

ay Area Meeting Agenda

375 Beale Street Suite 700 San Francisco, CA 94105

## Bay Area Regional Collaborative

ABAG - BAAQMD - BCDC - MTC

Zack Wasserman, Chair Cindy Chavez, Vice Chair

John Gioia, Pradeep Gupta, Scott Haggerty, Brad Wagenknecht, David Hudson, Nick Josefowitz, Anne Halsted, Rod Sinks Jake Mackenzie, Nathan Miley, Julie Pierce, Dave Pine, David Rabbitt, Mark Ross, Jim Spering, and Amy R. Worth

Non-voting member: James E. Davis and Dan McElhinney

Friday, June 15, 2018 10:00 AM Board Room - 1st Floor

This meeting is scheduled to be webcast live on the Metropolitan Transportation Commission's Website: http://mtc.ca.gov/whats-happening/meetings and will take place at 10:00 a.m.

#### 1. Roll Call / Confirm Quorum

#### 2. Pledge of Allegiance

#### 3. Approval of Minutes

<u>18-0345</u> Approval of the Bay Area Regional Collaborative Minutes of April 20, 2018

Action: Board Approval

<u>Attachments:</u> 03 BARC GB Minutes 20180420.pdf

#### 4. Updates from BARC Member Agency Executive Directors

<u>18-0441</u> Updates from BARC Member Agency Executive Directors

<u>Action:</u> Information

• Greg Nudd, Deputy Air Pollution Control Officer Policy, Bay Area Air Quality Management District

 Larry Goldzband, Executive Director, Bay Conservation and Development Commission

 Alix Bockelman, Deputy Executive Director, Policy, Association of Bay Area Governments/Metropolitan Transportation Commission

#### 5. BARC Executive Director Report

<u>18-0439</u> Update on Key Projects

Action: Information

Presenter: Allison Brooks, Executive Director, BARC

Attachments: 05 BARC ED Update 06 15 18.pdf

## 6. Resilient Infrastructure as Seas Rise (RISER) SF Bay Project

18-0440 Resilient Infrastructure As Seas Rise

Action: Information

Presenter: Mark Stacey, Department of Civil and Environmental Engineering, UC

Berkeley

Attachments: 06 RISER Stacey 15June2018.pdf

#### 7. Plan Bay Area 2050 Horizon Planning Process

18-0442 Horizon and Plan Bay Area 2050

Action: Information

<u>Presenter:</u> Dave Vautin, Principal Planner, MTC

Attachments: 07 Horizon and Plan Bay Area 2050 - Overview (June 2018).pdf

#### 8. Public Comment

#### 9. Adjournment / Next Meeting

The next meeting of the BARC Governing Board will be Friday, September 21, 2018 at 10:00 a.m. at the Bay Area Metro Center, 375 Beale Street, San Francisco, CA.

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.

# Metropolitan Transportation Commission

375 Beale Street, Suite 800 San Francisco, CA 94105

## Legislation Details (With Text)

File #: 18-0345 Version: 2 Name:

Type: Minutes Status: Committee Approval

File created: 4/20/2018 In control: Bay Area Regional Collaborative

On agenda: 6/15/2018 Final action:

Title: Approval of the Bay Area Regional Collaborative Minutes of April 20, 2018

Sponsors:

Indexes:

**Code sections:** 

Attachments: 03 BARC GB Minutes 20180420.pdf

Date Ver. Action By Action Result

## Subject:

Approval of the Bay Area Regional Collaborative Minutes of April 20, 2018

#### Action:

**Board Approval** 

**Attachments:** BARC Governing Board Minutes 20180420



375 Beale Street Suite 700 San Francisco, CA 94105

## **Meeting Minutes - Draft**

## **Bay Area Regional Collaborative**

ABAG - BAAQMD - BCDC - MTC

Zack Wasserman, Chair Cindy Chavez, Vice Chair

John Gioia, Pradeep Gupta, Scott Haggerty, Brad Wagenknecht, David Hudson, Nick Josefowitz, Anne Halsted, Rod Sinks Jake Mackenzie, Nathan Miley, Julie Pierce, Dave Pine, David Rabbitt, Mark Ross, Jim Spering, and Amy R. Worth

Non-voting member: James E. Davis and Dan McElhinney

Friday, April 20, 2018 10:00 AM Board Room - 1st Floor

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#### 1. Roll Call/Confirm Quorum

### Rollcall

Present: 16 - Board Member Josefowitz, Board Member Sinks, Board Member Spering, Board

Member Gioia, Board Member Pierce, Board Member Worth, Board Member Rabbitt, Board Member Halsted, Board Member Pine, Board Member Mackenzie, Board Member Halsted, Board Member Gupta, Board Member Davis, Board Member Hudson, Board Member Wagenknecht, and Board Member Haggerty

Absent: 3 - Board Member Wasserman, Board Member Miley, and Board Member McElhinney

## 2. Pledge of Allegiance

#### 3. Approval of Minutes

This was adopted.

18-0255 Approval of the Bay Area Regional Collaborative Minutes of November 17,

2017 and February 16, 2018

Action: Board Approval

Attachments: BARC Governing Board Minutes 20171117.pdf

BARC Governing Board Minutes 20180216.pdf

### 4. Updates from BARC Member Agency Executive Directors

<u>18-0303</u> Updates from BARC Member Agency Executive Directors

Action: Information

Presenter:

Jack Broadbent, Executive Director, Bay Area Air

Quality Management District

- Larry Goldzband, Executive Director, Bay Conservation and Development Commission
- Alix Bockelman, Deputy Executive Director, Association of Bay Area Governments/Metropolitan Transportation Commission

#### 5. BARC Executive Director Report

<u>18-0251</u> ABAG General Assembly, Resilient by Design Bay Area Challenge,

Coordination on work with disadvantaged communities

Action: Information

Presenter: Allison Brooks, BARC Executive Director

### 6. Raising the Bar on Regional Resilience

This was adopted.

18-0254 Raising the Bar on Regional Resilience - Approval of Report

Action: Board Approval

<u>Presenter:</u> Allison Brooks, Executive Director, Bay Area Regional Collaborative

Attachments: Raising the Bar on Resilience DRAFT 20171113.pdf

April 20, 2018

#### 7. BARC Budget Fiscal Year 2018 - 2019

7 <u>18-0304</u> BARC Budget Fiscal Year 2018 - 2019

Action: Board Approval

Presenter: Allison Brooks, BARC Executive Director

Attachments: BARC FY19 Draft Budget 04 17 18.pdf

This Action Item was approved.

Aye: 16 - Board Member Josefowitz, Board Member Sinks, Board Member Spering, Board

Member Gioia, Board Member Pierce, Board Member Worth, Board Member Rabbitt, Board Member Halsted, Board Member Pine, Board Member Mackenzie, Board Member Halsted, Board Member Gupta, Board Member Davis, Board

Member Hudson, Board Member Wagenknecht and Haggerty

Absent: 3 - Board Member Wasserman, Board Member Miley and Board Member McElhinney

#### 10. Public Comment

Jane Kramer was called to speak

Jane Kramer was called to speak on item 6.

#### 8. Climate Program Updates

18-0253 9a. Global Climate Action Summit 2018

9b. Bay Area Air Quality Management District Climate Protection Grant

Program

Action: Information

<u>Presenter:</u> Abby Young, Climate Protection Manager, Bay Area Air Quality

Management District

# 9. Adapting to Rising Tides (ART) Bay Area Update Adapting to Rising Tides (ART) Bay Area Project Update

<u>18-0252</u> Adapting to Rising Tides (ART) Bay Area Project Update

Action: Information

**Presenter:** Carey Batha, ART Program Manager, Bay Conservation and Development

Commission

Page 3

## 11. Adjournment

# Metropolitan Transportation Commission

375 Beale Street, Suite 800 San Francisco, CA 94105

## Legislation Details (With Text)

File #: 18-0441 Version: 1 Name:

Type: Report Status: Informational

File created: 5/21/2018 In control: Bay Area Regional Collaborative

On agenda: 6/15/2018 Final action:

Title: Updates from BARC Member Agency Executive Directors

Sponsors:

Indexes:

Code sections:

Attachments:

Date Ver. Action By Action Result

## Subject:

Updates from BARC Member Agency Executive Directors

#### Presenter:

- Greg Nudd, Deputy Air Pollution Control Officer Policy, Bay Area Air Quality Management District
- Larry Goldzband, Executive Director, Bay Conservation and Development Commission
- Alix Bockelman, Deputy Executive Director, Policy, Association of Bay Area Governments/Metropolitan Transportation Commission

#### **Recommended Action:**

Information

**Attachments:** List any attachments.

# Metropolitan Transportation Commission

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## Legislation Details (With Text)

File #: 18-0439 Version: 3 Name:

Type: Report Status: Informational

File created: 5/21/2018 In control: Bay Area Regional Collaborative

On agenda: 6/15/2018 Final action:

Title: Update on Key Projects

Sponsors:

Indexes:

**Code sections:** 

Attachments: 05 BARC ED Update 06 15 18.pdf

Date Ver. Action By Action Result

Subject:

Update on Key Projects

Presenter:

Allison Brooks, Executive Director, BARC

**Recommended Action:** 

Information

**Attachments:** 

# BARC Executive Director Report

BARC Governing Board June 15, 2018



# **For Today**

- 1. ABAG General Assembly Summary
- 2. Carbon Free Future Expanding on Solar work
- 3. Resilient by Design Bay Area Challenge
- 4. Adapting to Rising Tides Bay Area



# 1. ABAG General Assembly

# **Overarching Questions:**

- How can our institutions evolve to meet 21<sup>st</sup>
   Century challenges?
- What is the role of regional agencies in addressing big resilience issues like wildfires, earthquakes, flooding and energy?



# 1. ABAG General Assembly

## **Next Steps on Issue Areas:**

## Wildfires:

- White Paper outlining the policy tools jurisdictions have to prepare for wildfires.
- Ongoing technical assistance to jurisdictions, including providing support to submit grants for FEMA funding.

## **Earthquakes:**

- Region-wide inventory of fragile buildings and an assessment of the scale and cost
  of work that would be required to bring all the housing up to a certain level of
  performance.
- Project will link seismic retrofit to affordable housing preservation.
- Technical Assistance e.g. Assisting San Jose in implementing our Soft Story Model Ordinance
- Integrating seismic impacts and policies into the Horizon modeling process



# 1. ABAG General Assembly

# **Identified Next Steps on Issue Areas:**

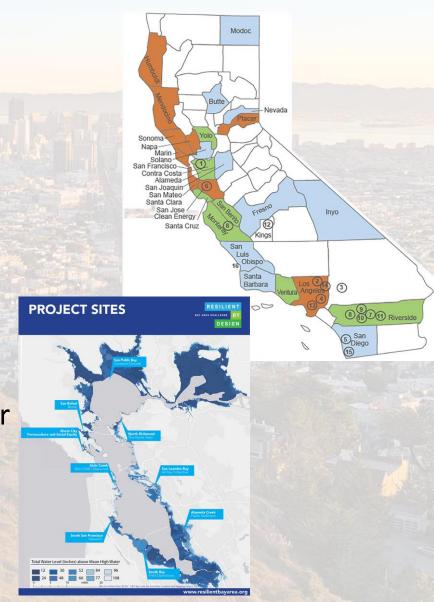
## **Energy:**

 Convene Bay Area CCA's to identify regional level coordination opportunities – data, legislative actions, etc.

# Flooding/Sea Level Rise:

- Assessment & strategic plan
- Establishing clear road maps for RBD project implementation





## 2. Carbon Free Future

- ➤ California Energy Commission voted 5-0 to adopt standards requiring solar systems for new homes. First in nation. Goes into effect Jan. 1, 2020.
- ➤ BAAQMD, BayREN, BARC looking to expand project focus on slate of policies and actions, in addition to solar ordinance, to help jurisdictions, and Bay Area region, reach zero-net carbon. Focus may include:
  - Continuing to bring best practices to scale
  - Standardization of policies across jurisdictions
  - Ways to streamline permitting process
- ➤ BAAQMD will announce first slate of recipients from Climate Program Grants many will help us advance innovations on this front.



# 3. Resilient by Design - STATS

## <u>Participation</u>:

- 250 attendees at presentations by Design Teams (May 17)
- 3,400 tuned in to YouTube livestream
- Over 500 people came out to Final Event (May 18)
  - 122 agencies represented
  - 141 Stakeholders from community, business, and educational organizations
- 9,300 unique visitors to website in May





# 3. Resilient by Design - Next Steps

## Next Steps (Summer/Fall 2018):

- Assessment/Evaluation of the project
- Phase II Work Plan near-term to longer-term implementation of projects, ongoing community capacity building, regionalscale actions, legislative agenda





# 4. ART Bay Area

Regional Scale Analysis to Understand Sea Level Rise Impacts on transportation network, people and places to get to implementation strategies.

- BCDC team working closely with Horizon team at MTC/ABAG.
- Integrating other analysis:
  - Operational Landscape Units -SFEI and SPUR
  - Prof. Mark Stacey, UC Berkeley.

**Upcoming Regional Working Group:** 

June 19, 2018 – San Francisco Estuary Institute



# **THANK YOU!**

**Allison Brooks** 

Abrooks@bayareametro.gov

(415) 778-5265



# Metropolitan Transportation Commission

375 Beale Street, Suite 800 San Francisco, CA 94105

## Legislation Details (With Text)

File #: 18-0440 Version: 2 Name:

Type: Report Status: Informational

File created: 5/21/2018 In control: Bay Area Regional Collaborative

On agenda: 6/15/2018 Final action:

Title: Resilient Infrastructure As Seas Rise

Sponsors:

Indexes:

**Code sections:** 

Attachments: 06 RISER Stacey 15June2018.pdf

Date Ver. Action By Action Result

## Subject:

Resilient Infrastructure As Seas Rise

#### Presenter:

Mark Stacey, Department of Civil and Environmental Engineering, UC Berkeley

### **Recommended Action:**

Information

**Attachments:** List any attachments.

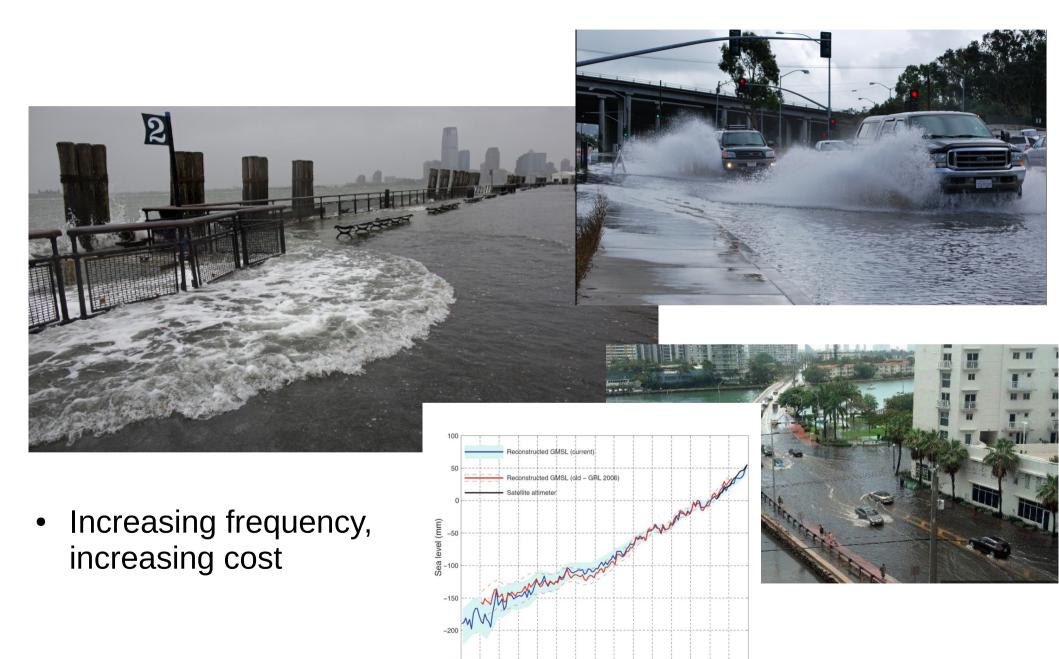
# Future San Francisco Bay Shorelines and Regional Interdependence



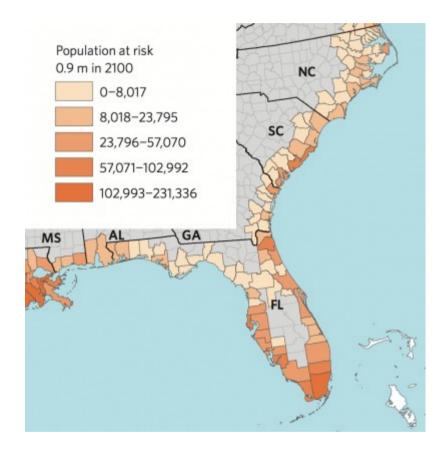
Mark Stacey RISER Project UC-Berkeley, UC-Davis, NYU, USGS Sponsor: NSF-CRISP

Bay Area Regional Collaborative Board Meeing June 15, 2018

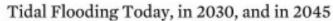
# Coastal Flooding: An Emerging "Nuisance"?

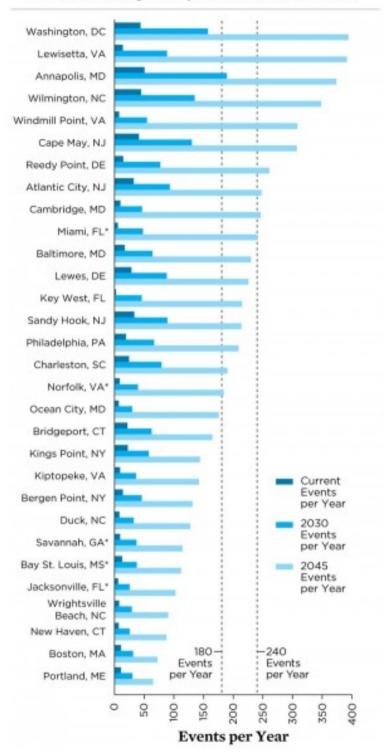


# **Coastal Populations**

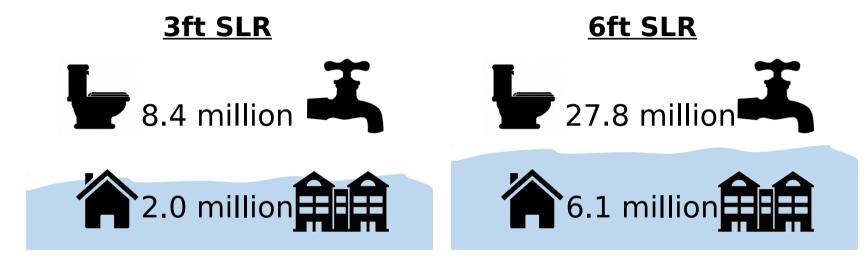


- Recent studies documented millions in the US that are vulnerable to flooding from future sea level rise
  - Disruption of infrastructure systems expands footprint



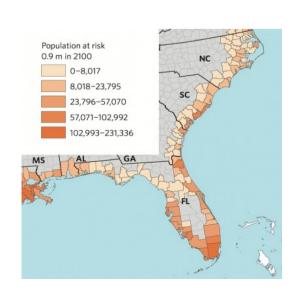


# Coastal Infrastructure Disruptions



Direct flooding data from Hauer et al. (2016)

 Accounting for wastewater infrastructure increases footprint of coastal flooding by a factor of more than 4



# "Nuisance Flooding": San Francisco Bay



- Tidal inundation already occurring along SF waterfront and at Tam Junction in Marin County
  - January (annual peak) high tides inundate currently
  - Future: daily high tides?

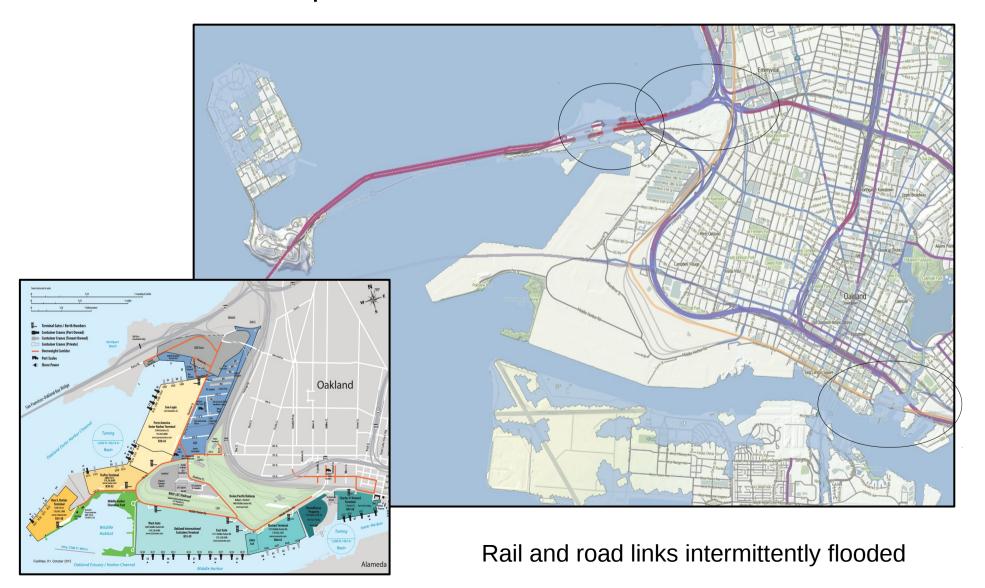
# More than a "nuisance"

 Critical elements of regional, national and global transportation system disrupted

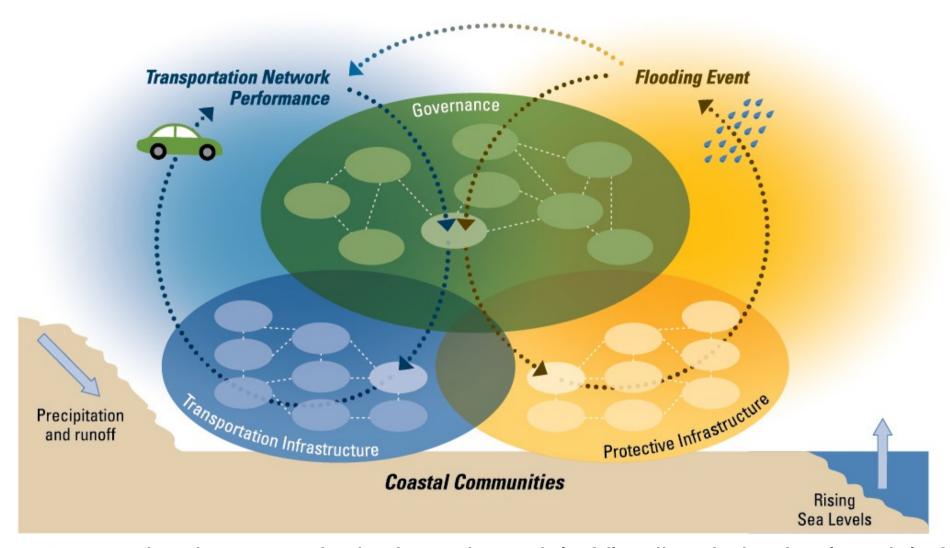


# Shorelines as the transition

 Port of Oakland vulnerability most pronounced in linkages to land-based transportation



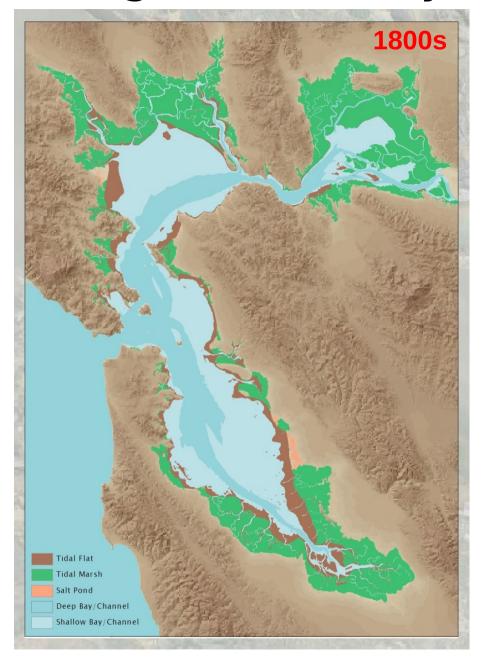
# Challenges to Coastal Community Resilience

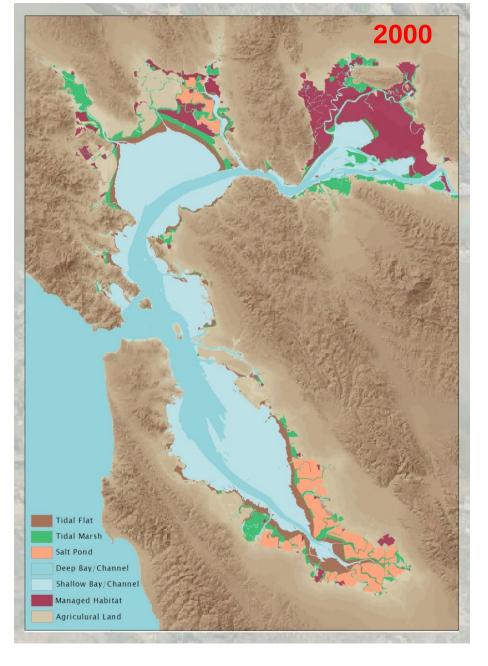


- RISER Project integrates hydrodynamic model of flooding, behavioral model of traffic flows and empirical evaluation of decision-making network
  - Driven by scenarios for environmental forcing and shoreline configurations

Important Theme: Local-regional Linkages and Network Effects Create Interdependencies

# Changes to SF Bay Shorelines

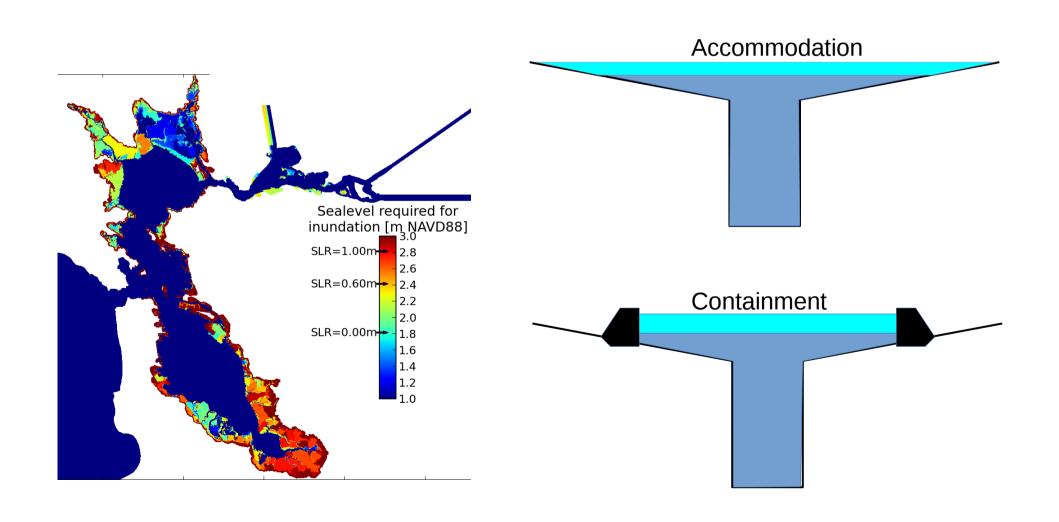




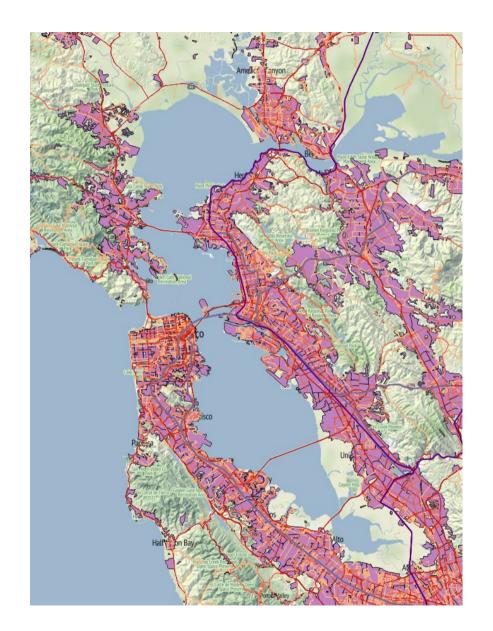
History of 'reclamation' transforming to 'restoration'

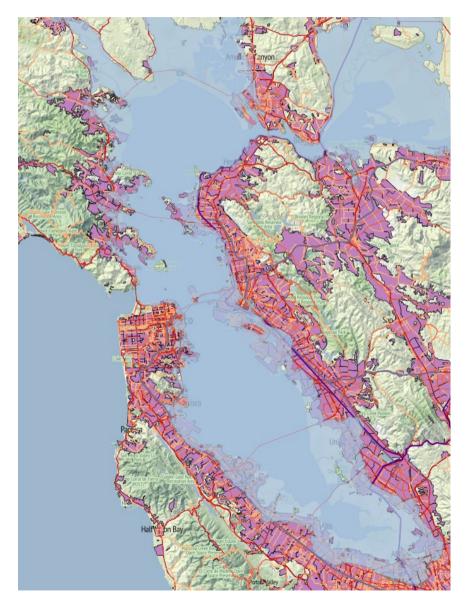
# Accommodation and Containment: SF Bay

- Management question: where, and to what extent, do we accommodate the rising water associated with sea level rise?
  - Implications for hydrodynamics and infrastructure function



# Accommodation in an urban estuary

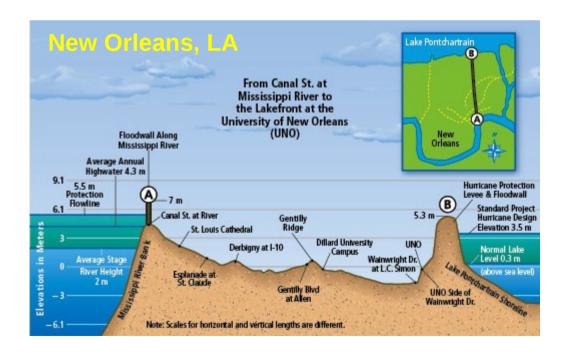




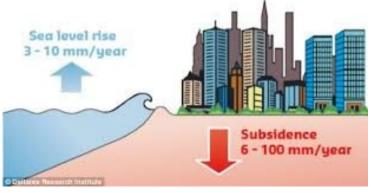
Decisions demand consideration of interacting vulnerabilities

# Individual Community Decision-Making

- Individual actor likely to extend protections vertically over time
  - Addresses near-term threat with incremental investment
  - No accounting of regional benefits (or costs) of alternative actions

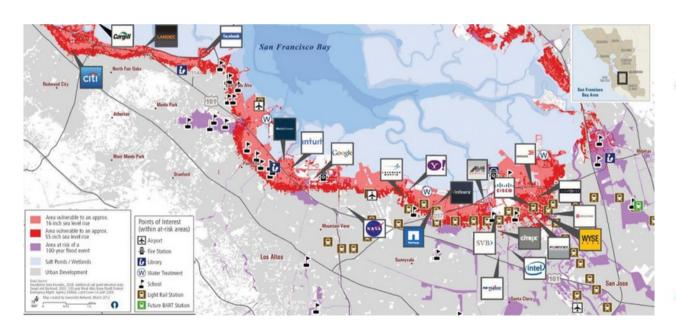






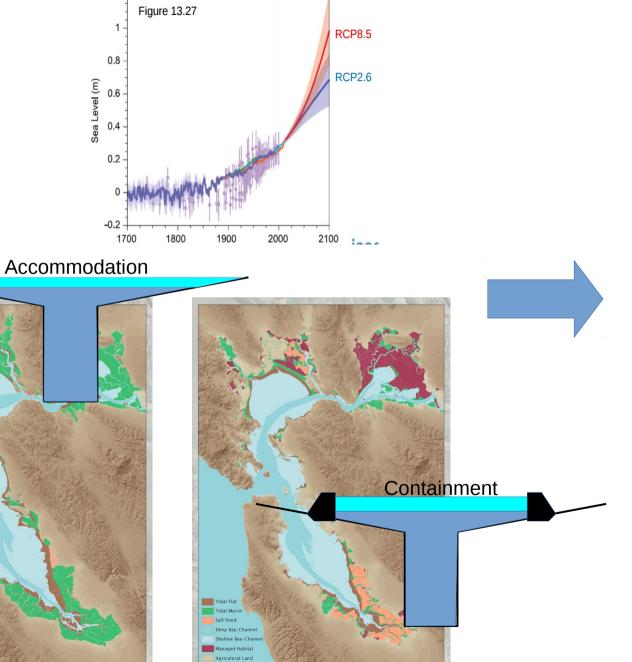
# Challenge: Governance structures

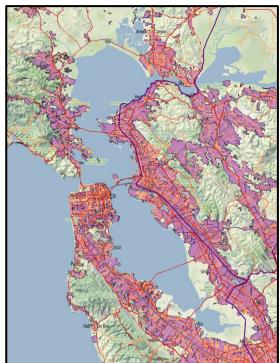
- Jurisdictions at range of scales with overlapping responsibility
  - Property owners, cities, county, state
  - Airports and transportation network
  - Cross-cutting agencies: Bay Conservation and Development Commission, e.g.

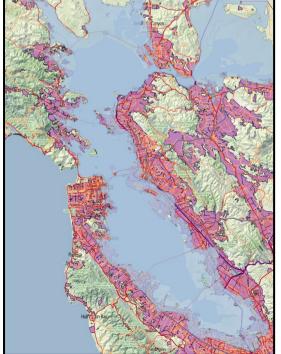




# Shoreline and Sea Level Scenarios

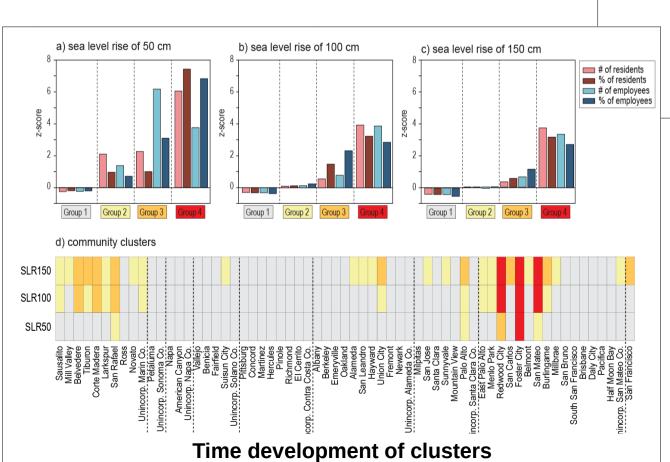


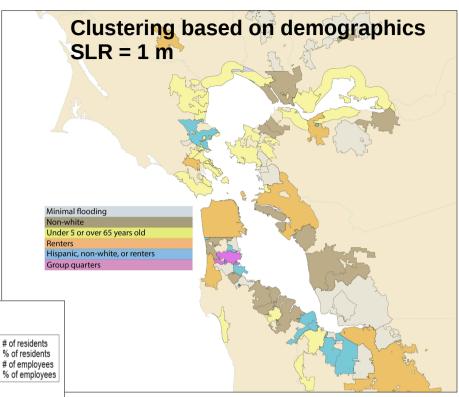




# **Shared Experiences**

- Inundation map merged with census data
  - Clusters based on similarities between communities
  - Clustering varies with time (sea level) and data considered

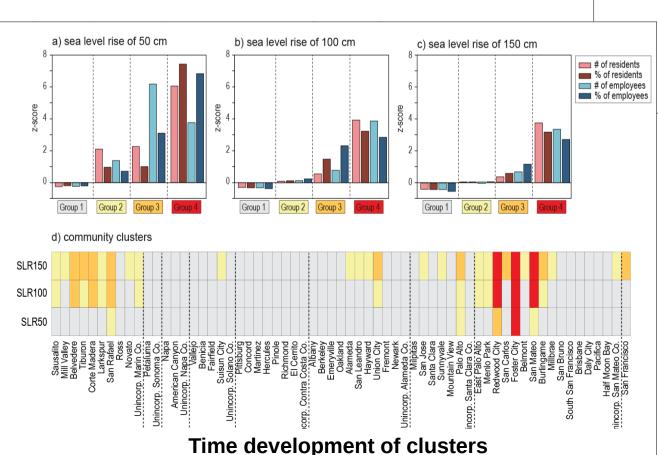


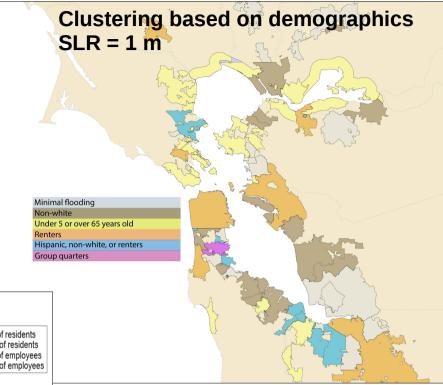


Hummel et al., in press at Regional Environmental Change

# **Shared Experiences**

- Inundation map merged with census data
  - Clusters based on similarities between communities
  - Clustering varies with time (sea level) and data considered





## Regional Opportunity

- Communities with similar risks may benefit from sharing knowledge
- Future clustering may motivate unanticipated connection

Hummel et al., in press at Regional Environmental Change

# Interdependent Vulnerabilities

- Disruption by flooding on Berkeley water front
  - 90% capacity reduction
- Behavioral model adjusts traffic patterns
  - Model built from cell phone data
- Travel time increases:

Green: 0%

Orange-Yellow: 0-50%

Red: >50%

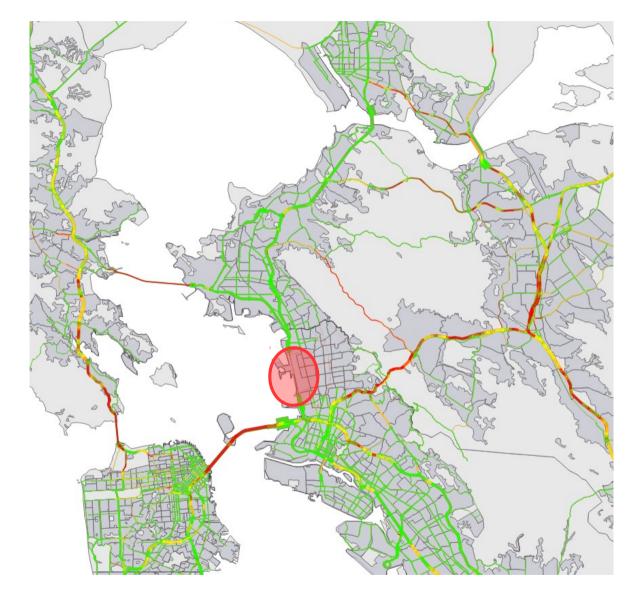


Figure from Sheehan and Pozdnukhov, unpublished

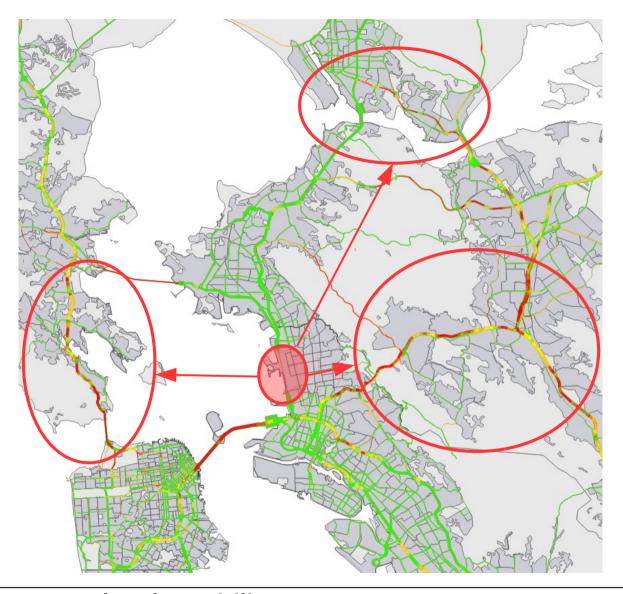
### Interdependent Vulnerabilities

- Disruption by flooding on Berkeley water front
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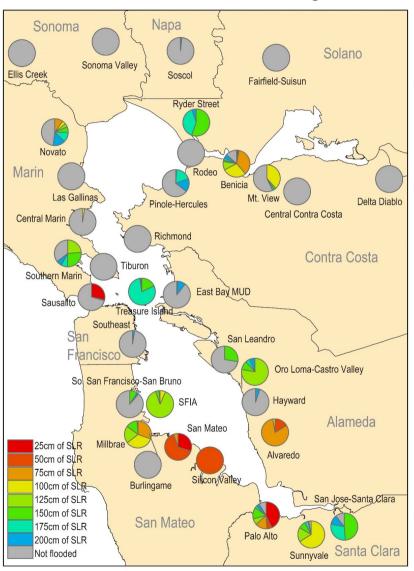
Red: >50%



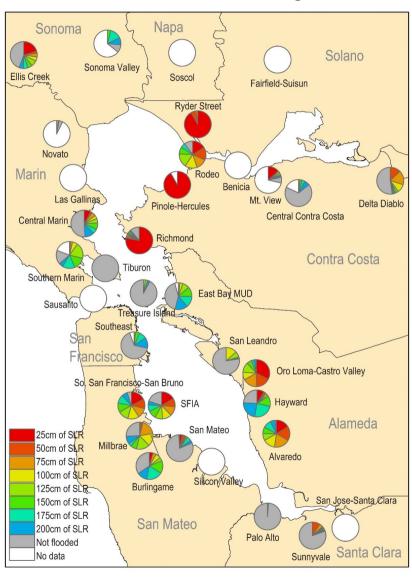
- Regional Costs due to Local Vulnerability
  - Localized inundation event creates regional changes in travel times and costs
  - Creates incentive for regional investment in local protections

#### Wastewater Infrastructure Vulnerabilities

#### Surface Water Flooding



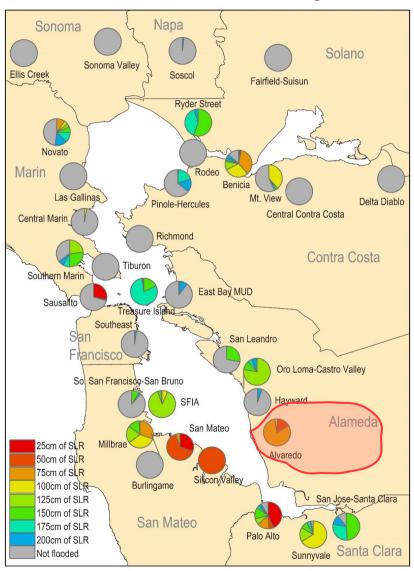
#### **Groundwater Flooding**



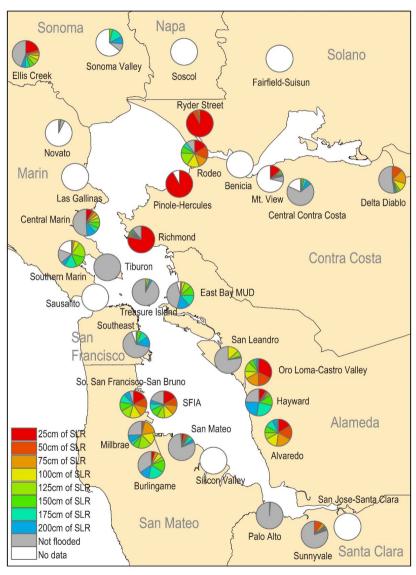
From Hummel et al., in press at *Earth's Future* 

#### Wastewater Infrastructure Vulnerabilities

#### Surface Water Flooding

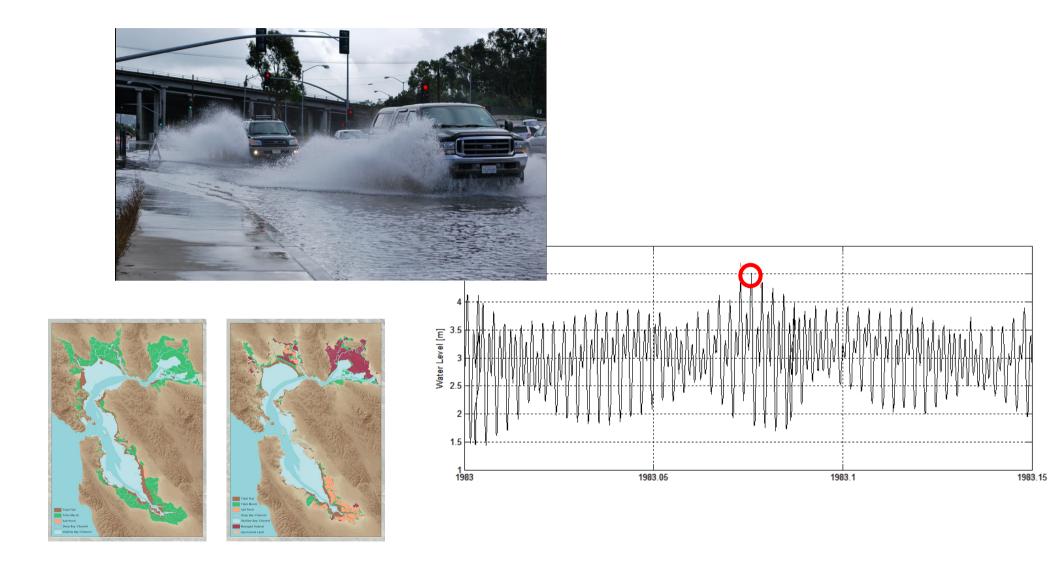


#### **Groundwater Flooding**



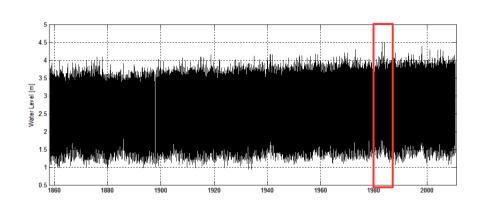
Lack of redundancy in wastewater network means vulnerabilities at key locations (WWTPs) create disruption for population served by facilities

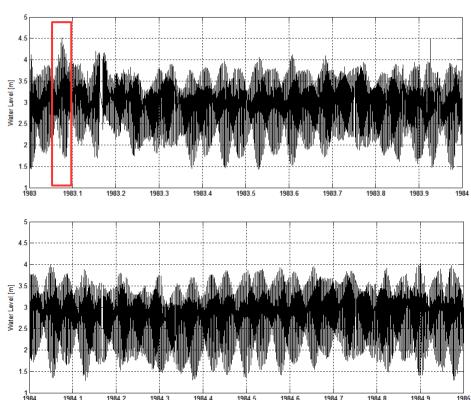
# Importance of the tides in SF Bay

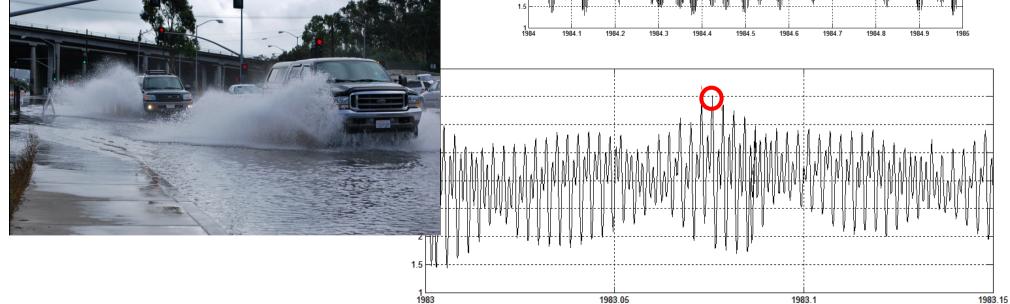


- Tides dominate signature of high water events
  - Need to consider interaction of tides with the basin

# Importance of the tides in SF Bay





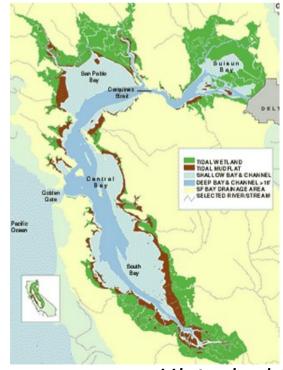


#### Tides in basins: Amplification v. Dissipation

- Tides can be amplified in basins
  - Set by interplay of tidal forcing and bathymetry and shorelines
- Friction and interaction with perimeter dissipate tidal energy
  - Wetlands, topography and shallow regions
- San Francisco Bay experiences both
  - South Bay: Amplified
  - North Bay:
     Dissipated

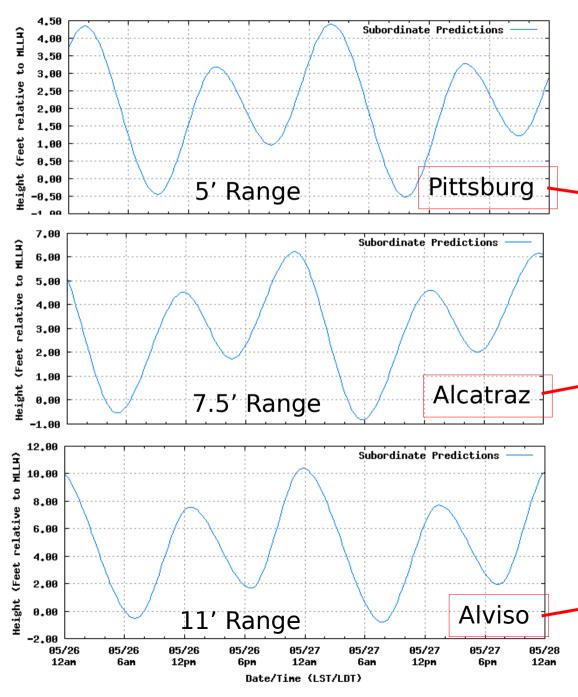


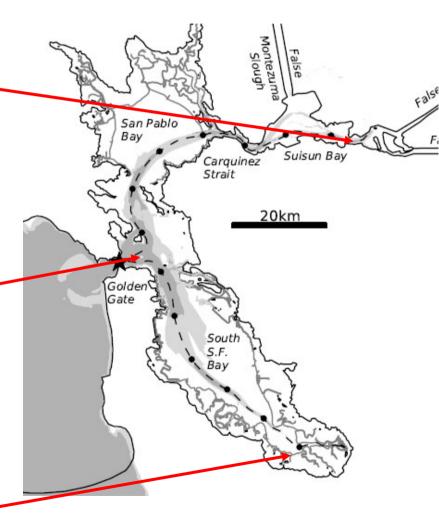
Bay of Fundy, Low and (nearly) High Tide



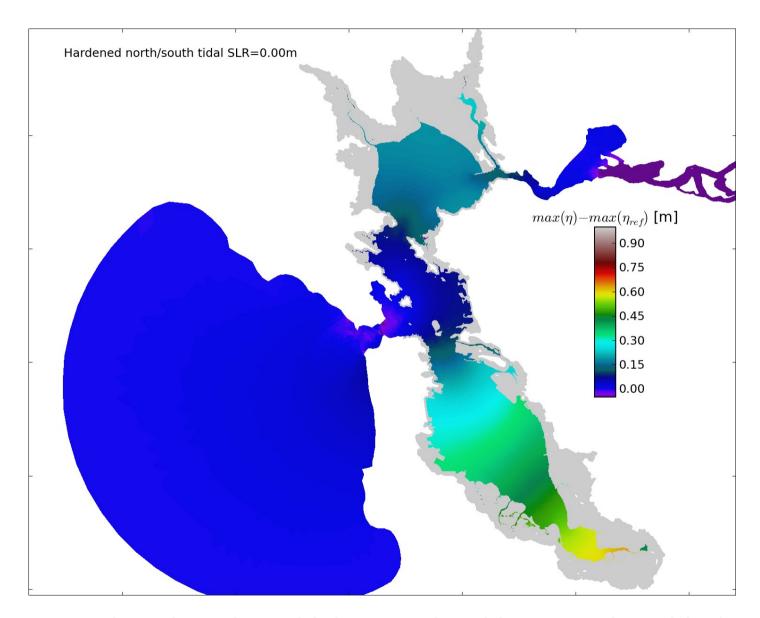
Historical SF Bay

# Examples: SF Bay



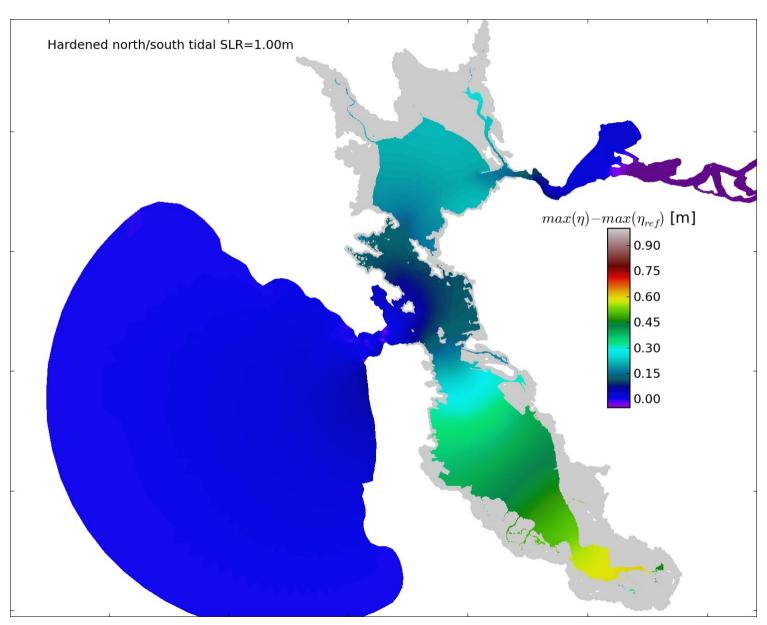


## Current conditions with tidal forcing



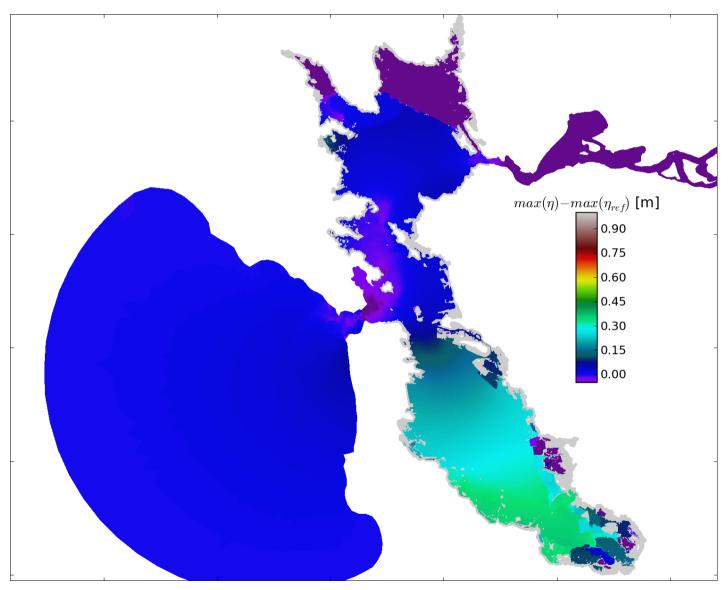
Colors show water elevation *above* high water level in ocean (M2 tides) Gray areas show extent of grid

## Full Containment, 1 meter SLR



Very similar to current conditions. SLR adds linearly to current water levels

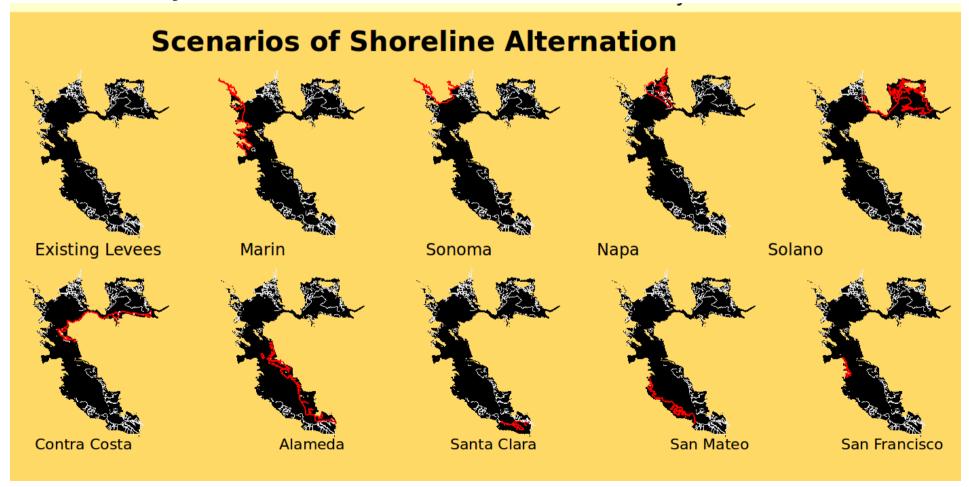
#### **Full Accommodation**



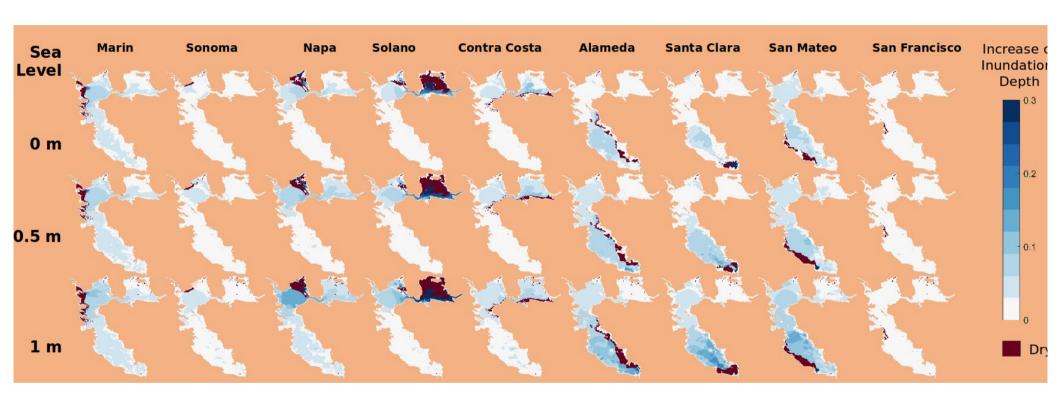
Water level in south bay is only 40-45 cm above ocean water level. With full containment (previous), was  $\sim$ 60 cm above ocean water level.

# County-by-county protective measures

- Existing topography/levees in white
  - Red lines show hardened shorelines for 9 county-bycounty scenarios



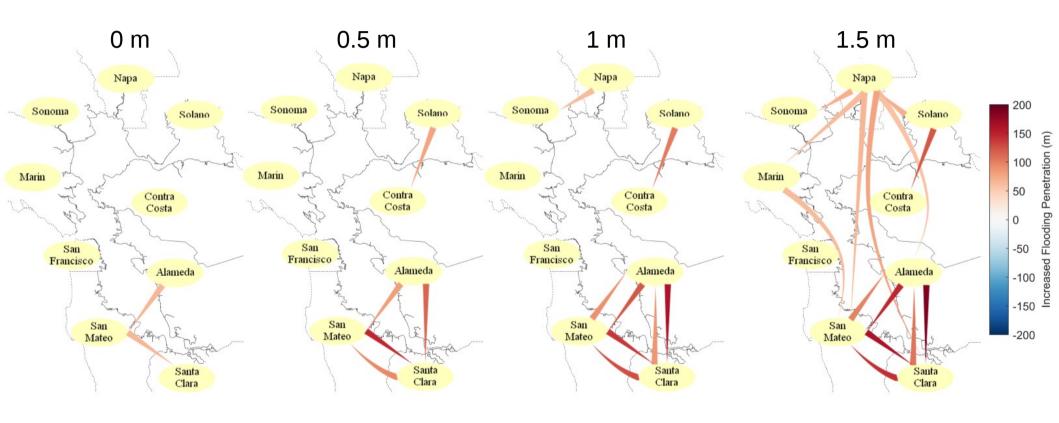
# Water level response to county actions



Shades of blue show how water level increases when walls are raised

### Interdependent Adaptation

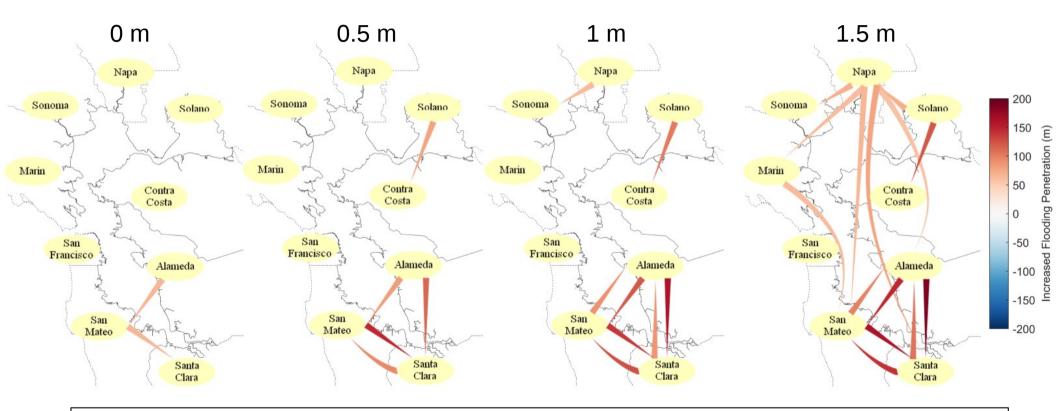
- Defining direct influence of action by one county on flooding in another
  - County-by-county shoreline protective action
  - Quantify change in flooding in other counties for 4 SLR scenarios



From Wang et al., in press at *Earth's Future* 

### Interdependent Adaptation

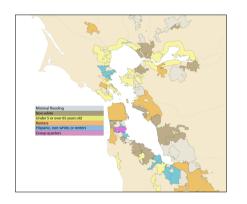
- Defining direct influence of action by one county on flooding in another
  - County-by-county shoreline protective action
  - Quantify change in flooding in other counties for 4 SLR scenarios



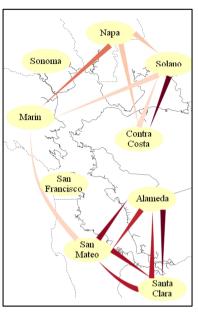
- Regional Impacts of Local Actions
  - Direct interactions means counties planning activities must account for others
  - Strongly motivates coordinated actions

### Regional Coordination in SLR Adaptation

- Summary of interdependencies
  - Shared Experience: Value of sharing knowledge
  - Interdependent Vulnerability: Regional cost from local vulnerability
  - Interdependent Adaptation: Regional impacts of local actions

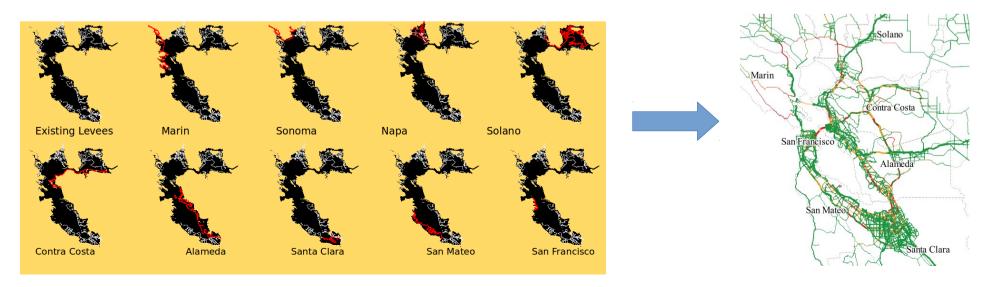






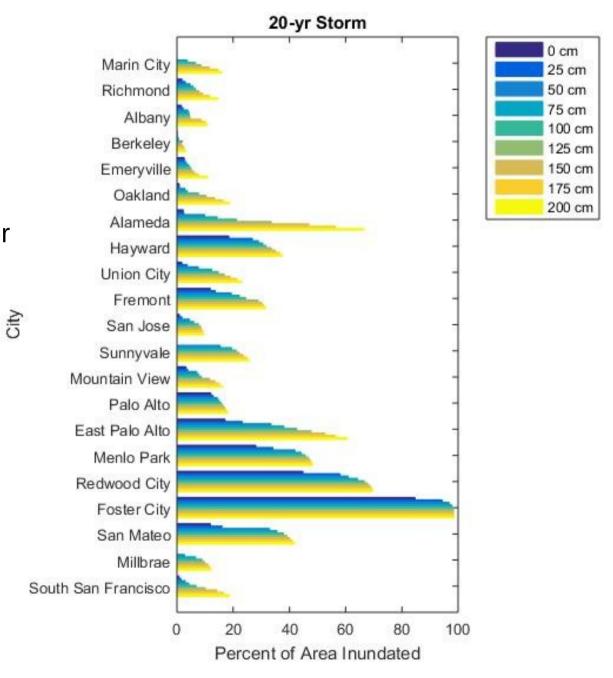
Lubell et al., In preparation for Nature Climate Change

Consider interaction between shorelines and transportation infrastructure



## Barriers to Regional Action: Timing

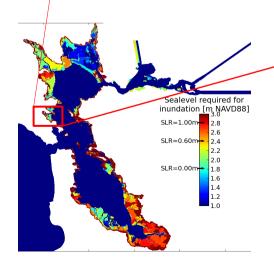
- Different communities feel the threat of coastal flooding with different levels of urgency
  - For some it is immediate, for others it is decades away
- Regional coordination requires an understanding of shared vulnerabilities at a particular time of action or planning



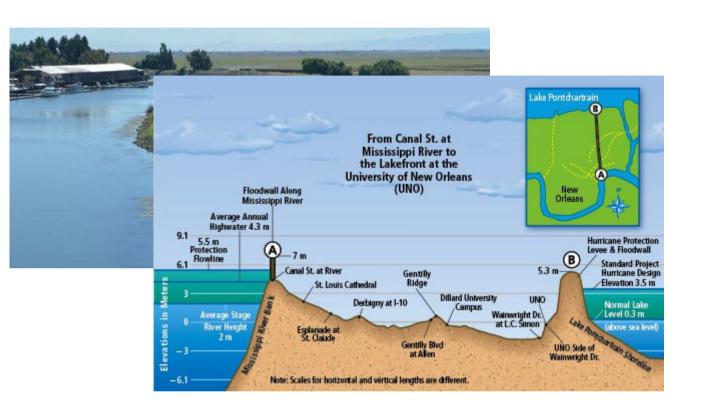
### Barriers to Regional Action: Socio-economics

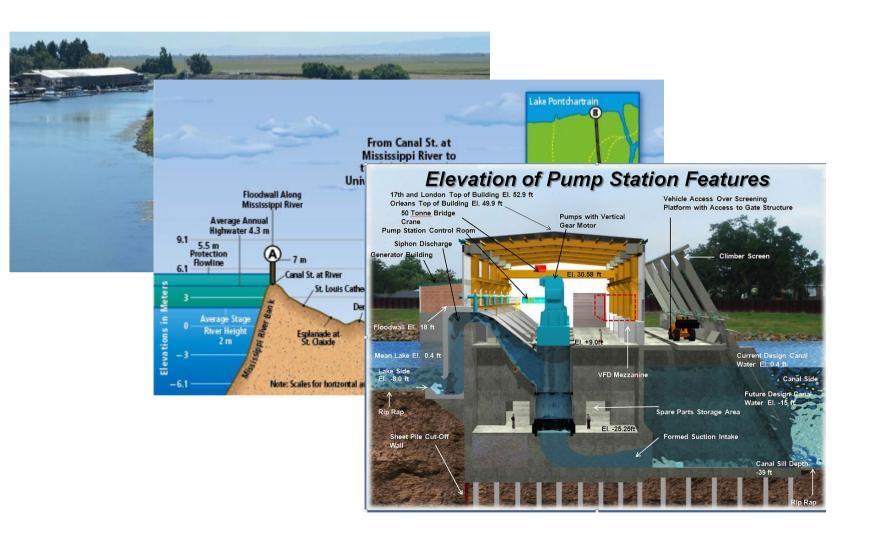
- Heterogeniety in socio-economic power
  - Many vulnerable bayfront communities have limited ability to invest for long-term
  - Interdependencies may create regional incentives for investment

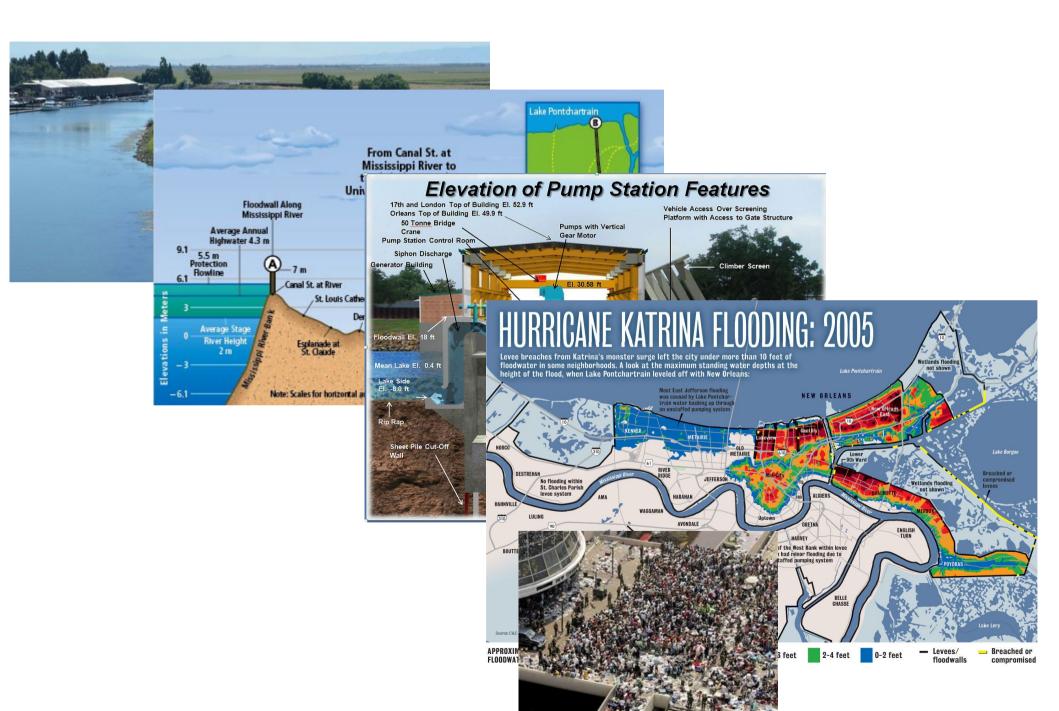








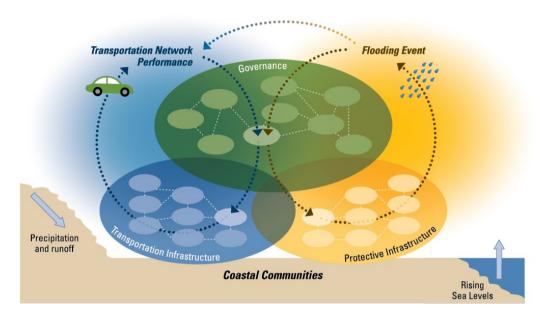




How can a region create incentives or define constraints so that local decisions do not result in path dependency towards an undesirable end point?

## Opportunities and Challenges

Immediacy of threat to local communities creates inequities in response – Regional interdependence provides counterbalance.



#### **Opportunities from Regional Analyses:**

- Consider future scenarios
  - Move discussion beyond immediate threats and consider end state for region
  - Scenario-based approach can help eliminate "leader-follower" dynamics
- Establish local-regional interactions
  - Regional costs of local action or inaction (vulnerabilities)
  - Local impacts of regional strategies



## Metropolitan Transportation Commission

375 Beale Street, Suite 800 San Francisco, CA 94105

Legislation Details (With Text)

File #: 18-0442 Version: 1 Name:

Type: Report Status: Informational

File created: 5/22/2018 In control: Bay Area Regional Collaborative

On agenda: 6/15/2018 Final action:

Title: Horizon and Plan Bay Area 2050

Sponsors:

Indexes:

Code sections:

Attachments: 07 Horizon and Plan Bay Area 2050 - Overview (June 2018).pdf

Date Ver. Action By Action Result

Subject:

Horizon and Plan Bay Area 2050

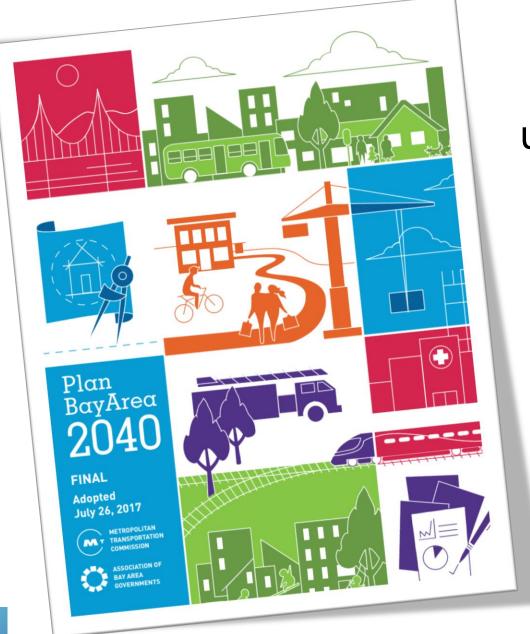
Presenter:

Dave Vautin, Principal Planner, MTC

**Recommended Action:** 

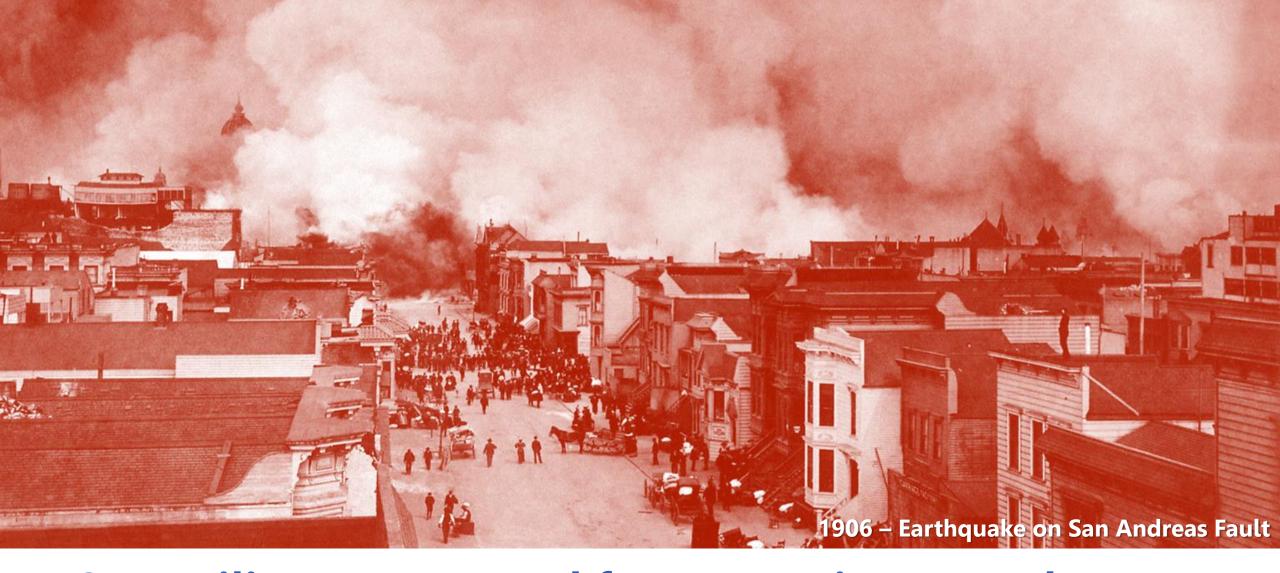
Information



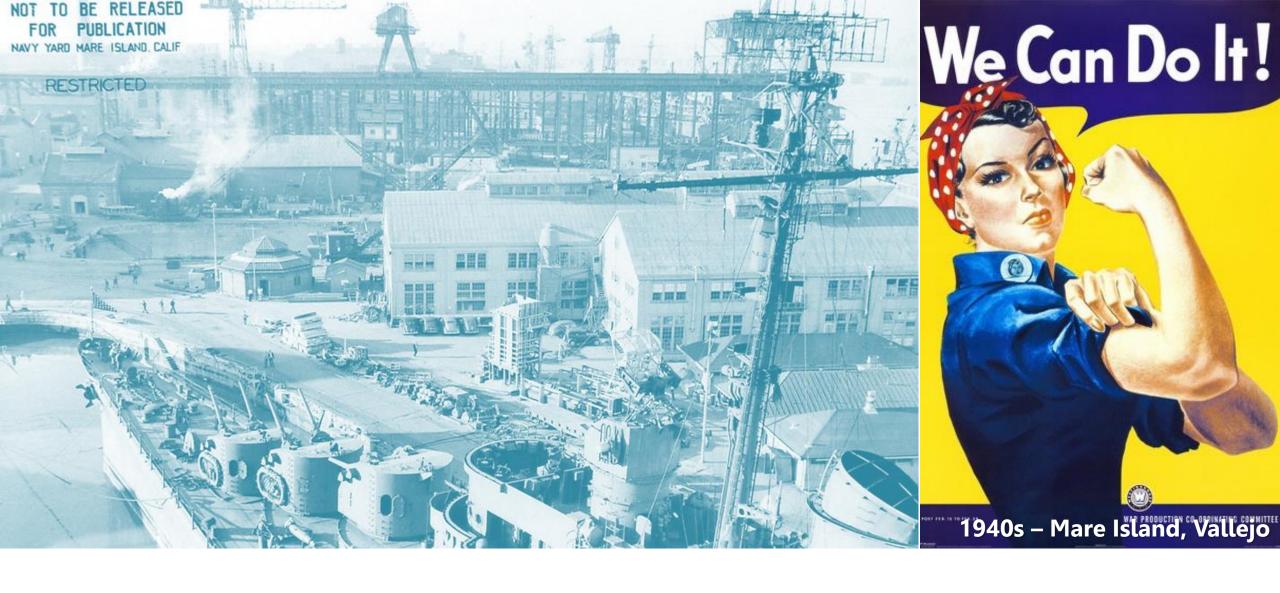


We live in a time of incredible uncertainty. And our regional plans need to acknowledge this reality.

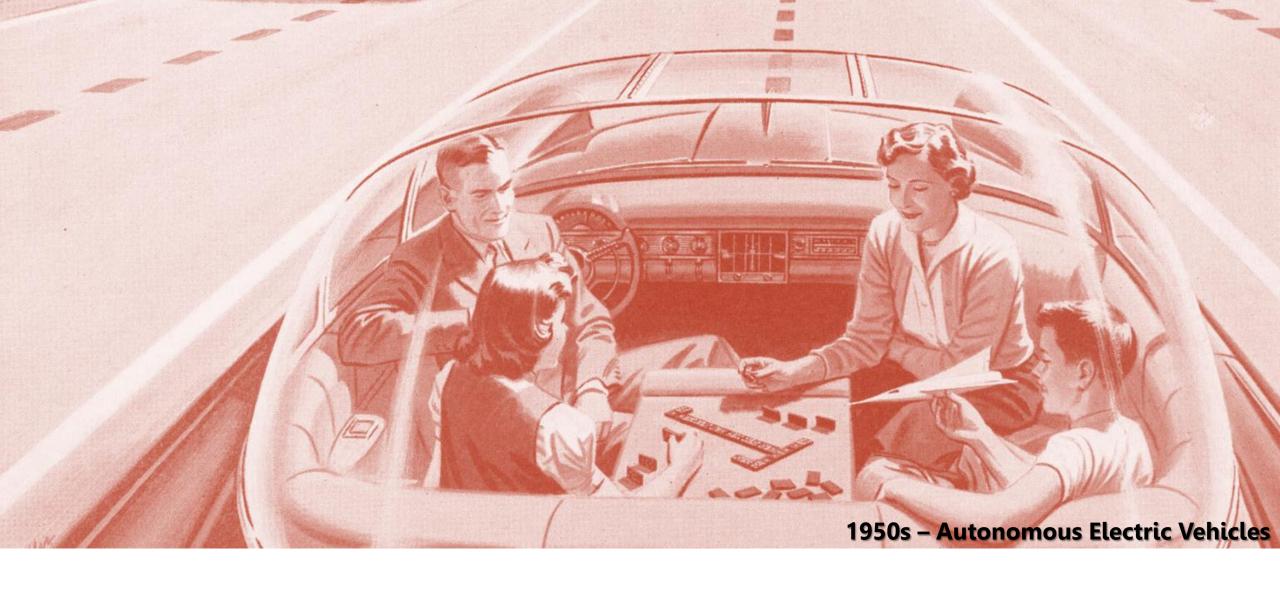
Our region's history inspired our thought process on how to prepare for ever-changing circumstances.



Our resilience to external forces – environmental, political, economic, technological – has been our greatest strength.



Unanticipated events – such as wars and earthquakes – shaped our region.



We've long dreamed about innovations that could change our lifestyles and our communities...



... but with the accelerating pace of innovation, shifts may occur sooner than expected.



The challenges we face are not merely technological – they are political, economic, and environmental.



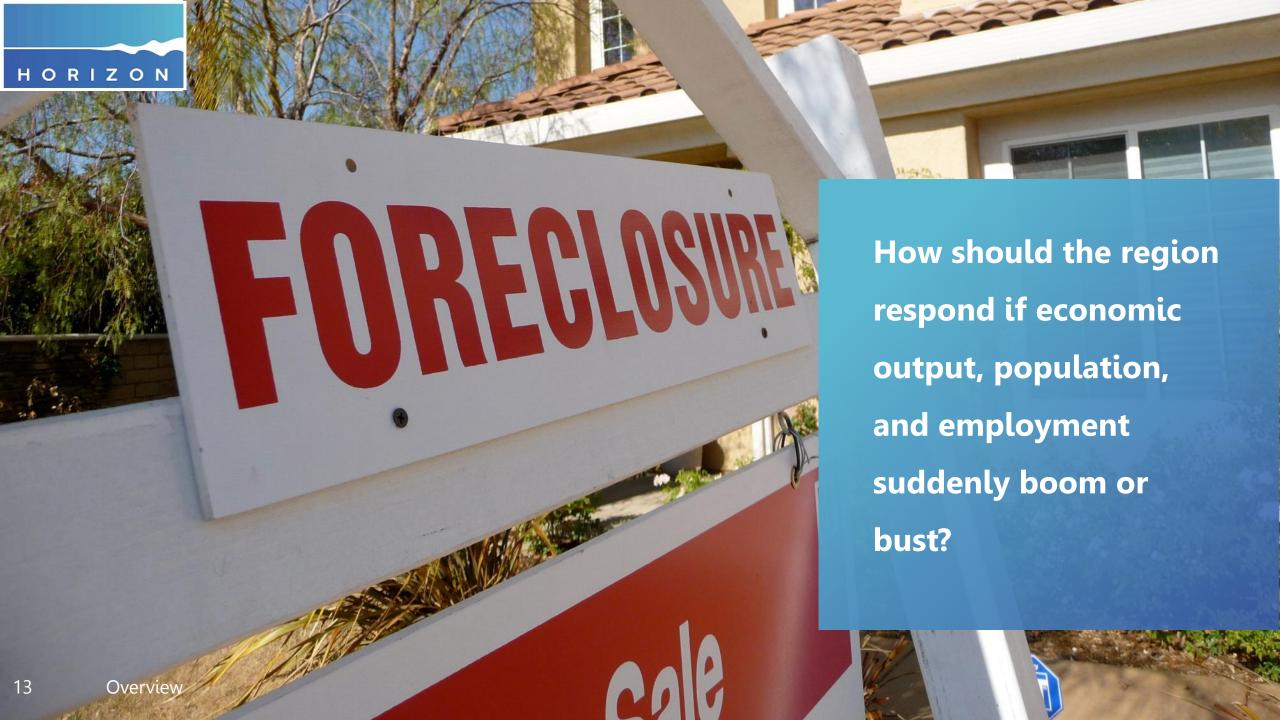
Yet we have a history of taking action to address regional crises – will we rise to the challenges of the 21<sup>st</sup> century?

















HORIZON

PLAN BAY AREA 2050

Spring 2015 to July 2017 February 2018 to June 2019

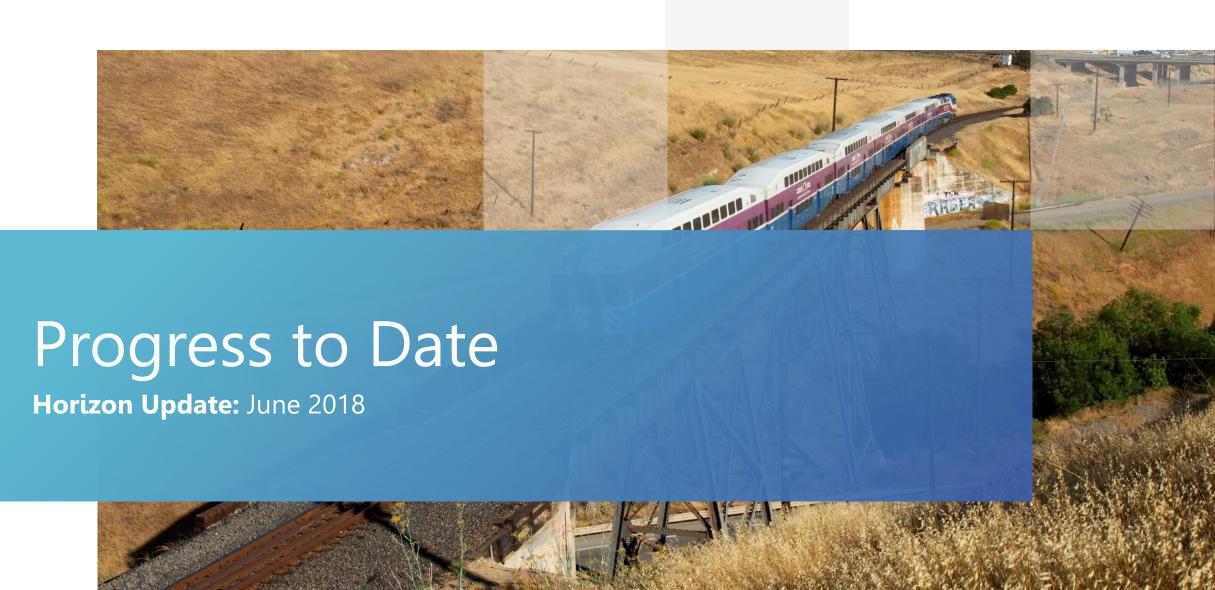
**July 2019 to June 2021** 

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

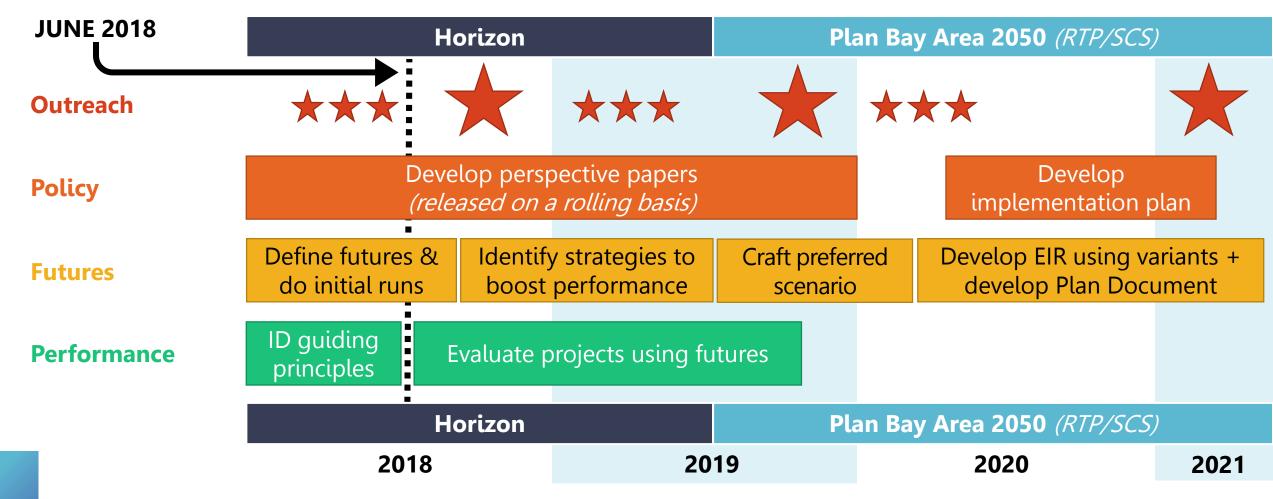
Horizon and Plan Bay Area 2050 will be more comprehensive than past RTP/SCS cycles.

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

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



### Horizon + Plan Bay Area 2050 Overview



# Public & Stakeholder Outreach

- Round 1 Public Outreach
  - Pop-Ups
  - Online Surveys
  - Request for Transformative Projects
- Ongoing Stakeholder Outreach
  - Regional Advisory Working Group
  - Online Surveys
  - Webinars



#### Round 1 Outreach

YES Conference	Feb. 24
NVTA Transit Center (Napa)	Feb. 28
Santa Rosa Junior College	Feb. 28
Pickleweed Library (Marin)	March 3
Newark Farmer's Market	March 4
Clement St. Farmer's Market (SF)	March 4
Berryessa Flea Market (San Jose)	March 4
Vallejo Art Walk	March 9
Stoneridge Mall (Pleasanton)	March 10
Campbell Farmers Market	March 11
Sunday Streets Mission District (SF)	March 11
Diridon Caltrain Station (San Jose)	March 13
Broadway Plaza Mall (Walnut Crk)	March 17
Strong Girls Conference (Sta Rosa)	March 17
Marin Farmer's Market	March 18
Sebastopol Farmer's Market	March 18
Castro Valley Middle School	March 19
SF Ferry Building	March 22
Berkeley Farmers Market	March 22
Lake Merritt	March 24
East Palo Alto Farmers Market	March 24
Sunday Streets Excelsior District (SF)	March 25
Mountain View Farmers Market	March 25
Redwood City Library	March 26
Richmond Library	March 26
Oxbow Market (Napa)	March 27
Jelly Belly Factory (Fairfield)	March 27
Daly City Farmers Market	March 29



# The San Francisco Bay Area aspires to be:

## Final Guiding Principles



**AFFORDABLE** 

All Bay Area residents and workers have sufficient housing options they can afford – households are economically secure.



**CONNECTED** 

An expanded, well-functioning transportation system connects the Bay Area – fast, frequent and efficient intercity trips are complemented by a suite of local transportation options, connecting communities and creating a cohesive region.



**DIVERSE** 

The Bay Area is an inclusive region where people from all backgrounds, abilities, and ages can remain in place – with access to the region's assets and resources.



**HEALTHY** 

The region's natural resources, open space, clean water and clean air are conserved – the region actively reduces its environmental footprint and protects residents from environmental impacts.



**VIBRANT** 

The Bay Area region is an innovation leader, creating quality job opportunities for all and ample fiscal resources for communities.

# Creating Futures to Explore

3-Minute Video – Summary of April 23<sup>rd</sup> **Horizon** Peer Exchange

https://youtu.be/1rDmygU5yn0



### **Perspective Papers**



1) Autonomous Vehicles



**5)** Future of Jobs



2) Climate Mitigation



**6)** Governance



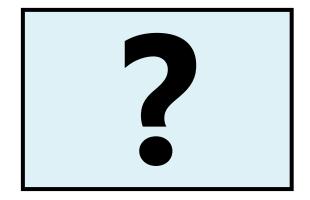
**3)** Growth Strategies



**7)** Better Buildings

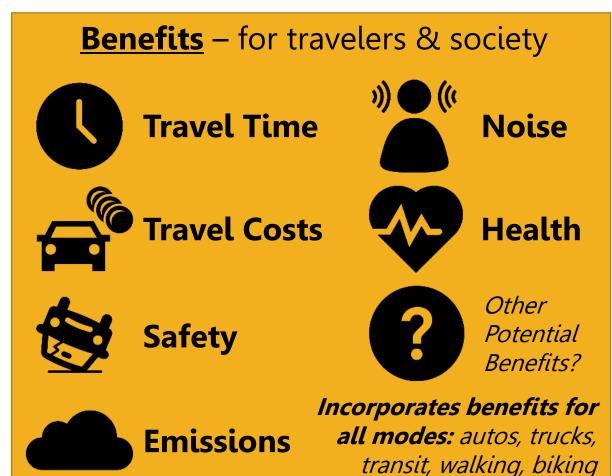


**4)** Crossings

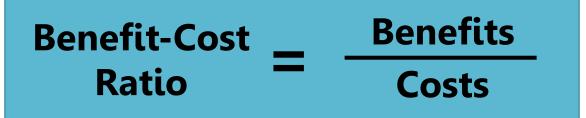


More to Come?

## Project Performance – Benefit-Cost Analysis







#### What's Next for Horizon

**Summer 2018** 

**Finalize Futures** to Explore in *Horizon* 

Request Transformative Projects

Release Paper 1 (Autonomous Vehicles)

Fall 2018

**Determine Impacts** of "Status Quo" Strategies in Each Future

Public/Stakeholder
Outreach Round 2

Release Paper 2 (Climate Mitigation)

**Winter 2019** 

**Test New Strategies in Futures** to
Determine Efficacy

Finish Analysis of Tier 1 Major Projects

Release Papers 3 & 4 (Growth; Crossings)

Spring 2019

Release Final Report on "Win-Win"/Resilient Strategies

Public/Stakeholder Outreach Round 3

**Release Paper 5** (Future of Jobs)

Integrate the most effective and resilient strategies into **Plan Bay Area 2050** 

