

WATERFRONT RESILIENCE PROGRAM

Today's Update



- Flood and earthquake risks
- Overview of Embarcadero Early Projects
- Ongoing City department collaboration
- Ongoing community engagement



Review Waterfront Risks

Key Findings Overview



RISING TO THE CHALLENGE

Climate change: IPCC report is 'code red for humanity'

By Matt McGrath Environment correspondent

© 2 days ago | ₱ Comments

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UK climate change protests



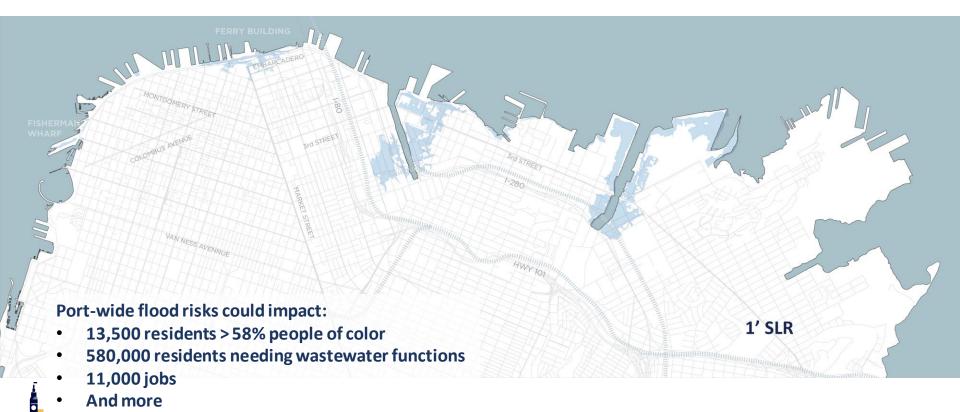
The New-York Times.





FLOOD HAZARDS FACING THE WATERFRONT

Inundation at 1-7' SLR with 100-year Flood



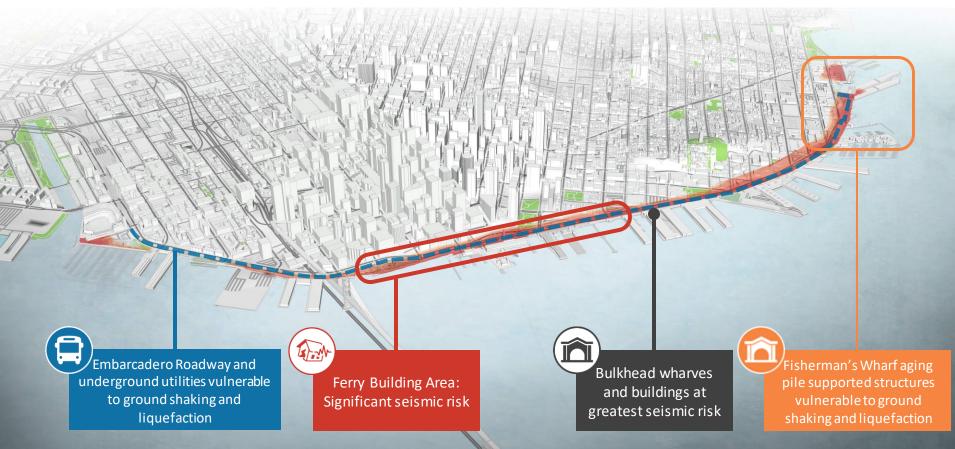
FLOOD HAZARDS FACING THE WATERFRONT

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EARTHQUAKE RISKS FACING THE EMBARCADERO

Embarcadero Multi-Hazard Risk Analysis (MHRA) Findings



DISASTER RESPONSE EXERCISE

Summer 2021











Confirmed the importance of Port's berths, piers and wharves, connections between the Northern and Southern Waterfront, and the criticality of the Embarcadero Roadway

CHALLENGES AND CONSTRAINTS

Waterfront-wide Resilience Improvements





DEFINING EMBARCADERO EARLY PROJECTS

Goals for Embarcadero Early Projects



Identify Near-Term Projects for Next Ten Years



Prioritize Life
Safety +
Emergency
Response



Address Urgent Risk Findings



DEFINING EMBARCADERO EARLY PROJECTS

Examples of Project Types



Bulkhead Wharf Retrofits



Seawall and Shoreline Strengthening



Disaster Response Improvements



DEFINING EMBARCADERO EARLY PROJECTS

WRP Context for Embarcadero Early Projects



Evaluation Criteria



Funding



Transparency + Accountability



Take the Long View



FURTHER EARLY PROJECTS DEVELOPMENT

Southern and Central Waterfront



- Similar process for Islais Creek / Bayview and Mission Bay / Mission Creek
- Part of developing adaptation strategies for the whole waterfront



MEETING THE CHALLENGE

A Port-wide Approach for Addressing Near and Long-term Risk





OPPORTUNITIES

Access to Rare Resilience Funding Requires Action Now



- Proposition A funding will address some urgent earthquake risk along the Embarcadero
- USACE partnership could mean billions in federal funding for earthquake and flood risk protection for the entire waterfront
- Federal infrastructure bill and Sacramento resilience funding
- Partnering with other agencies (e.g., SFPUC, SFMTA, and disaster response grants)



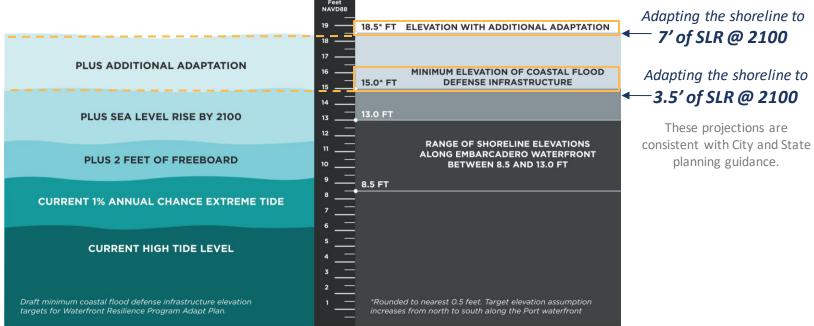


FRAMING THE CONVERSATION

Sample City Engagement Questions



What is the City's performance standard for reducing seismic and flood risk?

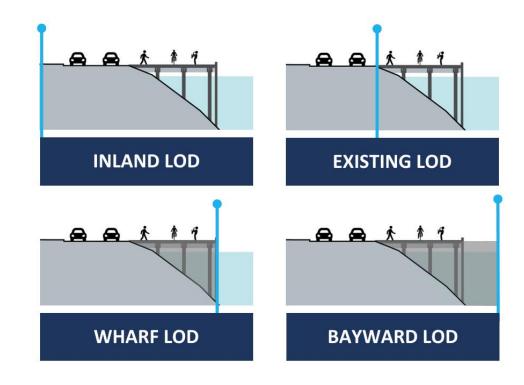




FRAMING THE CONVERSATION

City Engagement Questions

Where should the
City plan to build coastal
flood defenses – often
called the "line of
defense"?





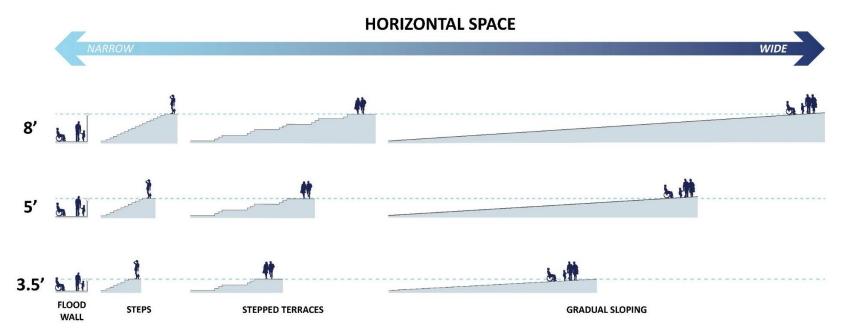


FRAMING THE CONVERSATION

City Engagement Questions

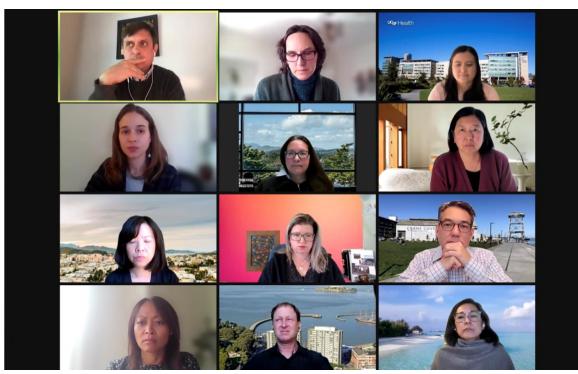


How much space should be identified as the "adaptation zone" to build coastal flood defenses?



A COMMUNITY-DRIVEN PROGRAM

Ongoing Community Engagement Effort

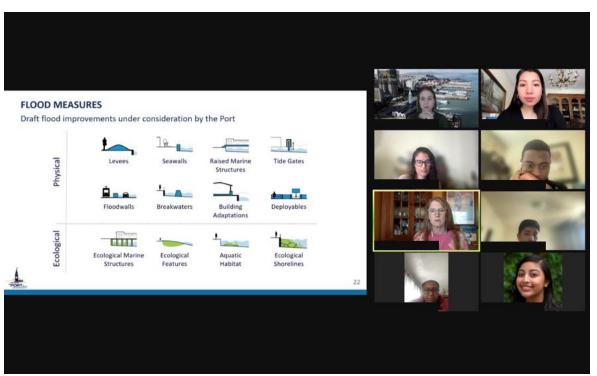


- Continued digital engagement in support of public health and safety
- 30 community-based organizations since May
- Reached more than 700 community members, including youth and inlanguage communities



ONGOING COMMUNITY ENGAGEMENT

What We Heard



- Equity including access to jobs and contracts
- Ensuring citywide & regional coordination
- How can we help?
- Health impacts to ecosystems and communities



