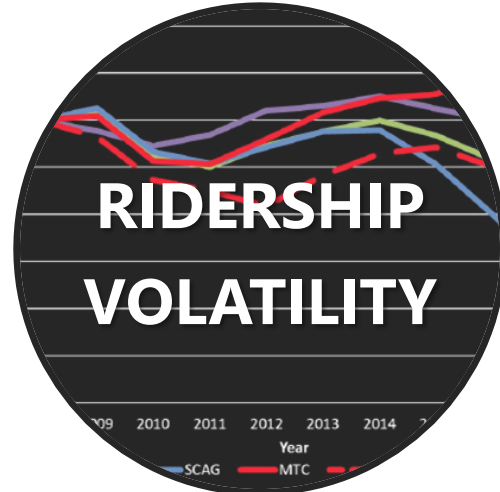


\$108 BILLION

total Plan investment thru 2040

RAIL INVESTMENTS:

26% of Plan (\$78b) to operate & maintain
10% of Plan (\$30b) to modernize & expand



2016

recent peak of ridership

ridership is becoming more
commute-focused,
propped up by BART's
Transbay service and
Caltrain's Baby Bullet



120%

of Transbay capacity in 2018

in the Transbay corridor,
demand on BART exceeds capacity
during peak periods



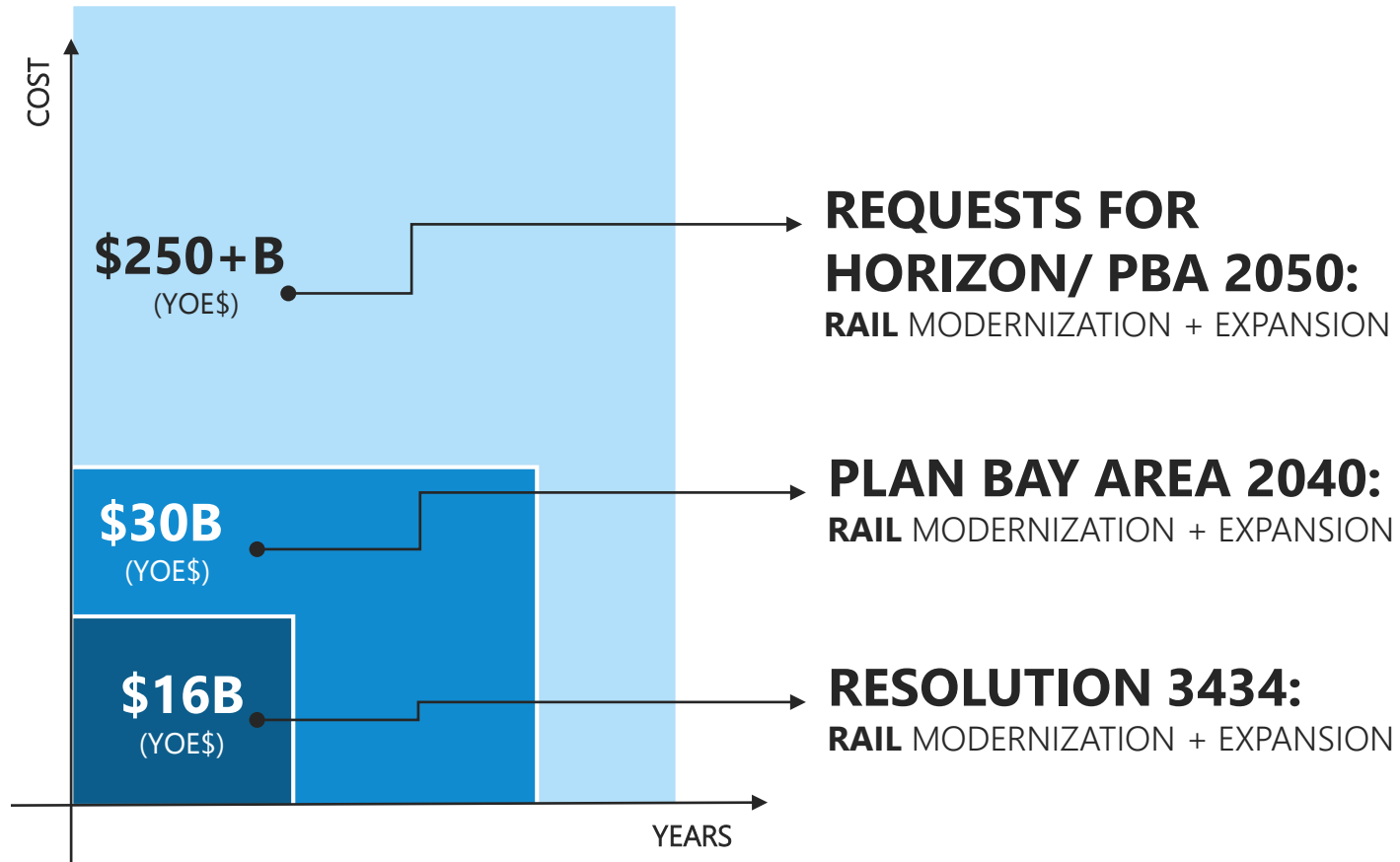
DECADES

to design, fund & build megaprojects

delays occur in all phases:
development, environmental,
design/engineering, right-of-way
acquisition, & construction

Growing Demands to Modernize + Expand

SUMMARY OF RAIL NETWORK IMPROVEMENT PROJECTS



Opportunities to Evolve **Regional Role**

Use
Performance to



PRIORITIZE

Promote
Supportive



LAND USE

Optimize



**ORGANIZATION
& GOVERNANCE**



Project Prioritization Framework

- Past **REGIONAL CONSENSUS AGREEMENTS** have championed high-priority rail expansions.
- A **PROJECT PERFORMANCE ASSESSMENT** is used to inform priorities and includes: 1) Benefit-cost ratio; 2) Guiding Principles assessment; and, 3) Equity score.
- The **INVESTMENT STRATEGY** for the regional plan establishes long-term priorities.

$$\text{BENEFITS} = \Sigma$$



ACCESSIBILITY



TRANSIT
CROWDING



ENVIRONMENT



HEALTH



SAFETY



FREEWAY
RELIABILITY



AUTO
OWNERSHIP

SUMMARY OF
SOCIETAL BENEFIT CATEGORIES

Project Prioritization — What's Next



PRIORITIZATION

- MTC is conducting a **PROJECT PERFORMANCE ASSESSMENT** for nearly 100 projects to inform the next long-range regional plan, **PLAN BAY AREA 2050**. Results of the assessment are anticipated to be shared beginning in **NOVEMBER 2019**.
- In **WINTER 2019/2020**, MTC will develop the draft Plan Bay Area 2050 Blueprint—resulting in a 30-year fiscally-constrained transportation investment strategy of projects and programs.
- In **SPRING 2020**, PBA 2050 will set a framework for a successor to Resolution 3434.



Supportive Land Use

GROWTH FRAMEWORK (PLAN BAY AREA):

- Consists of self-nominated Priority Development Areas (PDAs) & Priority Conservation Areas (PCAs)
- PDAs** = Frequent Transit & Planned for Housing
- PDAs account for <5% of the region's land area but take on more than 80%+ of the region's projected long-term growth

TOD POLICY (RESOLUTION # 3434):

- Conditions regional funding for transit expansion projects on having enough people living near the proposed new stations to support ridership.
- Sets minimums for the # of existing and/or permitted housing units within ½ mile of each station along the expansion corridor based on the project type.
- This policy currently only applies to BART, Light Rail, Bus Rapid Transit, Commuter Rail, and Ferry expansion projects.

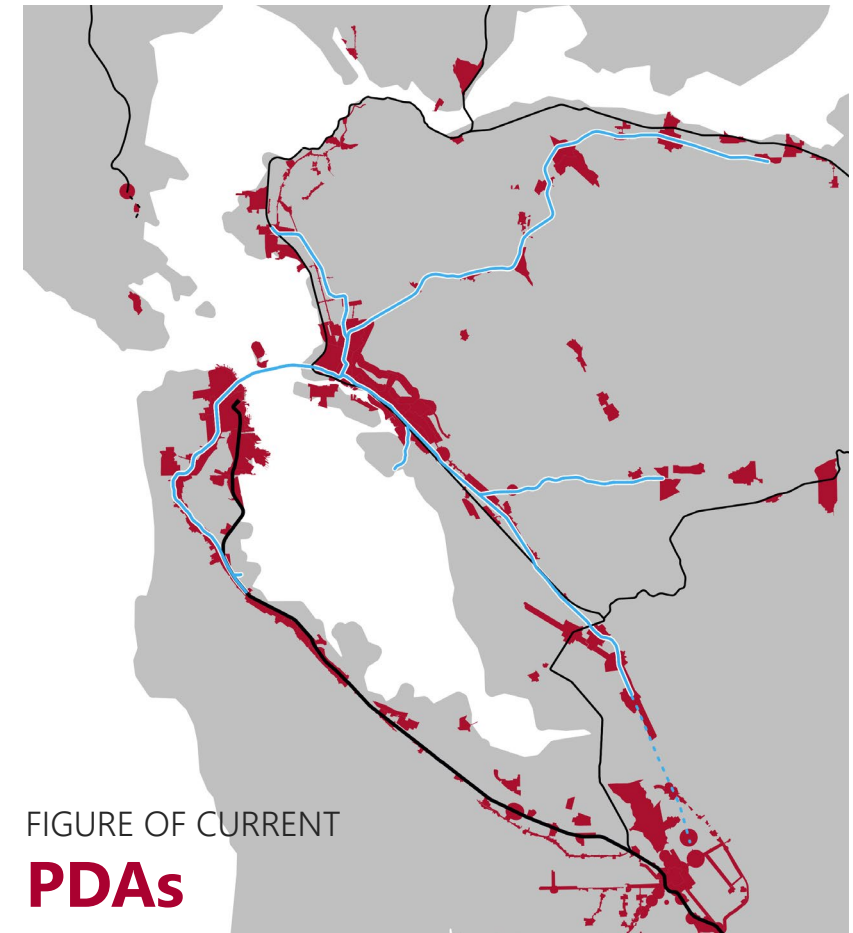


FIGURE OF CURRENT
PDAs

Supportive Land Use — What's Next



LAND USE

- In **OCTOBER 2019**, staff will share findings from Horizon's Futures Planning Round 2—which is testing strategies for consideration into Plan Bay Area 2050, including intensifying development near transit and in high-resource areas.
- In **NOVEMBER 2019**, staff will begin sharing the letters of intent for the regional growth framework of PDAs, PCAs and PPAs.
- In **WINTER 2019/2020**, MTC will develop the draft Plan Bay Area 2050 Blueprint to accommodate the region's forecasted 30-year growth.
- In **2020**, reimagine and revamp TOD policy in light of recent housing legislation, growth framework, and insights of RHNA process.



Optimize Organization & Governance

ORGANIZATION:

- More than **two dozen** agencies provide transit service in the Bay Area.
- **Five** rail services are operating within the region and **one** is under planning*,
 - COMMUTER RAIL: BART + Caltrain + SMART + Dumbarton Rail*
 - LIGHT RAIL: Muni + VTA
- Another **Five** rail services are operating within the mega-region and **two** are under planning*,
 - INTERCITY RAIL: ACE + Capitol Corridor + San Joaquins + High Speed Rail* + Valley Link*
 - INTERSTATE RAIL: California Zephyr + Coast Starlight

COORDINATION:

- Challenges integrating service, schedules, and fares.
- Challenges delivering projects in major corridors.

- Service Planning
- Fares & Information Systems
- Stations
- Major Capital Projects
- Infrastructure Maintenance
- Train Operations
- Access & Egress
- Commercial Activities
- General Admin. Services

SUMMARY OF CORE RAILWAY FUNCTIONS

Organization & Governance — What's Next



ORGANIZATION & GOVERNANCE

- In **2019/2020**, Project development and Organization/Governance activities are underway for the following projects/corridors
 - CALTRAIN CORRIDOR
 - DIRIDON STATION
 - DOWNTOWN EXTENSION
 - TRANSBAY CROSSING
 - VALLEY LINK
- In **JANUARY 2020**, staff will convene a Commission workshop to discuss partnership/organizational challenges related to efficient and coordinated project delivery of the next generation regional rail investments.

Summary of Upcoming Activities



PRIORITIZATION

- **NOVEMBER 2019:** staff will release and discuss the Project Performance Assessment results for nearly 100 projects.
- **WINTER 2019/2020:** MTC will develop the Blueprint for Plan Bay Area 2050, including a Transportation Element with a fiscally-constrained list of transportation projects.



LAND USE

- **NOVEMBER 2019:** staff will begin share information on the letters of intent submitted for new PDAs, PCAs and Priority Production Areas (PPAs).
- **WINTER 2020:** ABAG/MTC will develop the Blueprint for Plan Bay Area 2050, including the Housing and Economy Elements to accommodate the region's forecasted 30-year growth.
- **2020:** review and revamp TOD Policy.










ORGANIZATION & GOVERNANCE

- **JANUARY 2020:** staff will convene a Commission workshop to explore more efficient and coordinated project delivery.

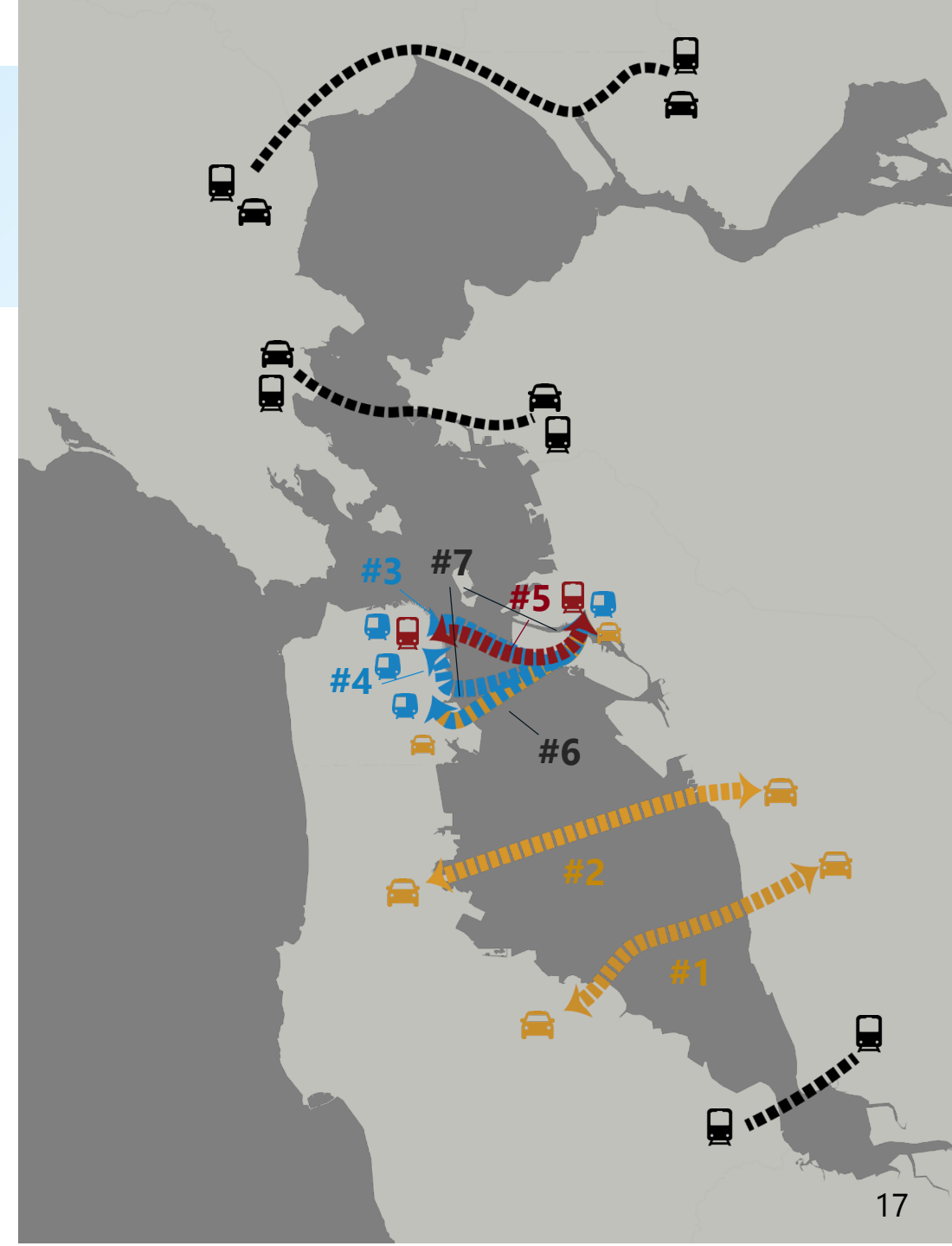
CASE STUDY → Perspective Paper #5: CROSSINGS

- An analysis of conceptual Transbay Crossing—"CROSSINGS"—is an initial effort of assessing transformative projects through the lens of uncertainty to inform Plan Bay Area 2050.
- To begin the Crossings assessment, MTC engaged partner agencies to develop multi-modal Crossing concepts that:
 - Built upon previous efforts, including the CORE CAPACITY TRANSIT STUDY (2017); and,
 - Considered Transformative Project ideas submitted via Horizon's open request.

Crossings Concepts Map

- 2x  auto only concepts
- 2x  BART only concepts
- 1x  conventional rail only concept
- 1x  +  combined auto + BART concept
- 1x  +  combined BART + rail concept

Other crossings (Dumbarton Rail Corridor, Richmond-San Rafael Bridge, SR-37) as well as ferry and Transbay bus service improvements will be assessed **as part of Plan Bay Area 2050 using the same methodology.**



Crossings Key Questions

Q1: Do Crossings accommodate Transbay demand?

Q2: Are Crossings resilient to uncertain future conditions?






Q3: Do Crossings align with the Horizon/Plan Bay Area 2050 Guiding Principles?

Q4: Do Crossings improve accessibility for low-income populations?

Q5: Do Crossing benefits outweigh their costs?

Crossings Guiding Principles Assessment

Alignment with the five Guiding Principles using specific project-focused criteria

MODE	CROSSING	AFFORDABLE	CONNECTED	DIVERSE	HEALTHY	VIBRANT
	Concept #1	-	-	-	X	
	Concept #2	-	-	-	X	X
	Concept #3	-	-	-	-	-
	Concept #4	-	-	-	-	-
	Concept #5	-	-	-	-	-
	Concept #6	-	-	X	-	-
	Concept #7	-	-	-	-	-

X Does Not Support Principle






FINDINGS:

1. Transit-only crossing concepts align with all of the Horizon/Plan Bay Area 2050 Guiding Principles.

2. Auto crossing concepts do not align with all of the Guiding Principles since they increase overall regional emissions and/or create barriers through existing communities.

Crossings Equity Scores

Measuring distributive impacts of accessibility benefits across income groups

MODE	CROSSING	RISING TIDES, FALLING FORTUNES	CLEAN AND GREEN	BACK TO THE FUTURE
	Concept #1	Impedes	Impedes	Even
	Concept #2	Even	Impedes	Even
	Concept #3	Even	Even	Even
	Concept #4	Even	Even	Even
	Concept #5	Even	Even	Even
	Concept #6	Even	Even	Even
	Concept #7	Even	Even	Even






Equity Score: **Impedes** equity: <40% | **Even** distribution: 40-60% | **Advances** equity: >60%

FINDINGS:

1. While no concept advances equity, most concepts provide benefits evenly to all population groups.
2. Companion policies would need to be considered to advance equity.

Crossings Benefit-Cost Ratios

Compares societal benefits against anticipated project costs

MODE	CROSSING	RISING TIDES, FALLING FORTUNES	CLEAN AND GREEN	BACK TO THE FUTURE
	Concept #1	● ○ ○ ○	● ○ ○ ○	● ○ ○ ○
	Concept #2	● ○ ○ ○	● ○ ○ ○	● ● ● ○
	Concept #3	● ● ○ ○	● ● ● ○	● ● ● ○
	Concept #4	● ● ○ ○	● ● ● ○	● ● ● ○
	Concept #5	● ● ○ ○	● ● ● ○	● ● ● ●
	Concept #6	● ● ○ ○	● ● ● ○	● ● ● ○
	Concept #7	● ● ○ ○	● ● ● ○	● ● ● ○

Notes:

- Benefit-Cost ratios over the time period: 2025-2080
- Discount rate: 3%, Time to Implement: 10 years
- Costs include a residual value of investment at 2080

Color Range: < 0.5 | 0.5 – 0.9 | 1.0 – 1.9 | > 1.9

FINDINGS:

1. Crossings benefits do not substantiate costs in a low-growth future.
2. Auto only crossing concepts perform poorly relative to transit crossing concepts.
3. Concept 5 has a slightly higher B/C ratio than Concepts 3 & 4, tied to high housing and job growth development forecasted in the corridor.

Crossing Conclusions



PRIORITIZATION

A. TRANSIT CROSSING CONCEPTS SHOULD BE ADVANCED FOR FURTHER ANALYSIS.

Opportunities to improve B/C ratios should be studied, e.g. land use and economic impacts. Auto-only Crossing concepts should not be advanced.

B. NEITHER BART NOR CONVENTIONAL RAIL SIGNIFICANTLY OUTPERFORMED THE OTHER.

This decision will require more detailed analysis of modal tradeoffs.



LAND USE

C. ALL FUTURE CROSSINGS ANALYSES MUST ASSESS DEVELOPMENT AND RIDERSHIP POTENTIAL.

More thorough analysis of development feasibility in station areas is needed in future Bay Crossings analyses.



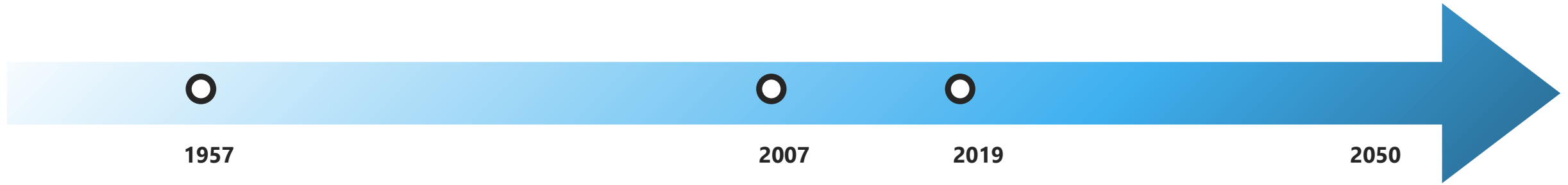
ORGANIZATION & GOVERNANCE

D. THE REGION NEEDS TO WORK TOWARDS A NEW CROSSING BY DELIVERING SIGNIFICANT FOUNDATIONAL INFRASTRUCTURE IN PHASES.

There are planned and proposed transit investments that are vital to a Bay Crossing's success.

“If the Bay Area is to be preserved as a fine place to live and work, a regional rapid transit system is essential... A satisfactory solution to the Bay Area’s traffic problem cannot be reached by building freeways alone. The solution can be reached only through a system of mass rapid transit developed on the premise of moving people-not automobiles.”

—1957 RAIL PLAN FOR THE BAY AREA



Correspondence – Agenda Item 6

From: Adina Levin

Sent: Sunday, October 6, 2019 4:56 PM

To: Martha Silver <MSilver@bayareametro.gov>; Randi Kinman

Subject: Regional Rail Agenda item - questions for staff

It is great to see the MTC consider ways to better plan and deliver major regional rail projects.

The presentation described several important needs to improve coordinated planning, delivery, and operations, as well as coordination with land use. The staff report described an important next step, which will be a Commission workshop in January 2020.

In addition to this, are there other follow-up processes with defined next steps (or that are expected to have defined next steps).

- What are any next steps with regard to coordinated operations (fares, schedules, wayfinding)? Is the next step the Regional Fare Integration study, or are there other next steps?
- Are the next steps with regard to land use already integrated as part of the current Plan Bay Area process, or are there different next steps?

Thank you very much,

- Adina

Adina Levin

Council Member

San Mateo County, Environment



Metropolitan Transportation Commission

375 Beale Street, Suite 800
San Francisco, CA 94105

Legislation Details (With Text)

File #: 19-1037 **Version:** 1 **Name:**
Type: Report **Status:** Informational
File created: 9/3/2019 **In control:** Policy Advisory Council
On agenda: 10/9/2019 **Final action:**
Title: Staff Liaison Report
(5 minutes)

Relevant MTC policy decisions and other activities.

Sponsors:

Indexes:

Code sections:

Attachments: [07_Staff_Liaison_Report_Oct_2019.pdf](#)

Date	Ver.	Action By	Action	Result
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Subject:

Staff Liaison Report
(5 minutes)

Relevant MTC policy decisions and other activities.

Presenter:

Marti Paschal, Staff Liaison

Recommended Action:

Information

Attachments:

**Metropolitan Transportation Commission
Policy Advisory Council**

October 9, 2019

Agenda Item 7

Staff Liaison Report – October 2019

Subject: Relevant MTC policy decisions and other activities.

Recommendation: Information

Attachments: Attachment A: Staff Liaison Report – October 2019
Attachment B: Plan Bay Area 2050 Pop-Up Schedule



METROPOLITAN
TRANSPORTATION
COMMISSION

**Agenda Item 7
Attachment A**
Bay Area Metro Center
375 Beale Street
San Francisco, CA 94105
TEL 415.778.6700
WEB www.mtc.ca.gov

Memorandum

TO: Policy Advisory Council
FR: Marti Paschal, Staff Liaison
RE: Staff Liaison Report – October 2019

DATE: October 9, 2019

W.I. 1114

Plan Bay Area 2050 Pop-Ups

As stated during the Plan Bay Area 2050 Public Engagement Overview presented in July, one element of the public engagement kickoff is the use of pop-up workshops at existing community events to meet people “where they are” and maximize public input. Attached is the current list of Plan Bay Area 2050 pop-up events scheduled throughout the Bay Area. Please share with your networks. As the list is updated, it will be emailed to you for your information and distribution.

U.S. EPA awards \$1.5 million to San Francisco Estuary Partnership

The U.S. Environmental Protection Agency (EPA) has awarded an almost \$1.5 million grant to the San Francisco Estuary Partnership for its Transforming Shorelines project. The Transforming Shorelines project works with wastewater treatment facilities to take a nature-based approach to improving water quality by limiting contaminants such as nitrogen from entering the Bay, improving habitat, mitigating the effects of sea-level rise, and replacing aging infrastructure.

Excessive nitrogen loads can lead to the overgrowth of algae and other aquatic plants, increasing the risk of harmful algal blooms and depriving the aquatic food web of much needed dissolved oxygen and sunlight. The project aims to create more than 150 acres of wildlife habitat in areas surrounding several wastewater treatment plants, creating critical linkages between wastewater treatment, resilience to sea-level rise and water around the San Francisco Bay.

The Oro Loma Sanitary District in the East Bay recently completed a project where an 8-million gallon wetland basin or “horizontal levee” was built to help absorb storm surges, while filtering treated wastewater. Over the next three to five years, a UC Berkeley research team will evaluate the effectiveness of Oro Loma’s innovative project.

The Estuary Partnership is an ABAG-MTC program working to increase the health and resiliency of the San Francisco Estuary. For more information about the San Francisco Estuary Partnership visit: sfestuary.org

Executive Director's Report

The following items are excerpts from the September 2019 Executive Director's Report to the Commission. To read the report in its entirety go to:

<http://www.mtc.ca.gov/whats-happening/news/executive-directors-report>.

Mega-Measure (FASTER Bay Area)

The coalition advancing the “mega” transportation revenue measure, coined “FASTER Bay Area”, has been recently making public presentations on their proposal, after several months of reconnaissance discussions throughout the Bay Area transportation community. The Chair has requested that the MTC Executive Committee hold a meeting on October 11, 2019 to review the proposal's current schedule, as we understand it, in preparation for a presentation by the FASTER team to the full Commission on October 23rd.

RHNA

On September 19, 2019, the ABAG Executive Committee approved the members of the Housing Methodology Committee (HMC) for the Regional Housing Need Allocation (RHNA) process. This first official action kicked off the 6th cycle of a state mandated process well known in the region that will assign to cities and counties the number of housing units by affordability level that each jurisdiction must accommodate in its adopted Housing Element. This is a significant and intensive planning effort, and we expect the State's target for the region to be much higher in this round than in the past. As well, the State has created for itself new legal remedies for enforcement, and provisions imposing new required factors and considerations, including fair housing.

As the COG for the San Francisco Bay Area, ABAG is statutorily responsible to distribute the Bay Area's allocation from Sacramento into a number for each city and county, a critical coordination role since – without it – each local government would be left to work directly and alone with Sacramento on its individual goals as is the case for cities in areas without a COG. It is a task that is difficult and often criticized, but crucial nonetheless.

We as staff will support ABAG by taking every available opportunity to get the RHNA message out including outreach meetings, our webpages, e-newsletters, social media and press releases.

Safer Affordable Fuel Efficient (SAFE) Vehicles Rule Update

California and the Trump Administration have been locked in a legal and political battle over the administration's Safer Affordable Fuel Efficient (SAFE) Vehicles Rule – the proposal to roll back Obama-era fuel efficiency standards – since it was first proposed in 2018. On September 19th, the Trump Administration revoked the waiver that allows California to set stricter rules to address the state's unique air quality challenges, making good on its stated intent to repeal California's waiver independently from – and in advance of – the larger rulemaking. We expect that the administration will continue to make every effort to roll back fuel economy standards and that California will lead the charge to oppose the rulemaking. On September 20, 2019, 23 states led by California plus the District of Columbia and cities of Los Angeles and New York filed a complaint for declaratory and injunctive relief. This initiates what we expect to be a suite of legal and/or legislative strategies to mitigate project-level impacts, as the Administration's actions put the rule into effect.

A rollback of fuel economy standards raises a number of concerns for MTC and our counterparts throughout the state. First and foremost, revoking these mandates would hinder ongoing statewide efforts to combat climate change and improve public health. Also, more technically, but very important to MTC and other transportation agencies, rolling back national fuel economy standards and/or revoking California waiver would invalidate California's air quality emissions model – the tool metropolitan planning organizations (MPOs) and Caltrans use to perform routine air quality analyses mandated by the federal government. Without a valid model, MTC's adoption of our 2021 regional transportation plan (RTP) update (*Plan Bay Area 2050*) and transportation improvement plan (TIP) update are at risk. More immediately, MTC would face strict limitations on our ability to amend or add certain projects, such as highway and transit expansion projects, to the Bay Area's current TIP and RTP – we would be unable to make changes that trigger air quality conformity review. Additionally, projects undergoing National Environmental Policy Act (NEPA) review requiring new or updated air quality conformity analysis would be unable to complete NEPA until a new emissions model is approved by the federal government, which the California Air Resources Board estimates could take up to three years.

Women's Issues in Transportation (WliT) Conference

On September 11-13, 2019, I had the privilege of co-chairing the 6th International Women's Issues in Transportation Conference, sponsored by the Transportation Research Board. Focusing on the triple themes of "Insight, Inclusion, and Impact," the conference was a great success, breaking all prior attendance records and drawing participants from 27 different countries, including those from the global south. MTC staff contributed to the conference aiding a team in the production of a video spotlighting research being done around the world to address the challenge of sexual harassment on public transportation systems, one of the many critical issues affecting women's mobility and its impact on their access and opportunities in society. We will be posting a conference highlight on the website, and will consider the proceedings in our planning work going forward.

Plan Bay Area 2050 Pop-Ups

	Event	Day of the Week	Date	Time	Address	Located in CoC?	Serving CoC?
1	Napa Farmer's Market	Saturday	5-Oct-19	9 - 11 a.m.	South Napa Century Center Parking Lot, 195 Gasser Dr., Napa	Yes	Yes
2	Alum Rock Village Farmer's Market	Sunday	6-Oct-19	9 - 11 a.m.	57 North White Road, San Jose	Yes	Yes
3	Richmond Library	Thursday	10-Oct-19	12 noon - 2 p.m.	325 Civic Center Plaza, Richmond	Yes	Yes
4	Contra Costa College	Thursday	10-Oct-19	10 a.m. - 1 p.m.	2600 Mission Bell Drive, San Pablo	Yes	Yes
5	Livermore Art Walk	Saturday	12-Oct-19	11 a.m. - 1 p.m.	1st Street in Downtown Livermore	No	No
6	Diwali - Festival of Lights	Saturday	12-Oct-19	12 - 2 p.m.	10185 N. Stelling Road, Cupertino	No	No
7	Pittsburg Farmer's Market	Saturday	12-Oct-19	9 - 11 a.m.	Old Town Plaza, Railroad Ave. and 6th St., Pittsburg	No	Yes
8	SFSU Quad	Wednesday	16-Oct-19	11:30 - 1:30 p.m.	1600 Holloway Drive (The Quad), San Francisco	No	Yes
9	East Palo Alto Farmer's Market	Wednesday	16-Oct-19	11 a.m. - 1 p.m.	Ravenswood Family Health Center, 1885 Bay Rd, East Palo Alto	Yes	Yes
10	Santa Rosa/Luther Burbank Farmers Mkt	Wednesday	16-Oct-19	10 a.m. - 12 noon	Luther Burbank Center, 50 Mark West Springs Road, Santa Rosa	Yes	Yes
11	Orinda Casual Carpool	Thursday	17-Oct-19	6:30 - 8:30 a.m.	Corner of Bryant Way and Moraga Way, Orinda	No	No
12	Heart of the City Farmer's Market	Friday	18-Oct-19	10 a.m. - 1 p.m.	Civic Center, San Francisco	Yes	Yes
13	Cherryland 5k Fun Run	Saturday	19-Oct-19	9 a.m. - 12 noon	16301 E 14th St, San Leandro	Yes	Yes
14	College of San Mateo Farmer's Market	Saturday	19-Oct-19	9 - 11 a.m.	55-57 W Perimeter Rd., Hillsborough	No	No
15	Sunday Streets - Excelsior	Sunday	20-Oct-19	11 - 1 p.m.	Mission Street, between Silver and Geneva, San Francisco	Yes	Yes
16	Smiles for All - Free Dental Care	Sunday	20-Oct-19	11 a.m. - 1 p.m.	2400 West Borough Blvd., Suite 205, So. San Francisco	Yes	Yes
17	Santa Clara Central Park Library	Tuesday	22-Oct-19	3:30 - 6 p.m.	2635 Homestead Rd., Santa Clara	No	Yes
18	Vacaville Chamber of Commerce Job Fair	Wednesday	23-Oct-19	4 p.m. - 7 p.m.	Ulati Community Center, 1000 Ulati Dr., Vacaville	Yes	Yes
19	Serramonte Center Farmers Market	Thursday	24-Oct-19	11 a.m. - 1 p.m.	133 Serramonte Center, Daly City	Yes	Yes
20	Lake Merritt	Saturday	26-Oct-19	11:30 a.m. - 1:30 p.m.	Lake Merritt, Oakland	Yes	Yes
21	Vacaville Farmers Market Downtown	Saturday	26-Oct-19	10 a.m. - 12 noon	Creekwalk Plaza, Andrews Park, Vacaville	No	No
22	Vallejo Farmers Market	Saturday	26-Oct-19	10 a.m. - 12 noon	400 Georgia & Marin St., Vallejo	Yes	Yes
23	San Rafael Farmer's Market	Sunday	27-Oct-19	10 a.m. - 12 noon	3501 Civic Center Drive, San Rafael	No	No
24	The Transportation Museum	Sunday	27-Oct-19	10 a.m. - 12 noon	Brittan Acres Elementary School, 2000 Belle Ave, San Carlos	No	No
25	Petaluma East Farmers Market	Tuesday	29-Oct-19	10:30 a.m. - 12:30 p.m.	320 N Mc Dowell Blvd., Petaluma	No	No
26	Soscol Gateway Transit Center	Thursday	31-Oct-19	6:30 - 8:30 a.m.	625 Burnell Street, Napa	Yes	Yes
27	Dia de los Muertos	Saturday	2-Nov-19	10:30 a.m. - 12:30 p.m.	International Blvd. between 40th Ave. to Fruitvale Ave., Oakland	Yes	Yes
28	Pickleweed Library	Thursday	7-Nov-19	11 a.m. - 1 p.m.	50 Canal Street, San Rafael	Yes	Yes
29	Muni Stop TBD	TBD	TBD	AM Peak	TBD in San Francisco	Yes	Yes
30	San Jose location TBD	TBD	TBD	TBD	TBD in San Jose	Yes	Yes

CBO Pop-ups

1	Acterra	Saturday	9-Nov-19	Mid-day	East Palo Alto	Yes	Yes
2	CRIL	TBD	TBD	TBD	Hayward	Yes	Yes
3	Green Hive	Saturday	2-Nov-19	Mid-day	Vallejo	Yes	Yes
4	Lighthouse for the Blind	Saturday	16-Nov-19	Mid-day	San Francisco	Yes	Yes
5	Rose Foundation	TBD	TBD	TBD	Oakland	Yes	Yes
6	Sacred Heart Community Service	Tuesday	22-Oct-19	Morning	San Jose	Yes	Yes
7	Sound of Hope	TBD	TBD	TBD	San Francisco	Yes	Yes
8	West Oak Environ. Indicator's Project	TBD	TBD	TBD	Oakland	Yes	Yes



Metropolitan Transportation Commission

375 Beale Street, Suite 800
San Francisco, CA 94105

Legislation Details (With Text)

File #:	19-1038	Version:	1	Name:	
Type:	Report	Status:		Informational	
File created:	9/3/2019	In control:		Policy Advisory Council	
On agenda:	10/9/2019	Final action:			
Title:	Council Member Reports (10 minutes)				

Members of the Council may report on locally relevant issues or events.

Sponsors:

Indexes:

Code sections:

Attachments:

Date	Ver.	Action By	Action	Result
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Subject:

Council Member Reports
(10 minutes)

Members of the Council may report on locally relevant issues or events.

Presenter:

Randi Kinman, Council Chair

Recommended Action:

Information

Attachments:



Metropolitan Transportation Commission

375 Beale Street, Suite 800
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Legislation Details (With Text)

File #:	19-1039	Version:	1	Name:	
Type:	Report	Status:		Informational	
File created:	9/3/2019	In control:		Policy Advisory Council	
On agenda:	10/9/2019	Final action:			
Title:	New Business (5 minutes)				

Members of the Council may bring up new business for discussion or addition to a future agenda.

Sponsors:

Indexes:

Code sections:

Attachments:

Date	Ver.	Action By	Action	Result
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Subject:

New Business
(5 minutes)

Members of the Council may bring up new business for discussion or addition to a future agenda.

Presenter:

Randi Kinman, Council Chair

Recommended Action:

Discussion

Attachments: