

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, December 11, 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. Welcome

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. <u>19-1362</u> Chair's Report

(5 minutes)

Action: Information

Presenter: Randi Kinman, Council Chair

4. <u>19-1334</u> Approval of the November 13, 2019 Meeting Minutes

(5 minutes)

<u>Action:</u> Approval

Presenter: Randi Kinman, Council Chair

Attachments: 04 Council Minutes Nov 2019.pdf

5. <u>19-1335</u> 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

<u>Presenter:</u> Jim Blacksten, Subcommittee Chair

Presentation on highlights from the first round of public engagement for Plan Bay Area 2050, which focused on prioritizing and refining key strategies identified in the Horizon planning process.

Action: Information

Presenter: Raquel Trinidad

Attachments: 06 PBA 2050-Fall 2019 Public Engagement Update.pdf

7. <u>19-1336</u> Plan Bay Area 2050: Draft Needs and Revenue Assessments for

Transportation, Affordable Housing and Resilience

(45 minutes)

Overview of the draft financial needs associated with transportation, affordable housing, and resilience for Plan Bay Area 2050, the

next-generation regional plan.

<u>Action:</u> Information

<u>Presenter:</u> William Bacon, Dave Vautin, and Rachael Hartofelis

Attachments: 07 PBA 2050-Draft Needs & Revenues.pdf

8. <u>19-1337</u> Staff Liaison Report

(5 minutes)

Relevant MTC policy decisions and other activities.

Action: Information

Presenter: Marti Paschal, Staff Liaison

Attachments: 08 Staff Liaison Report Dec 2019.pdf

9. <u>19-1338</u> 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. <u>19-1339</u> 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, January 8, 2020 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 #:

Type:

19-1362

Report

Version: 1

Name: Status:

Informational

File created:

11/18/2019

In control:

Final action:

Policy Advisory Council

On agenda:

12/11/2019

Title:

Chair's Report

(5 minutes)

Sponsors:

Indexes:

Code sections:

Attachments:

Date

Ver. **Action By** Action

Result

Subject:

Chair's Report (5 minutes)

Presenter:

Randi Kinman, Council Chair

Recommended Action:

Information

Attachments:

Metropolitan Transportation Commission

375 Beale Street, Suite 800 San Francisco, CA 94105

Legislation Details (With Text)

File #: 19-1334 Version: 1 Name:

Type:MinutesStatus:Committee ApprovalFile created:11/11/2019In control:Policy Advisory Council

On agenda: 12/11/2019 Final action:

Title: Approval of the November 13, 2019 Meeting Minutes

(5 minutes)

Sponsors:

Indexes:

Code sections:

Attachments: 04 Council Minutes Nov 2019.pdf

Date Ver. Action By Action Result

Subject:

Approval of the November 13, 2019 Meeting Minutes (5 minutes)

Presenter:

Randi Kinman, Council Chair

Recommended Action:

Approval

Attachments:



Metropolitan Transportation Commission

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

Meeting Minutes - Draft

Policy Advisory Council

Randi Kinman, Chair Cynthia L. Murray, Vice Chair

Wednesday, November 13, 2019

1:30 PM

Board Room - 1st Floor

1. 19-1191 Welcome

Action: Information

Presenter: Randi Kinman, Council Chair

2. Roll Call / Confirm Quorum

Present: 18 - Blacksten, Burnett, Castellanos, Coates, Cochran, Eldred, Hedges, Hernandez,

Kallins, Chair Kinman, Levin, Lopez, Madden, Mendoza, Momoh, Vice Chair

Murray, Saver and Schweng

Excused: 3 - Lee, Williams and Ozim

Absent: 1 - Florez

3. 19-1352 3. Chair's Report

4. <u>19-1192</u> Approval of October 9, 2019 Meeting Minutes

(5 minutes)

Action: Approval

Presenter: Randi Kinman, Council Chair

Attachments: 03 Council Minutes Oct 2019.pdf

Upon the motion by Hedges and second by Madden, the October 9, 2019 Meeting Minutes were unanimously approved. The motion carried by the following vote:

Aye: 13 - Blacksten, Coates, Hedges, Hernandez, Kallins, Chair Kinman, Levin, Lopez,

Madden, Mendoza, Momoh, Saver and Schweng

Page 1

Absent: 4 - Florez, Lee, Williams and Ozim

Abstain: 5 - Burnett, Castellanos, Cochran, Eldred and Vice Chair Murray

Folicy Advisory Council Weeting Williams - Digit Novelliber 13, 201	Policy Advisory	/ Council	Meeting Minutes - Draft	November 13, 2019
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5. <u>19-1193</u> 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

6. <u>19-1229</u> 2020 Draft Joint Advocacy Program

(15 minutes)

Draft of the joint MTC/ABAG 2020 Advocacy Program.

Action: Information

Presenter: Georgia Gann Dohrmann

Attachments: 05 2020 Draft Joint Advocacy Program.pdf

7. 19-1194 Horizon / Plan Bay Area 2050: Draft Project Performance Assessment

Results (30 minutes)

Presentation on the draft results from the Project Performance

Assessment, which evaluated approximately 100 projects against the three

Futures to determine their cost-effectiveness, equity impacts, and

alignment with Guiding Principles.

<u>Action:</u> Information
<u>Presenter:</u> Anup Tapase

Attachments: 06 Horizon PBA2050-Draft Project Performance Assessment

Results.pdf

8. 19-1196 Plan Bay Area 2050: Draft Needs Assessments for Transportation,

Housing and Resilience

(30 minutes)

Overview of the draft financial needs associated with transportation, affordable housing, and resilience for Plan Bay Area 2050, the

next-generation regional plan.

Action: Information

<u>Presenter:</u> William Bacon, Dave Vautin, and Rachael Hartofelis

Attachments: 07 PBA 2050-Draft Needs Assessments for Transportation, Housing

and Resilience.pdf

The presentation on Plan Bay Area 2050: Draft Needs Assessments for Transportation, Housing and Resilience was deferred to the December 11, 2019 Policy Advisory Council Meeting.

9. <u>19-1197</u> Staff Liaison Report

(5 minutes)

Relevant MTC policy decisions and other activities.

Action: Information

Presenter: Marti Paschal, Staff Liaison

Attachments: 08 Staff Liaison Report Nov 2019.pdf

10. <u>19-1198</u> Council Member Reports

(10 minutes)

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

Action: Information

Presenter: Randi Kinman, Council Chair

11. 19-1199 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

12. Public Comments / Other Business

13. Adjournment / Next Meeting

The next meeting of the Policy Advisory Council will be held Wednesday, December 11, 2019 at 1:30 p.m. at the Bay Area Metro Center, 375 Beale Street, San Francisco, CA.

Metropolitan Transportation Commission

375 Beale Street, Suite 800 San Francisco, CA 94105

Legislation Details (With Text)

File #: 19-1335 Version: 1 Name:

Type: Report Status: Informational

File created: 11/11/2019 In control: Policy Advisory Council

On agenda: 12/11/2019 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

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 #: 19-1195 Version: 1 Name:

Type: Report Status: Informational

File created: 10/11/2019 In control: Policy Advisory Council

On agenda: 12/11/2019 Final action:

Title: Plan Bay Area 2050: Public Engagement Round 1 Results

(30 minutes)

Presentation on highlights from the first round of public engagement for Plan Bay Area 2050, which

focused on prioritizing and refining key strategies identified in the Horizon planning process.

Sponsors:

Indexes:

Code sections:

Attachments: 06 PBA 2050-Fall 2019 Public Engagement Update.pdf

Date Ver. Action By Action Result

Subject:

Plan Bay Area 2050: Public Engagement Round 1 Results

(30 minutes)

Presentation on highlights from the first round of public engagement for Plan Bay Area 2050, which

focused on prioritizing and refining key strategies identified in the Horizon

planning process.

Presenter:

Raquel Trinidad

Recommended Action:

Information

Attachments:

Metropolitan Transportation Commission Policy Advisory Council

December 11, 2019 Agenda Item 6

Plan Bay Area 2050: Public Engagement Round 1 Results

Subject: Presentation on highlights from the first round of public engagement for Plan Bay

Area 2050, which focused on prioritizing and refining key strategies identified in

the Horizon planning process.

Background: Policy Advisory Council Agenda Item 6, Plan Bay Area 2050: Public

Engagement Round 1 Results is attached. This report will be presented to the Joint MTC Planning Committee with the ABAG Administrative Committee on

December 13, 2019.

Staff will be at your December 11 meeting to discuss this report. The Council's

input is requested.

Attachments: Agenda Item 5a from the December 13, 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 Committee

December 13, 2019 Agenda Item 5a

Plan Bay Area 2050: Public Engagement Round 1 Results

Subject:

Presentation on highlights from the first round of public engagement for Plan Bay Area 2050, which focused on prioritizing and refining key strategies identified in the Horizon planning process.

Background:

In July 2019, staff presented the Plan Bay Area 2050 public engagement program to this Committee, outlining the three phases of engagement over the two-year Plan cycle. In early October, staff kicked off the Plan by launching the first of two public engagement efforts via a series of "pop-up" workshops at existing community events. In early November, staff released the second engagement effort: an interactive online tool called *Mayor of Bayville*. Both have provided the public the opportunity to comment on the high performing strategies from the Horizon initiative. The input received will help staff prioritize and refine the strategies that will feed into the Plan Bay Area 2050 Draft Blueprint.

Issues:

The first phase of Plan Bay Area 2050 public engagement asks the public to identify which high-performing strategies from Horizon they like and dislike – and why – while also capturing any new ideas. This phase focused on engagement tactics that provided the best opportunity to obtain the highest volume of comments from those whose voices are not usually heard. To date, we have received over 12,000 comments and counting.

a. "Pop-up" Workshops: This format consists of meeting people "where they are" at public events/venues (e.g., farmers markets, community festivals, libraries, etc.). The pop-up locations were selected based on availability of existing community events and geographic diversity, prioritizing underrepresented communities. The pop-ups were listed on the Plan Bay Area website and promoted via social media to ensure everyone had an opportunity to comment.

Results: Over the course of six weeks, staff conducted 37 pop-ups throughout the Bay Area. Of those, 29 served Communities of Concern. We received over 3,000 comments at these events. Overall, participants liked the strategies more than they disliked them, with all strategies receiving more "likes" than "dislikes." The most popular strategies include:

- 1. **Strategy #2: Modernize Public Transit.** Participants are interested in improving connections between transit agencies and to other modes; would like transit to be more reliable and have more frequent service; would like to see service expanded; and would like rail to be electrified.
- 2. **Strategy #6: Build Affordable Housing.** Participants would like housing to be built for working class families so they can work near where they live; they are concerned about the Bay Area's homeless population; and they want housing near high quality schools.
- 3. **Strategy #3: Additional Biking and Walking.** Participants want a safer bike and pedestrian network; they want to expand biking infrastructure; and they highlight the connection between biking and walking to personal and environmental health.

The least popular strategies include:

- Strategy #13: Increase development fees in places that generate long auto trips. Overall, participants would like to see incentives, not disincentives, used to encourage shift in jobs; they felt that jobs should be distributed around the region; and they found this strategy confusing;
- Strategy #8: Simplify the development process to encourage housing. Most participants are interested in making it easier to build housing; some participants want to preserve local control; and some want to keep and maintain existing properties rather than build new ones.
- b. *Mayor of Bayville* **Digital Tool:** Aimed at reaching a younger audience as well as those who may not be interested in attending an in-person workshop, the *Mayor of Bayville* allows participants to weigh in on the strategies via on online tool using content similar to that at a pop-up workshop. The digital tool has also been promoted via social media in order to maximize participation.

Results: Since its launch in early November, 2,500 individuals have completed the *Mayor of Bayville* tool, yielding 9,000 user results or comments. Please note the digital tool will be live through December 16, 2019.

The most popular strategies include:

- 1. Build a network of safe paths for bicycles, e-bikes, scooters, and pedestrians
- 2. Allow apartments and denser housing around transit stops
- 3. Require 10% 20% of all new housing to be affordable

The least popular strategies include:

- 1. Streamline development in areas that are locally prioritized for growth
- 2. Lower speed limits to reduce roadway injuries and fatalities

All comments from the pop-up events are available now on the <u>Plan Bay Area 2050</u> website. All comments from the Mayor of Bayville digital tool will be posted after December 16, 2020.

Next Steps:

Staff will use the input provided by the public engagement efforts to help prioritize and refine the high-performing strategies from Horizon for integration into the Plan Bay Area 2050 Draft Blueprint. Staff will seek input from committees on the draft strategies to be integrated into the Plan Bay Area 2050 Draft Blueprint in January, integrating this feedback into the staff recommendation.

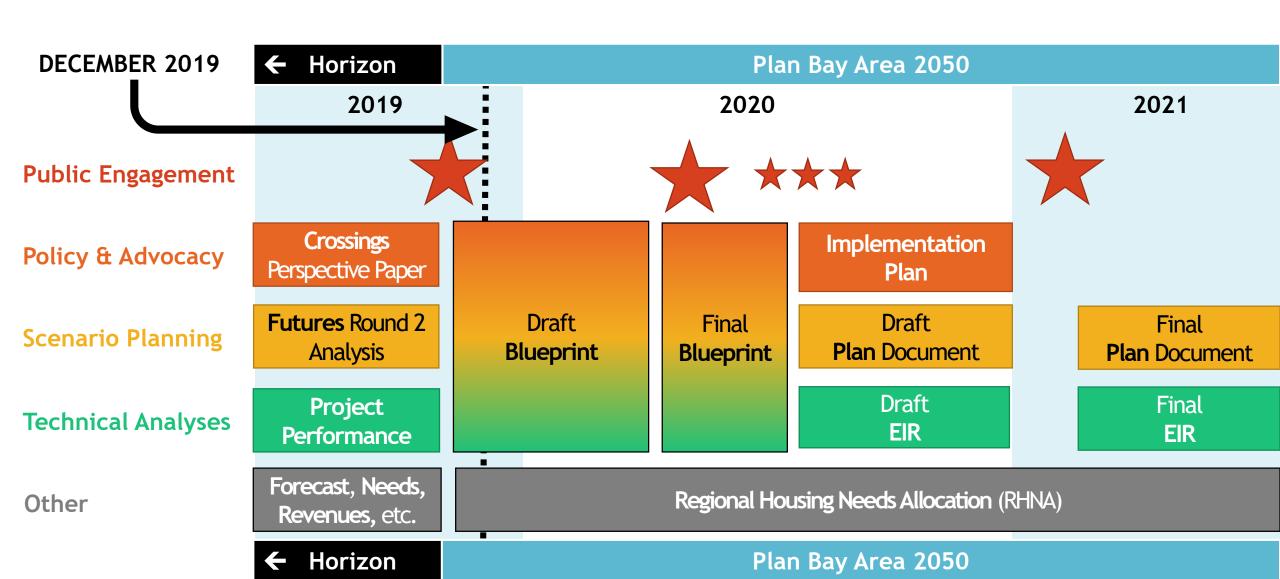
Attachments:

Attachment A: Presentation

Alix A. Bockelman



Plan Bay Area 2050 Schedule





Round 1: Plan Bay Area 2050 Public Engagement

Focus Area Prioritize and refine highperforming Horizon strategies for consideration in Blueprint

Tactics

- 1. Pop-up Workshops: 37 locations across the Bay Area
- 2. Mayor of Bayville: Digital tool used to engage participants online



Pop-up Workshops

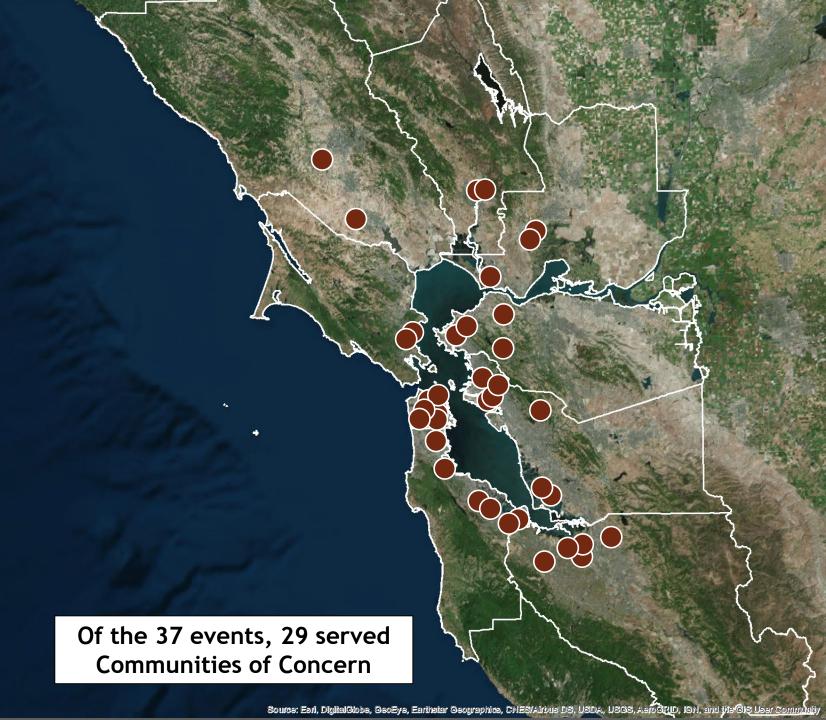
Held 37 pop-ups in six weeks:

- Held in all nine counties
- Focused on Communities of Concern
- 29 of the pop-ups served
 Communities of Concern
- Received over 3,000 comments



Pop-up Locations

Napa Farmers Market	October 5
Alum Rock Farmers Market (San Jose)	October 6
Richmond Library	October 10
Contra Costa College	October 10
Livermore Art Walk	October 12
Diwali Festival - Cupertino	October 12
Pittsburg Farmers Market	October 12
San Francisco State University	October 16
East Palo Alto Farmers Market	October 16
Luther Burbank Farmers Market (Santa Rosa)	October 16
Orinda Casual Carpool	October 17
Heart of the City Farmers Market (SF)	October 18
Cherryland Fun Run (San Lorenzo)	October 19
College of San Mateo Market	October 19
Sunday Streets - Excelsior (SF)	October 20
Dental Care Event in So. SF	October 20
CBO Pop-Up Event (San Jose)	October 22
Santa Clara Library	October 22
Vacaville Job Fair	October 23
Serramonte Farmers Market (Daly City)	October 24
CBO Pop-Up Event (Fremont)	October 25
Lake Merritt (Oakland)	October 26
Vacaville Farmers Market	October 26
Vallejo Farmers Market	October 26
Transportation Museum (San Carlos)	October 27
San Jose Farmers Market	November 1
Dia de los Muertos (Oakland)	November 2
CBO Pop-Up Event (SF Chinatown)	November 2
Fremont Farmers Market	November 3
Pickleweed Library (San Rafael)	November 7
CBO pop-up (East Palo Alto)	November 9
Health and Harvest Fair (SF)	November 9
Petaluma Farmers Market	November 12
CBO Pop-Up Event (San Francisco)	November 16
Napa Farmers Market	November 16
San Rafael Farmers Market	November 17
CBO Pop-Up Event (Oakland)	November 19



Feedback from Pop-ups: Most Popular Strategies



Modernize Public Transit

- Improve connections between transit agencies and between modes
- Make services more reliable and frequent
- Electrify regional rail systems



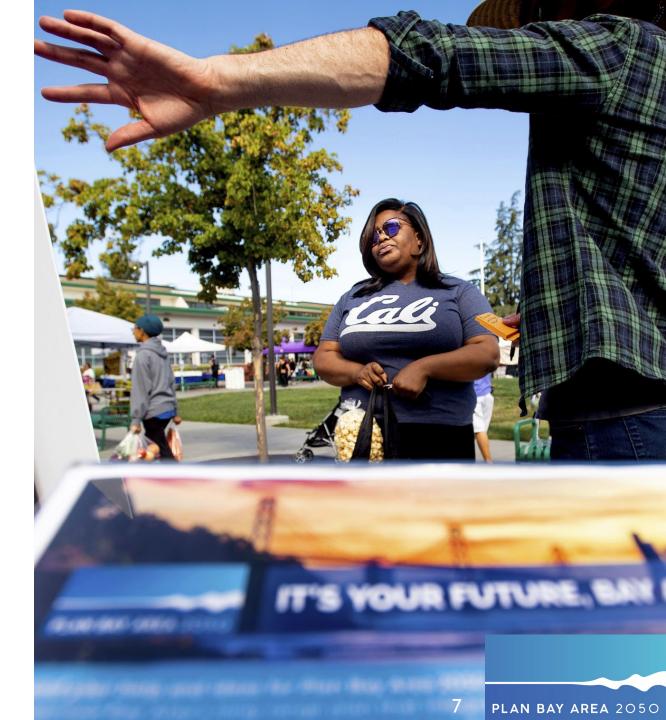
2. Build Affordable Housing

- Build working-class housing so people can live near where they work
- Address homelessness
- Ensure housing is located near high-quality schools (nexus with high-resource area strategy)



3. Encourage More Biking & Walking

- Improve safety of bike & pedestrian network
- Expand bicycle infrastructure
- Support connection between personal & environmental health



Feedback from Pop-ups: Least Popular Strategies

Relatively few people disliked the highperforming strategies from Horizon.

90% of comments were supportive of the high-performing strategies from Horizon.



- Use incentives rather than disincentives to encourage shift in jobs
- Jobs should be distributed around the region
- Strategy is confusing



- Make it easier to build housing
- Some want to maintain local control and maintain existing properties



Feedback from Pop-ups: Other Ideas

Transportation

- Improve first/last mile connectivity of transit
- Increase frequency of transit and hours of service
- Reduce cost of transit (especially for seniors and students)

Housing

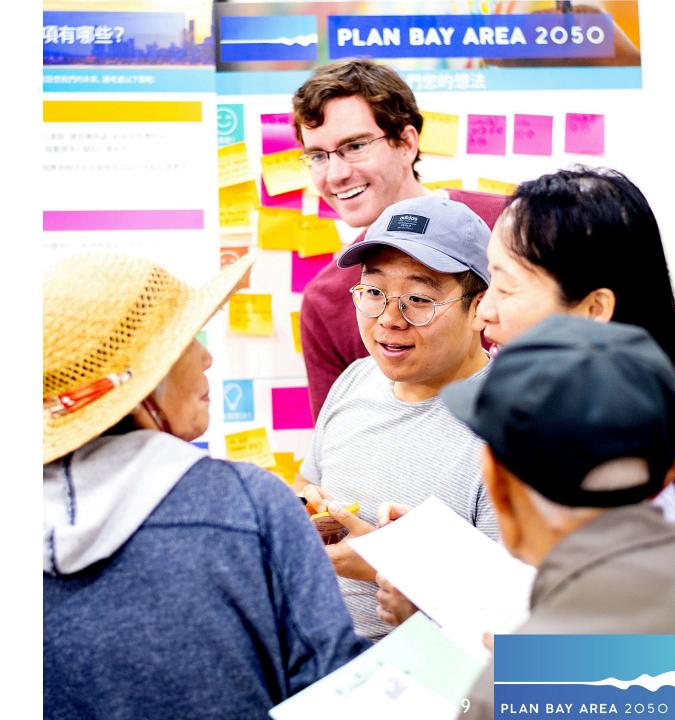
- Improve access to housing, especially for low-income individuals, seniors, teachers and emergency workers
- Identify support services for homeless individuals, but also direct funds toward affordable housing (e.g., cooperative/communal housing, smaller homes)

Environment

- Concern about air quality/climate change
- Invest in more outdoor space with more trees

Economy

- Work to ensure a greater diversity of job types in a variety of locations to support a better jobs/housing balance
- Encourage more suburban job growth
- Encourage more small businesses



Mayor of Bayville Digital Tool

Launched November 6, 2019:

- Uses gamification to get input from public
- Aimed at reaching a younger, less traditional audience
- Promoted via email, MTC/ABAG social media and targeted online advertising

Tool asks participants to solve realworld problems:

- Each Plan element includes two or three challenges
- Participant selects from a list of strategies to challenge
- Once completed, participant sees how their results compare to others
- Encourage participants to complete all four elements

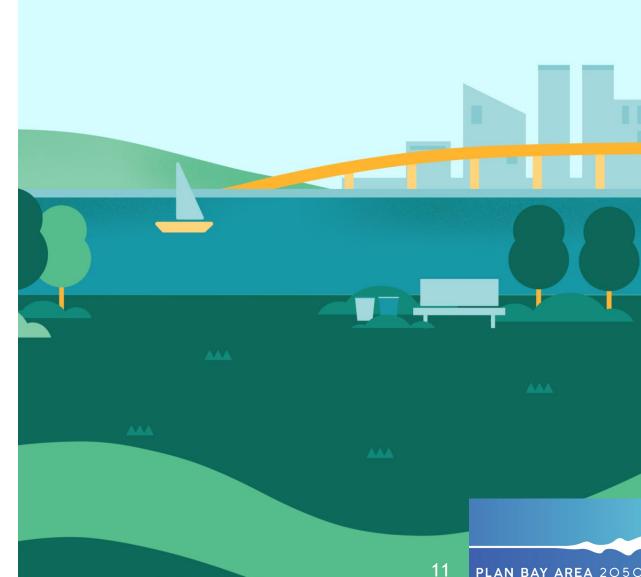






Mayor of Bayville: Feedback from Public

- We have received over 9,000 comments from over 2,500 participants through the tool todate; it will be live through December 16, 2019.
- The top strategies include:
 - Build a network of safe paths for bicycles, e-bikes, scooters, and pedestrians
 - Allow apartments and denser housing around transit stops
 - Require 10% 20% of all new housing to be affordable
- The least popular strategies include:
 - Streamline development in areas that are locally prioritized for growth
 - Lower speed limits to reduce roadway injuries and fatalities

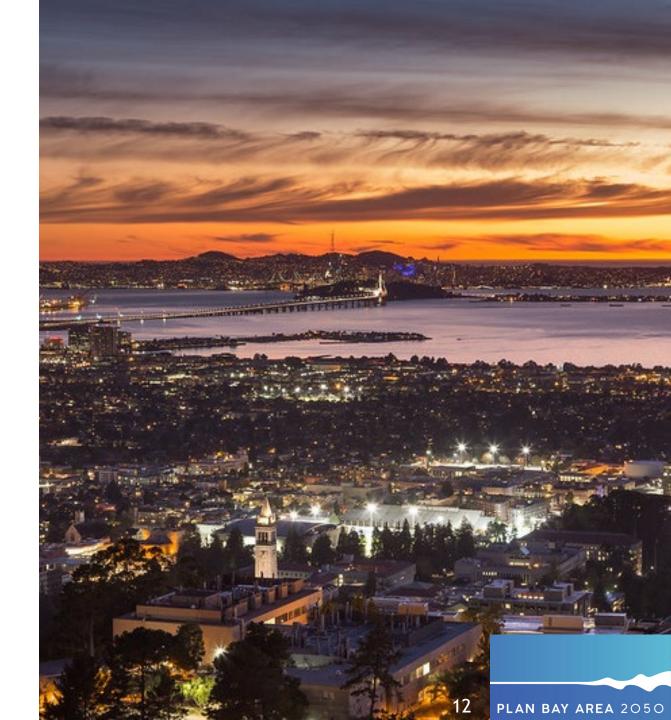


Next Steps

Input will be used to prioritize and refine the high-performing strategies for integration into the Plan Bay Area 2050 Draft Blueprint.

Staff will seek input from this Committee on the draft strategies to be integrated into the Plan Bay Area 2050 Draft Blueprint in January 2020.

Round 2 of Plan Bay Area 2050 public engagement will focus on the Draft Blueprint, slated for release in spring 2020.





Metropolitan Transportation Commission

375 Beale Street, Suite 800 San Francisco, CA 94105

Legislation Details (With Text)

File #: 19-1336 Version: 1 Name:

Type: Report Status: Informational

File created: 11/11/2019 In control: Policy Advisory Council

On agenda: 12/11/2019 Final action:

Title: Plan Bay Area 2050: Draft Needs and Revenue Assessments for Transportation, Affordable Housing

and Resilience (45 minutes)

Overview of the draft financial needs associated with transportation, affordable housing, and

resilience for Plan Bay Area 2050, the next-generation regional plan.

Sponsors:

Indexes:

Code sections:

Attachments: 07 PBA 2050-Draft Needs & Revenues.pdf

Date Ver. Action By Action Result

Subject:

Plan Bay Area 2050: Draft Needs and Revenue Assessments for Transportation, Affordable Housing and Resilience

(45 minutes)

Overview of the draft financial needs associated with transportation, affordable housing, and resilience for Plan Bay Area 2050, the next-generation regional plan.

Presenter:

William Bacon, Dave Vautin, and Rachael Hartofelis

Recommended Action:

Information

Attachments:

Metropolitan Transportation Commission Policy Advisory Council

December 11, 2019 Agenda Item 7

Plan Bay Area 2050: Draft Needs and Revenue Assessments for

Transportation, Affordable Housing and Resilience

Subject: Overview of the draft financial needs associated with transportation, affordable housing, and resilience for Plan Bay Area 2050, the next-generation regional plan.

Background: Policy Advisory Council Agenda Item 7, Plan Bay Area 2050: Draft Needs and

Revenue Assessments for Transportation, Affordable Housing and Resilience is attached. This report will be presented to the Joint MTC Planning Committee with

the ABAG Administrative Committee on December 13, 2019.

Staff will be at your December 11 meeting to discuss this report. The Council's

input is requested.

Attachments: Agenda Item 5b from the December 13, 2019 Joint MTC Planning Committee

with the ABAG Administrative Committee

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

December 13, 2019 Agenda Item 5b

Plan Bay Area 2050: Draft Needs and Revenue Assessments for Transportation, Affordable Housing and Resilience

Subject:

Overview of the draft financial needs associated with transportation, affordable housing, and resilience for Plan Bay Area 2050, the next-generation regional plan.

Background:

As MTC and ABAG work to develop a more comprehensive regional plan, it is important to consider the financial needs and revenues for a broader array of issue areas. Building upon the successful work from prior iterations of Plan Bay Area, Plan Bay Area 2050 will include needs and revenue estimates for the traditional suite of transportation operations and maintenance (O&M), as well as equally critical needs for affordable housing and resilience.

Needs and revenue assessments have proven valuable in prior cycles of Plan Bay Area as they have identified what it would take to fully fund fundamental issue areas like roadway maintenance, as well as the reasonably anticipated funding that could fill those gaps. Draft needs assessments, as well as associated revenue forecasts, between 2021 and 2050 have been developed in consultation with stakeholders over the summer and fall. Additional information on each assessment can be found in the attachments to this memo.

Findings of the draft needs assessments are also summarized below, with all costs shown in year-of-expenditure (YOE) dollars for state of good repair:

Category	Anticipated Revenue	Anticipated Needs
Public Transit Operations	\$472 billion <i>or</i>	\$218 billion
Public Transit State of Good Repair	\$544 billion (with	\$88 billion
Roads*, Bridges, and Highways	optional new revenues)	\$117 billion
Affordable Housing	\$107 billion	\$473 billion
Resilience: Sea Level Rise	\$2 billion	\$20 billion
Resilience: Earthquake	< \$1 billion	\$17 billion (for
Resilience. Larinquake	· \$1 Officer	residential units only)

Next Steps:

Staff will continue to seek feedback from stakeholders and technical experts on each of the needs and revenue assessments through early 2020, before incorporating them into the Draft Blueprint for Plan Bay Area 2050 this winter.

Attachments:

Attachment A: Draft Transportation Needs Assessments

Attachment B: Draft Affordable Housing Needs Assessment

Attachment C: Draft Resilience Needs Assessments Attachment D: Draft Transportation Revenue Forecast

■ Appendix 1 – Plan Bay Area 2050 Draft Revenue Forecast by Source

Attachment E: Draft Affordable Housing Revenue Forecast

Attachment F: Draft Resilience Revenue Forecast

Attachment G: Presentation

Alix A, Bockelman

^{*} includes on-system bicycle and pedestrian infrastructure but not dedicated off-system bicycle/pedestrian paths. J:\COMMITTE\Planning Committee\2019\12_PLNG_Dec 2019\5bi_PBA50_DraftNeeds_Revenues_CoverMemoPlusAttachments.docx

MTC Planning Committee with ABAG Administrative Committee December 13, 2019 Page 1



Attachment A Agenda Item 5b

Draft Transportation Needs Assessments

Plan Bay Area 2050, the next-generation plan for transportation, housing, the economy, and the environment, will span 30 years from fiscal years 2021 through 2050. Plan Bay Area 2050 must meet or exceed federal and state requirements, including requirements related to fiscal constraint. This requires the estimation of costs and available revenues for the operation and preservation (capital maintenance) of the existing transportation system. The information presented below is a preliminary draft estimate of the region's transportation operations and preservation needs over the lifespan of the Plan. This information is being provided for your review in advance of being presented to the MTC/ABAG boards in December.

For the Local Streets and Roads and Transit Capital categories, the system preservation needs were calculated for two different "condition levels":

1. Maintain Existing Conditions

- Local jurisdictions maintain the existing pavement condition index (PCI) and deferred maintenance costs are held relatively stable but continue to grow at the rate of inflation
- Transit operators maintain the existing percentage of capital assets over useful life (PAOUL). The total backlog dollar maintains the present-day replacement cost value of all assets beyond their useful life, adjusting for inflation.

2. State of Good Repair (SGR)

- Pavement conditions reach a "best management practices" level within the first ten years of
 the analysis period, and then maintain that level for the duration of the Plan period. A best
 management practices condition level equates roughly to a low-to-mid 80s pavement
 condition index (PCI). Deferred maintenance is eliminated.
- All transit capital assets are replaced and rehabilitated within the first ten years of the analysis period--to 0% percent of assets over useful life (PAOUL)-- and then maintained at that level for the duration of the Plan period. all assets are replaced when they reach the end of their useful lives and existing assets that are in marginal or poor condition (TERM Lite Score 2 or 1) are replaced in the first decade.

Only one condition level was calculated for local bridges, state highways, and regional bridge capital maintenance and operations due to limited data availability and/or modeling capability. For transit operations, the only condition level calculated was the cost to maintain existing service levels, since expanded service levels would be proposed as part of the Plan's project submittal process.

Table 1 below shows the total transportation operations and preservation needs calculated for Plan Bay Area 2050. Results by mode and methodologies used to estimate the needs are contained in subsequent pages of this attachment.

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Table 1. Plan Bay Area 2050 Draft Transportation Operation and System Preservation Needs (in millions of SYOE)

Mode	State of Good Repair	Maintain Conditions
Local Streets, Roads, and bicycle/pedestrian	\$68,395	\$61,859
infrastructure		
State Highways ²	\$24,427	\$24,427
Local Bridges ²	\$2,554	\$2,554
Regional Bridges ^{2,3}	\$19,415	\$19,415
Transit Capital	\$84,561	\$59,385
Transit Operating ⁴	\$217,819	\$217,819
Total	\$417,171	\$385,460

Notes:

- 1) Includes \$20.5 billion in operations costs/needs.
- 2) Needs associated with maintaining existing condition levels is not available for the state highway system or
- 3) The regional bridge category does not include the Golden Gate Bridge.
- 4) The transit operating needs assessment only considers what is needed to maintain existing service levels, therefore the transit operating needs are the same for both State of Good Repair and Maintain Conditions.

Local Streets and Roads

As shown in Table 2 below, to maintain existing conditions on the region's 43,500 lane miles of local streets, roads, and on-system bicycle/pedestrian, and other non-pavement infrastructure, approximately \$41 billion is needed over the Plan period. To reach a state of good repair, with a corresponding condition level for nonpavement assets (signs, signals, sidewalks, storm drains, etc.), an investment of \$48 billion is needed over the next 30 years. These costs do not include the estimated \$20.5 billion in operations cost and overhead that will be needed to perform routine maintenance, pothole filling, street sweeping, and other requirements that keep local streets and roads serviceable.

For comparison, on an annualized basis (as each iteration of Plan Bay Area has a different number of years included within the planning horizon), the draft Plan Bay Area 2050 preservation needs for local streets and roads are approximately six percent higher than those estimated for Plan Bay Area 2040 (the current Plan). The increase in maintenance need is largely due to higher costs for maintenance materials and contract labor resulting from a strong economy and market competition.

Table 2. System Preservation Draft Needs for Local Streets, Roads, and bicycle/pedestrian infrastructure — By County (in millions of \$YOE)

min astructure D	y County (in millions of \$1 OE)	
County	Maintain Conditions	State of Good Repair
Alameda	\$7,940	\$8,977
Contra Costa	\$6,101	\$6,878
Marin	\$1,374	\$1,676
Napa	\$871	\$1,290
San Francisco	\$5,189	\$5,759
San Mateo	\$3,824	\$4,220
Santa Clara	\$10,186	\$11,290
Solano	\$2,838	\$3,351
Sonoma	\$3,028	\$4,446
Total	\$41,351	\$47,886



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To calculate the pavement maintenance need, MTC's pavement management software, StreetSaver® was used to determine how much funding would be needed for each jurisdiction to reach the condition level for Maintain Conditions and State of Good Repair. Average maintenance costs, a key input into the StreetSaver® model, were estimated by county, using information submitted by local jurisdictions to the 2018 California Local Street and Road Needs Assessment survey.

Non–pavement needs include the capital maintenance of assets that are required for a functioning street and road system. Primary examples of these assets include storm drains, sidewalks, curb & gutter, streetlights, signs, and signals. To estimate the Non-pavement needs on the local street and road system, MTC used a prediction model developed by consultants that uses information provided by local jurisdictions on non-pavement asset inventory and useful life to estimate long term costs to maintain non-pavement assets. It was determined that replacement costs can be predicted by the inventory of two non-pavement assets—curb and gutter and streetlights—using a regression formula. The total regional non-pavement asset replacement cost is then divided by the average useful life for each of the major non-pavement asset groups to estimate an annual preservation cost. The regional totals are then distributed across all jurisdictions based on a formula comprised of population share and lane mileage. The prediction model was updated with asset inventory and replacement cost information provided by local jurisdictions in responses to the 2018 California Local Street and Road Needs Assessment survey.

State Highways

The needs assessment for the state highway system relies on information provided by the California Department of Transportation in its 2019 State Highway System Management Plan (SHSMP), and analysis of the District 4 (Bay Area) pipelined projects and remaining needs for all SHOPP expense categories. Future adjustments to the state highway needs assessment may be made to account for specific Bay Area operational and maintenance needs over and above the assumed Bay Area population share of these needs as incorporated in the SHOPP forecast, and additional input that may be provided on the estimate by Caltrans staff.

The SHSMP is produced every two years and integrates the maintenance, rehabilitation, and operation of the state highway system into a single management plan that incorporates state and federal asset management requirements. The SHSMP includes a 10-year needs assessment to achieve established performance targets for the following asset classes:

- Pavement
- Bridges and Tunnels
- Drainage
- Transportation Management Systems
- Supplementary assets including drainage pump plants, highway lighting, overhead signs, weigh in motion scales, and other facilities of various types

To estimate the 30-year state highway need for Plan Bay Area 2050, MTC staff added pipe-lined projects in the District 4 Project Book, with the SHSMP reported cost associated with meeting stated performance targets for each of the above listed asset classes within District 4 by FY 2028-29. For FYs 2030-2050, staff took the annualized need over the first 10-year period and reduced it by 75%, then escalated the annual need by 2.2% from FY 2030 through FY 2050. This shift to a lower needs level after year 10 assumes that the needs estimated in the first 10 years are to bring the state highway system to a state of good repair, after which ongoing maintenance costs would be significantly lower. This assumption and the level of reduction applied is consistent with the those made in the local street and road and transit capital maintenance needs assessments.

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Local Bridges

The nearly 2,000 locally-owned bridges in the San Francisco Bay Area are essential links that help connect the state's communities, provide mobility for travelers, support efficient movement of freight, and relieve traffic congestion. The 2018 California Local Streets and Roads Needs Assessment included the cost to maintain the locally owned bridges in the state over the next ten years, by county. The assessment used the Federal Highway Administration's National Bridge Investment Analysis System (NBIAS) system to develop the projections of capital maintenance need for the state's locally-owned bridges. Though NBIAS is populated with default costs, deterioration models and other parameters, these were calibrated to regional costs and conditions in order to provide as realistic a projection as possible of the cost to maintain locally-owned bridges.

Since the 2018 California Local Streets and Roads Needs Assessment only covered 10 years of maintenance needs, MTC staff extrapolated the needs to cover the 30-year Plan period.

Regional Bridges

The estimated operations, preservation, and replacement needs for the seven regional toll bridges was forecasted using information provided by the Bay Area Toll Authority (BATA). The BATA toll bridge maintenance, repair, and rehabilitation assessment incorporates cost information for major capital projects from the Caltrans 20-year maintenance plan and forecasted inspection and maintenance costs for lesser projects to estimate the capital costs per bridge through FY 2036. For FYs 2037 through 2050, staff assumed an annual average of the previous 15 years, adjusted for inflation.

Operations needs for the regional bridges includes those estimated by Caltrans in addition to BATA expenses for the FasTrak Customer Service Center, the ATCAS (toll-collection IT system) banking costs, and other indirect toll collection expenses. The operations costs budgeted for FY 2020, were adjusted for inflation and extrapolated to FY 2050.

Transit Operating

In spring 2019, MTC distributed a Transit Operating Needs Assessment survey to each of the Bay Area's 25 transit operators as well as the Transbay Joint Powers Authority. The Transit Operating Needs Assessment survey gathered information from transit operators on current and planned service levels; existing and projected operating costs; and existing and projected local operating revenues over the Plan Bay Area 2050 period.

The cost to operate and maintain existing service levels was projected by the transit operators. MTC requested a cost breakdown of expenses by mode (bus, paratransit, rail, etc.) and system-wide non-operating expenses including debt service by year-of-expenditure. Transit operators also provided planned service changes associated with committed capital projects and/or fully funded future increases in service hours over the Plan Bay Area 2050 period.

Inflation assumptions were checked for reasonableness across similar expense categories. The cost impact of projected changes in service levels during the plan period was accounted for only in instances where those changes are a result of the transit operators' policy directives. The operating cost projections included in Table 3 include existing service levels and cost projections for committed expansion projects. Over Plan Bay Area 2050 period, transit operators identified approximately \$218 billion in costs associated with operating the existing system and committed expansions to the system.

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Transit Capital

The information presented in Table 3 is a draft estimate of the cost to maintain the Bay Area's existing transit infrastructure in a state of good repair. The Transit Capital Needs are developed based on the operator submitted information housed in MTC's Regional Transit Capital Inventory (RTCI), covering existing transit assets. Operational (routine maintenance, cleaning, overhead, etc.) or expansion costs are not included in the estimate of capital maintenance needs and revenues.

To maintain existing transit capital conditions, approximately \$62.9 billion is needed, and to reach a state of good repair (0% PAOUL), an investment of approximately \$88.1 billion is needed over the next 30 years for the region.

To achieve a State of Good Repair, there is an increase of approximately \$40 billion in total need as compared to the \$47.6 billion from the 2016 Plan Bay Area SGR assessment included in Plan Bay Area 2040 (PBA 2040). Change between the analyses is not unexpected – agencies have had an additional three years to update and amend their data. Changes to cost, date built, and useful life have significant impacts on modeling. The increase is caused by multiple factors; the values below are rough estimates of the major causes of the increase:

- \$17 billion (approx.) due to six additional years in PBA 2050 vs PBA 2040.
- \$5 to 10 billion (approx.) new assets and new replacement cost information added to the inventory since 2016, including major new projects.
- \$2 to 6 billion (approx.) per TERM Lite calculations, the base inventory value has increased by 14% since 2016. All unit costs are escalated to the current year nominal value. \$1,000 in 2016 dollars would be escalated to \$1,144 for the 2020 model start year in TERM Lite. All subsequent modeling assumptions are then based on this elevated rate.
- \$3 billion (approx.) due to California legislation requiring phased replacement of diesel/hybrid buses to Zero Emission Vehicles.

Transit capital and operating needs projections by operator are shown in Table 3 on the following page.

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Table 3. Draft Transit Capital and Operating Needs Projections – By Operator (in millions of \$YOE)

(in millions of \$YOE)		Transit Carital	
Omanatan	Transit Capital	Transit Capital Needs-Maintain	Transit Operating
Operator	Needs – SGR	Current Conditions	Needs
AC Transit	\$6,951	\$5,361	\$22,043
ACE	\$247	\$163	\$2,214
BART	\$31,278	\$21,824	\$58,043
Caltrain	\$5,375	\$3,943	\$8,349
CCCTA County Connection	\$647	\$582	\$1,904
Clipper	\$823	\$773	TBD
Delta Breeze	\$31	\$20	\$53
Dixon	\$20	\$12	\$66
ECCTA Tri Delta Transit	\$387	\$343	\$1,174
FAST	\$278	\$216	\$1,179
Golden Gate Transit	\$3,762	\$2,052	\$3,606
LAVTA	\$378	\$239	\$1,068
Marin Transit	\$403	\$325	\$1,472
NVTA	\$225	\$183	\$975
Petaluma Transit	\$84	\$74	\$123
SamTrans	\$4,771	\$2,545	\$11,427
Santa Rosa CityBus	\$185	\$158	\$661
SCT	\$380	\$291	\$843
TJPA	\$200	\$200	\$2,096
SFMTA	\$22,022	\$16,825	\$67,139
SMART	\$726	\$601	\$2,169
SolTrans	\$357	\$205	\$795
UCT	\$107	\$95	\$347
Vacaville City Coach	\$112	\$59	\$205
VTA	\$6,834	\$4,812	\$26,669
WestCAT	\$447	\$216	\$740
WETA	\$1,058	\$855	\$2,460
Grand Total	\$88,092	\$62,973	\$217,819

Note: Sum of all agency values may not equal grand total due to rounding issues.

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Draft Affordable Housing Needs Assessment

This attachment provides more details on the methodology and analysis results for estimating existing needs (through 2020) and future needs (2021 to 2050) for affordable housing. This assessment is designed to help quantify the needs for deed-restricted affordable housing in the context of Plan Bay Area 2050 with a similar aim to the parallel work for transportation – to understand the full needs to reach ideal conditions and then determine associated funding gaps.

There are two components to determining housing needs for low-income households – households that earn approximately less than \$45,000 per year (in today's dollars). For both components, staff has assumed, for calculation purposes, that all low-income households may need to live in deed-restricted subsidized units, especially with the rising cost of living in the San Francisco Bay Area. While many low-income households currently live in what's referred to as "naturally affordable" units, these units are provided by the private market and may become unaffordable over time. Some units will also be protected through acquisition and rehabilitation (preservation). But since the level of subsidy needed for preservation is often comparable with production, this estimate does not differentiate between the two.

The two components of estimating housing needs for low-income households are:

- Forecasted household growth, or how many new low-income households will live in the region in future years; and
- Existing shortfall, or how many existing low-income households do not live in deed-restricted subsidized units.

To do this, staff used the household growth projections by income group for the Clean and Green Future from Horizon. These household forecast numbers will be updated with the Draft and Final Growth Forecasts for Plan Bay Area 2050 when available. Clean and Green was merely selected as a placeholder given that it was the moderate-growth Future explored in the predecessor Horizon process (for more information on Horizon, go to: https://www.planbayarea.org/2050-plan/horizon).

Table 2 below shows the forecasted household growth by four income categories, for the Clean and Green Future in Horizon. Key takeaways from this table include:

- There are anticipated to be roughly 766,000 low-income households in year 2020.
- These will grow by around 70,000 between 2020 and 2050, or on an annualized basis, a little more than 2,300 per year.
- Per the methodology described above, the first component of housing needs is therefore 2,300 new deed-restricted subsidized units per year between 2020 and 2050.

Table 2: Household Growth Forecast by Income Category for *Clean and Green* (Horizon)

Table 2: Household Growth Porceast by Income Category for Cican and Green (Horizon)							
Income Ranges	2020	2025	2030	2035	2040	2045	2050
Low (Q1)	766,400	800,400	836,000	895,600	857,900	844,600	836,600
Moderate- Low (Q2)	672,500	683,600	693,600	715,200	686,900	675,900	667,200
Moderate- High (Q3)	654,200	701,700	746,300	756,500	868,000	960,400	1,042,800
High (Q4)	843,200	922,400	996,900	1,020,600	1,183,100	1,345,000	1,488,800
Total	2,936,300	3,108,200	3,272,800	3,387,900	3,595,900	3,826,000	4,035,400



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While there is no good data available on the total number of deed-restricted subsidized units in the Bay Area, estimates from NPH/CHPC put the number around 100,000 units. Additional takeaways from Table 2 include:

- Of the 766,00 low-income households, 100,000 currently live in affordable units.
- The remaining 666,000 households, per the methodology described above, constitute the existing shortfall.
- On an annualized basis, this would amount to around 22,200 new units per year between 2020 and 2050.

For this analysis, the housing need for lower-income households is therefore determined to be approximately 24,500 units per year. With an inflation rate of 2.2 percent and an anticipated per-unit subsidy of \$450,000 (in today's dollars) as developed in CASA, the estimated affordable housing needs would total \$473 billion through the year 2050 (in year of expenditure dollars).

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Draft Resilience Needs Assessments

As part of creating a more comprehensive regional plan, Plan Bay Area 2050 is expanding the scope of the Needs & Revenue Assessment to include challenges related to seismic safety and sea level rise adaptation. Over the next three decades, the region will have to plan and adapt the expansive shoreline to rising sea levels with uncertain flooding timeframes, in addition to continuing to address the seismic safety challenge that has always been present in our earthquake-prone region. The Resilience Needs & Revenue Assessment will provide an underlying context/framework to consider strategies.

The Bay Area is not starting from scratch in understanding the level of need for resilience challenges, nor in raising revenues to address the challenges. In the three decades since the Loma Prieta earthquake, the Bay Area has leveraged an estimated \$10.7 billion¹ in local, state, and federal dollars to upgrade the region's public and private infrastructure. Over that period, 11² local measures directly addressed seismic risk, and another 103³ measures built seismic readiness into capital improvement of public buildings such as schools and libraries. The region has also invested in the mitigation of its transportation infrastructure, utilizing \$650 million of 1996's Prop 192 going toward the seismic mitigation of the area's state-owned toll bridges. Additionally, the region has made strides toward addressing Sea Level Rise. The ground-breaking Measure AA, passed in 2016, provides \$25 million a year for the explicit protection of the Bay, integrating a slew of restoration and green mitigation initiatives. Additionally, cities have taken on their own local projects, such as Foster City's \$90 million bond initiative in 2018 to protect its entire city from becoming a FEMA designated Special Flood Hazard Area. In the same year, San Francisco passed a \$425 million bond to repair the Embarcadero seawall that protects its downtown.

This draft Resilience Needs & Revenue Assessment is the first time ABAG and MTC have attempted to quantify the financial gap associated with these two important topic areas. Of course, resilience is more wide-ranging than just sea level rise and earthquakes. However, these two topics were seen as the highest priorities, due to the widespread vulnerability of the region to both of these risks, and their resulting community and economic impacts. The scope of this assessment focused further on the most significant needs, specifically residential seismic safety, and near-term sea level rise.

As previously mentioned, the region has been mitigating the public realm – including both infrastructure, public buildings, and transportation - for years regarding earthquakes. However, residential mitigation is both critical, and critically underfunded. None of the \$10.7 billion has gone toward housing in the last few decades, and only two public programs: CEA's Brace and Bolt, and FEMA's grant programs, currently address private structures. Additionally, ABAG has identified the need for housing protection as a top priority in maintaining the communities and economy within the region.

Regarding Sea Level Rise, this assessment begins with only near-term coastal Sea Level Rise adaptation, in order to focus on the most immediate vulnerabilities and most significant impacts. Other forms of resilience, including wildfire, riverine flooding, extreme heat, and other hazards and climate impacts are important to consider, but have been left outside the scope of Plan Bay Area 2050. In the meantime, it is worth noting that there are additional resources to support local planning related to these other hazards through the MTC/ABAG resilience program, NGOs and the State of California. Additionally, other

¹ Including all direct local bonds and taxes, and all seismic FEMA grants. Assumptions include 20% of state seismic bonds, proportional to the Bay's share of population, and 10% of indirect local revenues – a broad assumption made on the case study of several local initiatives.

² Local direct bonds and taxes focused on seismic mitigation.

³ Indirect local bonds and indirect special taxes.



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hazards and refinements to this methodology may be recommended as key Implementation Actions of this Plan. Future iterations of Plan Bay Area may also utilize this assessment framework to integrate the additional hazards.

Draft Need: Seismic Needs for Residential Buildings

A major earthquake on one of the Bay Area's many faults can damage tens of thousands of homes in a matter of seconds, adding an acute housing crisis to the region's chronic one. Additionally, with a lack of historical funding for residential buildings, public infrastructure is well protected, but there is critical unmet need for housing mitigation. This significant housing vulnerability therefore makes up the Resilience Need for Earthquakes, in order to compensate for the crucial regional financial gap. No regional data set is available that describes the structural characteristics of every building, but staff have used available building information in the region (primarily building use, year built, number of units, and number of stories) to develop high level estimates for the number of common seismically vulnerable building types. These include single-family cripple walls where an unbraced and unbolted crawl space can shift a house off its foundation, or multi-family soft stories where a weakened first floor, often with large garage openings, can pancake on the first floor. Additional assumptions, as well as a breakdown of seismic needs, can be found in Table 1.

Some cities in the region are actively requiring owners of soft-story multifamily buildings to retrofit, and the State of California is gradually expanding a grant program designed to incentivize single family homeowners with cripple walls to retrofit. Using assumptions about typical retrofit costs, combined with regional building information, the estimated cost to address these two known vulnerabilities is approximately \$13.3 billion. An additional \$3.3 billion was added to account for seismic retrofit of other vulnerable building types, primarily single family and multi-family buildings with fewer than 5 units built over a garage. These units suffer the same deficiency as the larger multi-family soft story challenge, and their inclusion leads to a total estimated need of approximately \$16.6 billion.

Table 1: Earthquake Need for Residential Buildings (in millions of \$YOE)

Vulnerability	Number of Units to Retrofit ⁴	Unit Cost ⁵	Inflation	Subtotal ⁶
Cripple Wall (Single Family)	185,000	\$12,000	2.2%	\$3,003
ROG/HOG (Single Family) ⁷	45,000	\$25,000	2.2%	\$1,530
Cripple Wall (Duplex)	31,000	\$12,000	2.2%	\$1,526
ROG/HOG (Duplex)	16,000	\$30,000	2.2%	\$1,984
Soft Story (5+ units)	24,000	\$20,000	2.2%	\$8,527
Total	301,000			\$16,570

⁴ Regional estimates by UrbanSim scan: it is assumed that this project may take approximately 15 years, leading to projected costs through 2035.

⁵ Costs derived from SME guidance, shown in 2019 dollars.

⁶ Rounded to the nearest million.

⁷ Room over Garage (ROH); House over Garage (HOG).



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Draft Need: Sea Level Rise through 2050

Sea level rise is a different challenge compared with earthquakes – with each year, it becomes progressively worse, with impacts spiking at times when coupled with king tides, and bad storms. For example, a five-year storm (an event that happens roughly every five years), coupled with just one-foot of sea level rise, would flood communities and infrastructure at three feet above today's sea level. To assess need, areas with flooding impacts at three feet were identified using the Bay Conservation and Development Commission's ART Bay Area mapper. Placeholder strategies of 16 different archetypes (including marsh restoration, traditional levees, and roadway elevations, among others) were then created to address communities vulnerable to that level of inundation, and subsequently edited using the input of various stakeholders. Costs were adjusted to account for the regional variance in construction costs. Additional assumptions can be found in Table 2.

The estimated cost to address sea level rise through year 2050 is approximately \$19.8 billion. This preliminary cost estimate is focused primarily on shoreline protection measures to prevent flooding from the bay and ocean, and it does not fully consider upstream flooding impacts from streams and rivers, or the Delta. It does include marsh and subtidal restoration and adaptation projects that would provide ecosystem and flood protection benefits. Staff are working with a broader set of ecological, flood control, and sea level rise subject matter experts to further refine this estimate by January 2020.

Table 2: Sea Level Rise Need (in millions of \$YOE)

Strategy ⁸	Units ⁹	Unit Cost ¹⁰	Operations	Inflation	Subtotal
			&		
			Maintenance ¹¹		
Levee – Horizontal (Mild)	253,199	\$5,800	1.5%	2.2%	\$2,173
Levee – Horizontal (Steep)	31,667	\$2,800	1.5%	2.2%	\$131
Levee – Traditional	29,034	\$1,000	1.5%	2.2%	\$43
(Minimum Trail)					
Levee – Traditional	92,534	\$1,200	1.5%	2.2%	\$164
(Average Trail)					
Levee – Traditional (2-lane	129,661	\$2,310	1.5%	2.2%	\$443
Roadway) ¹²					
Levee – Traditional (4-lane	90,131	\$3,520	1.5%	2.2%	\$469
Roadway)					
Levee – Raise Existing	18,984	\$770	1.5%	2.2%	\$22
Levee					
Seawall - Simple	42,779	\$4,730	1.5%	2.2%	\$299
Seawall – Berm or	9,174	\$6,800	1.5%	2.2%	\$92
Amenities					

⁸ Does not include buyouts or relocation.

⁹ Units are in linear foot for most strategy types, in acreage for marsh restoration, and indicate quantity for tidal gates.

¹⁰ Cost assumptions stem from previous research with a consultant. Shown in 2019 dollars.

¹¹ Assumed to be 1.5%. Calculated onto the value of annual need before inflation.

¹² This estimate includes a high level assumption to protect Capitol Corridor, however, no costed archetype was available for railroads specifically. As a result, this estimate is included under Levee – Traditional (2-lane Roadway) for the railroad itself and Elevate Roadway (2-lane) for its bridges.



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Elevate Roadway (2-lane)	12,186	\$41,470	1.5%	2.2%	\$748
Elevate Roadway (4-lane)	82,449	\$75,790	1.5%	2.2%	\$9,244
Elevate Highway (8-lane)	3,055	\$116,050	1.5%	2.2%	\$524
Marsh Restoration	74,884	\$47,700	1.5%	2.2%	\$5,284
Medium Tidal Gate	14	\$3,000,000	1.5%	2.2%	\$62
Large Tidal Gate	3	\$20,000,000	1.5%	2.2%	\$89
Total					\$19,788

Additionally, there is a nexus for adaptation with transportation, as much of the region's infrastructure is susceptible to sea level rise. In some cases, an adaptation measure for transportation may have off-system benefits, as areas adjacent to the transportation asset would benefit from sea level rise protection. In this way, the financing of transportation is simultaneously mitigating the risk for private or public buildings. There may also be the potential for non-transportation adaptation measures to utilize flexible transportation funds if the sea level rise measure is seen to provide a co-benefit a transportation asset. In other situations, the transportation asset may be directly adapted, and provide no direct benefit to adjacent areas.

These transportation mitigation projects may have financial benefits for transportation funding. An example of this is the seismic mitigation of the seven state-owned Bay Area toll bridges, which were mitigated by a state seismic bond of in 1996. Today, half of the regular toll fare goes toward the state's Seismic Retrofit Program. In this way, the relationship between resilience and transportation can lead to a series of complex outcomes, which affect both resilience, and even the transportation "bank" of needs and revenues. It is estimated that approximately 60 percent of the regional need for sea level rise has either a direct or indirect nexus with regional transportation assets.

Table 3: Relationship of Sea Level Rise Need with Transportation Funding¹³

Direct Nexus	Indirect Nexus	No Nexus	Total
\$7,806	\$722	\$4,769	\$13,37614
58%	6%	36%	100%

¹³ Shown in 2019 dollars in millions. Shown without operations and maintenance funding.

¹⁴ Column may not add up to total as printed due to rounding.

PLAN BAY AREA 2050
Attachment D
Agenda Item 5b

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Draft Plan Bay Area 2050 Transportation Revenue Forecast

The draft revenue forecast for Plan Bay Area 2050 (Plan), summarized in Table 1 below, draws upon data from MTC, transit operators, local jurisdictions, county transportation agencies, and other stakeholders. The funds in the Plan are divided into six categories: federal, state, regional, local, anticipated, and other. Each section of this memo details key issues impacting revenue from its relevant category. Total revenue in year-of-expenditure (YOE\$) dollars for the 30-year Plan period of FY 2020-21 to FY 2049-50 is currently projected to be \$471.7 billion or \$544.4 billion if optional revenues are included.

For improved planning, transparency, and fiscal constraint, revenue has been segmented into "bins", based on the period of anticipated availability. The first two bins correspond to the years of the plan that the funds are expected to be available. The third bin is comprised of fund sources that are not received on an annual or formulaic basis (example -- New Starts, Anticipated). These funds can be applied to expenditures throughout the time period of the Plan.

Schedule

The draft revenue forecast will not be finalized until shortly before the Plan is adopted in 2017. It will be updated to reflect additional local revenues submitted through the call for projects, local value capture proposals submitted by congestion management agencies (CMAs), and possible new revenue sources approved before 2017 (including new county or transit operator ballot measures).

Table 1. Draft Plan Bay Area 2050 Revenue Estimate (in Billions of YOE \$)

Revenue Category	Plan Bay Area 2050 Revenue (FY 2021 - FY 2050)	Revenue Bin 1 (FY 2021 – FY 2035)	Revenue Bin 2 (FY 2036 – FY 2050)	Revenue Bin 3 (Flexible)
Federal Funds	\$45.8	\$13.8	\$20.8	\$11.1
State Funds	\$91.9	\$38.5	\$51.8	\$1.6
Regional Funds	\$67.2	\$27.1	\$40.1	\$0
Local Funds	\$243.4	\$97.3	\$146.1	\$0
Anticipated	\$23.5	\$0	\$0	\$23.5
Other/Optional New	\$72.8	\$24.9	\$47.9	\$0
Revenue	0.451.5	01868	0250.0	0262
TOTAL w/o Optional	\$471.7	\$176.7	\$258.8	\$36.2
TOTAL w/ Optional	\$544.4	\$201.6	\$306.7	\$36.2

Appendix 1 contains projections for each revenue source included in the plan. The below sections of the memo discuss some of the key issues underlying the Plan Bay Area 2050 Draft Revenue Forecast.

PLAN BAY AREA 2050

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General Assumptions

The Plan revenue forecast is based on the following time frame and inflation assumptions:

- Time Frame The Plan covers the time period from FY 2020-21 through FY 2049-50 (30 years). All revenue projections are prepared in escalated year of expenditure dollars (YOE\$).
- Inflation Rate The Plan assumes a 2.2% inflation rate, the same inflation rate as was used for Plan Bay Area 2040. This rate is consistent with ten-year inflation forecasts for the Bay Area from the California Department of Finance, the U.S. Federal Reserve, and the federal Office of Management and Budget (OMB).

Federal Funds

Federal fund sources included in the revenue forecast are assumed to increase at a 2% annual growth rate for the period from FY 2020-21 to FY 2029-30 and at a 3% annual growth rate for the remainder of the Plan. These growth rates are applied to a base year of the actual federal funds received in the region in FY 2018-19.

New Starts, Small Starts, and Core Capacity

The draft revenue forecast includes a total \$11.15 billion for Federal Transit Administration (FTA) Section 5309 Fixed-Guideway Capital Investment Grants, usually referred to as the New Starts and Small Starts programs. The revenue forecast for the New/Small Starts program is based upon an analysis of the amount of funding the Bay Area has received from the programs over the last ten years which amounts to an average of nearly 10% of the overall national program. This represents an increase to the Bay Area share of the national program over the 7.6% share that was assumed in Plan Bay Area 2040. Over the Plan period MTC expects the Bay Area will perform well with Core Capacity-type projects given the age of fixed-guide way in our transit systems.

The \$11.15 billion includes approximately \$270 million in committed New Starts funding for Caltrain electrification. The remaining \$10.9 million represents available discretionary funding in the Plan.

The Federal funding in the Plan assumes the framework and funding levels contained in 2015 the Fixing America's Surface Transportation (FAST) Act. Should a new federal transportation act be passed prior to the Plan's adoption, the revenue forecast will be updated to conform to the programs and policies contained in it.

State Funds

The majority of state funds for transportation are based on various motor vehicle fuel taxes. Assumptions underlying the prices and level of consumption for motor vehicle fuel used in the financial projections strive to be consistent with the driving cost assumptions used by MTC's travel model. The California Air Resources Board (CARB) developed a tool to for regions to estimate the per-mile cost of driving using energy demand and fuel price forecasts published by the California Energy Commission (CEC). Table 2 shows the fuel assumptions for price and consumption from the CEC's forecast that inform the revenue forecast.



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Table 2 California Energy Commission Fuel Price and Consumption Forecast

Year	Gasoline Price (YOE \$)	Diesel Price (YOE\$)	Annual Gasoline Consumption (1,000 gallons)	Annual Diesel Consumption (1,000 gallons)	Change in Gas Consumption (1,000 gallons)	Change in Diesel Consumption (1,000 gallons)
2021	\$3.59	\$3.44	14,350	3,156	N/A	N/A
2050	\$5.74	\$5.87	12,053	3,314	-16%	+0.5%

Several MPOs in the state are using alternative fuel price assumptions in their own plans. MTC/ABAG joint staff are still considering whether to use the CEC energy demand forecast reflected in CARB's tool or to deviate to an alternative source, in which case, the revenue forecast for state funds could change significantly.

State Transportation Improvement Program (STIP)

The STIP consists of two main parts, the Regional Transportation Improvement Program (RTIP) and the Interregional Transportation Improvement Program (ITIP). The RTIP is the 75% regional share of the capital improvement program that includes projects on and off the state highway system. The ITIP is the 25% interregional share that focuses on projects in the state that cross metropolitan boundaries or are generally more regional in scope. STIP revenue comes primarily from the supplemental 17.3 cent excise tax on gasoline. Prior to the passage of Senate Bill 1, the amount of this supplemental excise tax was variable, and would be adjusted annually based on the *price* of gasoline. Senate Bill 1 "reset" the excise tax in 2019 to 17.3 cents, to be annually indexed to inflation beginning in 2020.

Cap and Trade

The draft revenue forecast currently includes projections for the various state Cap and Trade programs consistent with \$2.9 billion in annual statewide generations, based on what Cap and Trade auctions are currently generating. Table 3 below provides details on the assumed Bay Area shares for the various Cap and Trade programs. The share assumptions detailed in Table 3 are based upon either state statute (for the Low Carbon Transit Operations Program) or upon MTC's retrospective analysis of the results of state awards for the other programs. The revenue forecast also includes \$1.5 billion in revenue from the 40% of Cap and Trade revenues which have not been programmed by the state Legislature. This forecast assumes that 1/3 of the 40% un-programmed Cap and Trade funds will benefit transportation projects and that of those funds the Bay Area will receive its population share of 20%.

ASSOCIATION OF BAY AREA GOVERNMENTS

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Table 3. Cap and Trade Bay Area Shares (in Billions of YOE \$)

Cap and Trade Program	Revenue	Bay Area % Share of Total
Affordable Housing & Sustainable	\$1.8	11%
Communities Program (transportation		(30% of the 35% of total
projects)		AHSC funds benefiting
		transportation projects)
Cap & Trade High Speed Rail	\$0.9	4%
Low Carbon Transit Operations Program	\$0.4	20%
Population-Based		
Low Carbon Transit Operations Program	\$1.1	52%
Revenue-Based		
Transit and Intercity Rail Capital Program	\$2.6	30%
40% Un-programmed Cap and Trade	\$2.3	6.5%
Funds		
TOTAL	\$9.1	N/A

High Speed Rail

In 2019, Governor Newsom announced that while work on the Central Valley segment of the High Speed Rail project would continue, build-out of the rest of the system would be indefinitely postponed. Bay Area High Speed Rail revenue is still forecasted to be available for connectivity products already underway or planned, plus a small amount of state funding for future connectivity projects.

Senate Bill 1 Revenue Programs

In 2017, the California Legislature passed Senate Bill 1, containing new fund sources and programs for transportation. Fund sources that inform the Senate Bill 1 program revenue forecast include fuel sales and excise taxes, a license fee-based transportation improvement fee, and an electric vehicle fee. The distribution of program funding is contained in statute and where the state has discretion over the funding shares of competitive programs, staff has assumed Bay Area shares based on past and predicted performance. Table 4 below contains the assumed Bay Area shares of Senate Bill 1 competitive programs.

Table 4. Senate Bill 1 Competitive Programs—Bay Area Shares (in Billions of YOE \$)

Senate Bill 1	Revenue	Bay Area % Share of Total
Active Transportation Program (State)	\$0.57	15%
Solutions for Congested Corridors	\$3.8	30%
Transit and Intercity Rail	\$6.4	30%
Trade Corridor Enhancement	\$2.7	20%
TOTAL	\$13.47	N/A

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Regional Revenues

The majority of regional revenue for the Plan is attributed to bridge tolls and the AB 1107 sales tax in the three BART district counties. The Bay Area Toll Authority provides estimates of toll-paid vehicle growth on the seven regional bridges that are used to forecast revenue over the Plan period. Toll increases are assumed to satisfy the projected maintenance, rehabilitation, and replacement needs of the regional toll bridges.

Local Revenues

The major local fund sources in the Plan include transit fare revenues, street and road local revenue, and sales tax-based revenues.

Sales Taxes

The revenue forecast includes revenues generated by county transportation sales taxes, transit district sales taxes, and the Transportation Development Act's (TDA) Local Transportation Fund ¼ cent sales tax which is collected in each Bay Area county. The forecast also includes revenues expected from the reauthorization of county and transit district sales taxes which are currently set to expire during the Plan period. Forecasts for county transportation sales taxes and transit district sales taxes are developed directly by the sales tax administrating agencies. Estimates for county sales tax and transit district measures were submitted by each county sales tax agency. These estimates are used in the revenue forecast to maintain consistency with sales tax expenditure and strategic plans. To maintain consistency, TDA growth rates also assume the same growth rates as those provided by the sales tax authorities in their respective counties. The sales tax forecast for Solano County is based on a ten-year historical analysis of actual TDA receipts. The AB1107 forecast is a weighted average of projected growth rates for Alameda, Contra Costa, and San Francisco counties.

Anticipated Revenue

Anticipated revenue represents funding that is likely to become available from federal or state sources over the course of the Plan period but is unspecified in terms of source or expenditure requirements. Reasonably anticipated revenues differ from new, specific revenue that would be generated under local or regional control such as sales tax reauthorizations or regional bridge toll increases. Examples of this revenue would be the American Recovery and Reinvestment Act (ARRA) transportation funding that was distributed by the federal government in FY 2009 in response to the national recession as well the recent Senate Bill 1 transportation revenue that became available in 2017 but was not incorporated in the revenue forecast for Plan Bay Area 2040. The revenue forecast includes \$23.5 billion in anticipated revenues. This estimate is based upon an analysis of revenue sources that materialized over a fifteen-year period from FY 2005-06 through FY 2019-20.

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Other/ New Optional Revenue

This category includes revenues associated with an optional "megameasure" transportation funding proposal currently under discussion in the Bay Area. This optional revenue assumes a 1% sales tax in all nine Bay Area counties beginning in 2025. Although the forecast was based on a 25 year, 1% sales tax, the revenue is not intended to be tied to a specific proposed.

This category will be updated to contain revenues associated with proposed pricing projects in downtown San Francisco and on Treasure Island, possible new tolling projects (apart from express lanes) such as State Route 37, developer and land sale revenues associated with projects that are included in Plan Bay Area 2050, as well as 2020 transportation ballot measure revenues. Revenues from these sources may be modified based on the projects included in Plan Bay Area 2050.

Next Steps

This draft transportation revenue forecast will inform the next phases of the Plan development process including the Transportation Element of the Plan Bay Area 2050 Blueprint. The financial projections, however, will not be finalized until shortly before the adoption of the Plan in 2021 in order to allow for updates to revenue estimates based on legislative or economic change

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Draft Affordable Housing Revenue Forecast

Federal Funding

Existing

Low-Income Housing Tax Credits (LIHTCs)¹⁵ are the primary source of funding for affordable housing projects across the country. The Great Communities Collaborative estimates that in 2017, federal LIHTCs accounted for about a third of the available total funding, or about \$1 billion, for the production and preservation of affordable housing in the Bay Area. ¹⁶ Other important federal sources include the HUD Section 8 Project-Based Housing Choice Vouchers (Section 8) and the Affordable Housing Program (AHP). Overall, federal sources have been declining since 2003 with funding for some programs such as the Home Investment Partnership Program (HOME) and the Community Development Block Grant (CDBG) declining by over 50 percent between 2003 and 2015. ¹⁷

Forecast

While total federal funding for affordable housing production and preservation has declined significantly over the last few decades, staff is taking a slightly more optimistic view and assuming a slow but steady increase of 1 percent each year for the next 30 years. After accounting for a 2.2 percent inflation rate though, this projection still anticipates a slow decline in real terms.

State Funding

Existing

Between 2016 and 2018, the state allocated \$6 billion statewide in one-time funding for affordable housing production and preservation. Staff estimates that a 10-year revenue stream for the Bay Area through these one-time allocations would yield around \$110 million in 2019. The state also awarded around \$76 million in grants to Bay Area affordable housing developers in 2018 through the Affordable Housing and Sustainable Communities (AHSC) Program, which is funded via the statewide cap and trade program.

Forecast

The forecast assumes a moderate increase of 2.2 percent for the AHSC program, which is anticipated to be extended to 2050 in future years. The forecast does not assume a large increase in AHSC funds since total emissions should decline as the price of GHG emissions rises, keeping the total revenue generated through the program about the same, when adjusted for inflation.

¹⁵ See publication of the California Tax Credit Allocation Committee: https://www.treasurer.ca.gov/ctcac/program.pdf ¹⁶ Funding Affordable Housing Near Transit in the Bay Area Region, May 2017, Strategic Economics, prepared for the Great Communities Collaborative. https://www.bart.gov/sites/default/files/docs/Funding-Affordable-Housing-Near-Transit-in-the-Bay-Area-Region 5917.pdf

¹⁷ California's Housing Future: Challenges and Opportunities, Statewide Housing Assessment 2025, California Department of Housing and Community Development.

¹⁸ Through the *No Place Like Home Program* and Proposition 1.

¹⁹ MTC tabulation of awarded grants.

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Regional/Local Funding

Existing

The Great Communities Collaborative estimates that in 2017 local jurisdictions allocated as much as \$1.5 billion annually towards the production and preservation of affordable housing. ²⁰ The funds were raised at the local level from in-lieu and impact fees, general funds and low- or no-cost sale or lease of public lands, among others. A detailed breakdown of the sources is not available at this time. MTC also contributes funding through its housing-transportation programs, which staff estimates at \$10 million per year (including revolving loan funds and one-time grants).

Forecast

The forecast assumes a 1 percent annual increase for existing funds given that most sources of funding are almost fully tapped out and might decline as the regional economy grows at a slower rate over the long term.

Private Funding

Existing

The largest share of private funding for the production of deed-restricted affordable units is a result of inclusionary policies adopted by local jurisdictions. Staff estimates that this mechanism contributed the equivalent of around \$200 million in 2018²¹ (or 450 units annually, valued @ \$450,000 per unit.) Furthermore, in recent months, major employers including Apple, Google, and Facebook committed to roughly \$2.5 billion in funding for affordable housing between 2020 and 2029.

Forecast

The forecast assumes that through inclusionary policies, the region continues to add around 450 units annually to the deed-restricted affordable housing stock. The forecast assumes a 2.2 percent growth rate for private contributions. Staff have integrated funding already committed by major employers into the forecast as well for years 2021 through 2029.

²⁰ See: Funding Affordable Housing Near Transit in the Bay Area Region, May 2017.

²¹ Lacking reliable estimates for the number of inclusionary units build in each local jurisdiction, staff estimated the region-wide total based on data published for San Francisco (SF). Between 2013 and 2018, SF's inclusionary policy resulted in around 300 units per year. The number in 2018 was 163, which is more in line with the longer-term trend of around 200-250 units. Assuming that the region built as many units as SF through inclusionary requirements, the region could realistically anticipate that the private sector would provide 400-500 units annually in most years. Each unit is valued at \$450,000 in subsidies. Source: Construction Industry Research Board and 2018 San Francisco Housing Inventory.



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Table 1: Affordable Housing Revenues (2021-2050, in millions of \$YOE)

Category	Source	Expected Revenue
Federal	LIHTC	\$30,821
	HTF	\$269
	Section 83	\$3,763
	HOME	\$717
	AHP	\$2,330
	Other	\$538
State	AHSC	\$3,396
	Bonds	\$993
Regional/Local	Bonds and Fees	\$52,755
	TOAH/BAPP	\$358
Private	Inclusionary	\$9,052
	Major Employers	\$2,250
Total		\$107,242

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Attachment F Agenda Item 5b

Draft Resilience Revenue Forecast

Draft Revenue

Staff have estimated existing funding sources for resilience will generate **approximately \$1.9 billion** for the Bay Area through year 2050. This estimate was aggregated from four different scales of revenue: local, regional, state, and federal – and then projected into the future using a set of assumptions. All sources gathered for this report were only included if they directly focused on flooding or seismic mitigation, and were further filtered to the specific needs of this assessment. Seismic mitigation revenues were only included if they protect residential structures, but Sea Level Rise revenues include all types of protection, as they hold a series of co-benefits for different sectors. Local elements include special taxes that have expiration dates within the frame of reference. As of this draft, the availability of local bond funds was not able to be determined, as many of the recent initiatives, such as San Francisco's Embarcadero bond, and Foster City's seawall bond, are committed, and therefore not considered available. State revenues consist of statewide seismic grants, as well as uncommitted bond funding from significant state water bonds. US Army Corps funds constitute most of the federal element, as they have been involved in much of the regions flood protection efforts. Additionally, financial support from FEMA has been a consistent revenue for the region for decades, and this trend is expected to continue.

The Bay Area has seen seismic mitigation funding at all scales, and this trend is expected to continue into the future. It is estimated that the region will produce \$310 million in revenue by 2050. Many municipalities have issued seismic bonds to protect schools and infrastructure, and the city of Hayward has even produced a seismic tax to retrofit the entirety of their public structures. However, there has not currently been a local funding source identified that provides protection for residential structures. At the state level, it is expected that the California Earthquake Authority (CEA) will continue to fund seismic retrofits within the region. The largest source of funding for this sector is currently the federal government, with reliable FEMA support expected to produce \$266 million for seismic mitigation efforts.

The region has significantly more eligible funding for sea level rise, and it is expected to have \$1.905 million worth of revenue by 2050. The funding distribution for this particular element is based on all scales – local, regional, state, and federal – but is most reliant on federal funding due to the large scale of revenue from USACE. Federal FEMA grants are expected to continue, and the region is also eligible for a share of state water bonds that are dedicated to flooding. However, a substantial source of expected revenue will come from Measure AA, a regional measure passed in 2016 to help protect and restore the Bay. Although its timeline does not extend the full length of the fundraising program²³, its funds, at \$520 million²⁴ in projected revenue, will act as a critical element to help the region combat sea level rise.

²² Available state bond funds were adjusted with an assumption that the region will only receive funding proportional to its population.

²³ The tax is scheduled to expire in 2036.

²⁴ This number varies from some assessments of Measure AA due to the methodology for calculating inflation in this analysis (2.2%).

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Table 5: Revenue Summary in Millions

Scale	Measure	Topic	Calculation Year ²⁵	Annual Value	Inflation	2021- 2050 Total
Local	San Mateo Drainage Tax	Sea Level Rise	2019	\$3	2.2%	\$134
Regional	Measure AA	Sea Level Rise	2016	\$25	2.2%	\$520
State	CEA Home Retrofits	Earthquake	N/A	\$1 ²⁶	2.2%	\$45
State	State Bond: Prop 68 ²⁷ (2018)	Sea Level Rise	N/A	N/A	N/A	\$56 ²⁸
State	State Bond: Prop 1 (2014)	Sea Level Rise	N/A	N/A	N/A	\$52
State	State Bond: Prop 84 (2006)	Sea Level Rise	N/A	N/A	N/A	\$14
State	State Bond: Prop 1E (2006)	Sea Level Rise	N/A	N/A	N/A	\$25
Federal	FEMA Grants	Earthquake	1995-2019	\$6	2.2%	\$266
Federal	FEMA Grants	Sea Level Rise	1995-2019	\$2	2.2%	\$78
Federal	USACE Investments ²⁹	Sea Level Rise	2010-2019	\$23	2.2%	\$1,026
Total						\$2,216

²⁵ Year(s) upon which the annual value is based.

²⁶ California Earthquake Authority (CEA) retrofits cover either 5% of investment income on CEA's invested funds, or \$5 million, whichever is less. This assessment assumes the lesser number of \$5 million. Also, the funds cover the entire state – therefore, as with other state initiatives in this analysis, it is assumed that the Bay Area receives 20% of state funding, proportional to its share of the population.

²⁷ State Bonds are only shown in this analysis if their flooding chapters have available funding in 2019. Due to staff constraints, detail to the project level is not currently available.

²⁸ State Bond totals are calculated as 20% of what funding was available in the fall of 2019. The 20% estimation assumes that the Bay Area receives a portion of state funding proportional to its share of population.

²⁹ Analysis on USACE investments assumes that those marked as navigation expenses do not relate to sea level rise, and are thus those funds not included in the total.

PLAN BAY AREA 2050 - DRAFT TRANSPORTATION REVENUE FORECAST BY SOURCE In Billions of Year of Expenditure \$ - 30 Year Forecast Period FY 2020-21 to FY 2049-50

Revenue Source	Plan Bay Area 2050 Revenue Assumptions	PBA 2040 (For Reference 24 Year Forecast)	Plan Bay Area 2050 Total Revenue	Revenue Bucket 1 FY 2021 - FY 2035	Revenue Bucket 2 FY 2036 - FY 2050	Revenue Bucket 3 Flexible Availability
FEDERAL						
FHWA Construction of Ferry Boats & Ferry Terminal Facilities Formula Program	Base Year: FY 2018-19 Data Source: FHWA Growth Rate: 2%-3%	\$0.04	\$0.09	\$0.03	\$0.05	\$0.00
FHWA/FTA Section 5303 Metropolitan Planning	Base Year: FY 2018-19 Data Source: FHWA	\$0.03	\$0.52	\$0.21	\$0.31	\$0.00
FHWA STP/CMAQ - Regional	Growth Rate: 2%-3% Base Year: FY 2018-19 Data Source: FHWA	\$3.26	\$4.62	\$1.84	\$2.78	\$0.00
FHWA Highway Safety Improvement Program (HSIP)	Base Year: FY 2018-19 Data Source: FHWA	\$0.31	\$0.84	\$0.34	\$0.51	\$0.00
FHWA STP/CMAQ - County	Growth Rate: 2%-3% Base Year: FY 2018-19 Data Source: FHWA	\$2.18	\$3.08	\$1.23	\$1.85	\$0.00
FTA Passenger Ferry Grant Program	Growth Rate: 2%-3% Base Year: FY 2018-19 Data Source: FTA	\$0.10	\$0.15	\$0.06	\$0.09	\$0.00
	Growth Rate: 2%-3% Base Year: FY 2018-19	\$7.08	\$10.48	\$4.18	\$6.31	\$0.00
FTA Sections 5307 & 5340 Urbanized Area Formula (Capital)	Data Source: FTA Growth Rate: 2%-3% Base Year: FY 2018-19	\$5.02	\$9.17	\$0.00	\$0.00	\$9.17
FTA Section 5309 Fixed-Guideway Capital Investment Grants - New Starts and Core Capacity	Data Source: FTA Growth Rate: 2%-3% Base Year: FY 2018-19	\$0.70	\$1.98	\$0.00	\$0.00	\$1.98
FTA Section 5309 Fixed-Guideway Capital Investment Grants - Small Starts	Data Source: FTA Growth Rate: 2%-3%		\$1.90	\$0.00	\$0.00	
FTA Section 5310 Enhanced Mobility of Seniors & Individuals with Disabilities	Base Year: FY 2018-19 Data Source: FTA Growth Rate: 2%-3%	\$0.16	\$0.24	\$0.10	\$0.14	\$0.00
FTA Section 5311 Non-Urbanized Area Formula	Base Year: FY 2018-19 Data Source: FTA Growth Rate: 2%-3%	\$0.07	\$0.07	\$0.03	\$0.04	\$0.00
FTA Section 5337 State of Good Repair Formula	Base Year: FY 2018-19 Data Source: FTA	\$6.56	\$10.50	\$4.19	\$6.31	\$0.00
FTA Section 5339 Bus & Bus Facilities Program	Growth Rate: 2%-3% Base Year: FY 2018-19 Data Source: FTA	\$0.40	\$0.71	\$0.28	\$0.43	\$0.00
FTA Bus and Bus Facilities Discretionary Program	Growth Rate: 2%-3% Base Year: FY 2018-19 Data Source: FTA	\$0.38	\$0.12	\$0.05	\$0.07	\$0.00
National Highway Freight Program	Growth Rate: 2%-3% Base Year: FY 2018-19 Data Source: FHWA	\$0.77	\$1.16	\$0.46	\$0.70	\$0.00
National Significant Freight and Highway Projects Discretionary Program	Growth Rate: 2%-3% Base Year: FY 2018-19 Data Source: FHWA	\$1.53	\$2.01	\$0.80	\$1.21	\$0.00
Federal Total	Growth Rate: 2%-3%	\$28.59	\$45.8	\$13.8	\$20.8	\$11.1

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2 of 6		PBA 2040					
Revenue Source	Plan Bay Area 2050 Revenue Assumptions	(For Reference 24 Year Forecast) Plan Bay Area 2050 Total Revenue		Revenue Bucket 1 FY 2021 - FY 2035	Revenue Bucket 2 FY 2036 - FY 2050	Revenue Bucket 3 Flexible Availability	
STATE							
	Assumption Base: FY 2017-18	\$0.28	\$0.57	\$0.26	\$0.31	\$0.00	
Active Transportation Program (ATP) - State Program	Distribution Base: Bay Area receives						
	20% of funds Assumption Base: \$2.9 billion per						
		\$1.08	\$1.83	\$0.91	\$0.91	\$0.00	
	year in Cap and Trade auction						
Affordable Housing & Sustainable Communities Program	proceeds						
	Distribution Base: Bay Area receives						
	30% of funds Assumption Base: \$2.9 billion per	\$0.50	\$2.26	\$1.13	\$1.13	\$0.00	
	year in Cap and Trade auction	\$0.50	\$2.20	\$1.13	\$1.13	\$0.00	
Cap & Trade Goods Movement (from 40% Uncommitted Funds)	proceeds						
	l'						
	Distribution Base: Bay Area receives Assumption Base: Bay Area share of	\$0.00	\$0.15	\$0.07	\$0.07	\$0.00	
Freeway Service Patrol	prescribed statewide set-aside from						
Treeway Service ration	the Road Maintenance and						
	Rehabilitation Account Assumption Base: Estimate of Fuel						
	excise tax and Road Maintenance and	\$8.29	\$24.07	\$9.85	\$14.22	\$0.00	
		1					
Gas Tax Subvention + RMRA	Rehabilitation Account revenue						
	Distribution Base: Bay Area share of						
	registered vehicle, road mileage, and						
	nonulation	\$9.26	\$ 1.56	\$0.00	\$0.00	\$ 1.56	
High Speed Rail	Assumption Base: Bay Area current +	\$9.20	٥٤.١	\$0.00	\$0.00	ş 1.30	
	anticipated connectivity projects.						
	Assumption Base: Bay Area	\$0.00	\$1.17	\$0.59	\$0.59	\$0.00	
	population share of prescribed						
Local Partnership Program	statewide set-aside from the Road						
	Maintenance and Rehabilitation						
	Account Assumption Base: Bay Area	¢0.00	¢0.15	¢0.07	¢0.07	#0.00	
	population share of prescribed	\$0.00	\$0.15	\$0.07	\$0.07	\$0.00	
Local Planning	statewide set-aside from the Road						
Local Flamming	Maintenance and Rehabilitation						
	Account						
	Assumption Base: \$2.9 billion per	\$0.29	\$0.42	\$0.21	\$0.21	\$0.00	
	year in Cap and Trade auction						
Low Carbon Transit Operations Program Population-Based	proceeds						
	Distribution Base: Bay Area receives						
	19% of funds Assumption Base: \$2.9 billion per						
	year in Cap and Trade auction	\$0.80	\$1.13	\$0.57	\$0.57	\$0.00	
Low Carbon Transit Operations Program Revenue-Based	· ·						
	proceeds Distribution Rase: Ray Area receives						
Proposition 1B	N/A	\$0.01	\$0.00	\$0.00	\$0.00	\$0.00	
	Assumption Base: Senate Bill 1	\$0.00	\$3.82	\$1.46	\$2.35	\$0.00	
Solutions for Congested Corridors	program revenue			· ·	·	•	
Solutions for Congested Corridors	Distribution Base: Bay Area receives						
	30% of funds Assumption Base: Bay Area						
		\$0.00	\$2.34	\$1.17	\$1.17	\$0.00	
	population share of prescribed						
State Bridges and Culverts	statewide set-aside from the Road						
	Maintenance and Rehabilitation						
	Account Assumption Base: 2019 SHSMP and	¢12.75	4 2.C F.0	A11 47	¢4F43	¢0.00	
	estimate of gas tax revenue	\$13.75	\$26.59	\$11.47	\$15.13	\$0.00	
State Highway Operations & Protection Program (SHOPP)	Distribution Base: Bay Area receives						
	_						
	20% of funds Assumption Base: FY 2018/19	\$1.79	\$2.95	\$1.25	\$1.71	\$0.00	
State Transit Assistance (STA) Population-Based	Distribution Base: Bay Area receives	Ψ1.73	Ψ 2 .33	¥1.23	Ψ1.71	Ψ0.00	
	20% of funds Assumption Base: 2018-19	\$5.12	\$7.88	\$3.33	\$4.55	\$0.00	
State Transit Assistance (STA) Revenue-Based	Distribution Base: Bay Area receives						
	52% of funds						

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3 of 6 Revenue Source	Plan Bay Area 2050 Revenue Assumptions	PBA 2040 (For Reference 24 Year Forecast)	Plan Bay Area 2050 Total Revenue	Revenue Bucket 1 FY 2021 - FY 2035	Revenue Bucket 2 FY 2036 - FY 2050	Revenue Bucket 3 Flexible Availability	
State of Good Repair (SGR) Program - Population Based	Assumption Base: FY 2018/19 Distribution Base: Bay Area receives	\$0.00	\$0.52	\$0.20	\$0.32	\$0.00	
State of Good Repair (SGR) Program - Revenue Based	20% of funds Assumption Base: 2018-19 Distribution Base: Bay Area receives	\$0.00	\$1.39	\$0.53	\$0.86	\$0.00	
State Transportation Improvement Program (STIP): Regional Transportation Improvement	52% of funds Assumption Base: 2020 STIP FE and estimate of gas tax revenue	\$3.11	\$3.19	\$1.27	\$1.92	\$0.00	
Program (RTIP) County Shares	Distribution Base: Bay Area historical share of total funds Assumption Base: 2020 STIP FE and	\$0.71	\$0.77	\$0.30	\$0.46	\$0.00	
STIP: Interregional Road/Intercity Rail (ITIP)	estimate of gas tax revenue Distribution Base: Bay Area historical		Ψ0.7.1	\$0.30	\$0.10	40.00	
Trade Corridor Enhancement	share of total funds Assumption Base: Senate Bill 1 program revenue Distribution Base: Bay Area receives 20% of funds	\$0.00	\$2.68	\$1.11	\$1.56	\$0.00	
Transit and Intercity Rail	Assumption Base: \$2.9 billion per year in Cap and Trade auction proceeds + Senate Bill 1 program revenue	\$3.00	\$6.35	\$2.74	\$3.61	\$0.00	
University Research	Distribution Base: Bay Area receives Assumption Base: Bay Area population share of prescribed statewide set-aside from the Road Maintenance and Rehabilitation	\$0.00	\$0.04	\$0.02	\$0.02	\$0.00	
Workforce Development	Account Assumption Base: Bay Area population share of prescribed statewide set-aside from the Road Maintenance and Rehabilitation	\$0.00	\$0.03	\$0.01	\$0.01	\$0.00	
State Total	Account State Total	\$47.99	\$91.9	\$38.5	\$51.8	\$1.6	
REGIONAL		4-11.55	45 1.5	450.5	45 1.0	Ψ1.0	
2% Toll Revenues	Base Year: FY 2018-19 Source: BATA Growth Rate: 0.3%-0.6%	\$0.10	\$0.12	\$0.06	\$0.06	\$0.00	
5% State General Funds	Base Year: FY 2018-19 Source: BATA Growth Rate: 0.3%-0.6%	\$0.09	\$0.12	\$0.05	\$0.06	\$0.00	
Active Transportation Program (ATP) - Regional Program	Assumption Base: FY 2017-18 Distribution Base: Bay Area share	\$0.31	\$0.57	\$0.26	\$0.31	\$0.00	
AB 1107 ½-cent Sales Tax in three BART counties (25% MTC Administered Share)	based on ATP formula Assumption Base: Weighted average of county sales tax authority estimates for the three counties of the BART District	\$2.61	\$4.68	\$1.84	\$2.84	\$0.00	

Page 4 of 6

4 of 6						
Revenue Source	Plan Bay Area 2050 Revenue Assumptions	PBA 2040 (For Reference 24 Year Forecast)	Plan Bay Area 2050 Total Revenue	Revenue Bucket 1 FY 2021 - FY 2035	Revenue Bucket 2 FY 2036 - FY 2050	Revenue Bucket 3 Flexible Availability
	Assumption Base: Weighted average	\$8.67	\$14.03	\$5.51	\$8.51	\$0.00
AD 11071/ cont Calca Tay in three DADT Counties (750/ DADT Chare)	of county sales tax authority	φο.σ7	Ψ155	Ψ3.3.	Ψ3.3 .	φσ.σσ
AB 1107 ½-cent Sales Tax in three BART Counties (75% BART Share)	estimates for the three counties of					
	the BART District Base Year: FY 2018-19					
10.4474		\$0.10	\$0.54	\$0.27	\$0.27	\$0.00
AB 1171	Source: BATA					
	Growth Rate: 0.3%-0.6% Base Year: FY 2018-19	\$0.37	\$0.46	\$0.23	\$0.23	\$0.00
	Source: DMV data	Ψ0.57	\$0.40	Ψ0.23	\$0.23	\$0.00
AB 434 (Transportation Fund for Clean Air – Regional) – 60% of funding	Growth Rate: MTC estimate based on					
	Vehicle Registration data Base Year: FY 2018-19					
		\$0.38	\$0.49	\$0.24	\$0.25	\$0.00
AB 664	Source: BATA					
	Growth Rate: 0.3%-0.6% Base Year: FY 2018-19	#2.60	¢4.62	#2.25	#2.20	to 00
BATA Base Toll Revenues	Source: BATA	\$3.60	\$4.63	\$2.25	\$2.39	\$0.00
DATA base Toll Nevertues						
	Growth Rate: 0.3%-0.6% Base Year: FY 2018-19 - Assumes	\$5.10	\$14.47	\$5.73	\$8.75	\$0.00
Deviewel Massure 2 (DM2)	indexing of toll after 2025	455	*	733	, , , ,	*****
Regional Measure 3 (RM3)	Source: BATA					
	Growth Rate: 0.3%-0.6% Model based on MTC's 2011 CTC					
		\$5.08	\$9.85	\$2.26	\$7.59	\$0.00
Regional Express Lane Network Revenues	application for the Express Lanes					
	system Base Year: FY 2018-19	¢2.10	¢4.00	¢1.00	¢2.10	¢0.00
Regional Measure 2 (RM2)	Source: BATA	\$3.18	\$4.08	\$1.98	\$2.10	\$0.00
regional measure 2 (mm2)						
	Growth Rate: 0.3%-0.6% Base Year: FY 2018-19	\$0.05	\$0.37	\$0.18	\$0.19	\$0.00
RM1 Rail Extension Reserve	Source: BATA		·	·	· ·	·
	Growth Rate: 0.3%-0.6% Base Year: FY 2018-19					
		\$0.15	\$0.19	\$0.10	\$0.10	\$0.00
Service Authority for Freeway and Expressways (SAFE)	Source: DMV data					
	Growth Rate: MTC estimate based on					
	Vehicle Registration data Base Year: FY 2018-19	\$3.43	\$4.41	\$2.15	\$2.27	\$0.00
Seismic Surcharge with Carpool	Source: BATA	ψ3. -1 3	Ψ+.+ ι	Ψ2.13	ΨΖ.Ζ1	\$0.00
3	Growth Rate: 0.3%-0.6%					
	Base Year: FY 2018-19	\$3.18	\$4.08	\$1.98	\$2.10	\$0.00
Seismic Retrofit Account (Caltrans)	Source: BATA					
	Growth Rate: 0.3%-0.6% Base Year: FY 2018-19				**	
Seismic Retrofit	Source: BATA	\$3.18	\$4.08	\$1.98	\$2.10	\$0.00
Seismic Retront	Growth Rate: 0.3%-0.6%					
Regional Total	Regional Total	\$39.56	\$67.2	\$27.1	\$40.1	\$0.0
LOCAL	regional rotal	+33.30	Ψ07.2	\$27.1	ψ10.1	ψ0.0
	Base Year: FY 2018-19	\$0.26	\$0.31	\$0.15	\$0.15	\$0.00
A.D. 4.2.4 (Transportation Freed for Close Air County Dragger Manager) 400% of freeding	Source: DMV data					
AB 434 (Transportation Fund for Clean Air – County Program Manager) – 40% of funding	Growth Rate: MTC estimate based on					
	Vehicle Registration data					
County Sales Tax Measures	Estimates provided by county sales	\$33.15	\$56.86	\$30.72	\$26.13	\$0.00
	tax authorities					
County Sales Tax Measures - Reauthorizations	Estimates provided by county sales	\$5.98	\$22.71	\$0.94	\$21.77	\$0.00
	tax authorities Base Year: FY 2018-19	\$1.02	\$1.21	\$0.66	\$0.55	\$0.00
	Source: DMV data	\$1.02	\$1.21	\$0.06	\$ ∪.55	\$0.00
County Vehicle Registration Fees	Growth Rate: MTC estimate based on					
	Vehicle Registration data					
	• • CHICK IKABUAUMI WALA					

Page <u>5 of 6</u>

5 of 6	1	DDA 2212	-	-		
Revenue Source	Plan Bay Area 2050 Revenue Assumptions PBA 2040 (For Reference 24 Year Forecast) Plan Bay Area 2050 Total Revenue		Revenue Bucket 1 FY 2021 - FY 2035	Revenue Bucket 2 FY 2036 - FY 2050	Revenue Bucket 3 Flexible Availability	
	Base Year: FY 2018-19	\$0.03	\$0.10	\$0.00	\$0.10	\$0.00
	Source: DMV data	\$0.03	\$0.10	\$0.00	\$0.10	\$0.00
County Vehicle Registration Fees - Reauthorization	Growth Rate: MTC estimate based on					
	Vehicle Registration data Revenue forecast will be updated	\$3.61	TBD	TBD	TBD	\$0.00
Evenues Lang Devenue (sevente magnetical)	based on county managed express	·				·
Express Lane Revenue (county managed)	lane projects included in Plan Bay					
	Area 2050					
	Estimates based on data from the	\$3.43	\$5.59	\$2.77	\$2.82	\$0.00
Golden Gate Bridge Toll	Golden Gate Bridge, Highway and					
	Transportation District					
	Source: 2018 CA Statewide Local	\$14.76	\$24.97	\$10.47	\$14.51	\$0.00
Local Funding for Streets and Roads	Streets & Roads Needs Assessment.					
	Base Year: FY 2018-19	+=	***	*	***	
D . T (D . LT		\$5.42	\$10.85	\$4.02	\$6.84	\$0.00
Property Tax/Parcel Taxes	Data Source: AC Transit, BART, Marin					
Con Functions Marginian Transportation Appears (CFNTA) Consent Fund and Doubles (Fig.	Transit, WETA	¢10.10	¢22.25	¢12.22	¢20.02	¢0.00
San Francisco Municipal Transportation Agency (SFMTA) General Fund and Parking/Fine	Estimates based on data from the	\$10.10	\$33.35	\$13.33	\$20.02	\$0.00
Revenues	SFMTA					
San Francisco Transportation Sustainability Fee	Estimates based on data from the	\$0.80	\$0.43	\$0.21	\$0.21	\$0.00
<u> </u>	City and County of San Francisco	¢0.5.4	¢0.27	¢0.27	¢0.00	40.00
	MTC estimate based on weighted	\$0.54	\$0.37	\$0.37	\$0.00	\$0.00
SMART Sales Tax in Marin and Sonoma Counties	averages of Marin and Sonoma sales					
	tax revenue as forecast by TAM and					
	SCTA MTC estimate based on weighted	***		**	*	
	_	\$0.64	\$1.51	\$0.40	\$1.11	\$0.00
SMART Sales Tax in Marin and Sonoma Counties - Reauthorization	averages of Marin and Sonoma sales					
	tax revenue as forecast by TAM and					
	SCTA Base Year: FY 2018-19	\$39.78	\$52.89	\$20.57	\$32.32	\$0.00
	Data Source: Each operator	\$59.76	\$52.69	\$20.57	\$32.32	\$0.00
Transit Fare Revenues	Growth Rate: Based on operators'					
	•					
	estimates Base Year: FY 2018-19	\$19.96	\$12.08	\$4.60	\$7.48	\$0.00
	Data Source: Each operator	Ψ.5.55	¥ . =.000	¥•	,	40.00
Transit Non-Fare Revenues	Growth Rate: Based on operators'					
	estimates					
	Estimates based on sales tax forecasts	\$12.58	\$20.16	\$8.03	\$12.13	\$0.00
	developed by county sales tax					
Transportation Development Act (TDA)	authorities (for Solano County is					
Transportation Development Act (TDA)	•					
	based on a ten year retrospective					
	analysis of actual TDA receipts)					
Local Total	Local Total	\$155.86	\$243.4	\$97.3	\$146.1	\$0.0

MTC Planning Committee with ABAG Administrative Committee December 13, 2019

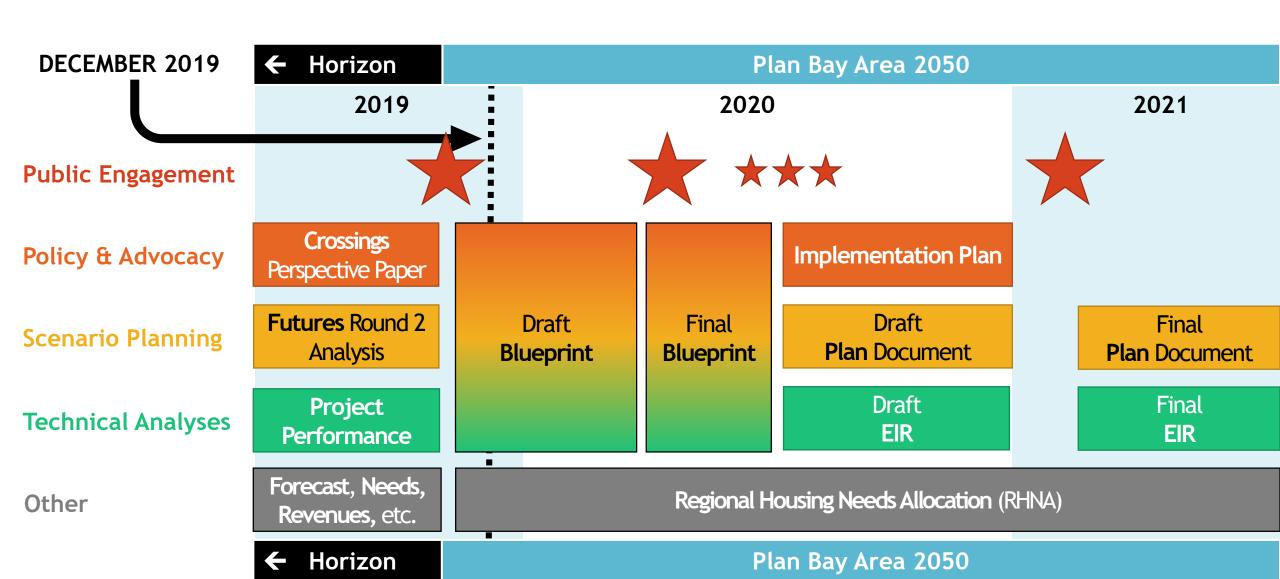
Attachment D
Appendix 1

Page <u>6 of 6</u>

Revenue Source	Plan Bay Area 2050 Revenue Assumptions	PBA 2040 (For Reference 24 Year Forecast)	Plan Bay Area 2050 Total Revenue	Revenue Bucket 1 FY 2021 - FY 2035	Revenue Bucket 2 FY 2036 - FY 2050	Revenue Bucket 3 Flexible Availability
ANTICIPATED/UNSPECIFIED						
	Growth Rate: 2.2%	\$14.00	\$23.48			\$23.48
Anticipated/Unspecified	Data Source: Retrospective analysis					
Anticipated/ onspecified	of a 15 year period (FY 2005-06 to FY					
	2019-20)					
Anticipated/Unspecified Total	Anticipated Total	\$14.00	\$23.5	\$0.0	\$0.0	\$23.5
OTHER/OPTIONAL NEW REVENUE						
	Assumes a 1% sales tax in all nine		\$72.77	\$24.91	\$47.87	\$0.00
	counties, starting in FY 2024-25.					
	Estimates based on sales tax forecasts					
Optional/Megameasure	developed by county sales tax					
	authorities (for Solano County is					
	based on a ten year retrospective					
	analysis of actual TDA receipts)					
	Revenue forecast will be updated	\$13.57	TBD	TBD	TBD	TBD
2020 Pallet Massures, Driging, and Tall Drainets	based on 2020 ballot measures and					
2020 Ballot Measures, Pricing, and Toll Projects	pricing and toll facility projects					
	included in Plan Bav Area 2050					
Other Total	Other Total	\$13.57	\$72.8	\$24.9	\$47.9	\$0.0
GRAND TOTAL without Optional	Grand Total without Megameasure	\$299.57	\$471.7	\$176.7	\$258.8	\$36.2
GRAND TOTAL with Optional	Grand Total with Megameasure	\$299.57	\$544.4	\$201.6	\$306.7	\$36.2



Plan Bay Area 2050 Schedule



Needs and Revenue: Objectives & Definitions

Objectives: to understand the unconstrained financial needs related to critical expenditure categories for Plan Bay Area 2050, as well as baseline available revenues.

What do we mean by "financial needs"?

- Transportation: investment needed to operate and maintain the existing (publicly owned) transportation system
- Resilience: investment needed to protect existing infrastructure and communities from hazards
- Housing: investment needed to ensure low-income households have an affordable housing option

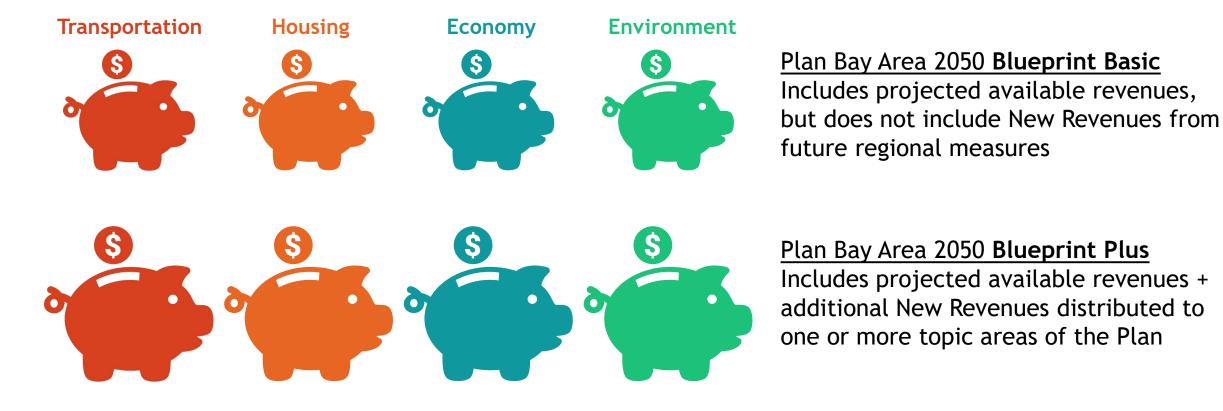
What do we mean by "baseline available revenues"?

 Revenue from local, regional, state, and federal sources that are reasonably expected to be available over the Plan period

Needs and Revenue: Scope of Work

- No assessment of baseline needs and revenue will capture everything. Not every critical investment is reflected here; for example, resilience investments go beyond preparing for sea level rise and earthquakes. That being said, we feel it is important to create a "version 1.0" for these critical topic areas.
- The future is uncertain. As explored in Horizon, future needs and revenues could be influenced by external forces beyond our control. Despite the uncertainty of the world today, we are doing our best to come up with a likely estimate based on information available today.
- Consistency is key. All needs and revenue data is shown in year-of-expenditure dollars with an escalation rate of 2.2%.

Needs and Revenue: The Role of "New Revenues"



This approach will provide more flexibility over the next year, should the MTC/ABAG boards wish to integrate new revenues to create a more aspirational Plan.

Either could be adopted as the Preferred Alternative in 2020 or 2021.



Transportation Needs Methodologies



- Local street & road and bridge maintenance needs were estimated using StreetSaver®, a pavement management system used by all Bay Area jurisdictions in combination with input and estimates from the 2018 California LSR Needs Assessment.
- Bicycle/pedestrian and other non-pavement infrastructure maintenance needs estimated using StreetSaver® and prediction models for accompanying local street and road infrastructure
- Regional bridge needs were estimated using the Bay Area Toll Authority's bridge maintenance, rehab, and replacement schedules and cost estimates.
- State highway and bridge needs were estimated using information for District 4 (San Francisco Bay Area) in Caltrans' 2019 State Highway System Management Plan and Fiscal Year 2019/20 Project Book.

Transportation Needs Methodologies



- Transit capital maintenance needs were developed using the Regional Transit Capital Inventory an inventory of every public transit asset in the region- and TermLite, a software that models the cost of replacing transit assets over time based on the assets' useful life. Assumes replacement of existing bus fleet with zero emission buses in compliance with CARB's Innovative Clean Transit Regulation. Assumes in-kind replacement, without major upgrade, of other assets.
- Transit operating needs are estimated using information provided by the region's public transit operators on the cost of maintaining today's current level of service (16.8 million service hours per year) over the Plan period.

Transportation Summary



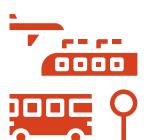
- \$426 billion to improve and maintain the system in a state of good repair
- \$392 billion to prevent further deterioration / maintain existing conditions

30-Year Transportation Operations and Capital Maintenance Needs (in billions of \$YOE)

	Local Streets, Roads,& Local Bridges	Regional Bridges	State Highway & Bridge	Transit Capital	Transit Operating	Total Operations and Capital Maintenance Needs
Maintain Existing Conditions	\$64.4	\$21.9	\$24.4	\$63.0	\$217.8	\$391.5
State of Good Repair	\$71.0	\$21.9	\$24.4	\$88.1	\$217.8	\$423.2

Note: Two condition scenarios could only be calculated for Local Streets, Roads, and Local Bridges, and Transit Capital

Looking Back at Plan Bay Area 2040



- PBA 2050 includes ten additional years at the back end of the Plan
- 33% increase in transit service hours in PBA 2050 (12.6 million hr/year to 16.8 million hr/year).
- 6% increase in annual need to maintain local streets, mostly due to higher material + labor costs
- Approx. \$10 billion (YOE\$) in additional transit capital assets added to regional inventory since PBA 2040

Transportation Operations and Capital Maintenance Needs (in billions of \$YOE) PBA 2050: 30-Years (2021-2050) | PBA 2040: 24-Years (2017-2040)

		Local Streets, Roads,& Local Bridges	Regional Bridges	State Highway & Bridge	Transit Capital	Transit Operating	Total Operations and Capital Maintenance Needs
Maintain	PBA 2050	\$64.4	\$21.9	\$24.4	\$63.0	\$217.8	\$391.5
Existing Conditions	PBA 2040	\$45.1	\$14.0	\$20.0	\$28.9	\$119.8	\$227.8
State of Good	PBA 2050	\$71.0	\$21.9	\$24.4	\$88.1	\$217.8	\$423.2
Repair	PBA 2040	\$51.1	\$14.0	\$20.0	\$47.0	\$119.8	\$251.9

Note: Two condition scenarios could only be calculated for Local Streets, Roads, and Local Bridges, and Transit Capital

Transportation Revenue

Key Revenue Assumptions

- Inflation = 2.2%
- Fuel price and consumption = CARB model (may change)
- Federal funds growth rate = 2% through FY 2029 and 3% thereafter
- Sales tax growth = Tied to sales tax authority provided assumptions

New to Revenue Forecast

- Revenue Buckets by time period
- New Revenues (Optional)



Transportation Revenue

Draft Plan Bay Area 2050 Revenue (in billions of Year of Expenditure \$)

Revenue Source	Total Revenue
Federal Funds	\$45.8
State Funds	\$91.9
Regional Funds	\$67.2
Local Funds	\$243.4
Anticipated	\$23.5
New Revenues	\$72.8
TOTAL without New Revenues	\$471.7
TOTAL with New Revenues	\$544.4

Note: Numbers may not sum not sum due to rounding.

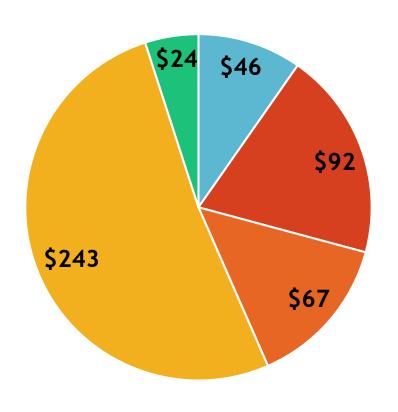


Transportation Revenue

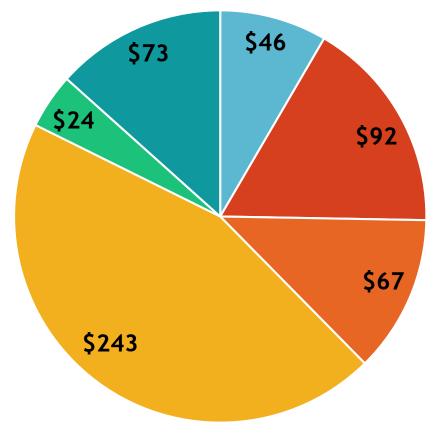
Draft Plan Bay Area 2050 Revenue (in billions of Year of Expenditure \$)







\$544 Billion Total with New Revenues



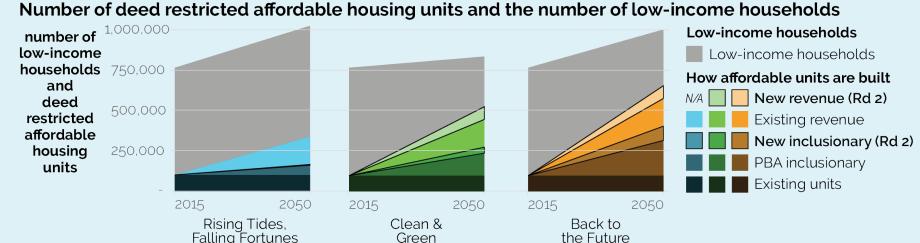
Affordable Housing Overview



- **Key caveat:** this is the first time MTC/ABAG has conducted a Needs & Revenue Assessment for affordable housing; we expect these draft estimates to be further refined this cycle and in future cycles of the long-range plan.
- **Goal:** identify the gap between existing affordable housing and future needs for low-income households, building upon work from the CASA effort.
- **Note:** low-income households are defined as those earning less than \$45,000, who are least likely to be served by market-rate development.



Futures Analysis Rounds 1 & 2



the Future

Green

analysis rounds

Affordable Housing Needs Methodology



- There are roughly 100,000 existing deed-restricted affordable housing units in the Bay Area today. (source: NPH/CHPC)
- As of 2020, we expect there will be approximately 766,000 low-income households* in the Bay Area - an existing gap** of 666,000 deed-restricted units.
- Between 2020 and 2050, we expect there will be an additional 70,000 low-income households added to the Bay Area* - yielding a combined gap of 736,000 deed-restricted units by 2050.
- A per-unit subsidy of \$450,000 which could come from a variety of different existing and future revenue sources - was assumed to estimate associated financial needs. (source: CASA)

^{*} The analysis uses the growth forecast for the Clean and Green Future from Horizon as a placeholder until the Draft Regional Forecast is released.

^{**} Assuming that all low-income households live in a deed-restricted unit by 2050.

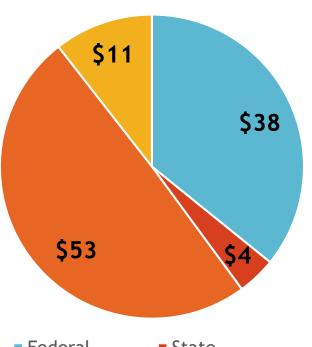
Affordable Hsg. Revenue Methodology



- Sources integrated into the affordable housing revenue forecast include:
 - Federal: Low-Income Housing Tax Credits, Housing Trust Fund, Section 8 Vouchers, Home Investment Partnership Program, Community Development Block Grants
 - State: Affordable Housing & Sustainable Communities Program, State Housing Bonds
 - Regional/Local: Bonds and Impact Fees; Transit-Oriented Affordable Housing Program; Bay Area Preservation Pilot (Does not include new revenue authorized by AB 1487)
 - Private-Sector: Inclusionary Zoning; Funding from Major Employers
- While most funding sources were estimated to grow at the rate of inflation, federal housing programs were estimated to grow more slowly (at a rate of one percent per year), given recent relative uncertainty about federal support in the decades ahead.
- Estimated affordable housing revenues total \$107 billion between 2021 and 2050, whereas estimated affordable housing needs total \$473 billion - a substantial funding gap that could be partially met through New Revenues to be generated on the state or regional levels.

Existing Housing Revenues

(in billions of \$YOE through 2050; DRAFT)





and 96% of

housina

impacts are mitigated.

2050

2040

Back to

the Future

Needs and Revenue

Resilience Overview



- **Key caveat:** this is the first time MTC/ABAG has conducted a Needs & Revenue Assessment for environmental resilience; we expect these draft estimates to be further refined this cycle and in future cycles of the longrange plan.
- Therefore, the Resilience Needs & Revenue Assessment focuses on two specific high-priority resilience issue areas:
 - **Sea Level Rise** (focus on protecting most of the region's shoreline through 2050)

100,000

50,000

residential units

on parcels with

sea level rise

inundation

Earthquakes (focus on residential buildings, given recent investments in transportation infrastructure)

Building Upon Work from...

2020 2030 2050 2040 2050 2030 2040 2030 Rising Tides, Clean Round 1 Falling Fortunes and Green Round 2 3 feet of sea level rise 1 foot of sea level rise Futures Analysis 2 feet of sea level rise Rounds 1 & 2

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

Resilience Needs Methodologies



Sea Level Rise (SLR)



- Strategies include both "gray infrastructure" (seawalls, levees, etc.) and "green infrastructure" (marsh restoration, etc.).
- Sea level rise protection height is based upon two feet of permanent inundation and one foot of temporary flooding from a storm. BCDC's ART Bay Shoreline Flood Explorer was used to identify areas of inundation.

Resilience Needs Methodologies



Earthquakes

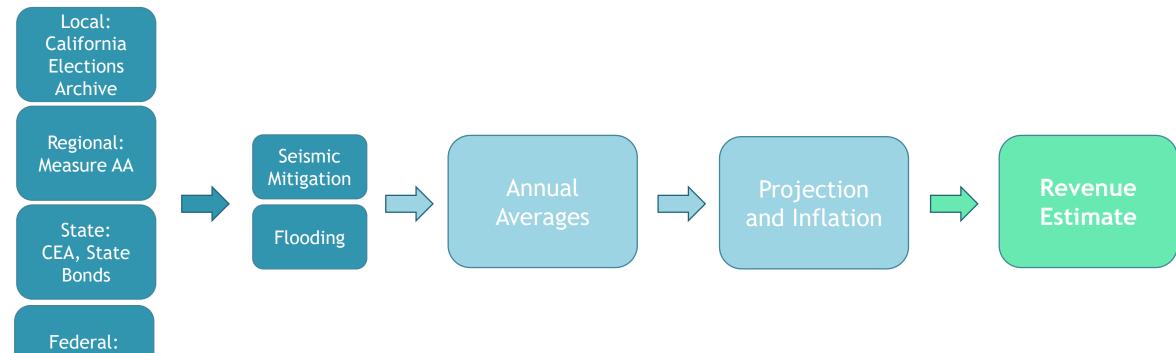


- No regional structural dataset is available, so high level estimates were created with existing building data. Estimates were determined by UrbanSim.
- Vulnerable types include structures with cripple walls, soft stories, and/or house/room over garage.

FEMA, USACE

Resilience Revenue Methodology



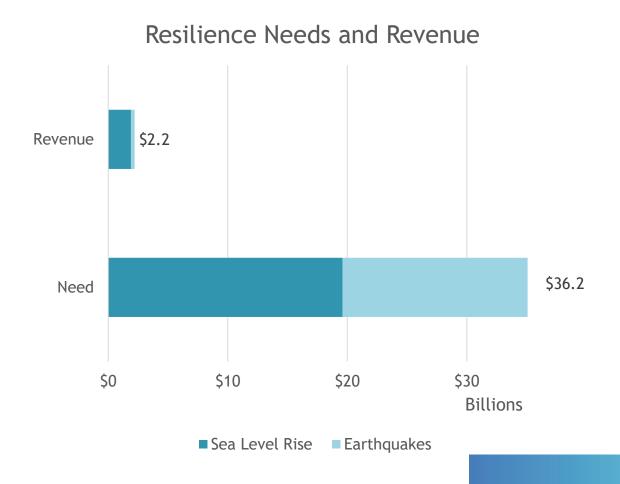


- Revenue sources are limited to only the most cohesive datasets.
- State revenues, including for CEA and state bonds, assume that the region sees a share of funding proportional to its population (~20%).

Resilience Summary



- There is a major gap between the needs and revenue for both earthquakes and sea level rise. An estimated \$34 billion is needed to close this gap through year 2050.
- Local and regional efforts will be critical to financing resilience. Measure AA, while modest, is projected to be one of the most significant funding sources for the region's Sea Level Rise effort. Furthermore, the region has a history of locally raising significant bond and tax initiatives for these risks.
- There are additional needs that are not able to be quantified at this time. For example, there remain seismic needs for certain infrastructure, sea level rise could cause more riverine flooding that's not captured, etc.



Category		All costs are in billions of YOE dollars		
		Anticipated Revenue ¹	Anticipated Needs	Anticipated Gap
	Public Transit Operations	\$472 billion	\$218 billion	N/A
	Public Transit State of Good Repair ²		\$88 billion	
	Local Streets & Bridges State of Good Repair ²		\$71 billion	
	Highways State of Good Repair		\$24 billion	
	Bridges State of Good Repair		\$22 billion	
	Affordable Housing ³	\$107 billion	\$473 billion	\$365 billion
	Sea Level Rise Adaptation	\$2 billion	\$20 billion	\$18 billion
	Seismic Mitigation ⁴	<\$1 billion	\$17 billion	\$17 billion
TOTAL		\$581 billion	\$933 billion	

Technical Footnotes:

- 1. Revenue column aligns with Blueprint Basic, which does not include New Revenues for transportation, housing, or resilience.
- 2. Need reflects funding to get to an ideal state of good repair, rather than simply maintaining existing conditions.
- 3. Need reflects funding to provide deed-restricted affordable housing to all low-income households by year 2050.
- 4. Need is focused solely on residential buildings.

Metropolitan Transportation Commission

375 Beale Street, Suite 800 San Francisco, CA 94105

Legislation Details (With Text)

File #: 19-1337 Version: 1 Name:

Type: Report Status: Informational

File created: 11/11/2019 In control: Policy Advisory Council

On agenda: 12/11/2019 Final action:

Title: Staff Liaison Report

(5 minutes)

Relevant MTC policy decisions and other activities.

Sponsors:

Indexes:

Code sections:

Attachments: 08 Staff Liaison Report Dec 2019.pdf

Date Ver. Action By Action Result

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

December 11, 2019

Agenda Item 8

Staff Liaison Report – December 2019

Stail Liaison Report December 2015

Subject: Relevant MTC policy decisions and other activities.

Recommendation: Information

Attachments: Attachment A: Staff Liaison Report – December 2019



METROPOLITAN TRANSPORTATION COMMISSION

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

Agenda Item 8

Memorandum

TO: Policy Advisory Council DATE: December 11, 2019

FR: Marti Paschal, Staff Liaison W.I. 1114

RE: <u>Staff Liaison Report – December 2019</u>

MTC Opens Window for Public Comment on Amendments to Express Lane Toll Policy

MTC will open its new I-880 Express Lanes in the summer of 2020. Express Lanes use tolling and technology to keep traffic moving for carpoolers, bus riders and solo drivers alike. The toll system is being installed now, and testing will begin in spring 2020.

Before tolling starts, MTC's Bay Area Infrastructure Financing Authority (BAIFA) affiliate must adopt rules for how tolling will work. For the I-880 Express Lanes, Caltrans already has determined that the hours of operation will be from 5 a.m. to 8 p.m., Monday through Friday; and that high-occupancy vehicle (HOV) eligibility will be three or more persons per vehicle.

BAIFA proposes to amend its existing Toll Facility Ordinance, which establishes tolls, penalties and toll evasion policies in the context of Caltrans hours of operation and HOV policies, to:

- 1. Set tolling rules for the new I-880 Express Lanes, including a minimum toll of 50 cents per toll zone and scaled tolls where carpools with three or more people pay no toll; two-person carpools and clean air vehicles pay half-price tolls; and solo drivers pay the full toll; and
- 2. Update tolling rules for the existing I-680 Contra Costa Express Lanes, including a minimum toll of 50 cents per toll zone and half-price tolls for clean air vehicles beginning when the I-880 Express Lanes open.

All vehicles in the Express Lanes will be required to have FasTrak®, and all vehicles eligible for toll-free travel or half-price tolls must use a properly set and mounted FasTrak Flex® toll tag. Vehicles without FasTrak® are subject to toll violations for the cost of the toll plus penalties. Read BAIFA's proposed Toll Facility Ordinance Amendment for more details.

Bay Area commuters have many ways to learn about and comment on BAIFA's proposed tolling rules:

- Learn more about the proposed Toll Facility Ordinance Amendment by watching a <u>five-minute</u> online open house video and then submit comments through a <u>short online survey</u>. The online comment window will be open from November 18th through December 18th
- Send comments by mail to the MTC's Public Information Office at 375 Beale Street, Suite 800, San Francisco, CA 94105 or via email at info@bayareametro.gov by December 18th
- Leave a comment in person at the Public Hearing:

Wednesday, December 18, 2019 at 9:30 a.m. Bay Area Metro Center, 1st Floor, Board Room 375 Beale Street, San Francisco, CA 94105

All comments must be received by December 18, 2019 to be considered, and will be summarized for BAIFA Commissioners prior to an adoption vote on January 22, 2020.

Bay Area Streets and Roads Deliver Smoother Ride as Cities, Counties Put Gas Tax Dollars to Work

Bay Area cities and counties largely improved the quality of the pavement on their local street and road networks in 2018. Data released in November by MTC show the region's nearly 43,500 lane-miles of local streets and roads registered an average pavement condition index (PCI) score of 67 out of a maximum possible 100 points last year, as calculated on a three-year moving average basis. This marks the third year in a row that the regional average has reached 67 points. With more state dollars flowing to cities' and counties' pavement programs after the November 2017 start of the Senate Bill 1 fuel tax increases, the Bay Area's one-year average PCI score for 2018 ticked up one point to 68.

PCI scores of 90 or higher are considered "excellent." These are newly built or resurfaced streets that show little or no distress. Pavement with a PCI score in the 80 to 89 range is considered "very good," and shows only slight or moderate distress, requiring primarily preventive maintenance. The "good" category ranges from 70 to 79, while streets with PCI scores in the "fair" (60-69) range are becoming worn to the point where rehabilitation may be needed to prevent rapid deterioration. Because major repairs cost five to 10 times more than routine maintenance, these streets are at an especially critical stage. Roadways with PCI scores of 50 to 59 are deemed "at-risk," while those with PCI scores of 25 to 49 are considered "poor." These roads require major rehabilitation or reconstruction. Pavement with a PCI score below 25 is considered "failed." Among the region's three largest cities, San Francisco last year climbed higher into the "good" category by raising its three-year moving average score from 70 to 72, while San Jose (65) and Oakland (54) remained in the "fair" and "at-risk" classifications, respectively.

Dublin once again topped the list of Bay Area pavement rankings for the 2016-18 period, reporting an average PCI score of 86. Other cities with three-year PCI scores in the "very good" range include Clayton and Palo Alto (84); Daly City and El Cerrito (83); Brentwood (82); Cupertino, Foster City and unincorporated Solano County (81); and Colma, San Ramon and Union City (80).

The lowest-ranked pavement in the Bay Area was found in Petaluma, which recorded a PCI score of 45 for 2016-18. The only other jurisdiction with a three-year average PCI score in the "poor" range is Larkspur (46). But the Marin County city's one-year PCI score for 2018 climbed eight points to 54, ranking among the biggest year-over-year increases of any Bay Area city. Larkspur's city government has made pavement maintenance a top priority, and voters in recent years have twice approved local sales tax measures dedicated to rehabilitating the city's 65 lane-miles of local streets.

MTC's Local Streets and Roads Committee later this year will recognize the Contra Costa County city of Clayton for having the best overall pavement management program of any Bay Area jurisdiction; the cities of Cupertino, Dublin and Palo Alto for their high PCI scores year after year; and the Marin County city of Mill Valley for the biggest one-year PCI increase in the region. Mill Valley last year raised its one-year score by 13 points to 73 from 60 in 2017.

The complete 2018 Pavement Conditions Summary — including percentages of local roadways in various conditions, and a listing of average PCI scores for the arterials, collector roadways and residential streets for all Bay Area counties and cities — may be accessed https://www.vitalsigns.mtc.ca.gov/street-pavement-condition provides even more detailed information on pavement conditions in each of the Bay Area's nine counties and 101 cities, including both block-by-block analyses and a record of every municipality's average PCI score for each year from 2003 through 2018.

Bimla Gill Rhinehart Honored with New Yerba Buena Island Public Access Pier

More than 100 people turned out for the dedication of a public access pier adjacent to Yerba Buena Island named in honor of Bimla Gill Rhinehart. Rhinehart served as the California Transportation Commission's member on the Metropolitan Transportation Commission's Toll Bridge Program Oversight Committee before passing in 2013. Last December, that committee voted unanimously to recognize her with the naming. On Monday, October 28, 2019, the boardwalk was formally dedicated to her.

"When Bimla joined the committee she was an incredible breath of fresh air," said Steve Heminger, former MTC executive director, who was on hand to dedicate the boardwalk. It was Heminger who came up with the idea to name the boardwalk after her. "This will be a wonderful way to remember Bimla, her achievements and her life."

Rhinehart earned Bachelor of Science degrees in finance and accounting from California State University, Chico, and later attended graduate school at the University of California, Davis. She had more than 20 years of experience with Caltrans, where she began working in 1986. While at Caltrans District 4 in the Bay Area, she built a highly successful career while earning the friendship and admiration of everyone she came in contact with.

Colleagues remembered Rhinehart as a quiet leader who could bring all sides together to move a project forward. Her can-do spirit, kind disposition and grace, and intelligent and professional approach to challenges endure in the memories of everyone who knew her.

The Bimla Rhinehart Vista Point sits atop Pier E2 of the original east span, which for 77 years supported the western side of the east span's cantilever section. It is furnished with a 30-foot communal table, amphitheater seating, bike racks and flexible performance spaces for community gatherings and events. Views from the Vista Point look out to San Francisco Bay, Port of Oakland, and the self-anchored suspension span of the new east span. The pier will be open only on weekends until next spring, then daily.

Executive Director's Report

The following items are excerpts from the November 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.

Transit Funding - Correction to State Financial Reporting.

I wanted to call attention to some excellent staff work by William (Bill) Bacon, Programming & Allocations Section, whose close attention to detail helped save millions of dollars in Bay Area transit funding this year. Bill identified a reporting issue related to State Transit Assistance (STA) funding affecting SFMTA and VTA and worked closely with those agencies and the State Controller's Office (SCO) to help correct it. Going forward, the risk of funding cuts resulting from financial reporting problems should be minimized as the SCO has committed to making improvements to its online form for STA funding and providing training to transit agencies.

Visit by Congressman Rodney Davis - November 4, 2019.

The Ranking Member of the U.S. House of Representatives Transportation & Infrastructure Subcommittee on Highways & Transit — the committee with jurisdiction over crafting the federal surface transportation bill — joined us for a targeted transportation infrastructure tour on November 4th. Vice Chair Pedroza hosted, accompanied by Executive Director McMillan and staff from MTC/BATA and the TransBay Joint Powers Authority. There was a tour of the Salesforce Transit Center and Yerba Buena pier. Thanks also to AC Transit staff for assisting with transport service. Topics discussed included federal reauthorization, freight policy, project delivery, and the Bay Area's ability to financially partner on a plethora of large projects.

Caltrans Summit on the Summit – November 5, 2019.

Alix Bockelman and Andy Fremier attended this event in Livermore, co-hosted by Caltrans Districts 4 and 10. It was a convening of state and regional executives to discuss multimodal transportation issues, challenges, and opportunities for making improvements on the I-580 corridor from Oakland to Stockton.

New CT Director Adetokunbo "Toks" Omishakin Bay Area Visit: November 15, 2019.

MTC hosted the new Caltrans Director, who hails from Tennessee where he was the deputy commissioner for environment and planning at the Tennessee Department of Transportation. The nine County Transportation Agencies were also invited and presented projects of interest to the Director. MTC outlined several of the key initiatives facing the region, including Plan Bay Area 2050, upcoming state discretionary programming, and our Express Lane program. We look forward to a productive partnership with the Director and our colleagues at District 4.

Mega Region Working Group - Leadership meeting: November 15, 2019.

Chair Haggerty and Commissioner Spering convened Board leadership from MTC, the Sacramento Area Council of Governments (SACOG) and the San Joaquin Council of Governments (SJCOG) to discuss a restart of this interregional forum. Also present were the Chair of the SJCOG Board of Directors & Vice-Mayor of Lodi Doug Kuehne, as well as Vice Chair of SACOG, City of Davis Councilmember Lucas Frerichs. The three agency executive directors suggested a suite of future actions including regional planning reform proposals, financial coordination for projects of mutual interest, and joint advocacy at the state and federal level on topics of mutual interest.

Richmond San Rafael Bridge Bike Path Opening November 16, 2019.

After roughly five years of planning, the bicycle path on the Richmond San Rafael Bridge opened with the support and presence of hundreds of enthusiastic users, from pedestrians and bikes, to unicycles, wheelchairs and many alternative wheels in between. Chair Scott Haggerty and Commissioner Amy Worth represented MTC among a host of local elected officials. This segment is a major connection of the Bay Trail and will provide a critical link in the bridge corridor. As promised, MTC staff will be closely monitoring and reporting on use of the path.

Metropolitan Transportation Commission

375 Beale Street, Suite 800 San Francisco, CA 94105

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(10 minutes)

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

Sponsors:

Indexes:

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Date Ver. Action By Action Result

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Council Member Reports (10 minutes)

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Presenter:

Randi Kinman, Council Chair

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Metropolitan Transportation Commission

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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: