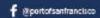




# SEAWALL EARTHQUAKE SAFETY PROGRAM BOND REPORT April 2018











## EMBARCADERO SEAWALL PROGRAM

The Port of San
Francisco requests a
bond sale, not to exceed
\$50 million, to support the
planning and preliminary
design phases of the
Seawall Program

## TAKING ACTION: OUR GOALS



### WHAT WILL THIS FIRST BOND SALE FUND?

- Program Management (Port Staff)
- Program Development (Strengthen, Adapt, and Envision)
- Project Planning
  - Geotechnical Investigations
  - Risk Assessment and Alternatives Analysis
  - Pilot Projects
  - Stakeholder Engagement
  - Environmental Review (CEQA/NEPA)
- Preliminary Design
- San Francisco Waterfront Storm Risk Management Study General Investigation ("Flood Study") with the United States Army Corps of Engineers ("USACE"), only eligible flood study costs will be covered
- Workforce Development and Education

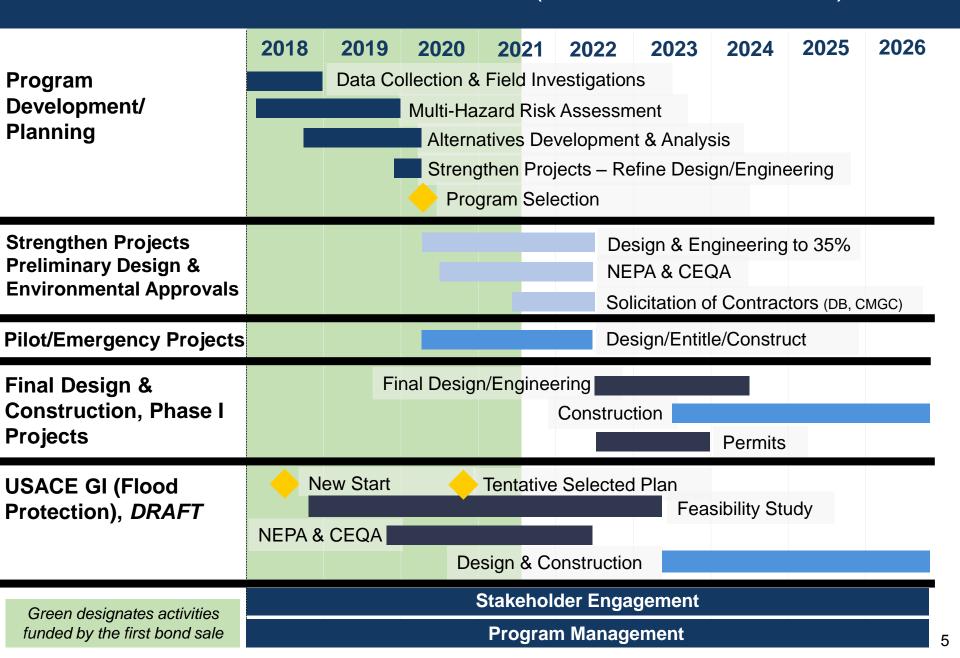
Port
Commission
Informational
March 12

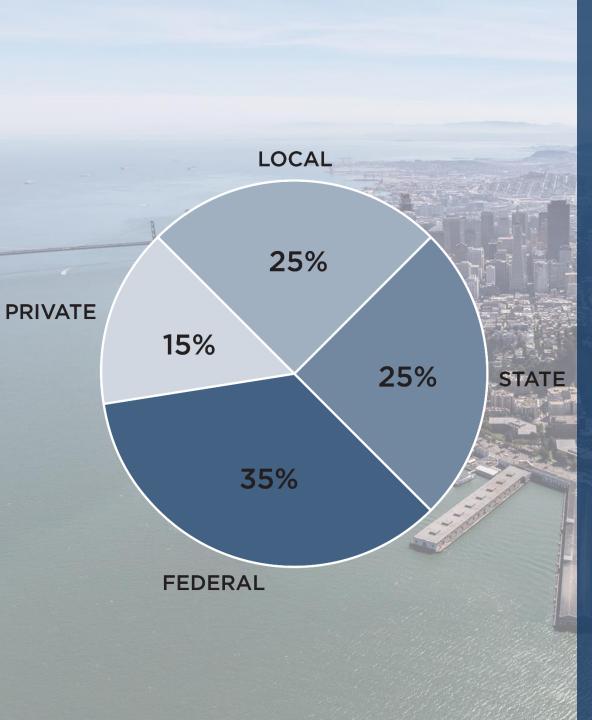
Capital Planning
Committee
Approval
March 25

Port
Commission
Approval
March 26

Board of Supervisors Introduction April 2

## PHASE I DETAILED SCHEDULE (with USACE GI, v3)





## SEAWALL PROGRAM FUNDING NEXT STEPS

Phase I: \$500 million Full Program: \$5 billion

#### LOCAL

- City GO Bond Program
- Other

#### **FEDERAL**

- Army Corps of Engineers
- Transportation
- FEMA/Port Security Grants

#### STATE

- State Resiliency Bond SB-45
   Wildfire, Drought, and Flood
   Protection Bond Act of 2020
- State Budget Request
- Cap and Trade Revenues

#### **PRIVATE**

- Waterfront Development Projects
- Businesses CFD

## PHASE I FUNDING – ALL SOURCES

Fiscal Year	16/17	17/18	18/19	19/20	20/21	21/22	22/23	23-27
Funding Sources								
Port Capital	\$2.9		\$1.1					\$10.0
City Revolving Fund	\$1.0	\$3.0	\$5.0	(\$6.0)		(\$3.0)		
SFMTA Contribution	\$0.5	\$0.5						
Planning Dept Contribution	\$0.5	\$0.3	\$0.3					
State Sources			\$5.0					
2018 General Obligation Bond			\$50.0			\$250.0		\$125.0
Other Funds*								\$54.0
Total Planned Sources	\$4.9	\$3.8	\$61.4	(\$6.0)	\$0.0	\$247.0	\$0.0	\$189.0
Cumulative Sources	\$4.9	\$8.7	\$70.0	\$64.0	\$64.0	\$311.0	\$311.0	\$500.0
Current Funding								
First Bond Sale								
*Pending								
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## PHASE I EXPENDITURES THROUGH FY20/21

	BOND	STATE	PORT	TOTAL
SERVICES PROVIDED	\$ 50,000,000	\$5,000,000	\$2,120,000	\$ 57,120,000
Program Management	\$ 5,907,000	\$ -	\$ -	\$ 5,907,000
United States Army Corps of Engineers	\$ 8,875,000	\$ -	\$ -	\$ 8,875,000
Communications/Public Relations	\$ -	\$ -	\$ 1,870,000	\$ 1,870,000
Planning/Engineering/Environmental Phase 1 - Planning	<b>\$ 30,035,000</b> \$ 14,965,000	<b>\$5,000,000</b> \$5,000,000	<b>\$ 250,000 \$</b> 250,000	<b>\$ 35,285,000</b> \$ 20,215,000
Phase 2 - Preliminary Design	\$ 9,020,000	\$ -	\$ -	\$ 9,020,000
Phase 2 - Pilot Projects	\$ 6,050,000	\$ -	\$ -	\$ 6,050,000
City Agencies/Departments/Regulatory Agency Approvals	\$ 983,000	\$ -	\$ -	\$ 983,000
Bond Related Costs	\$ 4,200,000	\$ -	\$ -	\$ 4,200,000
Reserve for Market Uncertainty	\$ 2,990,000			\$ 2,990,000
Cost of Issuance	\$ 601,290			\$ 601,290
Underwriter's Discount	\$ 470,100			\$ 470,100
CSA Audit Fee	\$ 91,600			\$ 91,600
GOBOC Fee	\$ 47,010			\$ 47,010

### ADDITIONAL PHASE I FUNDING

Original \$500 million budget for Phase I life safety improvements, with \$446 million secured as of today:

- \$425 million in General Obligation Bond funding
- \$5 million grant from State of California
- \$16 million from Port and City sources

Additional funding strategies to address the \$54 million gap include:

- State Resilience Bond
- State Cap and Trade Revenue
- State General Fund Budget Request
- Development of a Mello Roos District along the waterfront

### DATA COLLECTION: SUBSTANTIALLY COMPLETE



#### **INFRASTRUCTURE**









#### **URBAN AND CULTURAL**









#### PARKS AND ECOSYSTEMS







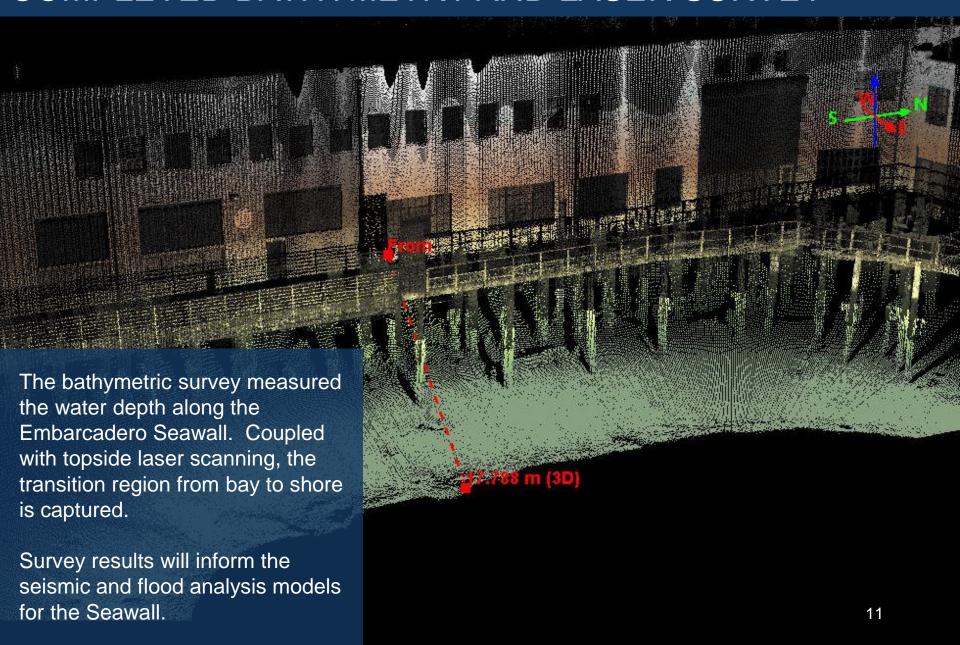
#### **MARITIME**



#### **DISASTER RESPONSE**



## ADDITIONAL INVESTIGATIONS: COMPLETED BATHYMETRY AND LASER SURVEY



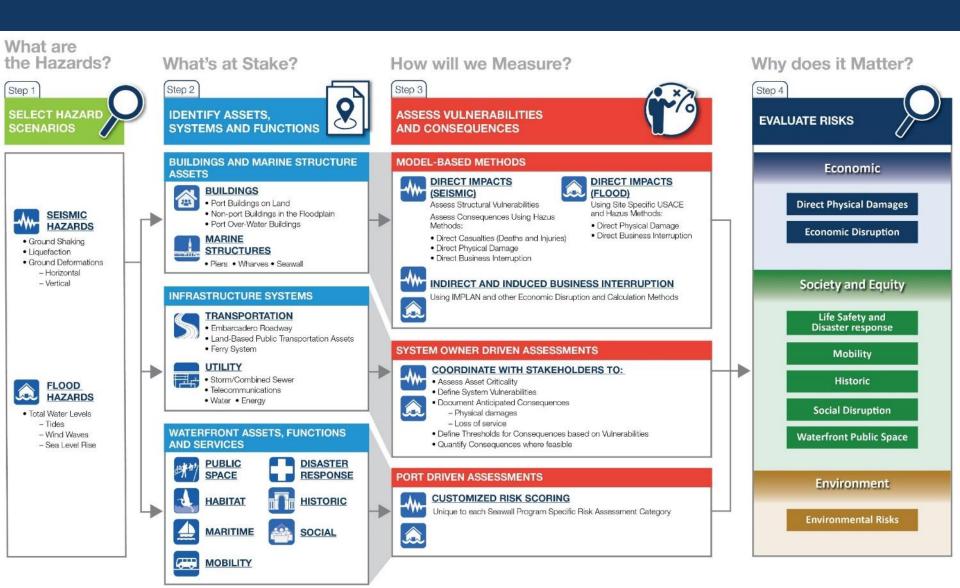
## GEOTECHNICAL EXPLORATION

- Completed approximately 100 exploratory borings along the Embarcadero Seawall
- Borings concentrated in the immediate Seawall area allow for increased confidence in subsequent analysis used to evaluate potential earthquake effects





### MULTI-HAZARD RISK ASSESSMENT





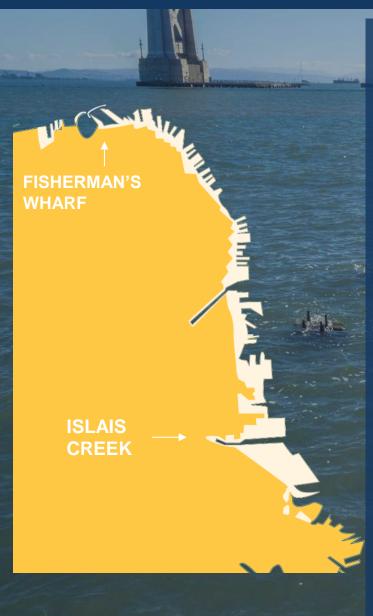
## THE SEAWALL INCUBATOR

Begin concept development for Seawall Strengthen project(s) and test process for project selection

- Begin the design process for the first Strengthen Project(s)
- Review developing data on existing conditions
- Identify criteria for selecting first locations
- Conduct a "dry-run" of selecting locations
- Consult with city stakeholders
- Refine process to be ready for the full Multi-Hazard Risk Assessment results in June

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## USACE/PORT FLOOD RISK STUDY (General Investigation)



#### **HIGHLIGHTS**

- Federal funding, expertise, partnership
- Port is the local sponsor, seeking assistance since 2012
- Flood Study is entire Port jurisdiction
- No limit to the scale, extent or cost of projects
- Suspend CAP 103, use prior work in GI

#### STUDY OVERVIEW

- Estimate 4-1/2 years & \$6M, 50/50 cost share
- Evaluate flood risk to entire Port, develop and evaluate a wide range of alternatives
- Culminates in a recommendation to Congress to authorize and fund design & construction of selected plan.
- Design/construction of federal plan cost shared 65% fed / 35% local
- Locally preferred plan can be selected, sponsor pays extra cost



## THANK YOU