

ISLAIS CREEK

COMMUNITY

BAYVIEW

WATERFRONT RESILIENCE Thursday September 19, 2019













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WELCOME

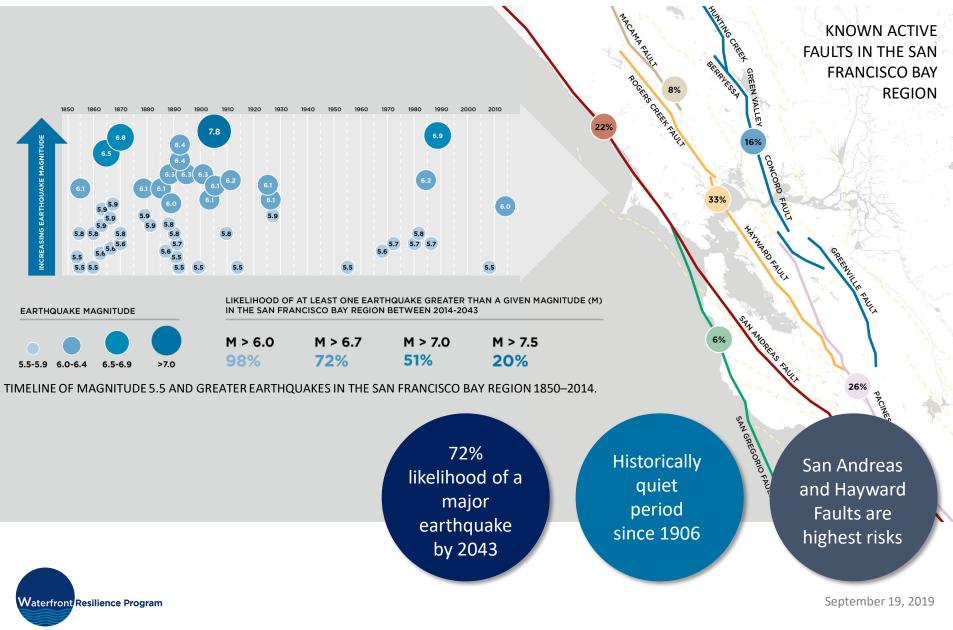
WE WILL COVER

- San Francisco's flood and earthquake risks
- City/Port of San Francisco Resilience efforts
- Port Waterfront Resilience Program
- Islais Creek Resilience
- Present tonight's activity on asset mapping
- Engage in small group activity and report back

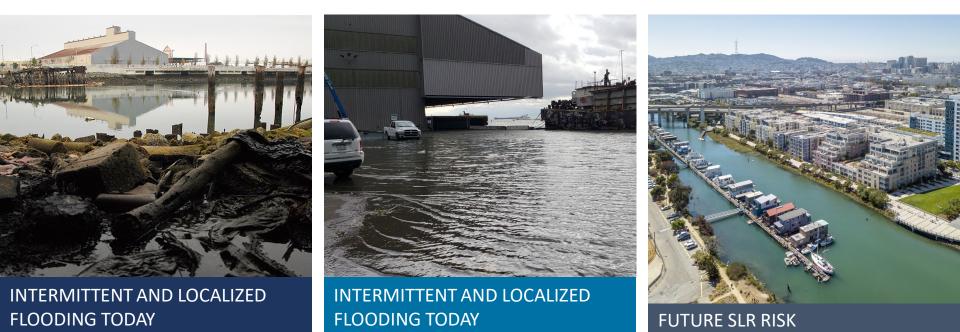




EARTHQUAKE RISK IN SAN FRANCISCO



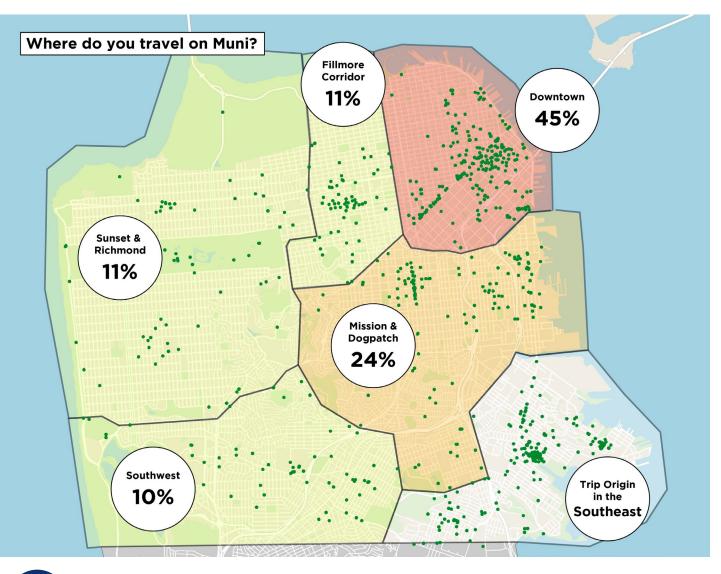
SAN FRANCISCO'S FLOOD RISK



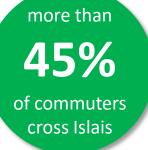
- San Francisco faces increasing flood risk
- Some shoreline areas already experience flooding
- 100 year flood event would create significant disruption to critical assets and services
- San Francisco's shoreline will flood more frequently and new areas will begin to experience flooding in the coming decades



FOCUS ON ISLAIS: FLOOD RISK AND MOBILITY

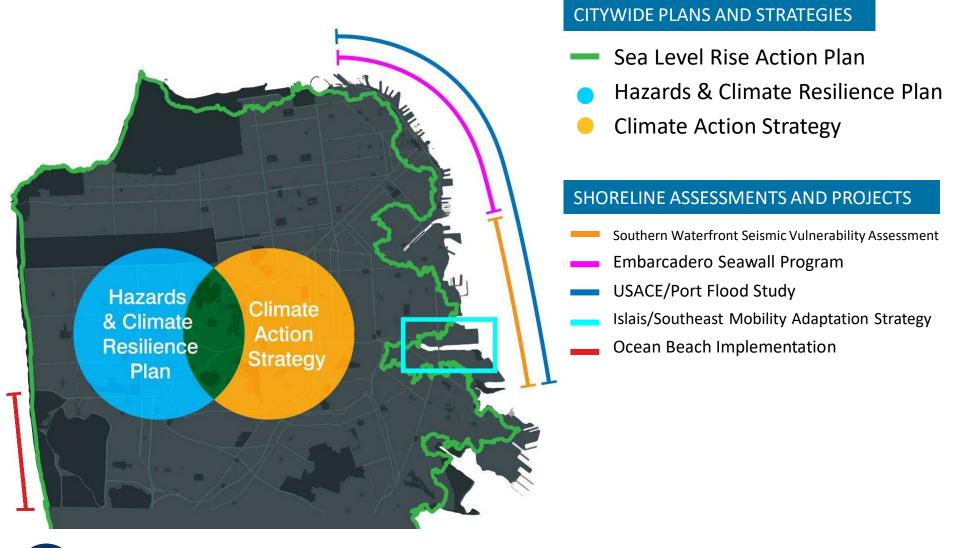






Waterfront Resilience Program

CITYWIDE RESILIENCE EFFORTS





PORT OF SAN FRANCISCO'S WATERFRONT RESILIENCE PROGRAM

The Port of San Francisco's Waterfront Resilience Program will create a safe, equitable, sustainable, and inspiring waterfront.



WATERFRONT RESILIENCE PROGRAM DRAFT PRINCIPLES

- 1. Prioritize life safety and emergency response
- 2. Advance equity in inclusive engagement, planning, and decision-making
- **3.** Enhance and sustain economic and ecological opportunities
- 4. Inspire an adaptable waterfront that:
 - Improves the health of the Bay
 - Ensures access to the waterfront and historic places
 - Protects and preserves historic resources
 - Provides opportunities for families, businesses, and neighborhoods to thrive
- **5.** Lead a transparent, innovative, collaborative, and adaptive resilience program









WATERFRONT RESILIENCE PROGRAM ADAPTATION FRAMEWORK



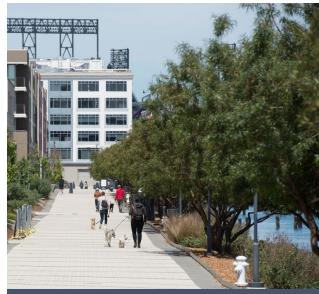
STRENGTHEN ELEMENT

Objective: Immediately implement highest priority disaster response and life safety projects along the Embarcadero Seawall.



ADAPT ELEMENT

Objective: Adapt the existing waterfront to address remaining seismic and increasing flood risks while generally retaining current form and function.



ENVISION ELEMENT

Objective: While implementing projects and adaptations to reduce seismic and flood risk, develop visions for a waterfront that is resilient to 2100 and beyond.



WATERFRONT RESILIENCE PROGRAM: EMBARCADERO SEAWALL

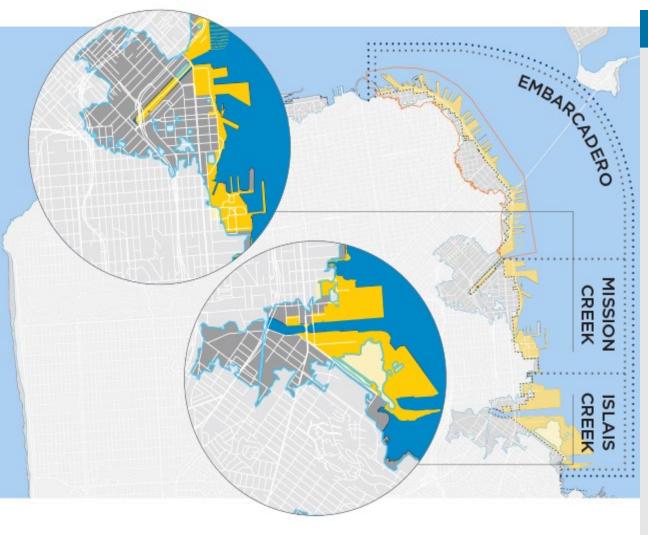


Waterfront Resilience Program

SEAWALL PROGRAM OVERVIEW

- First priority is to protect life safety and emergency response from seismic events
- Funding and financing from City, state, federal and private
- Will address as much flood risk as possible and create a foundation for addressing flood risk
- Focus on Citywide
 impacts of seismic and
 flood risk life safety,
 emergency response,
 mobility, utilities, jobs

WATERFRONT RESILIENCE PROGRAM: U.S. ARMY CORPS / PORT FLOOD RESILIENCE STUDY AREAS

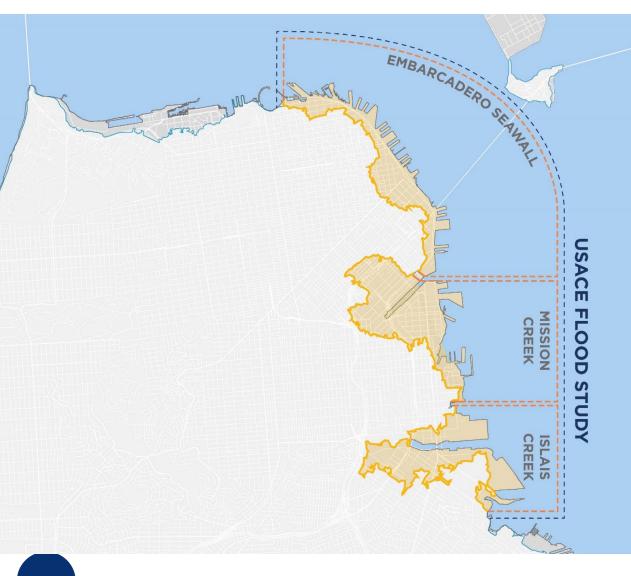


Waterfront Resilience Program

THREE STUDY AREAS

- Areas based on preliminary assessment of coastal flood risk
- Significant cultural, historic, and maritime assets
- Critical public infrastructure, including local and regional transit and wastewater treatment
- Dense residential, commercial, and industrial land use
- Does not include redevelopment sites such as Bayview/Hunter's Point and Mission Rock
- Other areas outside of study area should be a focus of future studies

WATERFRONT RESILIENCE PROGRAM: U.S. ARMY CORPS / PORT FLOOD RESILIENCE STUDY OVERVIEW



Waterfront Resilience Program

HIGHLIGHTS

- Federal expertise
- Port as local sponsor
- Entire Port jurisdiction + Aquatic Park
- ~3-5 years, 50/50 cost share

STUDY OVERVIEW

- Currently in the scoping phase to determine federal interest and size of potential project
- Process includes many opportunities for community input
- If successful, leads to a project that is recommended to Congress
- Design/construction of project cost shared 65% federal/35% local

POTENTIAL FLOOD STUDY BENEFITS TO THE BAYVIEW

Identification of resilience alternatives for Islais Creek Federal, state, and local investment in flood protection

Future projects with job creation opportunities



WATERFRONT RESILIENCE PROGRAM PUBLIC ENGAGEMENT



Waterfront Resilience Program

JOIN US!

Public engagement and participation is how we get to a plan and a project.

- Meeting 1: Let's build this together-learning about the project and sharing priorities
- Meeting 2: Shape the study goals
- Meeting 3: Envision alternatives
- Meeting 4: Evaluate alternatives
- Meeting 5: Identify actions and alternatives

There will be other opportunities for engagement, including meetings in the field, tours, and charrettes. Your suggestions are welcome!

FOCUS ON ISLAIS

BAYVIEW

ISLAIS CREEK RESILIENCE

The Islais Creek Adaptation Strategy is an opportunity to identify cobenefits to implement along with a resilient transportation system.

Neighborhoods along the San Francisco shoreline are at risk of flooding from climate hazards like sea level rise and more intense storms. These hazards already impact residents and businesses in those neighborhoods, and will occur with more intensity and frequency in the future.

Bayview is special for its unique history and heritage. It is also important because facilities here serve citywide and regional systems upon which hundreds of thousands of people rely.

The Islais Creek Adaptation Strategy focuses on securing our current transportation facilities from flood risks, while envisioning a resilient system for the future. Benefits to Bayview include frequent and reliable transit service, diverse options for getting around, and better physical connectivity to other parts of the City.

Which of these co-benefits would you prioritize?





ISTRICT AMENITIES & COMMUNITY SERVICES



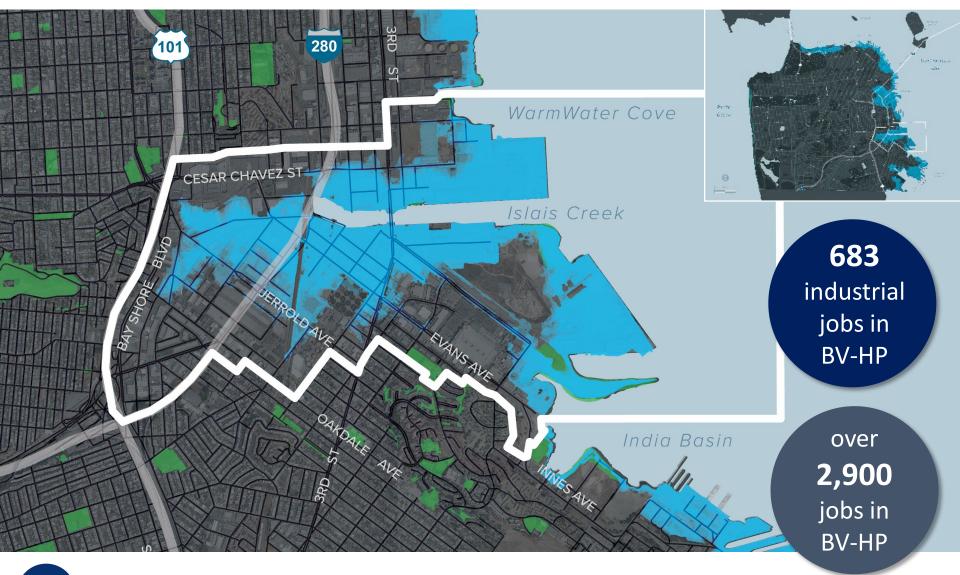






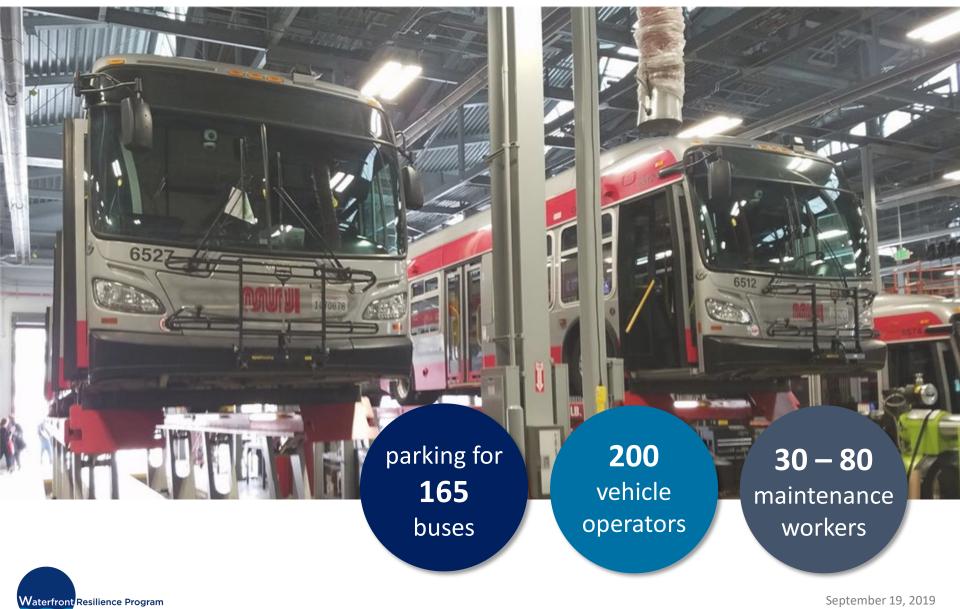


FOCUS ON ISLAIS: FLOOD RISK AND JOBS





FOCUS ON ISLAIS: MUNI FACILITIES AT RISK



FOCUS ON ISLAIS: RECOLOGY AT RISK

Recutor

750 tons sorted per day over **200** trips into facility per day

Over **35** shipments of product out per day



FOCUS ON ISLAIS: CARGO SERVICES

Pier 92 and Pier 94

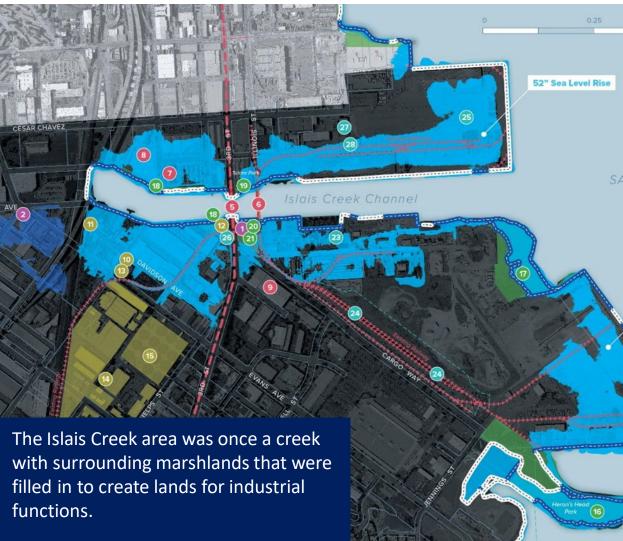
HERE - COMES :

Sand and aggregates make concrete

Supports construction projects across SF



UNDERSTANDING THE HAZARDS AT ISLAIS



ISLAIS CREEK HAZARDS

EARTHQUAKE RISK

Evaluate existing information to develop an understanding of the seismic risk, including ground shaking and liquefaction in the project area.

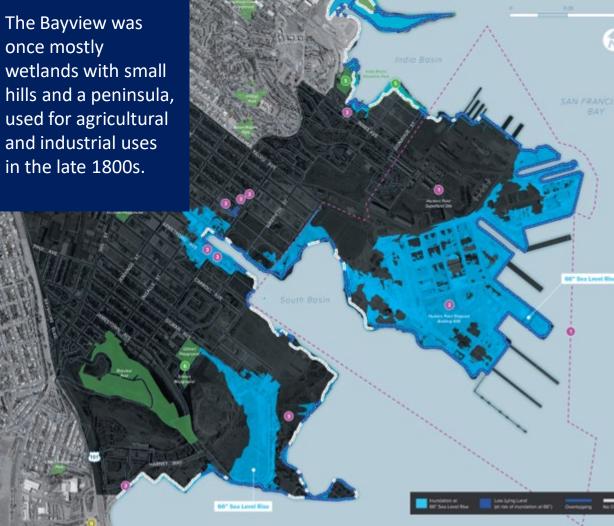
FLOOD RISK

Evaluate extent of coastal flood hazard to estimate damage to exposed assets.



FLOODING AT ISLAIS CREEK & BAYVIEW

The Bayview was once mostly wetlands with small used for agricultural and industrial uses in the late 1800s.



ISLAIS CREEK & BAYVIEW FLOODING

EARTHQUAKE RISK (\mathbf{n})

Filled areas of the community are subject to liquefaction.

FLOOD RISK

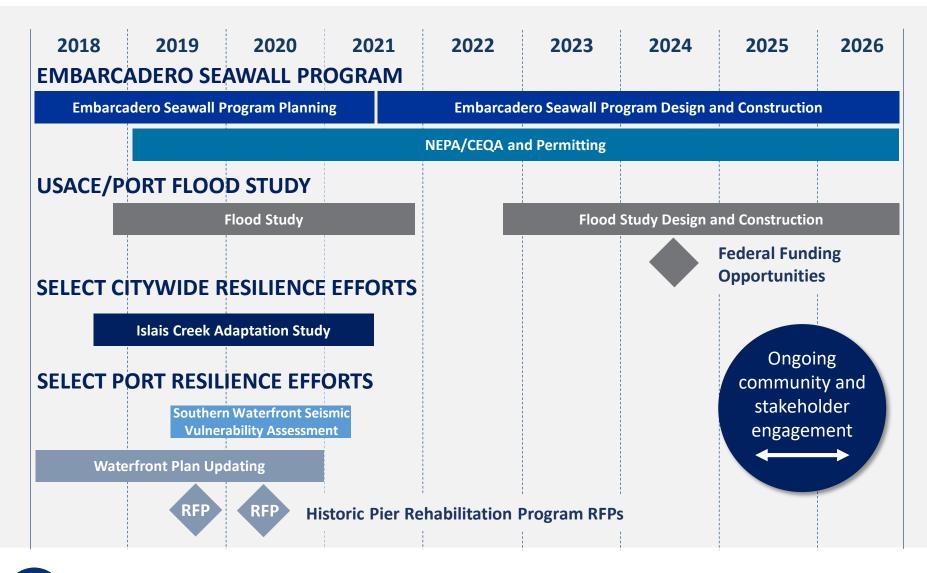
Sea level rise will expose much of the shoreline of the community, including contaminated lands.

REDEVELOPMENT

Redevelopment of the area considers these issues.

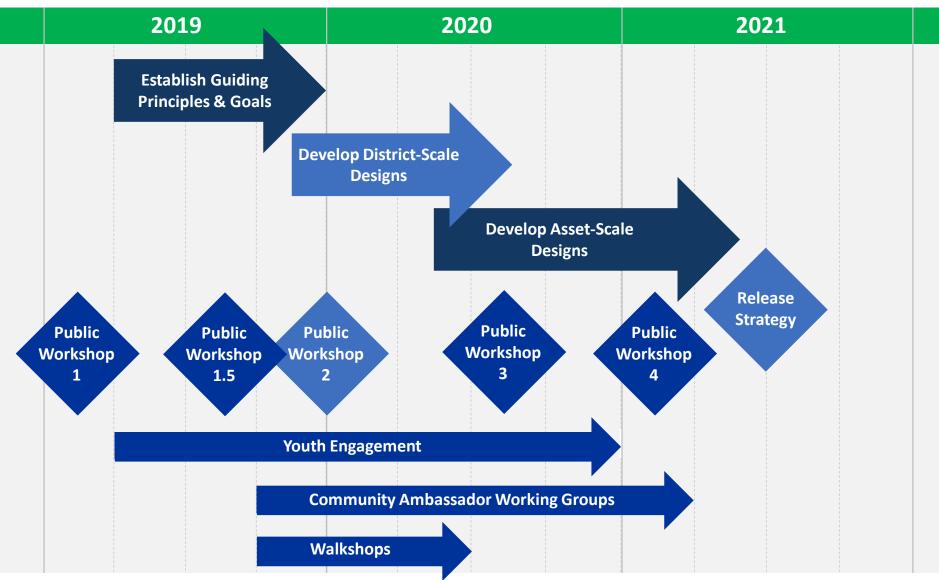


WATERFRONT RESILIENCE PROGRAM TIMELINE



Waterfront Resilience Program

ISLAIS CREEK ADAPTATION STRATEGY PHASES



Waterfront Resilience Program

THANK YOU!



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Plan Francisco

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WATERFRONT GAME OF HAZARDS part |



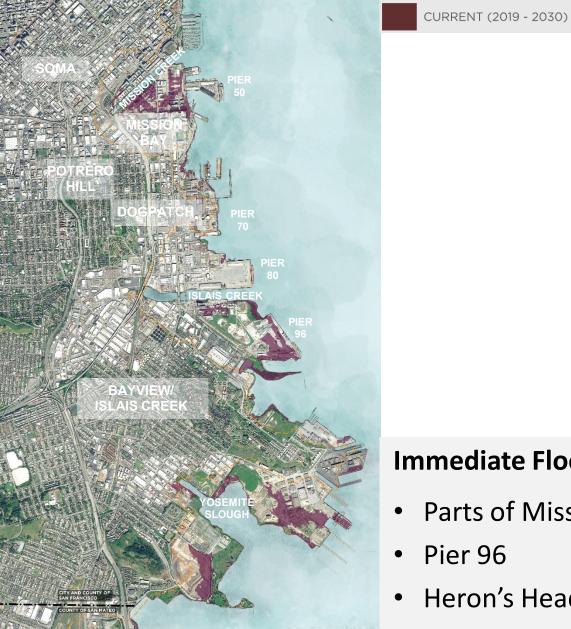
FLOOD HAZARD: SEA LEVEL RISE

Sea Level is on the rise & we're running out of time! History:

- 8 inches from 1900 to 2000 Future:
- 1 to 2 feet by 2050 (CCSF 2016)
- 3 to 5.5 feet by 2100 (CCSF 2016)
- New CA guidance up to 10 ft by 2100 (H++)



FLOOD HAZARD ZONES: Current (6 inches of SLR)



Immediate Flood Hazards:

- Parts of Mission Bay
- Pier 96
- Heron's Head Park

FLOOD HAZARD ZONES: Near Term (Up to 1 foot of SLR)



CURRENT (2019 - 2030)

NEAR (2030 - 2050)

Near Term Flood Hazards:

- Caltrain King Street Station Yard
- Pier 80
- Islais Creek Industries

FLOOD HAZARD ZONES: Mid Term (Up to 3 feet of SLR)



CURRENT (2019 - 2030) NEAR (2030 - 2050) MID (2050 - 2100)

Mid Term Flood Hazards:

- Mission Bay
- SoMa Neighborhood
- Yosemite Slough Area Industries

FLOOD HAZARD ZONES: Long Term (Up to 5.5 feet of SLR)

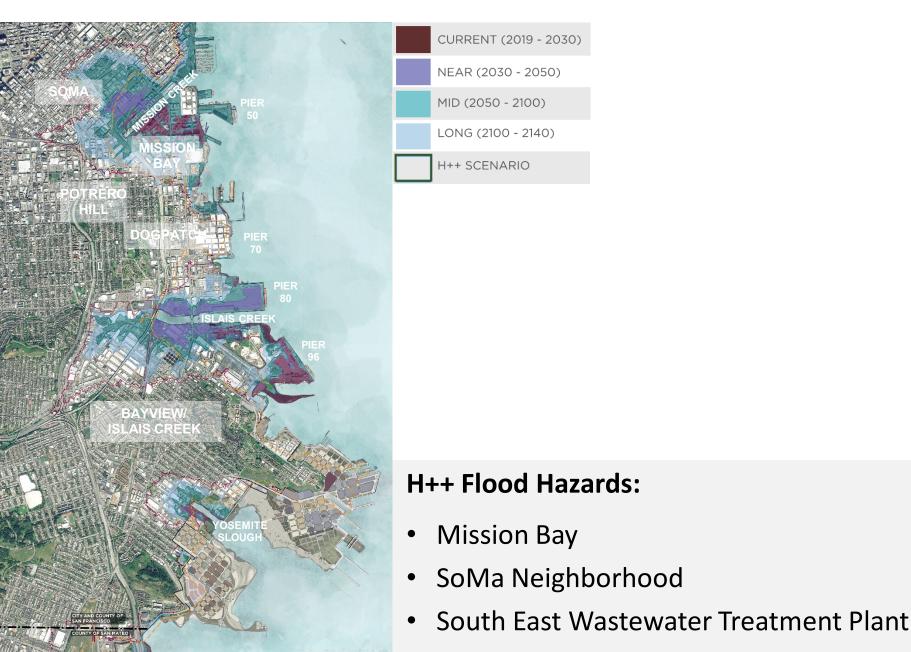


CURRENT (2019 - 2030)
NEAR (2030 - 2050)
MID (2050 - 2100)
LONG (2100 - 2140)

Long Term Flood Hazards:

- Mission Bay
- SoMa Neighborhood
- Islais Creek Industrial Area

FLOOD HAZARD ZONES: H++ Scenario (Up to 10 feet of SLR)



WHAT'S OUT THERE AND WHAT'S AT STAKE?



SAN FRANCISCO'S SOUTHERN WATERFRONT: ISLAIS CREEK



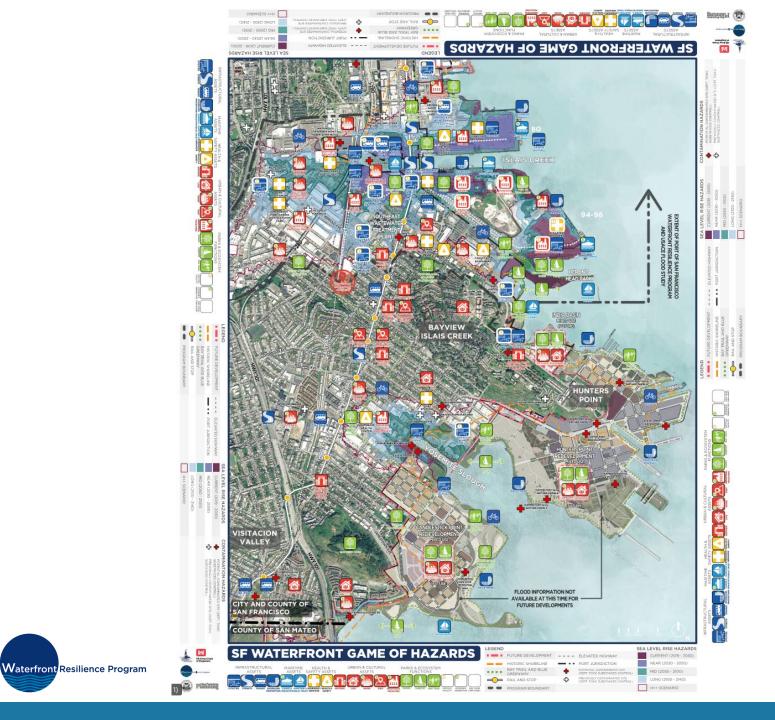


SAN FRANCISCO'S SOUTHERN WATERFRONT: ISLAIS CREEK

Waterfront Resilience Program



GAME OF HAZARDS!



INFRASTRUCTURE



UTILITIES



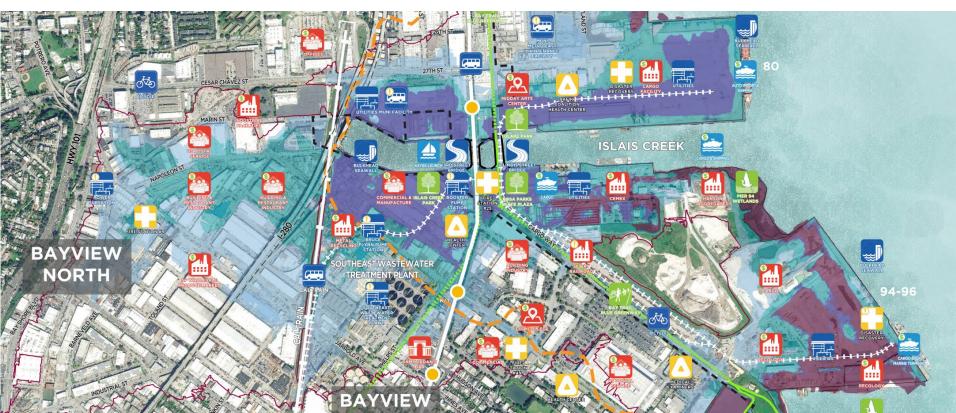




PROTECTION

INFRASTRUCTURE





INFRASTRUCTURE







URBAN AND CULTURAL

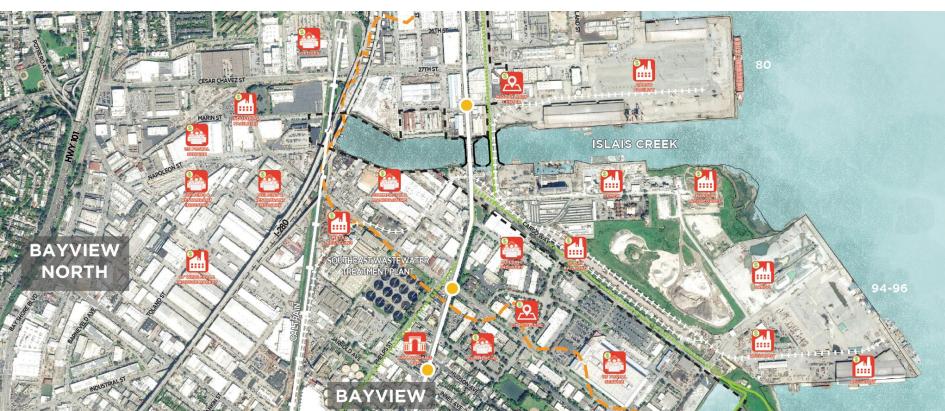












PARKS AND ECOSYSTEMS

BAY TRAIL



PARKS AND ECOSYSTEMS







BAY TRAIL

HABITAT



MARITIME ASSETS



MARITIME ASSETS

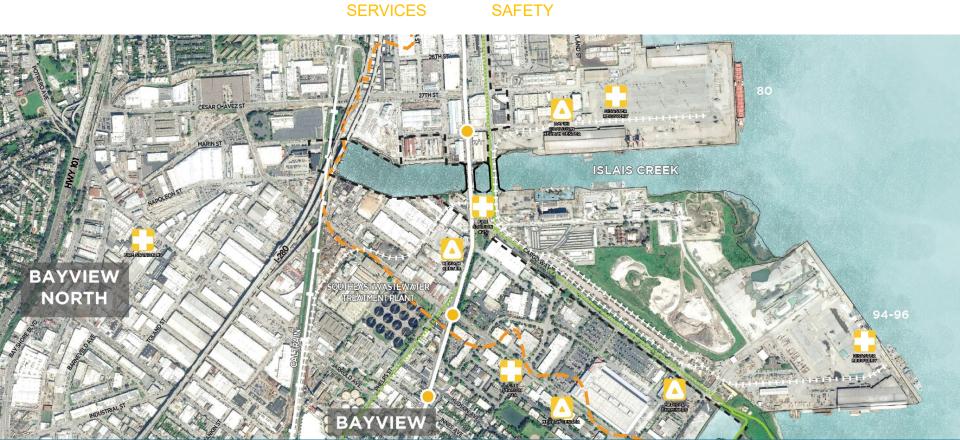




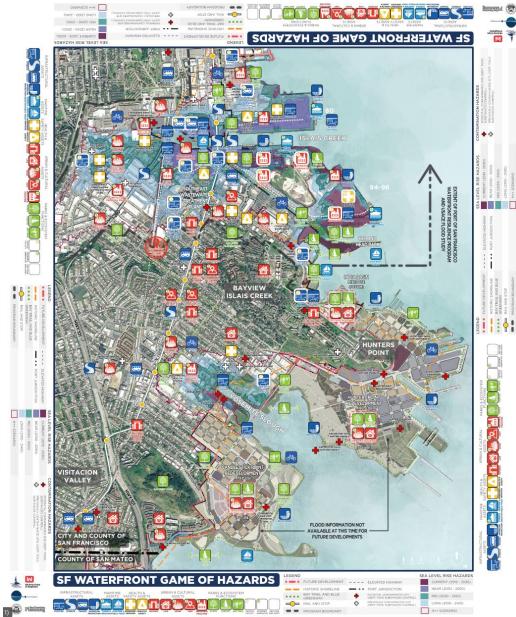




HEALTH & SAFETY



THE GAME



Waterfront Resilience Program

September 19, 2019

STEP 1: STUDY THE MAP



STEP 1: AND TELL US WHAT WE MISSED



STEP 2: SHARE WHAT IS MOST IMPORTANT **TO YOU** ABOUT THIS AREA



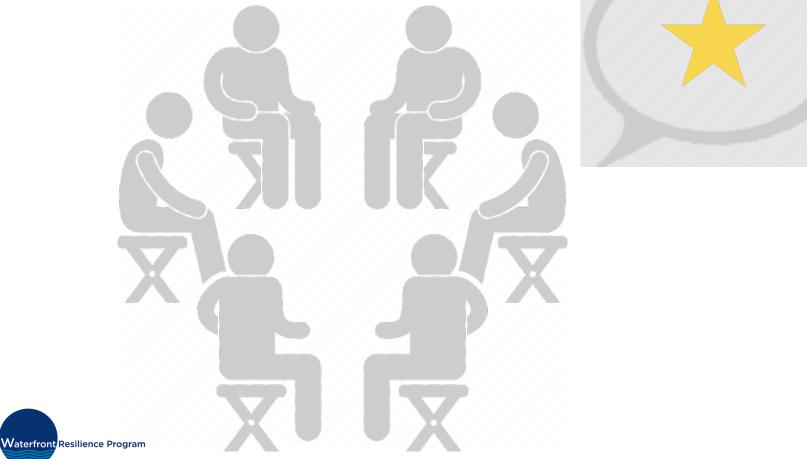
September 19, 2019

STEP 2: SHARE HOW YOU USE THIS AREA OR WHAT BRINGS YOU HERE



September 19, 2019

STEP 2: AND WHAT YOU THINK IS MOST IMPORTANT **TO THE CITY**



September 19, 2019

10 min

STEP 2: DECIDE WHAT YOU LOVE THE MOST AS A GROUP



STEP 2: DECIDE WHAT YOU LOVE THE MOST AS A GROUP



STEP 2: AND WHAT'S MOST IMPORTANT TO THE CITY

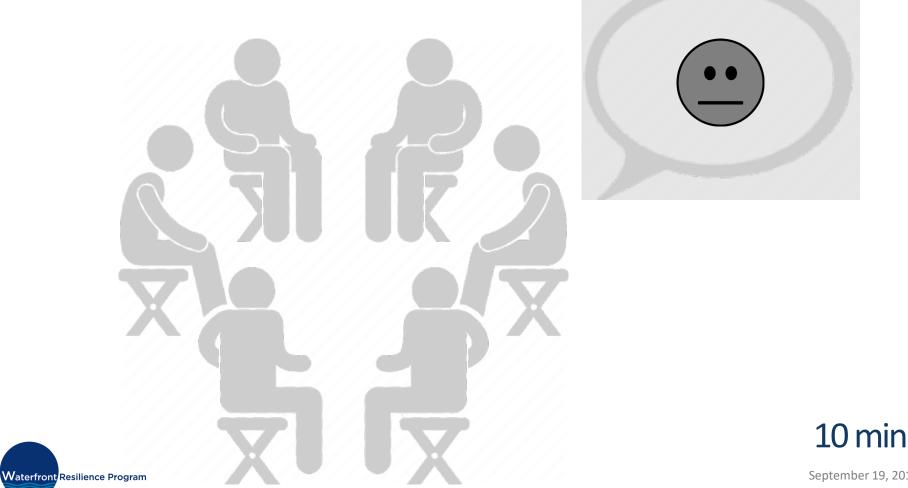


STEP 3: CONSIDER FLOODING





....SHARE WHAT CONCERNS YOU THE MOST



September 19, 2019

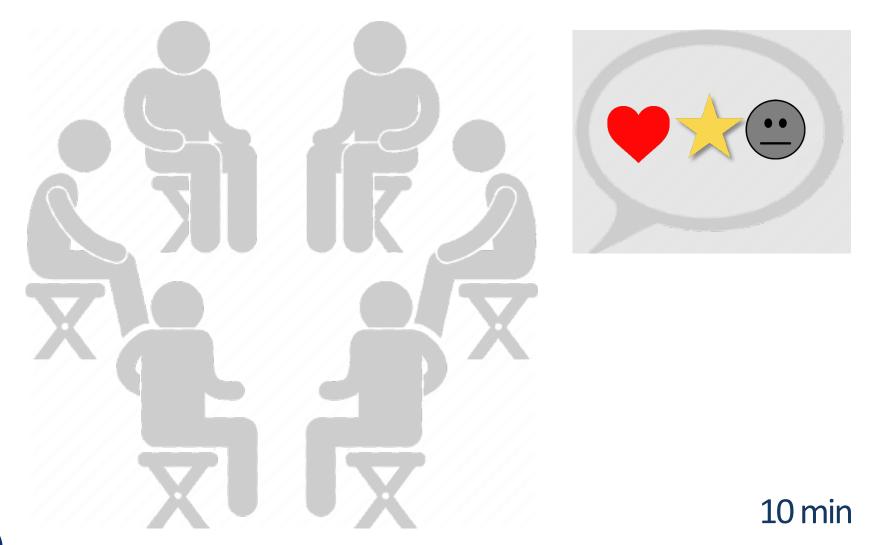
STEP 3: DECIDE AS A GROUP WHAT CONCERNS YOU THE MOST



STEP 3: DECIDE AS A GROUP WHAT CONCERNS YOU THE MOST



STEP 4: REPORT OUT



RULES OF THE GAME

- Be a polite fellow citizen and listener
- Recognize that this is a game
- Follow the instructions and guidance of your facilitator
- Next meeting focus on detailed strategies this is high level
- Have fun!



TIME TO FORM GROUPS



