

Meeting Agenda - Final

Bay Area Regional Collaborative

	Chair, Amy Worth, Mayor, City of Or	inda
Vice 0	Chair, Jesse Arreguin, Mayor, City of	fBerkeley
Friday, September 17, 2021 10:05 AM Board Room - 1st Floor (REMOTE)		

In light of Governor Newsom's State of Emergency declaration regarding the COVID-19 outbreak and in accordance with Executive Order N-29-20 issued by Governor Newsom on March 17, 2020 and the Guidance for Gatherings issued by the California Department of Public Health, the meeting will be conducted via webcast, teleconference, and Zoom for committee, commission, or board members who will participate in the meeting from individual remote locations. A Zoom panelist link for meeting participants will be sent separately to committee members.

The meeting webcast will be available at:

https://barc.ca.gov/whats-happening/meetings/live-webcasts Members of the public may participate by phone or Zoom or may submit comments by email at info@bayareametro.gov by 5:00 p.m. the day before the scheduled meeting date. Please include the committee or board meeting name in the subject line. Due to the current circumstances there may be limited opportunity to address comments during the meeting. All comments received will be submitted into the record. Please click the link below to join the webinar:

https://bayareametro.zoom.us/j/81345923374

Or One tap mobile :

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Or Telephone:

Dial(for higher quality, dial a number based on your current location): US: +1 408 638 0968 or +1 669 900 6833 or +1 253 215 8782 or +1 346 248 7799 or +1 646 876 9923 or +1 301 715 8592 or +1 312 626 6799 or 877 853 5247 (Toll Free) or 888 788 0099 (Toll Free) or 833 548 0276 (Toll Free) or 833 548 0282 (Toll Free) Webinar ID: 813 4592 3374

International numbers available: https://bayareametro.zoom.us/u/keLw0blXJ

Detailed instructions on participating via Zoom are available at: https://abag.ca.gov/zoom-information

Committee members and members of the public participating by Zoom wishing to speak should use the "raise hand" feature or dial "*9". In order to get the full Zoom experience, please make sure your application is up to date. The BARC Governing Board may act on any item on the agenda. The meeting is scheduled to begin at 10:05 a.m. Agenda, roster, and webcast available at https://barc.ca.gov For information, contact Clerk of the Board at (415) 778-5218.

Governing Board Members ABAG—Jesse Arreguin, David Rabbitt, Belia Ramos BAAQMD—Teresa Barrett, David Haubert, David Hudson, Mark Ross BCDC—John Gioia, Dave Pine, Brad Wagenknecht, Zack Wasserman MTC—Cindy Chavez, Alfredo Pedroza, Jim Spering, Amy Worth CalSTA (Non-voting) Dina El-Tawansy

1. Call to Order / Roll Call / Confirm Quorum

2. Governing Board Member Announcements

3. Chair's Report

3.a	21-1061	BARC Governing Board Chair's Report for September 17, 2021
	Action:	Information
	<u>Presenter:</u>	Amy Worth

4. Consent Calendar

4.a	<u>21-1062</u>	Approval of BARC Governing Board Minutes of July 2021
	Action:	Approval
	Presenter:	Clerk
	<u>Attachments:</u>	BARC GB Minutes 20210716 Draft.pdf

5. 2022 BARC Governing Board Meeting Schedule

5.a	<u>21-1063</u>	Adopt 2022 BARC Governing Board Schedule	
	Action:	Approval	
	<u>Presenter:</u>	Amy Worth	
	<u>Attachments:</u>	2022 BARC Governing Board Proposed Meeting Schedule.pdf	

6. BARC Member Agency Executive Director Updates

6.a	21-1064	San Francisco Bay Conservation and Development Commission for	
		September 17, 2021	
	<u>Action:</u>	Information	
	<u>Presenter:</u>	Larry Goldzband	

6.b	21-1065	Bay Area Air Quality Management District
	Action:	Information
	<u>Presenter:</u>	Jack Broadbent
6.c	21-1066	Association of Bay Area Governments and Metropolitan Transportation Commission
	<u>Action:</u>	Information
	<u>Presenter:</u>	Therese W. McMillan
6.d	21-1067	San Francisco Bay Regional Water Quality Control Board
6.d	21-1067 <u>Action:</u>	San Francisco Bay Regional Water Quality Control Board
6.d		
6.d 6.e	Action:	Information
	<u>Action:</u> <u>Presenter:</u>	Information Michael Montgomery

7. Executive Director's Report

7.a	<u>21-1068</u>	Approval of BARC Joint Resolution to Address to Climate Change	
	Action:	Action	
	Presenter:	Allison Brooks	
	<u>Attachments:</u>	7a Memo on BARC Resolution on Climate Change.pdf	
		7b BARC Joint Climate Resolution.pdf	

8. Joint Resolution on Bay Adapt: Regional Strategy for a Rising Bay

8.a	<u>21-1201</u>	Approval of Joint Resolution on Bay Adapt: Regional Strategy for A Rising Bay
	<u>Action:</u>	Action
	<u>Presenter:</u>	Jessica Fain, Bay Conservation and Development Commission
	Attachments:	8a BARC Joint Resolution on Bay Adapt.pdf
		8b BayAdapt_Government_Exec Summary_ADA_082721[68].pdf
		8c BayAdapt JointPlatform Report ADA 082721.pdf

9. State Legislative Update

9.a	<u>21-1069</u>	Report on State Legislative Update	
	Action:	Information	
	<u>Presenter:</u>	Rebecca Long, MTC/ABAG Alan Abbs, Bay Area Air Quality Management District	
	Attachments:	9a Budget Update - BARC Governing Board Meeting.pdf	
		9b Resilience Funding Presentation to BARC.pdf	

10. Public Comment

11. Adjournment/Next Meeting

The next meeting of the Bay Area Regional Collaborative will be held Friday November 19, 2021 at 10:05 a.m.

The Governing Board may take action on any item listed in the agenda.

This meeting is scheduled to end promptly at 12:00 p.m. Agenda items not considered by that time may be deferred.

The public is encouraged to comment on agenda items by completing a request-to-speak card and giving it to BARC staff or the chairperson.

Although a quorum of the Governing Board may be in attendance at this meeting, the Governing Board may take action only on those matters delegated to it. The Governing Board may not take any action as the Bay Area Regional Collaborative Governing Board unless this meeting has been previously noticed as a Bay Area Regional Collaborative Governing Board meeting.

		•	olitan Transportation Commission	375 Be San F
ative		Legisla	tion Details (With Text)	
	21-1062	Version: 1	Name:	

Status:

In control:

On agenda: 9/17/2021 Final action: Title: Approval of BARC Governing Board Minutes of July 2021 Sponsors: Indexes: Code sections: Code sections: Attachments: BARC GB Minutes 20210716 Draft.pdf Date Ver. Action By Action Result

Consent

Bay Area Regional Collaborative

Subject:

Approval of BARC Governing Board Minutes of July 2021

Presenter:

Clerk

Recommended Action:

Approval



File #: Type:

File created:

Minutes

8/3/2021



Meeting Minutes - Draft

Bay Area Regional Collaborative

	Chair, Amy Worth, Mayor, City of Orin	da	
Vi	ce Chair, Jesse Arreguin, Mayor, City of E	Berkeley	
Friday, July 16, 2021 10:05 AM Board Room - 1st Floor (REMOTE)			

In light of Governor Newsom's State of Emergency declaration regarding the COVID-19 outbreak and in accordance with Executive Order N-29-20 issued by Governor Newsom on March 17, 2020 and the Guidance for Gatherings issued by the California Department of Public Health, the meeting will be conducted via webcast, teleconference, and Zoom for committee, commission, or board members who will participate in the meeting from individual remote locations. A Zoom panelist link for meeting participants will be sent separately to committee members.

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https://bayareametro.zoom.us/j/83732140239

Or One tap mobile :

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375 Beale Street Suite 700 San Francisco, California

94105

The BARC Governing Board may act on any item on the agenda. The meeting is scheduled to begin at 10:05 a.m. Agenda, roster, and webcast available at https://barc.ca.gov For information, contact Clerk of the Board at (415) 778-5218.

Governing Board Members ABAG—Jesse Arreguin, David Rabbitt, Belia Ramos BAAQMD—Teresa Barrett, David Haubert, David Hudson, Mark Ross BCDC—John Gioia, Dave Pine, Brad Wagenknecht, Zack Wasserman MTC—Cindy Chavez, Alfredo Pedroza, Jim Spering, Amy Worth CalSTA (Non-voting) Dina El-Tawansy

1. Call to Order/ Roll Call / Confirm Quorum

Chair Worth called the meeting to order at about 10:06 a.m. Quorum was present.

- Present: 10 Arreguin, Barrett, Gioia, Hudson, Rabbitt, Ross, Spering, Wagenknecht, Wasserman, and Worth
- Absent: 5 Chavez, Haubert, Pedroza, Pine, and Ramos

2. Governing Board Member Announcements

There were no Governing Board Announcements

3. Chair's Report

Chair Worth gave the report

3.a 21-0893 BARC Governing Board Chair's Report for July 16, 2021

4. Consent Calendar

This motion was approved unanimously.

- Aye: 10 Arreguin, Barrett, Gioia, Hudson, Rabbitt, Ross, Spering, Wagenknecht, Wasserman and Worth
- Absent: 5 Chavez, Haubert, Pedroza, Pine and Ramos
- 4.a <u>21-0894</u> Approval of BARC Governing Board Minutes of May 21, 2021

5. BARC Executive Director Updates

5.a <u>21-0895</u> San Francisco Bay Regional Water Quality Control Board for July 16, 2021
 Michael Montgomery gave the report

5.b	<u>21-0899</u>	San Francisco Bay Conservation and Development Commission
		Larry Goldzband gave the report
5.c	<u>21-0896</u>	Bay Area Air Quality Management District
		Veronica Eady gave the report
5.d	<u>21-0897</u>	Association of Bay Area Governments and Metropolitan Transportation Commission
		Therese W. McMillan gave the report
5.e	<u>21-0898</u>	California State Coastal Conservancy
		Amy Hutzel was not present, there was no report

6. BARC Executive Director's Report

6.a <u>21-0900</u> BARC Executive Director's Report

Allison Brooks gave the report

7. BayAdapt and Climate Adaptation Governance

 7.a
 21-0916
 Report on BayAdapt and Climate Adaptation Governance

 Jessican Fain gave the report

8. Public Comment

There was no public comment

9. Adjournment/Next Meeting

Chair Worth adjourned the meeting at 11:54 a.m. The next meeting of the BARC Governing Board will be Friday September 17th, 2021

Metropolitan Transportation						
Commission						

Legislation Details (With Text)

File #:	21-106	63	Version:	1	Name:		
Туре:	Action	Item			Status:	Consent	
File created:	8/3/20	21			In control:	Bay Area Regional Collaborative	
On agenda:	9/17/2	021			Final action:		
Title:	Adopt 2022 BARC Governing Board Schedule						
Sponsors:							
Indexes:							
Code sections:							
Attachments:	2022 BARC Governing Board Proposed Meeting Schedule.pdf						
Date	Ver.	Action By			Act	ion	Result

Subject:

Bay Area

Regional Collaborative

Adopt 2022 BARC Governing Board Schedule

Presenter:

Amy Worth

Recommended Action:

Approval



2022 BARC Governing Board Proposed Meeting Schedule

Below are the proposed 2022 meeting dates for the BARC Governing Board. All meetings will be held at 10:05 am-12:05 pm Pacific Time.

Friday, January 21, 2022

Friday, March 18, 2022

Friday, May 20, 2022

Friday, July 15, 2022

Friday, September 16, 2022

Friday, November 18, 2022

Metropolitan Transportation Commission

Legislation Details (With Text)

File #:	21-10	068	Version:	1	Name:		
Туре:	Actio	n Item			Status:	Consent	
File created:	8/3/2	021			In control:	Bay Area Regional Collaborative	
On agenda:	9/17/2	2021			Final action:		
Title:	Approval of BARC Joint Resolution to Address to Climate Change						
Sponsors:							
Indexes:							
Code sections:							
Attachments:	7a Memo on BARC Resolution on Climate Change.pdf						
	7b BARC Joint Climate Resolution.pdf						
Date	Ver.	Action By			Actio	n	Result

Subject:

Bay Area Regional

Collaborative

Approval of BARC Joint Resolution to Address to Climate Change

Presenter:

Allison Brooks

Recommended Action:

Action



DATE: September 17, 2021

TO: BARC Governing Board

FROM: Allison Brooks, BARC Executive Director

RE: BARC Joint Resolution to Address Climate Change

At its last meeting on July 16, 2021, the BARC Governing Board recommended that BARC staff bring forth a resolution that represents a joint commitment by the BARC member agencies to work together to address the climate change crisis with the sense of urgency it deserves. The *Joint Resolution to Address Climate Change* brought forward for BARC Governing Board approval at today's meeting, developed through input and guidance from member agency leadership, serves to illustrate such a commitment. If approved, the *Joint Resolution to Address Climate Change* will direct BARC staff to work with our member agencies to create a Shared Work Plan, aligned with agency budgeting cycles, that will advance strategic, coordinated implementation of some of the highest-priority actions identified in the key regional agency plans and platforms over the next one to five years.

Not merely a symbolic commitment to coordination, or a repackaging of existing agency plans, the *Joint Resolution to Address Climate Change* will serve as a catalyst for more aligned and efficient regional action. In this way, the resolution advances the key guiding principles included in the strategic plan developed and approved by the BARC Governing Board in 2015. These principles are:

- BARC anticipates, identifies, and solves nascent and long-term crosscutting regional issues.
- BARC reaches across jurisdictional boundaries to maximize resources and develop effective public policy.
- BARC improves coordination and communication between the regional agencies and the Bay Area's cities, counties, transit agencies, and special districts creating greater efficiencies, delivering desired outcomes, and providing better service.
- Each BARC member agency retains its autonomy and voluntarily makes and implements Regional Collaborative agreements.
- BARC agrees to create alignment and efficiency, adding value to each agency's functions, for each policy issue that it tackles.
- The regional focus that BARC provides informs Board member decision-making in all positions of responsibility.

As a companion to the *Joint Resolution to Address Climate Change*, the San Francisco Bay Conservation and Development Commission (BCDC) has requested the BARC Governing Board approve the *Joint Resolution on Bay Adapt: A Regional Strategy for a Rising Bay*. This resolution represents an endorsement of the Bay Adapt Joint Platform by BARC and a commitment by the BARC member agencies to help support and implement, where appropriate, the actions identified in the Platform, whether individually or collectively. The *BARC Joint Resolution to Address Climate Change*, with its Shared Work Plan, would be an important vehicle to help advance the actions identified in the Bay Adapt Joint Platform.

In conclusion, BARC staff hereby request that the Governing Board approve both the *BARC Joint Resolution to Address Climate Change* and the *Joint Resolution on Bay Adapt: A Regional Strategy for a Rising Bay.* If approved, the resolutions brought forth today would set in motion important work by BARC staff and member agencies to elevate our response to climate change.



Joint Resolution to Address Climate Change September 17, 2021

WHEREAS, according to the recent United Nations Sixth Assessment Report of the Intergovernmental Panel on Climate Change (IPCC), catastrophic climate change impacts, including extreme droughts, severe heat waves and flooding, will continue to worsen for at least the next 30 years across the globe, while global sea levels will continue to rise at least for centuries¹; and

WHEREAS, the increasingly frequent and severe impacts of climate change in the Bay Area do not conform to jurisdictional boundaries or the planning and regulatory authorities of any one agency or organization, and are creating overlapping risks to public health and safety that necessitate an integrated approach to air pollution mitigation and climate resilience; and

WHEREAS, scientific estimates project that California could experience as much as seven feet of sea level rise by the end of the century², with the San Francisco Bay estimated to experience two-thirds of the flood impacts projected for the state³; and

WHEREAS, increasingly frequent and severe wildfires are creating air quality impacts that represent a public health crisis for Bay Area residents, while undermining progress on reducing greenhouse gas emissions. In 2020, wildfires released an estimated 112 million metric tons of CO_2 into the atmosphere⁴; and

WHEREAS, warming temperatures and prolonged drought increasingly stress the Bay's estuarine ecosystem and the ecological processes that it supports, while threatening the water supplies of communities around the region and throughout the state; and

WHEREAS, the Bay Area region's most socioeconomically vulnerable frontline communities are at great risk of exposure to climate threats and have limited access to the resources needed to reduce risks and increase the resilience necessary to recover from disasters; and

WHEREAS, by practicing an advanced form of coordination and strategic integration across the planning, investments, and regulatory activities of its member agencies, BARC aims to measurably and equitably improve the resilience, adaptive capacity,

¹ Intergovernmental Panel on Climate Change. (2021, August). *Climate Change 2021: Summary for Policymakers*. https://www.ipcc.ch/report/ar6/wg1/downloads/report/IPCC_AR6_WGI_SPM.pdf ² California Legislative Analyst's office. (2020, August). *What Threat Does Sea-Level Rise Pose to*

California? https://lao.ca.gov/Publications/Report/4261#California_Will_Experience_Rising_Seas_and_Tides ³ Barnard, P.L., Erikson, L.H., Foxgrover, A.C. *et al.* Dynamic flood modeling essential to assess the

coastal impacts of climate change. Sci Rep 9, 4309 (2019). https://doi.org/10.1038/s41598-019-40742-z

⁴ California Air Resources Board. (2021). *Frequently Asked Questions: Wildfire Emissions*. https://ww2.arb.ca.gov/resources/documents/frequently-asked-questions-wildfire-emissio

health and safety of Bay Area people and communities, our ecology and environment, economy and critical infrastructure; and

WHEREAS, BARC member agencies are working individually and collaboratively to reduce emissions of greenhouse gases and harmful air pollutants through regulation, transportation and land use planning, community outreach, direct funding and investments, and incentive programs, recognizing the need to meet ambitious regional and state climate targets, including an overarching statewide goal of reaching carbon neutrality by 2045; and

WHEREAS, BARC member agencies must work in close partnership with local governments and stakeholders, providing the resources, technical support, and guidance to advance actions at the local level focused particularly on helping frontline communities mitigate and adapt to the impacts of climate change; and

WHEREAS, the regional and state agencies that comprise BARC create and update ambitious plans – most required through state law- to adapt to and mitigate the effects of climate change for multiple hazards, and to develop and enforce regulations that preserve the integrity of the region's environmental quality. These planning and regulatory responsibilities include, but are not limited to:

The Association of Bay Area Governments (ABAG) and the Metropolitan **Transportation Commission**, through Plan Bay Area, set long-term priorities for the region's transportation system, housing, economy, and environment through a suite of actions and investments.

The Bay Area Air Quality Management District (BAAQMD), through its Clean Air Plan and its regulatory authority, reduces the emissions of greenhouse gases and harmful air pollutants through a variety of control measures and incentive programs across sectors.

The Bay Conservation and Development Commission (BCDC) through the Bay Adapt Joint Platform, a voluntary, consensus-driven strategy for regional sea level rise adaptation, lays out a set of guiding principles and actions that will allow the region to adapt faster, better, and more equitably to a rising San Francisco Bay; furthermore, BCDC regulates dredging, filling and shoreline land use in the Bay pursuant to its Bay Plan, while helping to protect wetlands and increase public access to the Bay shoreline.

Caltrans District 4 owns and manages core assets of the region's transportation network and distributes critical funding that enables regions and local governments across California to mitigate and adapt to climate change.

The California State Coastal Conservancy protects and preserves natural lands and waterways along California's coast, including the nine-county Bay

Area, by providing technical assistance and grant funding to develop and support projects within its jurisdiction, while advancing statewide resource plans.

The San Francisco Bay Area Regional Water Quality Control Board protects and enhances the region's water quality and drinking water supply through planning, permitting and enforcement activities that regulate surface water and groundwater quality in the region, pursuant to its Water Quality Control Plan, known as the Basin Plan; and

WHEREAS, the BARC member agencies will work together to strategically align planning and regulatory actions in order to accelerate the implementation of strategies that advance climate mitigation and adaptation goals. These include reducing mobile and point source carbon emissions, encouraging investments in housing and transportation that reduce climate risks and make the region more connected and affordable for all, and investing in climate adaptation strategies that make people and places more resilient, while prioritizing nature-based approaches where appropriate; and

WHEREAS, by establishing a structured framework for action, BARC and its member agencies can serve as a critical regional network that aligns and integrates resources, capacities, and areas of expertise to help the Bay Area region mitigate and adapt to climate change at the scale necessary, and with the sense of urgency the climate crisis demands.

NOW THEREFORE, BE IT RESOLVED BY THE BARC GOVERNING BOARD IN CLOSE CONSULTATION WITH THE EXECUTIVE LEADERSHIP OF THE BARC MEMBER AGENCIES:

The BARC Governing Board commits to advancing the level of strategic coordination and collaboration necessary across BARC member agencies to meet the goals outlined in each agency's regional plans, including, but not limited to, the Bay Adapt Joint Platform, Plan Bay Area, the Clean Air Plan, the Basin Plan, the Bay Plan, the Estuary Blueprint, and the Baylands Goals Report.

To achieve this goal, BARC Member Agencies will jointly develop a Shared Work Plan – a framework for aligning regional authorities, capacities, and expertise – with the assistance of BARC staff.

The Shared Work Plan will focus on delivering specific high-priority regional climate mitigation and adaptation goals outlined in each agency's plans, identifying actions that necessitate the active involvement and investment of multiple agencies, and helps orient priority actions taken on by member agencies into a larger suite of strategies making up a coordinated, coherent approach. The Shared Work Plan will call for the participating agencies to commit and align staff resources, synchronize planning and regulatory actions, develop tools for measuring and evaluating progress and provide regular progress reports.

The Shared Work Plan will include, at a minimum:

- Actions that advance specific climate mitigation and adaptation goals outlined in regional plans that would benefit from enhanced coordination across agencies, with a focus on those identified as a high priority for implementation over the next 1 to 5 years. These actions shall be structured in a way that maximize agency expertise, break down silos, and help avoid duplication of existing agency efforts.
- 2. A commitment to devote appropriate resources and staff time in the next fiscal year, as feasible, to advance the actions identified in the Shared Work Plan, acknowledging that some actions will require ongoing efforts over multiple years.
- 3. A commitment to work in collaboration to advance joint policy positions on state and federal legislation, with the goal of advancing legislation that provides funding and support for the region, local jurisdictions, and special districts.
- 4. A commitment to social equity, working across member agencies to support and partner with frontline communities to strengthen adaptive capacity and resilience.
- 5. A commitment to developing an integrated technical assistance program, in partnership with local governments, to support needed climate actions at the local level. This program is contingent upon having the appropriate level of funding in place.
- 6. Key metrics for monitoring and evaluating progress on the actions included in the Shared Work Plan.

Upon approval of this resolution, BARC staff will work with BARC member agencies to establish a reasonable timeline for the development of the Shared Work Plan, with the overall goal of completing it by January 2022. This timeline would enable the Shared Work Plan to effectively support the actions identified in Plan Bay Area 2050, Bay Adapt and other efforts that are scheduled for final adoption in late 2021. Furthermore, the Shared Work Plan should be completed in time to inform the fiscal year 2022-23 budgeting processes of BARC and BARC Member Agencies. A similar timeline shall be applied to future fiscal years. The BARC Governing Board will receive an annual report on Shared Work Plan progress.

Bay Area Regional Collaborative

Metropolitan Transportation Commission

Legislation Details (With Text)

File #:	21-1201	Version: 1	Name:			
Туре:	Action Item		Status:	Consent		
File created:	9/10/2021		In control:	Bay Area Regional Collaborative		
On agenda:	9/17/2021		Final action:			
Title:	Approval of Joint Resolution on Bay Adapt: Regional Strategy for A Rising Bay					
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Date	Ver. Action By		Actio	n	Result	

Subject:

Approval of Joint Resolution on Bay Adapt: Regional Strategy for A Rising Bay

Presenter:

Jessica Fain, Bay Conservation and Development Commission **Recommended Action:**

Action



Joint Resolution on Bay Adapt: Regional Strategy for A Rising Bay September 17, 2021

WHEREAS, scientific estimates forecast that climate change will alter key factors that contribute to shoreline flooding and inundation, including rising sea levels and groundwater, storm frequency and intensity, and the coincidence of intense winter storms, extreme high tides, and high runoff, in combination with higher sea levels, will increase the frequency and duration of shoreline flooding long before areas are permanently inundated by sea level rise alone¹; and

WHEREAS, rising sea levels could lead to as much as ten feet of sea level rise by the end of the century². A major storm within the next decade could result in temporary flooding impacts to 13,000 existing housing units and 70,000 planned housing units, 28,000 socially vulnerable residents, 104,000 existing jobs and 85,000 planned jobs, and 20,000 acres of wetlands habitat, which may become permanent within 40 years; and

WHEREAS, the San Francisco Bay shoreline is approximately one-third of the California coastline, but is estimated to experience two-thirds of the negative economic impacts due to the flooding that would occur absent adequate adaptation and protection³; and

WHEREAS, important shoreline development, public infrastructure, and facilities such as neighborhoods, commercial centers, airports, seaports, regional transportation facilities, landfills, contaminated lands, and wastewater treatment facilities, are at risk of flood damage that could require costly repairs or result in the interruption or loss of vital services or degraded environmental quality; and

WHEREAS, the Bay Area region's most socioeconomically vulnerable frontline communities are at the greatest risk of exposure to climate threats, and the impacts of historic and ongoing social and economic marginalization may compound risks posed by flooding to communities by reducing a community's or individual's ability to prepare for, respond to, or recover from a flood event; and

WHEREAS, the Bay ecosystem is already stressed by human activities that lower its adaptive capacity, and climate change will further alter that ecosystem by inundating or eroding wetlands, changing sediment dynamics, altering species composition, raising the acidity of Bay waters, changing freshwater flows and/or salinity, altering the food

¹ San Francisco Bay Plan, Climate Change Finding d. <u>San Francisco Bay Plan (ca.gov)</u>

² California Ocean Protection Council Sea Level Rise Guidance (2018), H++ extreme risk adverse scenario. <u>State of California Sea-Level Rise Guidance</u>

³ Barnard, P.L., Erikson, L.H., Foxgrover, A.C. *et al.* Dynamic flood modeling essential to assess the coastal impacts of climate change. *Sci Rep* **9**, 4309 (2019). https://doi.org/10.1038/s41598-019-40742-z



web, and impairing water quality. Moreover, further loss of tidal wetlands will increase the risk of shoreline flooding;⁴ and

WHEREAS, there are multiple local, state, federal, and regional government agencies with authority over the Bay and its shoreline, and while local governments have broad authority over shoreline land use, they have very limited resources to address climate change adaptation; and

WHEREAS, the increasingly frequent and severe impacts of climate change in the Bay Area do not conform to jurisdictional boundaries or the planning and regulatory authorities of any one agency or organization; and

WHEREAS, in October 2011, following a lengthy public process, the San Francisco Bay Conservation and Development Commission (BCDC) voted to amend the San Francisco Bay Plan to include Climate Change policies that state that the "Commission, in collaboration with the Joint Policy Committee [now known as Bay Area Regional Collaborative (BARC)], other regional, state and federal agencies, local governments, and the general public, should formulate a regional sea level rise adaptation strategy for protecting critical developed shoreline areas and natural ecosystems, enhancing the resilience of Bay and shoreline systems and increasing their adaptive capacity"⁵; and

WHEREAS, in 2019, BCDC, in collaboration with a Leadership Advisory Group comprised of over 30 Bay Area public, private, and non-profit leaders, embarked on the development of Bay Adapt, a consensus-driven strategy for regional sea level rise adaptation. Executive leadership from the majority of BARC agencies participated in the development of the Bay Adapt Joint Platform through the Leadership Advisory Group, including Association of Bay Area Governments/Metropolitan Transportation Commission, BCDC, San Francisco Bay Regional Water Quality Control Board, State Coastal Conservancy, Caltrans, and BARC. The Leadership Advisory Group also includes representatives from environmental justice, environmental, business, scientific and civic organizations; local, state, and federal agencies; and, academia; and

WHEREAS, in 2020 and 2021, hundreds of stakeholders participated in the creation of the Bay Adapt Joint Platform, including nine Leadership Advisory Group meetings, two public forums, many expert Working Group meetings, ten community and local government focus groups, over 50 presentations around the region, and a public feedback opportunity. The BARC Governing Board also received briefings on Bay Adapt in September 2000 and July 2021; and

WHEREAS, the draft Bay Adapt Joint Platform lays out a set of guiding principles, priority actions, and tasks that will allow the region to adapt faster, better, and more equitably to a rising San Francisco Bay. If implemented, it will reduce flood risks for communities, businesses, infrastructure, and habitat; protect natural areas and wildlife;

⁴ San Francisco Bay Plan, Climate Change Finding m.

⁵ San Francisco Bay Plan, Climate Change Policy 6.



robustly integrate adaptation into community-focused local plans; recognize and equitably support low-income, frontline communities; accelerate permitting and project construction; increase technical assistance for local governments and funding for adaptation; and

WHEREAS, the Bay Adapt Leadership Advisory Group unanimously recommended that the Joint Platform move forward toward implementation at its June 2021 meeting; and

WHEREAS, implementing Bay Adapt goes beyond the capacity of any single agency or entity, and requires broad leadership and participation, and the leadership by the BARC member agencies will be paramount to its success; and

WHEREAS, Plan Bay Area 2050, the region's Sustainable Communities Strategy pursuant to SB 375, makes major inroads into incorporating sea level rise into the plan. The Bay Adapt Joint Platform aligns with Plan Bay Area 2050 and can be viewed as a more fine-grained implementation scheme of Plan Bay Area's "Adapt to Sea Level Rise" strategy; and

WHEREAS, the Bay Area Regional Collaborative (BARC) is a consortium of member agencies that come together to address crosscutting issues of regional significance, with the ultimate goal of improving the quality of life for all Bay Area residents, with climate resilience as its primary focus area.

NOW, THEREFORE, BE IT RESOLVED BY THE BARC GOVERNING BOARD IN CLOSE CONSULTATION WITH THE EXECUTIVE LEADERSHIP OF THE BARC MEMBER AGENCIES:

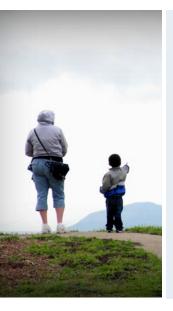
- 1. The BARC Governing Board endorses the draft Bay Adapt Joint Platform, a regional strategy for a rising Bay, including its guiding principles, actions and tasks contained within; and,
- 2. Through the BARC Governing Board's endorsement of a Joint Resolution to Address Climate Change that supports the development of a Shared Work Plan, the Member Agencies of BARC will support and help implement the Bay Adapt Joint Platform individually and collectively.

The Bay is Rising

The time to come together to act is now.

Sea level rise is no longer a distant threat and the San Francisco Bay Area stands to be one of the hardest hit places in North America. It's past time for us to get ready.

As we walk the dog along our favorite waterfront, the waves don't seem any taller. As we wait in traffic at the Bay Bridge toll plaza, the water level looks the same as ever. But the Bay has already started rising onto our highways and streets during storms. Another foot or two will seriously impact our homes, jobs, habitats, and safety. The San Francisco Bay Area has an enormous amount at stake—and an unprecedented opportunity to address these risks.



At risk of flooding in the next 40 years

28,000 socially vulnerable residents

13,000 existing housing units and

another **70,000** new housing units

104,000 existing jobs and another **85,000** new jobs

20,000 acres of wetlands, lagoon and tidal marsh habitat

5 million daily highway vehicle trips

60,000 daily rail commuters

Impacts from flooding that could occur at 48" Total Water Level from the <u>ART Bay Area</u> <u>Regional Sea Level Rise Vulnerability and Adaptation Study.</u> 48" TWL may occur between 2060 and 2100.

Why shared solutions?

- Sea level rise will impact everyone in the Bay Area, no matter where you live.
- A regional problem requires regional solutions.
- Flooding know no boundaries and doesn't care about jurisdictional lines.
- Solutions should center on the most vulnerable people and environments.
- Bay Adapt is building regional consensus to address our strengths and weaknesses, enabling us to respond faster, better and together.
- Only with strong local and regional actions can we ensure the safety and welfare of all the Bay Area.



The Joint Platform: A regional strategy for a rising Bay

Bay Adapt established regional agreement on the actions necessary to protect the Bay Area's people and natural and built environments from sea level rise.

Bay Adapt is convened by the San Francisco Bay Conservation and Development Commission, a state agency, in partnership with a broad range of Bay Area leaders.

Through dozens of expert working groups, public forums, ten community and stakeholder focus groups, over 50 presentations, an environmental justice caucus, and led by a Leadership Advisory Group—hundreds of people from across the Bay came together to achieve a consensusdriven strategy and regional agreement on a path forward. Rather than identifying specific projects, the Joint Platform lays out guiding principles and region-wide actions and tasks to achieve **faster**, **better**, and **more equitable adaptation** to a rising Bay. It will result in:

- **Reduced flood** risk for communities, businesses, infrastructure, and habitats.
- Protection of natural areas and wildlife.
- Robust integration of adaptation into community-focused local plans.
- Recognition and equitable support for low income communities.
- Accelerated permitting and project construction.
- Technical assistance for local governments.
- More funding for adaptation.



Guiding Principles

- Support socially vulnerable communities
- Put nature first whenever possible
- Solve interconnected problems at the same time
- Practice inclusive, community-led governance and decision-making
- Support existing efforts but plan for the long term
- Pick the right strategy for the right place at the right time

Working together as one region to preserve what we care about.

The Bay Area's cultural and environmental diversity is what makes it an incredible place to live. The impacts of sea level rise, and the resources necessary to address them, are unequal across the Bay Area. Healthy Bay ecosystems are inextricably linked to our quality of life — and are also our first line of defense from rising seas. This is why all nine actions in the Joint Platform emphasize achieving equitable outcomes to improve the lives of people, the quality of our environment, and a thriving economy for all.

Nobody can solve these challenges alone. Bay Adapt has been working with partners across the region to integrate and embed Joint Platform actions into existing regional plans and practices. MTC/ ABAG's Plan Bay Area 2050, set to be adopted in 2021, now incorporates multiple hazards, including sea level rise. The Estuary Blueprint, a map for regional actions on the health and resilience of Bay ecosystems, is also aligning with Bay Adapt actions. We need everyone to come together to help us collectively create a resilient Bay Area region.

The Joint Platform 9 actions, 21 tasks, 1 region moving forward together

PEOPLE



Action 1: Collaborate on a "One Bay" vision to adapt to rising sea levels.

Task 1.1: Create a long-term regional vision rooted in communities, bay habitats, and the economy. Task 1.2: Lay the foundation for a proactive regional legislative agenda.

Action 2: Elevate communities to lead.

Task 2.1: Improve how communities and public agencies learn from each other and work together.

Task 2.2: Fund the participation and leadership of community-based organizations (CBOs) and frontline communities in adaptation planning.

INFORMATION



Action 3: Broaden public understanding of climate change science and impacts.

Task 3.1: Tell local and regional stories about people and places adapting to climate change. Task 3.2: Weave climate literacy into school programs.



Action 4: Base plans and projects on the best science, data, and knowledge.

Task 4.1: Align research and monitoring with information gaps.

- Task 4.2: Make scientific data, information, and guidance easier to use.
- Task 4.3: Increase access to technical consultants for local adaptation partners.



Action 5: Align local and regional plans into a unified adaptation approach.

Task 5.1: Provide incentives for robust, coordinated adaptation plans. Task 5.2: Align state-mandated planning processes around adaptation.

Action 6: Figure out how to fund adaptation.

Task 6.1: Expand understanding of the financial costs and revenues associated with regional adaptation.

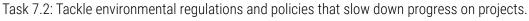
Task 6.2: Establish a framework for funding plans and projects.

Task 6.3: Help cities and counties expand ways to fund adaptation planning and projects.

PROJECTS

Action 7: Refine and accelerate regulatory approvals processes.

Task 7.1: Accelerate permitting for equitable, multi-benefit projects.



Action 8: Fund and facilitate faster adaptation projects.

- Task 8.1: Incentivize projects that meet regional guidelines.
- Task 8.2: Encourage collaboration among people doing projects in the same places.
- Task 8.3: Facilitate faster construction of nature-based projects.

PROGRESS

Action 9: Track and report progress to guide future actions.



Task 9.1: Measure regional progress using metrics and share results. Task 9.2: Monitor and learn from pilot projects.

3



What can you do?

The draft Joint Platform is now ready

for you! Examine the opportunities it can provide to help us decide what to do next. We're all in this together.

For local leaders

- Share the Joint Platform with your staff and colleagues and identify which actions you'd like support for implementation.
- Provide feedback on the Joint Platform using our <u>online form</u> or email us at BayAdapt@bcdc.ca.gov
- ☑ Write a letter of support for the Bay Adapt Joint Platform to help us advocate for regional implementation.

For the interested public

- Learn more and provide feedback on the 40-page, easy-to-read
 Joint Platform. Where can the Joint Platform help?
- Understand your community's vulnerability by using online tools such as the <u>ART Shoreline Flood</u>
 <u>Explorer</u> for exploring risks of flooding in your area
- ☑ Talk to your community about resilience and preparing for climate change.

Read the Joint Platform, provide feedback through our online form or email us at BayAdapt@bcdc.ca.gov, and learn more at

www.BayAdapt.org

Leadership Advisory Group

Ana Alvarez, East Bay Regional Parks Tessa Beach, Ph.D., US Army Corps of Engineers David Behar, SF Public Utilities Commission/ Bay Area Climate Adaptation Network (BayCAN) John Bourgeois, Valley Water/ CHARG Allison Brooks, Bay Area Regional Collaborative Amanda-Brown Stevens, Greenbelt Alliance Paul Campos, Building Industry Association Warner Chabot, San Francisco Estuary Institute John Coleman, Bay Planning Coalition Dina El-Tawansy, Caltrans District 4 Tian Feng, BART Julio Garcia, Environmental Justice Caucus Member Ms. Margaret Gordon, West Oakland Indicators Project Terrie Green, Shore Up Marin City Alicia John-Baptiste, SPUR Melissa Jones, Bay Area Regional Health Inequities Initiative (BARHII) David Lewis, Save the Bay Mark Lubell, UC Davis Therese McMillan, MTC / ABAG Mike Mielke, Silicon Valley Leadership Group Michael Montgomery, SF Regional Water Quality Control Board Barry Nelson, BCDC Sheridan Noelani Enomoto, NorCal Resilience Network David Pine, San Mateo County/ San Francisco Bay **Restoration Authority** Erika Powell, US Army Corp Bruce Riordan, Bay Area Climate Adaptation Network (BayCAN) Amy Hutzel, State Coastal Conservancy Caitlin Sweeney, San Francisco Estuary Partnership Laura Tam, Resources Legacy Fund Will Travis, Independent Consultant Zack Wasserman, BCDC Jim Wunderman, Bay Area Council

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BAY ADA 2 **Regional Strategy for A Rising Bay** August 2021 JOINT PLATFORM





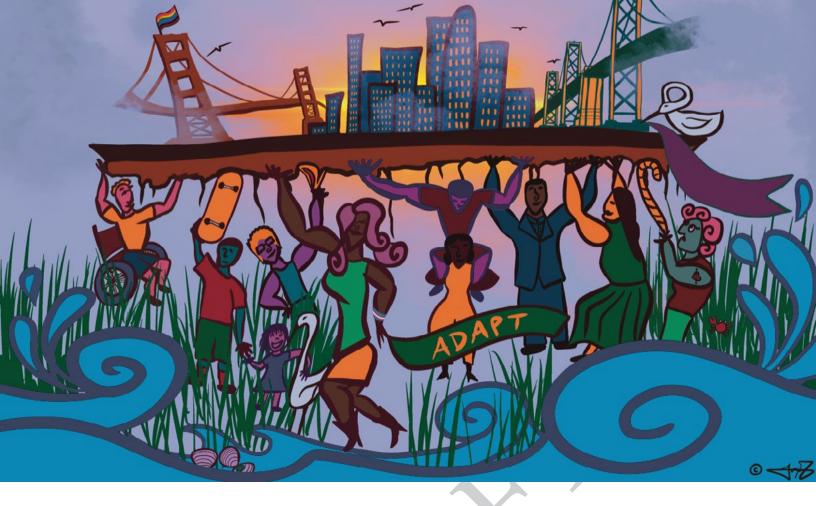
DRAFT Joint Platform







August 2021



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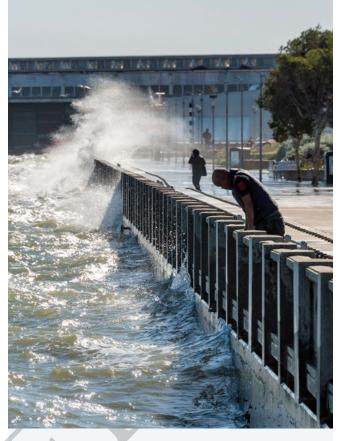
Getting ready for sea level rise

The Bay is rising. The time to come together to act is now.

For most of the eight million of us who live around San Francisco Bay, sea level rise seems like a sleeper issue. As we walk the dog along our favorite waterfront, the waves don't seem any taller. As we wait in traffic at the Bay Bridge toll plaza, the water level looks the same as ever. After a storm, however, those trying to traverse Corte Madera's Lucky Drive, Sonoma's Highway 37, or San Jose's 237 underpass are noticing more water. Sea level rise is already here and starting to affect our highways and commutes; another foot or two will seriously impact our homes, jobs and safety.

It's subtle, but the Bay, fed by a swelling Pacific and melting glaciers and ice sheets, is growing faster than you think. The rise is slow and steady now, but around 2040 scientists project it will speed up. By then, in the time it will take a current pre-schooler to graduate from college, it will be too late to start to prepare for the water that will be rising onto our airport runways and into our shoreline streets. And though you can't see it, the groundwater table is also rising under your feet – pushed up as the Bay pushes in. Before long a big storm—like the train of atmospheric river events that drenched us over and over in 2017—will bring water into our basements and BART stations, onto our bridge approaches, even to our ballparks.

Going into another California drought and devastatingly dry fire season, it's easy to push sea level rise to the back of our minds. But the San Francisco Bay Area metropolitan region stands to be one of the hardest hit coastal areas in North America. Sea level rise will be worse here than other places for a variety of reasons relating to our unique ocean conditions, atmospheric changes, and Pacific geography—and the fact that we've built our roads and homes right up to the edge of nearly every shore. We've done the studies - we know what's at risk when it comes to our people, our homes, our habitats, and our commutes. The threat is no longer vague. It's past time for us to get ready.



At Risk of Flooding by 2060

28,000 socially vulnerable residents

13,000 existing housing units and another 70,000 new housing units

104,000 existing jobs and another 85,000 new jobs

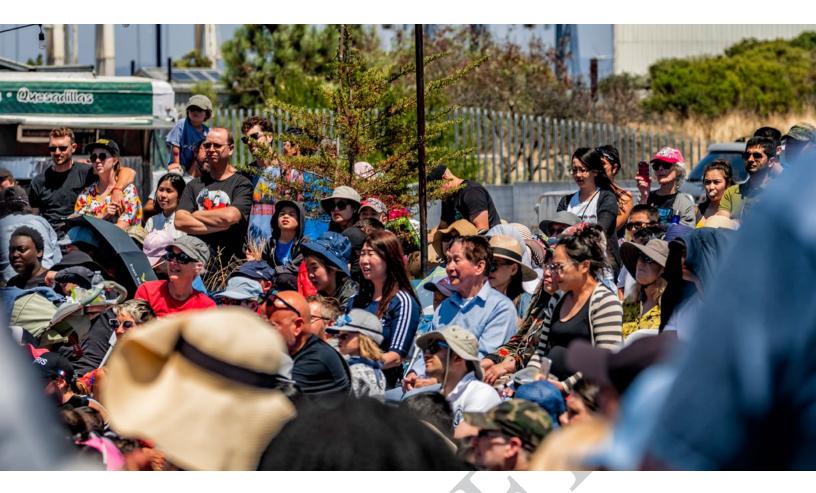
20,000 acres of **wetlands**, lagoon and tidal marsh habitat

5 million daily highway vehicle trips

60,000 daily rail commuters

Impacts from flooding that could occur at 48" Total Water Level from the <u>ART Bay Area Regional Sea Level Rise</u>. <u>Vulnerability and Adaptation Study</u>. According to California State Guidance, under the H++ scenario, which represents the highest risk and least likely scenario, sea level rise could reach 46.8" by 2060, which corresponds to ART's 48" TWL scenario. Under the Likely Range, or Low-Risk Aversion high-emissions scenario, 48" of sea level rise will not occur until 2120.

Photo courtesy of the King Tides Project.



Community members enjoy the waterfront at Heron's Head park in San Francisco. Photo by the Port of San Francisco licensed under CC BY 2.0.

Preparing for the flooding, erosion, disruptions and losses to come - whether our home, business, commute, or favorite picnic area - is something we all have to do together. Whatever the best local solution, we have to consider our neighbors. If well-todo waterfront towns build sea walls, the Bay will just find the next weak spots on the shore and flow there. That town next door may have a smaller tax base or more elderly or vulnerable residents. If we leave them unprotected, families will be forced to move away from their homes, schools and places of worship - their communities - sometimes with no place else to go. Waiting for the aftermath of this slow-moving disaster will just cost the region more later in emergency services, habitat loss, building repairs, and lost family time and productivity.

Many of our families came to this region for its freedoms, natural beauty, diverse cultures and myriad opportunities. Over the decades we've grown even more diverse, and ever more activist as we battle to save our local creek, or stop devastating air pollution, or fight for equity. We're restoring wetlands around the Bay, and taxing ourselves to do it, enhancing a natural first line of defense against flooding. So as we face down the advancing Bay we don't have to start As we face down the advancing Bay we don't have to start from scratch. Your city, your county, your regional government is already working on it. Now it's time for everyone to join the effort.

from scratch. Your city, your county, your regional government is already working on it. Now it's time for everyone to join the effort.

There's no way around the need to think and plan like a region - the water that's coming knows no boundaries. Space for solutions is limited. Together, we can adapt to the increasingly scary checklist of challenges to the Bay Area. But we won't get this done, and minimize the cost we pay in damage to lives and property, if we don't act now, together.

Sea level rise as an equity challenge

Tackling disproportionate impacts on vulnerable communities.

While everyone will feel the impacts of sea level rise to some degree, many factors have led to disproportionate flooding and sea level rise vulnerability for low-income communities across the Bay Area and the nation. A 2019 study by the National Academy of Sciences on Urban Flooding in the US revealed the populations that are most vulnerable to flooding are nonwhite, nonnative English speakers, elderly, poor, chronically ill, uninsured and renters.

While it is broadly accepted that environmental racism has been an overarching theme for civilizations throughout history, it is critical to understand the patterns of racial injustice that formed today's cities and towns. After Emancipation, white decision-makers forced African Americans into undesirable areas that experienced frequent flooding, unhealthy air, and unsanitary water and sewerage conditions. Industry and chemical plants were regularly constructed close to predominantly Black neighborhoods, which led to high rates of cancer within these communities. In the Bay Area, this often meant pushing nonwhite communities to the marginalized Bay shoreline. These discriminatory and deadly practices continued for several decades.

Residents of these communities have often attended countless public meetings and focus groups to discuss concerns in their communities with engineers, planners, and other government staff, but these professionals are Equity is the fair and just distribution of financial and institutional resources to address impacts across communities that stand to be adversely affected by those impacts, and commitment to include those communities in the development, prioritization, and implementation of adaptation policies, programs, and services.

Definition of equity provided by West Oakland Environmental Indicators Project and the Pacific Institute.



Community members participating in the Oakland Shoreline Leadership Academy. Photo by Jordan Greedy.

JOINT PLATFORM



Working *with* and listening *to* community voices.

Recognizing the critical importance of community voices and perspectives on the development of the Joint Platform, the Bay Adapt team partnered with Nuestra Casa in East Palo Alto and Vallejo Housing Justice Coalition in Vallejo to conduct a series of community focus groups. Community members were introduced to flooding issues specific to their communities and invited to share their experiences, concerns, and priorities for their communities.

In East Palo Alto, community voices were represented by African American, Pacific Islander, and Latinx cohorts, while in Vallejo, community voices were represented by residents involved in a range of local organizations such as housing, climate change, environmental justice, and others. Bay Adapt recognizes that these community meetings provided an essential first step in building trust with communities, and that continued participation and partnerships must continue to occur to advance equitable adaptation outcomes for the region. Nuestra Casa's Parent Academy provides programs for community members and has begun environmental justice community trainings. Screenshot courtesy of Nuestra Casa.

We know we need action, but we're not ready and we don't know what to do. We need to get to solutions.

> - East Palo Alto Community Member

rarely trained or experienced in equitable community engagement. Historically, attempts to inform meaningful solutions for environmental justice problems have been met with lack of accountability by local and regional agencies, leading to high levels of distrust between communities and governments.

The cumulative impact of underinvestment coupled with lack of government accountability over the decades has led to an extremely disproportionate and inequitable situation for the residents of these communities. This cycle adds insult to the daily injury of living in marginalized space and is exhausting to communities that are already struggling to meet their daily needs.

A landmark moment for the environmental justice movement occured in 1994, when President Clinton signed Executive Order 12898, a federal action to address environmental justice and included a formalized definition (the definition can be found in BCDC's report <u>Toward Equitable Shorelines:</u> <u>Environmental Justice and Social Equity at the San</u> <u>Francisco Bay</u>). This definition underpins the ethos that should be imbued in any sea level rise planning process or solution.

What is Bay Adapt?

A regional strategy for a rising bay.

Adapting to sea level rise will require a broad range of planning, policy, community, and project decisions that promote the protection of people, infrastructure, and natural systems. In such a diverse and engaged region, adaptation will also require balancing many interests and needs, ranging from the health of the most vulnerable residents and the Bay ecosystem to local economic growth and jobs, services, housing, and recreational opportunities.

Much adaptation will and should occur at the local city or county levels, where adaptation planning is already accelerating. However, we live in a highly networked region where impacts in one area, and responses to them, have cascading effects around the Bay. A coordinated approach across the region can reduce unintended consequences and greatly enhance local efforts. Collective action can be expedited by shared goals that help communities find and enact their own solutions. No one agency, jurisdiction or community can or should go it alone.

For the past five years, the Bay Area has been thinking about this problem in earnest. Forward-thinking planners, scientists and activists have already laid some important groundwork, and pinpointed the areas and communities that will be most at risk. Since 2019, Bay Adapt has worked to establish regional agreement on the actions necessary to protect people and the natural and built environments from rising sea levels.

Bay Adapt was convened by the San Francisco Bay Conservation and Development Commission (BCDC), a state agency, in partnership with a broad range of Bay Area leaders. The principles, actions, goals, and tasks in this document—a Joint Platform for adaptation—were developed in close collaboration among BCDC staff, a large Leadership Advisory Group, and hundreds of stakeholders.

We envision a Bay Area that is resilient and adaptive far into the future. As the region grows and changes, such resilience can only be achieved by supporting collaborative action, fostering greater equity among residents, and sustaining the unique ecosystems we all rely upon and thrive within.

Co-creating the Joint Platform.

In 2019, BCDC convened a Leadership Advisory Group (LAG) made up of a diverse group of Bay Area leaders from public agencies, interest groups, community-based organizations, and academia. Throughout 2020 and 2021, stakeholders participated in dozens of working group and small committee meetings to discuss and shape the Platform. The Platform was also informed by one public forum, ten community and stakeholder focus groups, over 50 presentations to boards and groups around the region, and an Environmental Justice Caucus convened regularly throughout the process. In other words, this platform, and the ideas in it, belong to everyone, and seek to serve everyone, now and into the future.

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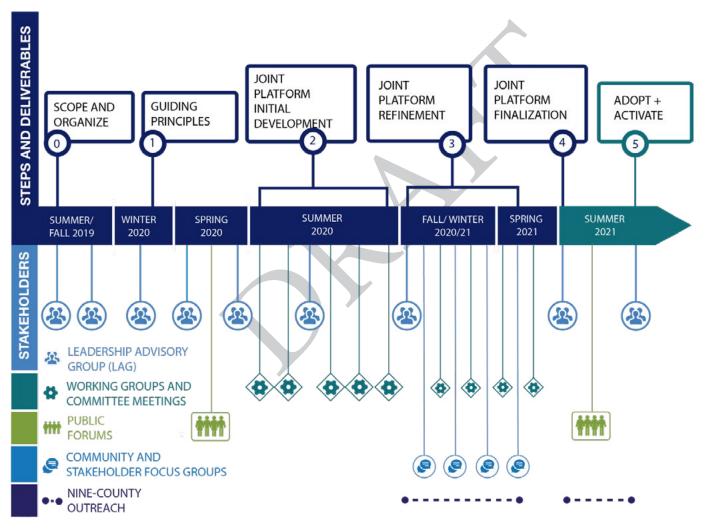


Figure 2 | The Bay Adapt process kicked off in late summer 2019. The development of the Joint Platform started in early summer 2020, convening hundreds of stakeholders to brainstorm and refine the series of actions and tasks laid out in the final Joint Platform. Over this time period, Bay Adapt also facilitated multiple working groups, committee meetings, public forums, community and stakeholder focus groups, and conducted extensive outreach throughout the nine-county Bay Area. Implementation begins in early fall 2021.



Community forums on sea level rise risks in East Palo Alto. Photo by Jaclyn Mandoske, BCDC.

Prioritizing and elevating equity in Bay Adapt.

In an effort to ensure equity perspectives were present and included in the leadership of Bay Adapt, invitations were extended to at least five environmental justicefocused organizations to join the LAG, comprising the Environmental Justice (EJ) Caucus. The EJ Caucus received a small honorarium for their participation.

The EJ Caucus kicked off by providinh a training to the LAG on EJ principles. During this training, LAG members explored how to embed principles on environmental justice, equity and inclusion into Bay Adapt's planning process, the Joint Platform, and in implementation. EJ Caucus members also provided leadership to working groups and met with BCDC's Environmental Justice Manager to provide input and feedback before and after each LAG meeting.

However, all of the equity practices and benefits outlined in the Joint Platform will not be achieved if the agencies and other stakeholders implementing the actions don't fundamentally change their practices to explicitly ensure that equity is front and center. Agencies and stakeholders need to deeply understand the factors that have led to inequity and commit to ongoing training to learn and improve a new essential set of skills and work directly with EJ communities in order to achieve equity benefits.

Without this commitment, the region will continue to repeat the same inequities as our predecessors. Bay Adapt is an opportunity to set a new, more equitable course for climate adaptation. Two critical themes emerged during discussions with the EJ Caucus and other community leaders:

 The need for fair and equitable funding for community partners, including targeted
 employment and economic opportunities for diverse frontline community members; and

 Capacity building, administrative support, and technical training and assistance are essential to realizing truly equitable adaptation planning.

Setting the foundation for the Joint Platform.

Rather than specifying individual projects, the Joint Platform lays out guiding principles that inform overarching region-wide actions, goals and tasks. Its aim is to overcome barriers, accelerate keys to success, and share targets to help the region achieve:

- Flood protection and reduced flood risk for communities, businesses, infrastructure, and habitat.
- Robust integration of adaptation into community-focused local plans.
- Recognition, elevation, and support for frontline communities.
- Accelerated permitting and faster project construction.
- **Technical assistance** for local governments to plan and implement projects faster.
- More funding for adaptation that is easier to get.
- Metrics for deciding what makes the best kind of adaptation plan or project (equitable, efficient, multi-benefit, nature-based, and coordinated with others) and for tracking local and regional progress.

Engaging the entire region in collective action requires clear agreement on the path forward and checks and balances to ensure no voice is left unheard, and no community left behind. This Platform provides that roadmap for adaptation.

The Joint Platform will help the Bay Area engage in faster, better, and more equitable adaptation to a rising Bay.



Sea level rise in our regional plans.

Plan Bay Area 2050 is the region's long-range strategic plan focused on the interrelated elements of housing, the economy, transportation and the environment. Set to be adopted in Fall 2021, Plan Bay Area 2050 is the first multi-topic plan of its kind to question what the future will look like in the face of sea level rise and other natural hazards. How will these threats impact housing, transportation, environmental and economic goals? What are the consequences if we don't plan ahead?

Starting with Horizon, Plan Bay Area 2050's preliminary research and analysis phase, MTC/ABAG integrated the best available sea level rise mapping into imagining the impacts of sea level rise within the 2050 timeline of the plan. To address areas of near-term sea level rise impacts, Plan Bay Area incorporated an Adapt to sea level rise strategy, mapping protections on vulnerable portions of the shoreline and calculated at \$19 billion need for adaptation over the next thirty years.

Plan Bay Area 2050's Implementation Plan, which sets the strategic direction to advance strategies in the next five years, identifies key actions that MTC/ABAG and its partners should take to adapt the region to sea level rise. While these actions are compatible with Bay Adapt's tasks and will be implemented in partnership with Bay Adapt, they are part of a larger, multi-element plan and do not go into the level of detail on sea level rise that Bay Adapt does.

Plan Bay Area has been, and will continue to be, a critical tool for region-wide resilient land use decisions as sea levels rise. The Plan will continue to grow to become a comprehensive plan that brings in key regional topics, and will incorporate the best available science and regional sea level rise planning envisioned by Bay Adapt. MTC/ABAG will continue to be key partner for planning, funding, and implementing adaptation solutions in the Bay.



Where do we start?

Preserving what we care about.

The Bay Area is the most culturally and geographically diverse region in the United States, with people of color comprising 59% of our population. More than 75% of residents believe that racial diversity is what makes the Bay Area such a great place to live. Our region is also called the "Bay Area" for a reason — the Bay is the defining characteristic of our geography and defines so much of our economy, infrastructure, and lives.

Residents cherish the beautiful blue expanse of San Francisco Bay, and their ability to walk beside it, sail over it, and gaze across its open horizons. With its diverse habitats—beaches, wetlands, grasslands, tidal flats, lagoons and more—the Bay supports hundreds of species, ranging from critically endangered salmon and marsh mice to charismatic sea lions, busy beavers, and wayward whales. Thanks to decades of careful stewardship and public investments in shoreline parks and habitats, the West Coast's largest Estuary is both more habitable and healthier for humans and wildlife alike.

Our diversity of people and habitats also supports one of the most innovative economies in the world. The Bay Area is a hub of technology, industry, agriculture, services, and more, though this has created significant challenges in income equality.

Within this context is both diversity and inequity. Across our communities, cities, and counties, we have different histories, different challenges and different opportunities. Deciding which climate change adaptation options are right for each community can be complex. Many people contribute to making these decisions, and lots of considerations go into deciding what the right solutions may be for each particular waterfront.

If we are to prepare ourselves fully for sea level rise throughout the region, cities and counties must work with local communities and the state and federal governments to make decisions about what should and shouldn't—exist along the shoreline in the future.

Centering and protecting people, habitats and wildlife.

The risks from sea level rise, and the resources necessary to address those risks, are unequally distributed across the Bay Area. In order to understand vulnerability to adverse environmental impacts,

BCDC's Adapting to Rising Tides (ART) Program leverages existing research on specific socioeconomic characteristics that may reduce ability to prepare for, respond to, or recover from a hazard event or impacts from environmental burdens. It has identified potential impacts to communities from current and future flooding including:

- Loss of property and income; displacement from their communities.
- Disrupted access to medical care and other critical services.
- Loss of power and utilities.
- Exposure to toxic substances, spread of disease, worsened pre-existing health conditions.
- Physical and mental distress resulting from the flooding of homes and infrastructure.

These impacts are often disproportionately distributed to populations with certain existing socioeconomic vulnerabilities. Additionally, these populations tend to be highly sensitive to impacts, leading to potentially devastating implications from even minor flooding.

Vulnerable Communities Exposed to Sea Level Rise Around the Bay

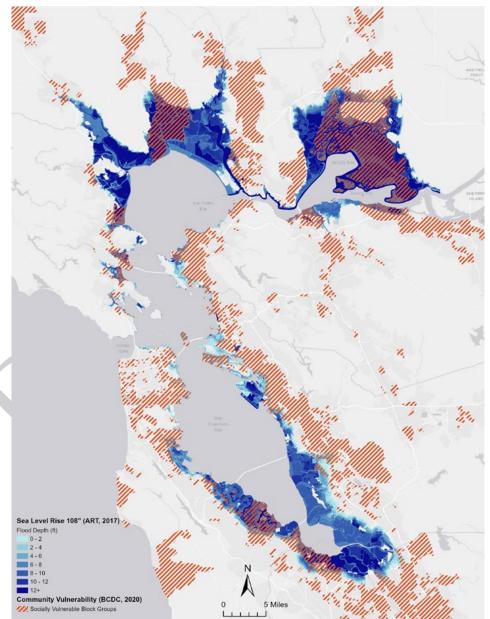
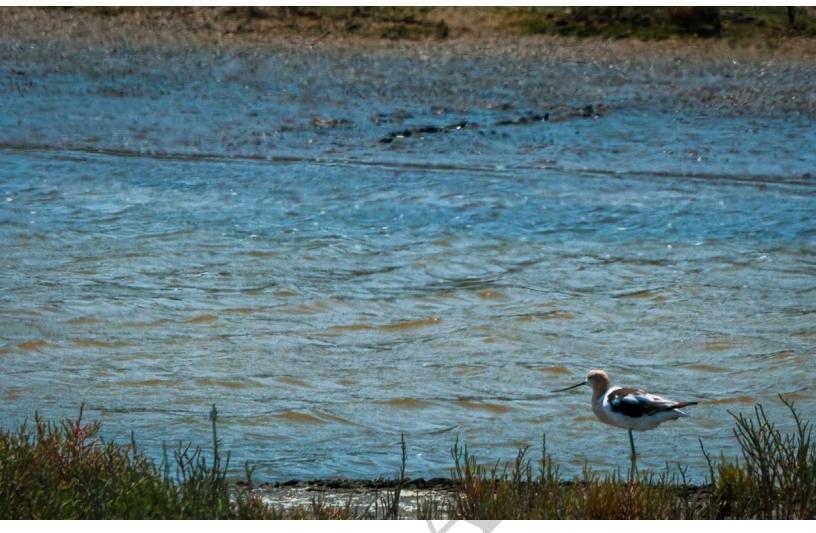


Figure 2 | Counties with highest impacts to socially vulnerable residential units from flooding at four TWLs as measured by impacts to 2010 residential units. Darker colors reflect greater consequences. Data from ART Bay Area Regional Sea Level Rise Vulnerability and Adaptation Study: Chapter 2.6 Vulnerable Communities (March 2020).





Natural ecosystems are also disproportionately impacted by sea level rise. When given a choice between an endangered salmon and a farm, a wetland or a vineyard, a nesting island or a waterfront hotel, it can be difficult for wildlife and open space to prevail in the battle over human priorities and money. Preserving shoreline habitats will require prioritizing sediment to built up wetlands and providing room for habitats to migrate upslope. But sediment is limited and many wetlands abut development and levees.

The health of Bay ecosystems is inextricably linked to our way and quality of life. We continue to learn how nature protects people from natural disasters and improves public health. But as water levels rise coastal habitats risk being drowned and lost. Both nature, and people, will suffer.

The Joint Platform places a high value on both the region's diverse people and its ecosystems. The

Wetlands, and other coastal and subtidal habitats can reduce wave heights. Photo by Phoca2004 licensed under CC BY 2.0.

document explicitly acknowledges the disproportionate risks and burdens on communities of color and other historically marginalized populations, and suggests actions to elevate the communities most affected by sea level rise and increase decision-making power in them. With people at the center of solutions, the Bay region can be a national model for equity in resilience planning.

The Joint Platform also prioritizes natural habitats to support a healthy, resilient Bay. Going green, deploying as many nature-based strategies for shoreline adaptation as possible, is already a regional priority. Taking actions to support healthy Bay ecosystems now and as sea levels rise is essential, not only for the many other benefits they provide but as they are also our first —and most at risk —line of defense from rising seas. Our efforts now will affect the health and livability of the Bay Area for generations.



forward" by providing additional resources and support to areas where socially vulnerable communities live, work, and play and reducing negative impacts to these communities. Climate change will disproportionately impact marginalized communities with fewer resources.

Put nature first whenever possible

Prioritize natural infrastructure solutions that benefit ecosystems and the health of the Bay as well as people, especially in the near-term. Adapting to rising sea level will require a mix of green and gray infrastructure. Working with nature, instead of against it, can produce better results for both people and wildlife.

Solve interconnected problems at the same time

Prioritize adaptation actions that maximize regional risk reduction to flooding and sea level rise and minimize tradeoffs within the context of other regional priorities such as housing, economy, social equity, habitat protection, and other climate risks. Sea level rise and flooding is just one of several regionally interconnected crises facing the Bay Area.

Practice inclusive, community-led governance and decision-making

Remove barriers and enhance capacity to increase transparent, coordinated decisionmaking among community members and organizations and local, regional, state, and federal governments that acknowledges and leverages the unique roles, responsibilities, and authorities at each scale. Adaptation outcomes will better protect the entire region when all interests, including those who know their neighborhoods and communities best, contribute and collaborate in reducing risk.

Support existing efforts but plan for the long term

Support, encourage, and learn from early innovators charting a new course for the region, especially for wetland restoration, while maintaining a long-term vision for more complex planning and investments. Early action is important for regional learning, setting precedents, and shorter-term flood control, and widespread or significant capital investments require careful and collaborative planning.

Pick the right strategy for the right place at the right time

Ensure that local and regional investment strategies to address flooding and sea level rise are grounded in local needs, conditions, and plans, and are phased to allow for uncertainty, flexibility, and iteration. The Bay is a collection of distinct places with unique physical and social conditions and there is no "one size fits all" solution - or timeline - to address climate-related impacts.

The San Francisco Bay connects nine counties and ADA Billions of people together. Photo SF Baykeeper, Cole Robb Most, and LightHawk.

What does adaptation look like?

Developing targeted solutions.

In the climate change arena, adaptation is different from mitigation, through which we all try to reduce our carbon footprints. Adaptation refers to making changes to how we live based on changing conditions, to reduce hazards and increase resilience to future conditions.

In the Joint Platform, adaptation specifically means the plans and projects that either prepare us for sea level rise or improve our ability to alter our shorelines to reduce its risk.

In some cases, we will adapt by restoring natural wetlands to absorb more water and buffer us from storms, while in other places we will build higher protections, such as seawalls, to keep water out. We may also avoid building new roads or homes in areas that are likely to flood or become wetland habitat. Sometimes adaptation may even require removing things that are already built out of harm's way. Adaptation also will spur innovation as we learn how to co-exist with more water in the future.

Bay Adapt helps to set the stage for successful adaptation. Each community will need to decide which approach is best now and over time. The actions in Bay Adapt help support multiple adaptation approaches we need to think about before it's too late.

Regional Hot Spots Around the San Francisco Bay

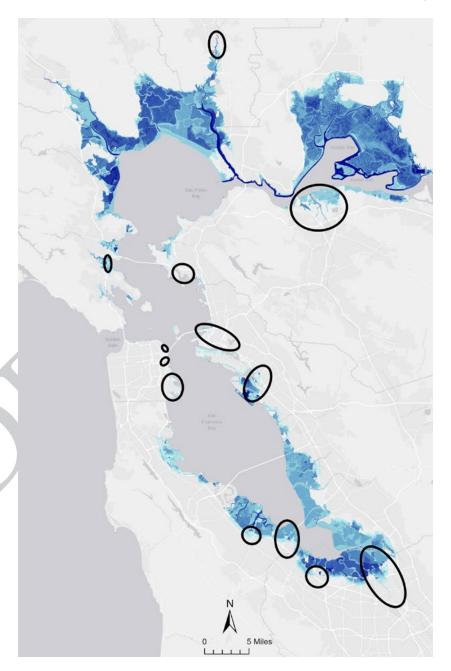


Figure 3 | Regional "hot spots" for ten TWLs (12" - 108") identify areas in the region with highest consequences to flooding to vulnerable communities, transportation networks, and urban growth areas or open space. Data from ART Bay Area Regional Sea Level Rise Vulnerability and Adaptation Study: (March 2020).

Adaptation Actions that Prepare

- Actions that help us set the stage to make decisions about what to do next that are equitable, inclusive, and based on science, local knowledge and values.
- Agreement on a shared approach and best practices about who makes decisions, what informs those choices, and how we plan and fund those decisions equitably to addresses disproportionate impacts and consequences of flooding on the most vulnerable.

Adpatation Actions that Protect, Accommodate, Avoid or Retreat

- Actions that change the physical characteristics of the shoreline, such as building engineered structures (gray infrastructure) and/or using and integrating natural ecosystems (green infrastructure) to protect shorelines from flooding.
- Projects that accommodate flooding such as preserving transition zones for wetlands, elevating structures, or using flood resistant materials.
- Efforts to retreat from the shore, such as removing existing development or avoiding placing new development in areas at risk of flooding.

Sea level rise will change our way of life in the Bay Area dramatically. Our daily commutes, the goods and services we depend on, the places in which we live and work, the natural spaces that protect habitat and make the Bay Area a beautiful place to live, will all be affected. The Bay Adapt Joint Platform's 6 Guiding Principles, 9 actions and 21 tasks suggest a way forward for us all.

What are adaptation actions?

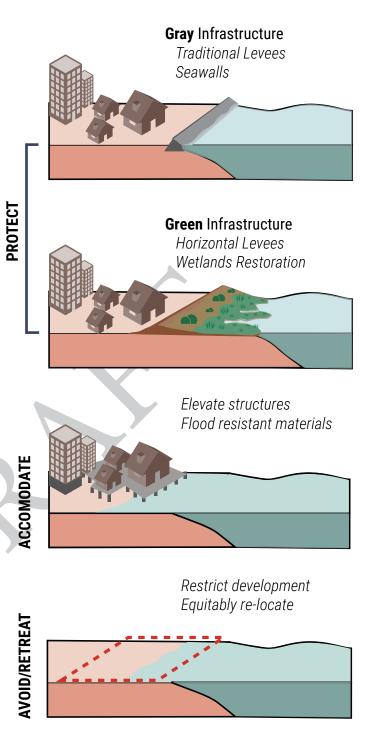


Figure 4 | Different adaptation approaches facilitated by the actions in Bay Adapt seek to prepare the region to equitably respond to sea level rise, while also strengthening implementation and ensuring lessons are learned over time.

The Joint Platform

9 actions, 21 tasks, 1 region moving forward together

PEOPLE -	
	Action 1: Collaborate on a "One Bay" vision to adapt to rising sea levels. Tæk 1.1: Create a long-term regional vision rooted in communities, bay habitats, and the economy Tæk 1.2: Lay the foundation for a proactive regional legislative agenda.
	 Action 2: Elevate communities to lead. Task 2.1: Improve how communities and public agencies learn from each other and work together. Task 2.2: Fund the participation and leadership of community-based organizations (CBOs) and frontline communities in adaptation planning.
	Action 3: Broaden public understanding of climate change science and impacts. Task 3.1: Tell local and regional stories about people and places adapting to climate change. Task 3.2: Weave climate literacy into school programs.
	Action 4: Base plans and projects on the best science, data, and knowledge. Task 4.1: Align research and monitoring with information gaps. Task 4.2: Make scientific data, information, and guidance easier to use. Task 4.3: Increase access to technical consultants for local adaptation partners.
PLANS -	 Action 5: Align local and regional plans into a unified adaptation approach. Task 5.1: Provide incentives for robust, coordinated adaptation plans. Task 5.2: Align state-mandated planning processes around adaptation. Action 6: Figure out how to fund adaptation.
	Task 6.1: Expand understanding of the financial costs and revenues associated with regional adaptation. Task 6.2: Establish a framework for funding plans and projects. Task 6.3: Help cities and counties expand ways to fund adaptation planning and projects.
PROJECTS -	Action 7: Refine and accelerate regulatory approvals processes. Task 7.1: Accelerate permitting for equitable, multi-benefit projects. Task 7.2: Tackle environmental regulations and policies that slow down progress on projects.
	Action 8: Fund and facilitate faster adaptation projects. Task 8.1: Incentivize projects that meet regional guidelines. Task 8.2: Encourage collaboration among people doing projects in the same places. Task 8.3: Facilitate faster construction of nature-based projects.
PROGRESS -	Action 9: Track and report progress to guide future actions. Task 9.1: Measure regional progress using metrics and share results. Task 9.2: Monitor and learn from pilot projects.

PEOPLE



As we adjust the way we live, work, and play to adapt to a changing climate, we must act together with true regional vision and ensure that this transition does not reinforce pre-existing inequities. We must continually ask who is leading, who is deciding, and how do we all get on the same page? Frontline communities that will feel the most acute impacts from sea level rise have the local knowledge needed to come up with equitable solutions. Likewise, legislators in Sacramento and Washington need to hear our collective voice loud and clear—two-thirds of the State's total sea level rise impacts will occur in the Bay Area, so our collective voice must be strong.



People learning about shoreline restoration. Photo by LEJ from Estuary News from March 2021.

ACTION 1

Collaborate on a "One Bay" vision to adapt to rising sea levels.

Goals:

- A shared vision for regional adaptation that reflects the Bay Area's diverse conditions and communities.
- A proactive legislative agenda supporting sustained Bay Area adaptation.

TASK 1.1: Create a long-term regional vision rooted in communities, bay habitats, and the economy.

Engage communities and stakeholders in envisioning a resilient future shoreline, relying on grassroots input from start to finish. Using Bay Adapt's Guiding Principles to guide the process, it should define and articulate what successful adaptation should like at ground level, and around the Bay, beginning in the most at-risk frontline communities.

The vision must be built on a deep understanding of communities' unique social, cultural, economic, and physical needs and be developed through a participatory, transparent, and iterative process.

The vision must also be complementary to regional

environmental, housing, transportation, economic and other priorities, including visions already established for these sectors, such as in Plan Bay Area 2050 or the San Francisco Estuary Blueprint.

The vision should be expressed through multiple deliverables that will be utilized throughout many other tasks included in the Joint Platofrm, including:

- A "vision statement" for the Bay shoreline that sets a long-term picture of successful adaptation.
- Regional and sub-regional objectives, tied to measurable metrics (such as safety, equity, functioning and thriving ecosystem, shoreline ccess, and economic growth), to be used for tracking progress in Task 9.1.
- Guidelines, evaluation methodologies, and technical modeling capacities for evaluating local plans and projects for funding and other incentives that align with desired outcomes (Tasks 5.1, 6.2, and 8.1).
- An assessment of the suitability of locations round the Bay for different project types and timelines, building off existing analysis such s the Adaptation Atlas. This can be used in conjunction with the above guidelines to incentivize the right kinds of actions in the right locations.

How the regional vision can inform Joint Platform actions

Figure 5 | Many different tasks outlined in the Joint Platform directly flow from the vision, guidelines, and metrics outlined in Task 1.1, either directly or indirectly. TASK 1.2 Proactive legislative agenda

TASK 2.1

Imrove how public agencies and communities work together TASK 1.1 Create a longterm regional vision

TASK 3.1

Tell stories about

adapting to

climate change

TASK 9.1 Measure progress using metrics

TASK 8.1 Provide incentives for projects

TASK 1.2: Lay the foundation for a proactive regional legislative agenda.

Build a unified advocacy voice for Bay Area adaptation needs. In the short term (next two years), pilot a legislative working group to work toward consensus on regional priorities and shared criteria for future legislation while taking advantage of opportunities within current state and federal legislative sessions. Foster relationships with state and federal legislators to lay the groundwork for future legislation. Build support for the nine-county Bay Area as the focus for new regional climate adaptation programs. In the mid-term (2-4 years), build support for multi-year sources of funding for a wide range of adaptation activities, such as a regional ballot measure. Identify and collectively advocate for additional regional priorities that would require legislation, such as regulatory changes, planning guidance, new fiscal authorities, and funding support. In the long term (5+ years), coordinate, update and communicate legislative needs on a biennial basis, such as through an annual legislative agenda.

TASK 5.1

Provide <u>inc</u>entives for

plans



Elevates frontline community voices in long-term regional visioning and advocacy.

Action 1 Benefits



ENVIRONMENT

Elevates environmental advocacy voices in long-term regional visioning and advocacy.



ECONOMY

Elevates business and economic voices in long-term regional visioning and advocacy.

ACTION 2 Elevate communities to lead.

Goals:

- Adaptation grounded in local vision and needs.
- Increased capacity of community members, especially those historically excluded from decision-making, to contribute to the process.
- Long-term funding that supports sustained community leadership and equitable partnerships among communities and governments.

TASK 2.1: Improve how communities and public agencies learn from each other and work together.

Build community capacity to influence government and support a region-wide training program led by communities and geared towards government to shift values towards place-based expertise. Adopt and share best practices for equity-focused adaptation decision-making throughout the region. Ensure that best practices nurture meaningful relationships, center community concerns and priorities, and make community and social benefits clearer.

Support community leaders in raising awareness and capacity within their own communities. Host trainings for communities on sea level rise risks, adaptation options, community storytelling, and best practices for engaging effectively with governments. Whenever possible, choose community-based organizations (CBOs) or community members to lead trainings geared toward government and communities.

Training topics for agency staff may include general environmental justice and local histories, community mapping, culturally appropriate communication, meaningful community engagement at all phases of planning, use of community benefit agreements, alternative approaches to traditional cost-benefit analyses that elevate community value, and measuring successful engagement. Conversations and decisions are being made without the community's input. How do we make sure that people's stories and perspectives are at the forefront?

> - East Palo Community Focus Group Participant

Ideas for the Bay Area

BayCAN, the Bay Area's Climate Collaborative, hosts an Equity Work Group that has developed trainings and an equity resource guide that is available on its website. <u>Access the BayCAN Equity Work Group</u> <u>Resource.</u>

The Greenlining Institute, an Oakland-based advocacy group, has created a guidebook to help users embed equity in a meaningful way in climate adaptation and community resilience policies and programs. <u>Access the Guidebook</u>.

A coalition of community organizations in East Oakland partnered with the City of Oakland to secure a **Transformative Climate Communities** grant for local equitable climate planning. City staff and community groups collaborated on the scope of work, goals, and budget for the project. The resulting community-driven plan led to a \$28 million implementation grant. <u>Access the Plan</u>.

The West Oakland Environmental Indicators Project received a Restoration Authority grant to lead a Shoreline Leadership Academy to raise the capacity of local frontline community residents to engage and lead in climate adaptation. Participants are paid for their time to develop plans for the shoreline while increasing their knowledge and participation.



Community forum in East Palo Alto on rising sea level. Photo by Jaclyn Mandoske, BCDC.

TASK 2.2: Fund the participation and leadership of CBOs and frontline communities in adaptation planning.

Establish a stable and ongoing funding program to support frontline communities and CBOs as full partners and leaders in adaptation planning. Use the funding to build and sustain community capacity to participate in decision-making as described in Task 2.1. Support CBO operating expenses, staffing, stipends for community representatives in planning processes and meetings, and expenses associated with participation such as transportation, food, and childcare. Also fund the communityled training programs identified in Task 2.1.

Consider state budget or bond allocations, legislation, grants, development fees, or regional funding measures as sources of funding. Equity initiatives could receive a dedicated percentage of any resilience-focused funding, for example. Other initiatives to increase community access to funds could include supporting collaborative grant-writing, or streamlining the process for governments or industry partners to contract with CBOs (such as setting up a bench of CBOs available for fee-based consulting and managing those contracts on behalf of the CBOs). It is harder to ask communities to engage on something that they have not been involved in shaping. You need representatives with direct experience and engagement in these communities, what they want, and agency staff typically doesn't have that.

- Bay Adapt EJ Caucus Member



EQUITY Elevates frontline community members as key decision-makers and compensates them for their time and expertise.

Action 2 Benefits



ENVIRONMENT Prioritizes natural resources that people value, promoting local stewardship.



ECONOMY Prioritizes local businesses and jobs, keeping local economies thriving.

INFORMATION

Cities, landowners, residents and students all need to understand how the latest science on sea level rise applies to their lives and decisions. Understanding risks, consequences, options, and tradeoffs enables everyone to be part of the solution. We also need ways to share our stories, struggles, and successes as we confront climate change and learn to adapt. Stories of individual and shared experiences of change are the foundation of future action. But where do we find and keep up with the latest science and these evolving stories? And how do we share the best of them?



BCDC staff presenting to stakeholders on sea level rise vulnerability. Photo by Jaclyn Mandoske, BCDC.

ACTION 3 Broaden public understanding of climate change science and impacts.

Goals:

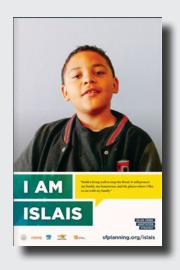
- Increased climate literacy in the region's general public.
- Communities and youth who are better prepared to plan and implement adaptation solutions.
- More value placed on community history and first-hand experience.

TASK 3.1: Tell local and regional stories about people and places adapting to climate change.

Launch a sustained storytelling campaign to amplify awareness of climate change and sea level rise impacts in the Bay Area. Listen and learn from residents' direct experiences and empower them to advance their own solutions for climate adaptation. Encourage youth, neighborhoods, and frontline communities to shape and share their own stories. Base stories on local successes and hopeful narratives about what makes the Bay Area special, including the region's unique natural ecosystems and culture of activism. Share stories widely, and make them available on diverse platforms – newspapers, radio, television, social media, neighborhood news apps, and the web. Use these stories to train local government staff about the communities they serve and increase trust between communities and local staff (coordinated with the trainings outlined in Task 2.1).

Ideas for the Bay Area

As part of the Islais Creek Adaptation Strategy, the San Francisco Planning Department developed a magazine, I Am Islais, that provided a platform for residents and stakeholders to speak about sea level rise in the neighborhood and how it would affect their lives. Platforms like these allow residents to have their voices heard.



JOINT PLATFORM



Middles schoolers from Oakland learn about rain catchment systems. Photo courtesy of Estuary News from March 2019.

TASK 3.2: Weave climate adaptation literacy into school programs.

Support partnerships between public and private schools and community-based organizations (especially those led by youth and frontline community members) to educate students about ways to adapt to climate change. Share adaptation visions, solutions, and local pilot projects showcasing innovation with teachers, students, school districts and parent associations. Support schools so they can get more involved as partners in educating their local communities about rising sea levels and as leaders in elevating the importance of climate action and adaptation. Help schools offer both climate-literate curricula and career pipeline opportunities based in diversity and inclusivity. Provide our future decision-makers and workforce with the knowledge and experience to tackle climate problems with equitable and innovative solutions.

Ideas for the Bay Area

The Mycelium Youth Network partnered with The Exploratorium and BCDC to engage local youth in the science, political issues, and civic processes involved in responding to climate change and its impacts on infrastructure and people. The collaboration produced Water Is Life, a program that offered an in-depth analysis of water justice issues with a specific focus on sea level rise and how it will impact the entire Bay Area. The program reached 150 students at several Title I schools around the Bay Area, including Leadership High School and Mission High School in San Francisco, and Elmhurst United Middle School in Oakland. Learn More Here.

The San Mateo County Environmental Literacy Program works with school districts, community-based environmental literacy partners, educators, and youth to actively integrate environmental sustainability into school communities, classrooms, and programs. Learn More Here.



EQUITY

Empowers frontline community members by increasing awareness of climate risks, sharing stories about their own communities, and engaging youth in schools.



Action 3 Benefits

ENVIRONMENT

Raises awareness of the health and future of the Bay and its resources and the value of natural and nature-based solutions in addressing rising sea levels.



ECONOMY

Reduces likelihood of economic damage by flooding by building public support for adaptation measures; prepares youth to enter climate resilience careers.

ACTION 4

Base plans and projects on the best science, data, and knowledge.

Goals:

- > Data and research tailored to the region's specific needs.
- Accessible science, analysis, and monitoring information.
- User-friendly technical support.

TASK 4.1: Align research and monitoring with information gaps.

Partner with academics, scientists, and communities to fill information gaps through original research, data collection, analysis, and monitoring. Tailor the interpretation of science to the audience or user. Curate and archive information for use and updates across decades.

From a technical perspective, identified information needs include:

- Enhanced regional flood modeling related to multiple hazards (such as groundwater, watershed, riverine/tidal, subsidence, erosion).
- Expanded networks of water elevation monitoring stations for real-time updates to the rate and timing of sea level rise in the Bay.
- Expanded open data initiatives to facilitate sharing.
- Standard operating procedures for validating and nominating data for common use.
- More research on the cost and suitability of adaptation strategies for different Bay conditions.
- Research on the equitable distribution of burdens and benefits of adaptation.

Value local knowledge from residents, particularly in frontline communities, and use it to inform research needs and priorities. Prioritize co-production of data and tools with communities through community-based asset mapping and storytelling or participatory science to form a more complete data picture.

Ideas for the Bay Area

Created in 2000, the California **Ocean Science Trust** recognizes the value of independent science and the opportunity to better connect the wealth of scientific expertise in academia with policy and management decisions in the state. The Ocean Science Trust seeks and provides funding for ocean resource science projects and encourages coordinated, multi-agency, multi-institution approaches to ocean resource science. It can serve as a model for how to connect real-world planning and policy needs with scientific and academic research but be adapted for the unique needs and constraints of the Bay Area. Learn More Here,

The Wetlands Regional Monitoring Program (WRMP) is convening stakeholders from a broad range of backgrounds and expertise to develop a regional monitoring program for wetlands in the Bay Area. The program aims to use wetland habitat data to improve the efficiency of permitting and monitoring wetland restoration projects and to evaluate the condition of the tidal marsh ecosystem at a regional scale. Learn More Here.



TASK 4.2: Make scientific data, information, and guidance easier to access and use.

Help users creating adaptation plans and projects understand where, when, and how to use climate science and planning tools. Facilitate widespread access to, and understanding of, technical information. Improve and ease access to the most relevant information.

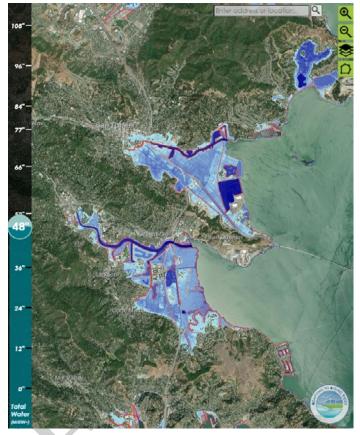
Establish or support an independent Climate Science Consortium that provide shigh-quality science translation tailored to the Bay Area's needs and fed by the research outlined in Task 4.1.

Also offer a separate technical assistance "storefront" that provides users:

- Standardized, up-to-date scientific data, such s common flood models and sea level rise projections, as created by the Climate Science Consortium.
- Best available science white papers on specific issues, as curated or developed by the Climate Science Consortium.
- Individualized consultations via a professional help desk network.
- How-to guidance on the steps of assessing vulnerability and developing adaptation plans.
- Adaptation plan and project examples and case studies.
- Tools for evaluating adaptation options.
- Funding and financing assistance.
- Lecture series, conferences, trainings, working groups, and/or workshops.
- Access to a technical consultant bench (Task 4.3).

How science and planning assistance can assist other Joint Platform actions

Figure 6 | Many different tasks outlined in the Joint Platform should connect to and coordinate with the technical assistance outlined in Task 4.2; however, they are not included in the task because they have technical assistance as their secondary function and/ or have a natural home elsewhere.



The Adapting to Rising Tides Bay Shoreline Flood Explorer is a tool developed by BCDC to explore current and future flooding scenarios. This information is available at explorer.adaptingtorisingtides.org.

TASK 8.1 Provide incentives for projects TASK 6.3

Help expand ways to fund adaptation



TASK 4.2

Make data and guiadance easier to use

TASK 4.3 Increase access to technical consultants

TASK 5.1 Provide incentives for plans

JOINT PLATFORM

26 BAY ADAPT | Regional Strategy for A Rising Bay



Levee breach in the Montezuma wetlands restoration project. Photo courtesy of the Montezuma wetlands project.

TASK 4.3: Increase access to technical consultants for local adaptation partners.

Establish a region-wide consultant bench that cities, counties, and others can tap for technical services. Use regional planning and project guidelines (Task 1.1) to articulate common technical needs in region-wide RFPs for consultants to serve on the bench. Also use guidelines to guide evaluation of proposals from potential consultants. Contract with consultants to be "on call" for cities and counties, as needed. Simplify and manage contracting processes for users when accessing a consultant. Vet consultant-led goods and services to ensure they align with the region's vision and objectives.

Ideas for the Bay Area

MTC/ABAG's Housing Technical Assistance (TA) Consultant Bench is an effort to recruit and vet multiple consultants with various skill sets to support local planning at favorable rates and facilitate access to consultant resources, achieve economies of scale, and reduce costs. This bench supports regional TA efforts and local jurisdictions can use it to connect with specialized resources on a wide range of issues and services using their SB2, LEAP, REAP, and PDA planning funds. Learn More Here.

Action 4 Benefits



EQUITY

Elevates local knowledge and needs in the development of data to inform decision-making and ensures data transparency and accessibility to communities.



ENVIRONMENT

Improves guidance, data, and feedback on projects that preserve and enhance habitats and on natural and nature-based solutions to increase implementation of these projects.



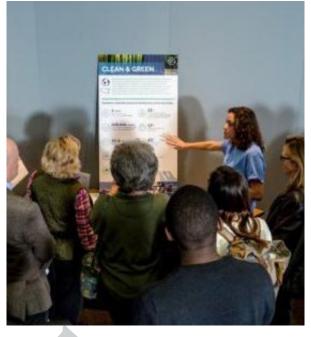
ECONOMY

Increases information and better planning and project procesess to expedite shoreline protection projects.

PLANS



Now is the time to plan for carrying out the region's adaptation vision and seeking the billions of dollars needed to pay for it. As shoreline communities incorporate adaptation into local plans, we must ensure that those plans contribute to a "One Bay" solution, whose goals and objectives are shared across cities, counties and the region. Decisions in one community, municipality or new development can displace costs and impacts to others. How can we help locals make successful, coordinated plans? And how will we pay for new initiatives?



Community engagement for Plan Bay Area 2050. Photo by Karl Nielsen.

ACTION 5

Align local and regional plans into a unified adaptation approach.

Goals:

- Local plans that are coordinated across the region, and incentivized by expanded adaptation funding.
- Improved and coordinated state planning requirements for adaptation plans and projects.

TASK 5.1: Provide incentives for robust, coordinated local adaptation plans.

Utilize collectively-developed plan guidelines and minimum requirements (Task 1.1), tied to financial incentives (Task 6.2), to develop strong local and community-driven adaptation plans that also contribute to regional goals. Guidance should be available through regional technical incentive programs (Task 4.2). Incentives should include funding to develop the plans. Guidelines should be developed with the input of many stakeholders but may provide:

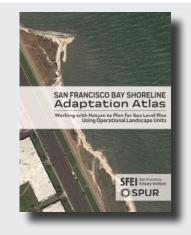
- Common minimum short and long-term se level rise climate projections for planning.
- Standard flood data sets.
- Best practices for community engagement and community-led adaptation planning processes.
- Regionally-appropriate strategies for protecting natural areas, frontline communities, public ccess, regional transportation links, and other critical regional assets.
- Guidance on how and where to prioritize nature-based solutions along the shoreline where feasible and appropriate.
- Land use guidance, such as how to plan for habitat migration with sea level rise.
- Guidance on how to plan for long-term implications of sea level rise beyond current planning horizons.
- Guidance on how to connect sea level rise planning to other critical topics, including public and environmental health and housing considerations.



Wetlands and development near Highway 37. Map data ©2019 by Google Earth Pro.

TASK 5.2: Align state-mandated planning processes around adaptation.

Assess the state's myriad planning requirements beyond adaptation (such as those for housing, local hazard mitigation, social equity, and climate action) through the lens of adaptation planning for conflicts, redundancies, and synergies. Jointly advocate for updated legislation to coordinate these requirements. Also create opportunities and incentives at the state level for cross-jurisdictional planning to improve the siloed scope of local plans that are often limited to jurisdictional boundaries.



Ideas for the Bay Area

The San Francisco Bay Shoreline Adaptation Atlas has extensively evaluated the Bay shoreline to identify the most appropriate adaptation strategies for the unique physical characteristics shared by different "Operational Landscape Units" around the Bay. It identifies where nature-based approaches can help create a resilient shoreline with multiple benefits and where these solutions can work together across the interconnected Bay to avoid unintended impacts in neighboring locales. The Adaptation Atlas can provide a guide toward appropriate plans and projects in different locations around the Bay to ensure that the most appropriate strategies are considered in any given location. See it Here.

Action 5 Benefits



EQUITY

Rewards planning processes that value inclusive engagement and equitable outcomes.



ENVIRONMENT

Rewards planning processes that value long-term protection of Bay habitats and natural and naturebased adaptation outcomes.



ECONOMY Reward planning processes that value the protection of jobs, businesses, and infrastructure.



The East Bay Shoreline looking towards Emeryville and Oakland. Photo by Andre Perrin-Martinez.

ACTION 6

Figure out how to fund adaptation.

Goals:

- Clear assessment of the region's adaptation funding needs.
- Identification of local and regional funding sources and financing tools.
- Mechanism for prioritizing and distributing funds for adaptation over the next several decades.

TASK 6.1: Expand understanding of the financial costs and revenues associated with regional adaptation.

Reduce unknowns and uncertainties related to the costs of adaptation. Start by expanding on the existing MTC/ ABAG Sea Level Rise Needs and Revenue Assessment, which supports Plan Bay Area 2050 and also advocates for more state and federal funding. Build on and improve the assessment's calculations of what it may cost the region to adapt to sea level rise as well as the cost of inaction. As part of this calculation, consider both actual costs of current projects and the anticipated costs of untested or new construction or restoration techniques, as well as the costs for pre-construction phases of projects such as engagement, planning, and land acquisition or post-construction costs such as monitoring and maintenance. Consider when funds may be needed as sea levels rise and impacts begin to occur. Also develop a more in-depth understanding of possible revenue from related special assessments, taxes, and fees to refine estimates of the potential funding gap.

Ideas for the Bay Area

The San Francisco Bay Restoration Authority is a regional agency created to fund shoreline projects that will protect, restore, and enhance San Francisco Bay through the allocation of funds raised by the Measure AA parcel tax. This parcel tax generates \$25 million in grants annually for wetland restoration projects throughout the region. The Restoration Authority is overseen and staffed by representatives from several Bay Area government agencies with various types of expertise and authority. The Restoration Authority could either be expanded to fund a wider variety of adaptation projects or could serve as a model for a new adaptation-focused finance authority for the Bay. Learn More Here.



RESTORATION AUTHORITY

TASK 6.2: Establish a framework for funding plans and projects.

Develop and implement a framework or process to aggregate, generate, and distribute adaptation funding for plans and projects. Use guidelines developed in Task 1.1 to direct funding to incentivize successful local planning (Task 5.1), and to evaluate and assign funding to proposed adaptation projects included in such plans (Task 8.1). Consider modeling the process on the MTC/ABAG Transportation Project Performance framework, in which partners nominate local projects for evaluation based on specific criteria and then prioritize them for funding. Actively advocate for adaptation funding for the region (Task 1.2) and consider spearheading new regional taxes, fees, or other financing mechanisms to fund plans and projects. How can we see future things happening if we can't even fix our streets and drains?

- East Palo Community Focus Group Participant

TASK 1.2 Proactive legislative agenda

How the funding framework can assist other Joint Platform actions

Figure 7 | Many different tasks outlined in the Joint Platform should be considered in the funding framework outlined in Task 6.2; however, they are not included in the task because 6.2 focuses on the *creation* of the funding framework while the related tasks rely on the *outcomes* of the funding framework. TASK 2.2 Fund CBOs and frontline communities

TASK 5.1 Provide incentives for plans

> TASK 6.1 Expand understanding of costs and revenues

TASK 6.2 Establish funding framework

TASK 6.3 Help expand ways to fund adaptation TASK 8.1 Provide incentives for projects

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Isais Creek in San Francisco. Photo by SF Baykeeper, Robb Most, and LightHawk.

TASK 6.3: Help cities and counties expand ways to fund adaptation planning and projects.

Provide local governments with expertise and assistance to generate additional funds by identifying, evaluating, and applying local financing tools and to apply for other sources of funds for local adaptation needs (above and beyond any regional funds identified in Task 6.2). Work with cities and counties to identify their needs and match the myriad federal, state, regional, and local funding sources to local needs for planning, community engagement, and project implementation. Help local governments understand grant requirements and shape projects to fit them. Assist with project cost-benefit analysis, grant writing, and fulfilling reporting requirements. This assistance should be provided through regional technical assistance storefront outlined in Task 4.2.

Ideas for the Bay Area

There are several existing resources that can help serve as the foundation for the services outlined in Task 6.3:

- Finance Guide for Resilient by Design Bay Area Challenge Design Teams, NHA Advisors, 2018
- Paying for Climate Adaptation in California, AECOM, 2018
- Climate Adaptation Finance and Investment in California, Routledge Focus, 2018
- Adaptation Finance Challenges: Characteristic Patterns Facing California Local Governments and Ways to Overcome Them, California Natural Resources Agency, 2018
- The California Grants Portal is an access portal to all grants and loans offered on a competitive or first-come basis by California state agencies. <u>Learn more here</u>.
- The Funding Wizard, hosted and maintained by the California Air Resources Board, is a searchable database of grants geared towards sustainability projects, including climate change mitigation and adaptation. Learn more here.



EQUITY

Outlines a process to pay for adaptation that does not rely on a community's wealth, advocacy skills, or grant-writing success to fund plans and projects.





ENVIRONMENT

Identifies ways to prioritize longterm protection of Bay habitats and natural and nature-based adaptation outcomes in funding decisions.



ECONOMY

Increases funding for shoreline projects and protection of key assets critical to the region's economic health.

PROJECTS



Getting adaptation projects approved and built can mire project proponents and contractors in a complex web of regulations and construction challenges. It shouldn't be so difficult to build resilient shoreline adaptation projects that value ecosystems and people, align with the region's vision and funding priorities, and apply innovative approaches. Measures to smooth and speed regulatory approvals for multi-benefit projects are important. Other measures can help facilitate place-based collaboration around project development and remove logistical challenges to construction.

ACTION 7

Refine and accelerate regulatory approvals processes.

Goals:

33

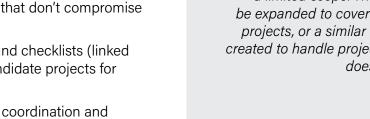
- Less time and fewer resources spent on permitting daptation projects so they can be constructed ahead of sea level rise.
- Updated laws, regulations, and policies that reflect the changing shoreline.

TASK 7.1: Accelerate permitting for equitable, multi-benefit projects.

Dedicate a multi-agency group to work collaboratively on permits for adaptation projects that reflect regional guidelines and have been identified as regional priorities (see *Ideas for the Bay Area* at right for a possible model or forum). Achieve smoother, speedier regulatory approvals that don't compromise environmental protections by:

- Using standard, transparent criteria and checklists (linked to Task 1.1. guidelines) to evaluate candidate projects for eligibility for accelerated permitting.
- Providing opportunities for proactive coordination and collaboration between agencies and project proponents and sharing criteria and checklists with project proponents early in their design process.
- Improving coordination across agencies and between potential project proponents and regulators before projects are even designed (such as regular engagement with the

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JOINT PLATFORM



Conceptual drawing of the Islais Hyper-Creek project from Resilient By Design.

Ideas for the Bay Area

The San Francisco Bay Restoration Regulatory Integration Team (BRRIT)

is a multi-agency team dedicated to improving the permitting of multibenefit habitat restoration projects and associated flood management and public access in and along San Francisco Bay. The BRRIT consists of staff from state and federal regulatory agencies who work closely with project proponents from the pre-permit application stage through permit completion. However, the BRRIT is a small team that reviews only a limited number of habitat projects and has a limited scope. The BRRIT could be expanded to cover more types of projects, or a similar team could be created to handle projects that BRRIT does not consider.

(TASK 7.1 continued)

groups outlined in Task 8.2).

- Establishing a dispute resolution process among permitting gencies.
- Conducting CEQA and permitting concurrently.
- Enhancing the technical knowledge of permitting staff (vi working groups and by tapping outside expertise).
- Increasing regulatory capacity for permit review.

TASK 7.2: Tackle environmental regulations and policies that slow down progress on projects.

Review plans and laws, including BCDC's Bay Plan, RWQCB's Basin Plan, the California Endangered Species Act, California Environmental Quality Act, National Environmental Policy Act, Federal Clean Water Act, and Federal Endangered Species Act, to pinpoint policies that may unintentionally impede permitting or construction of adaptation projects. Starting with local and regional plans and policies, develop consensus on recommended policy changes that balance original intent with changing conditions due to sea level rise, and help facilitate multi-benefit projects. The scope of the review could include:

- Clarifying or creating new policies on climate change.
- Identifying conflicting regulatory mandates.
- Clarifying design standards for nature-based projects.
- Integrating data from pilot projects into planning for new projects.
- Reevaluating restrictions on Bay fill for shoreline protection.
- Reevaluating criteria for dredged material disposal to incentivize beneficial reuse over in-Bay or ocean disposal.
- Reevaluating contaminant criteria for beneficial reuse.
- Identifying more funding sources for sediment delivery to beneficial reuse sites and other adaptation projects.
- Updating land use policies to allow for habitats to migrate upland.
- Permitting that allows for temporary impacts to achieve longterm adaptation goals.
- Ensuring that construction work windows provide the expected benefit to special status species.
- Addressing the short and long-term impacts of turbidity plumes in water.
- Strengthening requirements around long-term monitoring of daptation outcomes to inform regulatory and policy updates.

Ideas for the Bay Area

In 2016, BCDC completed **Policies for a Rising Bay,** which outlines the policy issues identified in the Commission's laws and policies in light of new challenges, including sea level rise. The report identifies four policy issues where BCDC's policies were found to be inadequate regarding risks associated with rising sea levels, including:

- 1. Fill for Resilience and Adaptation -Habitat Restoration and Protection
- 2. Fill for Resilience and Adaptation -Innovative Shoreline Solutions
- 3. Environmental Justice and Social Equity
- 4. Adaptive Management

In 2019, BCDC adopted its Fill for Habitat and Environmental Justice Bay Plan Amendments that formally amended its regulatory program to address these policy gaps.



JOINT PLATFORM



Wetlands along the San Jose shoreline during King Tides in December 2019. Photo by SF Baykeeper, Robb Most, and LightHawk.



EQUITY Rewards projects that value inclusive engagement and equitable outcomes.

Action 7 Benefits



ENVIRONMENT

Rewards projects that value longterm protection of Bay habitats and natural and nature-based adaptation outcomes.



ECONOMY Rewards projects that protect jobs, businesses, and infrastructure.

PROJECTS

ACTION 8

Fund and facilitate faster adaptation projects.

Goals:

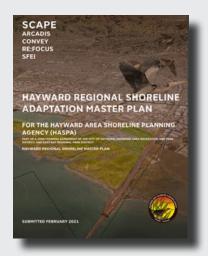
- Accelerated and funded projects that advance the regional adaptation vision.
- More efficient construction processes for multibenefit, equitable shoreline adaptation projects.

TASK 8.1: Incentivize projects that meet regional guidelines.

Jump start critical local projects that also contribute to regional goals using collectively developed plan guidelines and minimum requirements (Task 1.1), tied to financial incentives (Task 6.2) and permitting incentives (Task 7.1). Projects eligible for financial incentives should be included in successful local plans (Task 5.1).

Guidelines should be developed with the input of many stakeholders but may provide:

- Inclusion of robust and meaningful community engagement in the project planning process.
- Evaluation of the degree to which a project protects the health of the bay and local ecosystems, and considers space for habitat migration.
- Evaluation of project impacts on natural areas, frontline communities, and other consequences to neighbors or the region, such as exacerbating flooding or wave erosion.
- Use of an equitable cost-benefit analysis that values frontline communities and other non-monetary benefits.
- Adaptive project plans that consider flooding above nd beyond the design level or flooding that occurs more rapidly than planned.



Ideas for the Bay Area

The Hayward Area Shoreline Planning Agency Joint Powers Authority brings together the City of Hayward, East Bay Regional Parks District, and Hayward Area Recreation and Parks District and works with the Hayward Area Shoreline Citizens Advisory Committee to coordinate agency planning activities and adopt and carry out policies for the improvement of the Hayward Shoreline. It has recently completed and adopted a Shoreline Master Plan that outlines adaptation measures to prepare for sea level rise. <u>Read it Here.</u>

TASK 8.2: Encourage collaboration among people doing projects in the same places.

Establish place-based, ongoing work groups to coordinate large-scale, multi-jurisdictional projects. Provide a forum for building relationships among stakeholders, enhancing communication, transparency, and synergies among diverse players, and connecting communities to projects they care about. Share best practices for project design, governance, and delivery. Use a neutral, third-party facilitator to facilitate these groups and help ensure a balance of voices, achieve consensus on common project goals, resolve challenges and conflicts, identify and nurture of project champions, and broker community benefits agreements.

PROJECTS



South Bay Salt Ponds restoration project. Photo by San Francisco Restoration Authority.

TASK 8.3: Facilitate faster construction of nature-based projects.

Increase the capacity of contractors to build multi-benefit or nature-based projects. Establish training programs on techniques and approaches to construct natural and naturebased shoreline projects for contractors, aligned with regional project guidelines (Task 1.1) and informed by monitoring data (Task 9.2). Coordinate the use of the limited regional supply of fill across the region and improve fill logistics (e.g. stockpiling, contaminant testing, delivery, etc). Strengthen partnerships with regulated communities. Expand RFP and State bond proposition I nguage to make funding such complex projects more flexible.

Improve construction bidding and contracting processes by:

- Demystifying project costs.
- Contracting earlier in the design process (vi construction management general contracts).
- Incentivizing contracts with local or equity-focused businesses.
- Incentivizing the reduction of construction impacts on communities.



Ideas for the Bay Area

Sediment for Survival, published by the San Francisco Estuary Institute in 2021, analyses current data and climate projections to determine how much natural sediment may be available for tidal marshes and mudflats and how much supplemental sediment may be needed under different future scenarios, and offers a strategy for sediment delivery that will enable wetlands to survive a changing climate and provide benefits to people and nature for many decades to come. This report can form the foundation for a region-wide conversation about how to meet the region's future sediment needs for nature-based shoreline adaptation projects. Read it Here.



EQUITY

Advocate for community voices in projects; supports construction practices that minimize impacts to communities and support local businesses.

Action 8 Benefits



ENVIRONMENT

Expands the ability of contractors to build natural and nature-based solutions.



ECONOMY

Facilitates cross-pollination early on, resulting in multi-benefit projects with shared costs; supports construction practices that support local businesses.

PROGRESS

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The cycle of adaptation never stops. Science evolves and we learn lessons from existing projects, often requiring updates to our plans and policies. But how do we know if our efforts have been successful, and whether everything is working out as planned? Tracking and learning from our successes and failures will allow the region to adjust course, celebrate progress, maintain transparency, and adapt to uncertainty. Accountability for how well we achieve our collective adaptation goals goes hand-inhand with future support for this critical work.



People visiting recreational trails near the Palo Alto Baylands. Photo by Jitze Couperus licensed under CC BY 2.0.

ACTION 9 Track and report progress to guide future actions.

Goals:

- A process for gathering feedback and measuring progress on local and regional adaptation efforts.
- Clarity on how to adapt plans and projects to changing conditions and outcomes.
- Enhanced monitoring of nature-based projects to better understand the benefits and challenges of an ecosystems approach to adaptation.

TASK 9.1: Measure regional progress using metrics and share results.

Regularly check and report on adaptation progress based on the established and shared regional metrics identified in Task 1.1. Metrics should measure the difference between today's "baseline"—the region's current risk profile and adaptation status—and changes related to adaptation activities. Resulting "report cards" should be transparent and understandable (through visually compelling online dashboards) to partners, stakeholders and the public. When appropriate, they should suggest ways to increase alignment with the regional vision, such as changes to incentives (Tasks 5.1 and 8.1), funding models (Task 6.2), technical assistance programs (Task 4.2), or the legislative agenda (Task 1.2).



Ideas for the Bay Area

The State of the Estuary report tracks indicators and trends that measure the San Francisco Estuary's ecological health. Likewise, the Delta Stewardship Council's Delta Plan Performance Measures uses several metrics to measure progress and track performance across the coequal goals of a reliable water supply for California and a healthy Delta ecosystem. It uses an easy-to-access, graphics-rich online interface to illustrate performance measure information and data to ensure transparency around the Delta Plan's goals and performance measures. This website and the metrics it tracks could be a model for how the Bay Area could transparently track its adaptation goals and progress.



Creosote-treated pilings at the Red Rocks warehouse site in Richmond. Photo by Marilyn Latta, State Coastal Conservancy.

TASK 9.2: Monitor and learn from pilot projects.

Monitor pilot projects to identify lessons learned and update or establish guidance based on these lessons. Expand and support existing monitoring programs, such as the Wetland Regional Monitoring Program and the San Francisco Bay National Estuarine Research Reserve, to increase the context for learning and adaptation. Use monitoring to update and refine best practices for innovative, multi-benefit projects covered in regional vision (Task 1.1), funding criteria (Task 6.2), technical assistance guidance (Task 4.2), and permitting processes (Task 7.1).

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Ideas for the Bay Area

Pilot projects don't have to be limited to nature-based solutions. The San Francisco Bay Area Rapid Transit District (BART) can serve as a model for other agencies pursuing adaptation. With limited funding and resources, BART has conducted a number of pilot projects to evaluate resiliency risks and develop adaptation solutions. Pilot findings have been used to inform BART capital projects of risks. As a pilot outcome, BART requires in the BART Facilities Standards (BFS) that capital projects account for SLR risk in their designs. BART's approach to leverage existing data and partnerships to maximize pilot outcomes are examples of practices that can be shared and benefit other agencies.



EQUITY Ensures accountability for equity and community-focused adaptation outcomes.

Action 9 Benefits



ENVIRONMENT

Ensures accountability for naturebased, ecosystem, and habitatbased adaptation outcomes; monitoring and reporting will improve the design, permitting, funding, and construction of nature-based adaptation strategies.



ECONOMY

Ensures accountability for job and housing growth adaptation co-benefits; monitoring of pilot projects will lead to more efficient and effective projects and expedited protection for critical assets.

How do we get there?

The people, agencies, and groups that will lead the charge.

		Possible Lead(s)	Possible Support	Possible Working Group
	Action 1: Collaborate on a "One Bay" vision for adapting to r	ising sea levels.	· · · · ·	
	Task 1.1: Create a long-term regional vision rooted in communities, bay habitats, and the economy.	BCDC, Local Jurisdictions, CBOs	RWQCB, MTC/ABAG, SFEP, SCC, BARC, BayCAN, SFEI, CHARG, Enviro Orgs	Community, Equity and Planning Working Group
щ	Task 1.2: Lay the foundation for a proactive regional legislative agenda.	BARC	BCDC, MTC/ABAG, SFEP, BayCAN, SFEI, CHARG, Advocates	Climate Adaptation Legislation Working Group
EOPLE	Action 2: Elevate communities to lead.			
PE(Task 2.1: Improve how communities and public agencies learn from each other and work together.	BayCAN, WOEIP, NorCal Resilience Network	BCDC, MTC/ABAG, SFEP, BARC, NOAA, CBOs, Local Jurisdictions	Community, Equity and Planning Working Group
	Task 2.2: Fund the participation and leadership of CBOs and frontline communities in adaptation planning.	BARC, WOEIP, NorCal Resilience Network	MTC/ABAG, SFEP, SCC, BayCAN, Private Philanthropy	Community, Equity and Planning Working Group
	Action 3: Broaden public understanding of climate change s	science and impa	acts.	
z	Task 3.1: Tell local and regional stories about people and places adapting to climate change.		BCDC, MTC/ABAG, SFEP, SCC, BARC, BayCAN, CBOs, Media	Science, Environment & Education Working Group
ΑΤΙΟ	Task 3.2: Weave climate literacy into school programs.			Science, Environment & Education Working Group
Ň.	Action 4: Base plans and projects on the best science, data,	and knowledge.		
INFORMATION	Task 4.1: Align research and monitoring with information gaps.	RWQCB, BayCAN, SFEP	BCDC, SFEP, CHARG, Caltrans, NOAA, CBOs	Science, Environment & Education Working Group
2	Task 4.2: Make scientific data, information, and guidance easier to use.	BCDC, MTC/ ABAG, SFEI	RWQCB, SFEP, BARC, BayCAN, NOAA	Science, Environment & Education Working Group
	Task 4.3: Increase access to technical consultants for local adaptation partners.	MTC/ABAG, SFEP	SCC, BayCAN, SFEI	Science, Environment & Education Working Group

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JOINT PLATFORM

		Possible Lead(s)	Possible Support	Possible Working Group
	Action 5: Align local and regional plans into a unified adapta	ation strategy.		
	Task 5.1: Provide incentives for robust, coordinated adaptation plans.	MTC/ABAG	BCDC, SCC, BARC, BayCAN, SFEI	Community, Equity and Planning Working Group
	Task 5.2: Align state-mandated planning processes around adaptation.		BCDC, MTC/ABAG, BayCAN	Community, Equity and Planning Working Group
S	Action 6: Figure out how to fund adaptation.			
PLANS	Task 6.1: Expand understanding of the financial costs and revenues associated with regional adaptation.	BCDC, MTC/ ABAG	RWQCB, BARC	Financing the Future Working Group
	Task 6.2: Establish a framework for funding plans and projects.	MTC/ABAG	BCDC, SFEP, SCC, BARC, SFEI, CHARG, USACE, CBOs, Caltrans, Advocates	Financing the Future Working Group
	Task 6.3: Help cities and counties expand sources of adaptation financing and funding.	MTC/ABAG	BCDC, SFEP, SCC, BARC, BayCAN, Caltrans	Financing the Future Working Group
	Action 7: Refine and accelerate regulatory approvals proces	ses.		
	Task 7.1: Accelerate permitting for equitable, multi-benefit projects.	BCDC, SFEP, RWQCB	SFEP, SCC, USACE, Advocates	Regulatory Working Group
S	Task 7.2: Tackle environmental regulations and policies that slow down progress on projects.	BCDC, SFEP, RWQCB	SFEP, SCC, USACE, Advocates	Regulatory Working Group
С С	Action 8: Fund and facilitate faster adaptation projects.			
PROJECT	Task 8.1: Incentivize projects that meet regional guidelines.	MTC/ABAG	BCDC, SFEP, CHARG, Advocates	Community, Equity and Planning Working Group
C	Task 8.2: Encourage collaboration among people doing projects in the same places.	SFEI	BCDC, MTC/ABAG, SCC, BARC, BayCAN, CHARG, CBOs, Caltrans	Community, Equity and Planning Working Group
	Task 8.3: Facilitate faster construction of nature-based projects.	SFEP	BCDC, RWQCB, SCC, SFEI, Professional Orgs	Regulatory Working Group
Ś	Action 9: Track and report progress to guide future actions.			
OGRES	Task 9.1: Measure regional progress using metrics and share results.	BCDC, SFEI, SFEP	MTC/ABAG, SFEP, BARC	Community, Equity and Planning Working Group
PROG	Task 9.2: Monitor and learn from pilot projects.	RWQCB	BCDC, MTC/ABAG, SFEP, SFEI, NOAA, USACE	Science, Environment & Education Working Group

Bay Adapt process and Leadership Advisory Group (LAG)

Bay Adapt was convened by the San Francisco Bay Conservation and Development Commission (BCDC) in partnership with a broad range of Bay Area leaders that comprise the Leadership Advisory Group (LAG). The LAG consists of leaders from public agencies, interest groups, community-based organizations, and academia and provides strategic direction, feedback, and leadership in implementing the Joint Platform actions.

The strategies in this document were developed by BCDC staff with nearly 100 stakeholders who participated in hundreds of hours of working group meetings. The strategies were also informed by one Public Forum, ten Community and Stakeholder Focus Groups, an Environmental Justice (EJ) Caucus which was convened regularly throughout the process, and many presentations to other region-wide existing groups consisting of local government staff and elected officials.

For a summary of feedback from the Public Forum, Community and Stakeholder Focus Groups, and list of outreach presentations, visit the Bay Adapt website at www.bayadapt.org.

	Leadership Advisory Group Members					
	Ana Alvarez, Deputy General Manager, East Bay	Dina El-Tawansy, District 4 Director, Caltrans				
	Regional Parks (EBRP)	Tian Feng, District Architect, San Francisco Bay Area				
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	John Bourgeois, Representative, Coastal Hazards	Terri Green, Director, Shore Up Marin City				
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NorCal Resilience Network	Jim Wunderman, President, Bay Area Council (alt. Adrian				
Dave Pine, San Mateo County Supervisor/Chair, San Francisco Bay Restoration Authority	Covert)				

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Sam Cohen (former BCDC) Shannon Fiala (former BCDC) Karen Tanner (former BCDC)

Acronyms

Acronym	Description
ABAG	Association of Bay Area Governments
BARC	Bay Area Regional Collaborative
BARHII	Bay Area Health Inequities Initiative
BART	Bay Area Rapid Transit
BayCAN	Bay Area Climate Action Network
BCDC	SF Bay Conservation and Development Commission
BRRIT	Bay Restoration Regulatory Integration Team
CHARG	SF Bay Regional Coastal Hazards Adaptation Resiliency Group
EBRPD	East Bay Regional Parks District
MTC	Metropolitan Transportation Commission
NERR	National Estuarine Research Reserve
NOAA	National Oceanic and Atmospheric Administration
RWQCB	Regional Water Quality Control Board
SCC	California State Coastal Conservancy
SFEI	San Francisco Estuary Institute
SFEP	San Francisco Estuary Partnership
SFBRA	San Francisco Bay Restoration Authority
SFPUC	San Francisco Public Utilities Commission
USACE	U.S. Army Corps of Engineers
WOIEP	West Oakland Environmental Indicators Projects

Metropolitan Transportation Commission

Legislation Details (With Text)

File #:	21-1069	Version:	1	Name:		
Туре:	Report			Status:	Informational	
File created:	8/3/2021			In control:	Bay Area Regional Collaborative	
On agenda:	9/17/2021			Final action:		
Title:	Report on State	e Legislativ	e Upo	late		
Sponsors:						
Indexes:						
Code sections:						
Attachments:	<u>9a Budget Upd</u>	late - BARC	C Gov	erning Board Me	eting.pdf	
	9b Resilience I	Funding Pre	esenta	ation to BARC.pd	<u>f</u>	
Date	Ver. Action By			Acti	on	Result

Subject:

Bay Area Regional

Collaborative

Report on State Legislative Update

Presenter:

Rebecca Long, MTC/ABAG Alan Abbs, Bay Area Air Quality Management District **Recommended Action:** Information



BAY AREA

AIR QUALITY

MANAGEMENT

DISTRICT

Legislative Budget Update

BARC Governing Board Meeting September 17, 2021

> Alan Abbs Legislative Officer aabbs@baaqmd.gov

2021-22 State Budget vs. Previous Years



Statewide Funding Amounts

Program	FY 19/20 Budget	FY 20/21 Budget	FY 21/22 Proposed Budget Early Action	FY 21/22 Proposed Budget (January)	FY 21/22 Approved Budget (AB 128) Budget Bill Jr. (SB 129)	FY 21/22 Budget Bill Jr. (SB 170)* Resources Trailer Bill (SB 155)*
AB 617 – Implementation	\$50M	\$50M	\$0	\$50M	\$0	\$50M
AB 617 – Incentives	\$245M	\$0	\$125M	\$140M	\$0	\$260M
AB 617 – Community Grants	\$10M	\$0	\$0	\$10M	\$0	\$10M
Clean Vehicle Rebate	\$238M	\$0	\$0	\$0	\$525M	\$0
Clean Truck & Bus	\$182M	\$0	\$165M	\$150M	\$315M	\$0
Ag Diesel Engine Replacement	\$65M	\$0	\$90M	\$80M	\$0	\$213M
Clean Cars For All/ School Bus/Equity	\$65M	\$0	\$74M	\$76M	\$150	\$0
AB 836 – Clean Air Centers	\$0	\$5M	\$0	\$0	\$0	\$25M**
Prescribed Fire	\$2M	\$0	\$0	\$2M	\$0	\$2
Carl Moyer Program	\$93.6M	\$93.6M	\$0	\$247M	\$247M	\$0
Zero-Emission Lawn and Garden	\$0	\$0	\$0	\$0	\$0	\$30M
Woodstove Replacement	\$3M	\$0	\$0	\$0	\$0	\$5M

* Pending Governor's

Signature ** Overall Budget for

"Resilience Centers"

BARC Governing Board Meeting September 17, 2021

2021-22 Zero-Emission Vehicles Package



			Final ZEV Package					
	202	2021-22		2022-23		3-24		
Program	Department	GF	Special Funds	GF	Special Funds	GF	Special Funds	Total Funding
ZEV Market Development Strategy	GO BIZ	\$5						\$5
ZEV Manufacturing Grants	CEC	\$125		\$125				\$250
ZEV Fueling Infrastructure Grants	CEC	\$500						\$500
Drayage	CARB	\$75		\$75		\$70		\$220
Trucks & Infrastructure	CEC	\$85		\$85		\$80		\$250
Drayage Trucks & Infrastructure	CARB	\$40						\$40
Pilot Project	CEC	\$25						\$25
Transit Buses & Infrastructure	CARB	\$70		\$70		\$60		\$200
	CEC	\$30		\$30		\$30		\$90
School Buses & Infrastructure	CARB	\$130		\$135		\$135		\$400
School Boses & Inirdshoctore	CEC	\$20		\$15		\$15		\$50
Clean Trucks, Buses & Off-Road Equipment	CARB	\$98	\$402					\$500
Clean Vehicle Rebate Project	CARB	\$425	\$100	\$0		\$0		\$525
Clean Cars 4 All & Other Equity Projects	CARB	\$0	<mark>\$1</mark> 50	\$125		\$125		\$400
Transportation Package ZEV	Cal STA	\$100	\$307					\$407
Near Zero Heavy Duty Trucks	CARB	\$45						\$45
	Totals	\$1,773	\$959	\$660	\$0	\$515	\$0	\$3,907

2021-22 Zero Emission Vehicles Package



Questions / Discussion

Climate Resilience/Adaptation: New State and Federal Funding Opportunities



Presentation to Bay Area Regional Collaborative September 17, 2021

Rebecca Long, MTC/ABAG Assistant Director of Legislation & Research



Climate Adaptation Funding in FY 2021-22

SB 170, a budget trailer bill on the Governor's desk, appropriates \$369 million in FY 2021-22 to new and existing programs as part of a "climate resilience" package, including:

- \$45 million for new grant program Regional Climate adaptation planning & implementation and regional climate collaboratives (NEW)
- \$50 million for Urban Greening/Urban Forestry (CA Resources Agency)
- **\$115 million** for Transformative Climate Communities*
- At least \$5 million for San Francisco Bay Conservancy Program
- \$5 million for Vulnerable Communities Platform and Cal-Adapt Mapping

* This program is a broad climate change-related program (not focused on adaptation) to support development and implementation of neighborhood level climate community plans. Few Bay Area communities will qualify due to focus on top 10% CalEnviroScreen census tracts.



New Regional and Local Climate Adaptation and Resiliency Program Funding in FY 2021-22

Office of Planning and Research Programs

- \$25 million for Regional Climate Resilience (Planning & Implementation)
 - At least \$12.5 for Regional Climate Adaptation Planning and Action Plans through the existing Integrated Climate Adaptation and Resiliency Program (ICARP)
- \$10 million for Climate Adaptation and Resilience Planning Grants

- \$10 million for the Regional Climate Collaborative Program
 - Program established by SB 1072 (Leyva, 2017) but never funded
 - Aims to build capacity among community-based organizations (CBOs) to identify climate adaptation needs, focused on under-resourced communities
 - New funding opportunity for CBOs to help identify & address climate-related risks to the region's most vulnerable populations

Proposed Climate Adaptation Spending Significantly Expands in Next Two Budget Years

SB 155 sets includes climate resilience spending targets for the next two budget years (FY 2022-23 and FY 2023-24) of \$2.3 billion subject to future budget appropriation, including:

- Multi-benefit Nature Based Solutions:
- Coastal Protection/Adaptation:
- Extreme Heat programs:
- Urban Greening/Urban Forestry:
- Community Resilience Centers:
- Regional Climate Resilience:
- Coastal Conservancies:



\$708 million \$500 million \$300 million \$250 million \$250 million \$225 million \$60 million

Transportation Climate Adaptation Program

- Initial budget approved over summer included a new \$300 million transportation-related climate adaptation program with
 - 50% for state highway system
 - 50% to address local roadway risks
- Funds expired due to no funding deal for high-speed rail
- Would have been eligible for planning and implementation; administered by the California Transportation Commission on a competitive basis
- Championed by MTC and Transportation California as part of a broader transportation package
- Priority for inclusion in FY 2022-23 State Budget



Federal Infrastructure Bill Invests \$46 B in Resilience

- The Infrastructure Investment and Jobs Act invests in various resilience needs:
 - FEMA's BRIC (Building Resilient Infrastructure & Communities) \$1B
 - Flood mitigation
 - Drought
 - Ecosystem restoration
 - Wildfire management
 - Cybersecurity
- New PROTECT Grants (\$250 M-\$300M/Year nationwide) under U.S. DOT
 - For planning, infrastructure, evacuation routes to address at risk costal infrastructure.
- Authorizes Transportation Resilience and Adaptation Centers of Excellence for funding, subject to future appropriation



