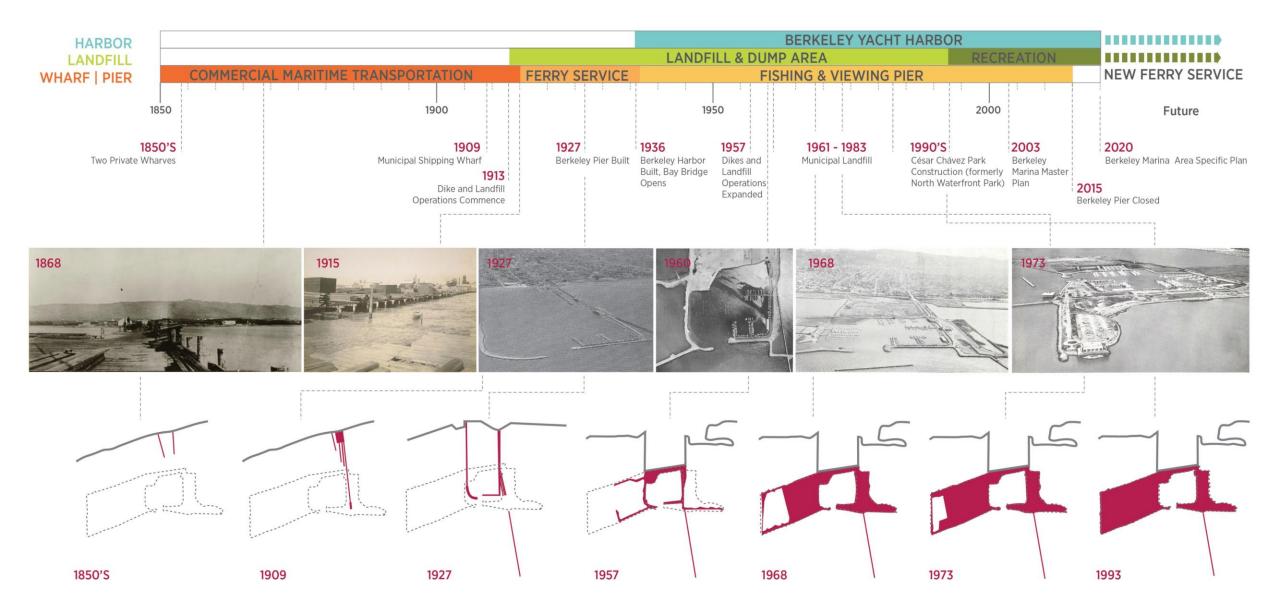
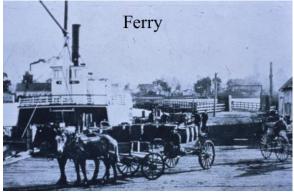


# **History of Berkeley Marina**













**Berkeley Waterfront Regulatory Agencies + Land Use Restrictions** 

#### **Land Use Restrictions**

- State Lands Commission Tideland Grant Trust (1913)
- BCDC 100' Shoreband Jurisdiction
- BCDC 199 Seawall Drive and Parking Lot
   Fill Permit (1966)
- City of Berkeley Measure L Open Space Ordinance (1986)
- Land and Water Conservation Fund (LWCF)
   Grants (early 1980)

#### **Regulatory Agencies**

- Army Corp of Engineers
- BCDC
- California Department of Fish and Wildlife
- State Regional Water Quality Control Board
- State Lands Commission



# **Economics of Berkeley Marina Area**

# **Operating Revenues\***

Berth Rental Fees (55%)

Hotel Lease (21%)

Other Leases (14%)

Other Boating Fees (5%)

Youth Programming (2%)

Other (2%)

Water-Based Recreation (1%)

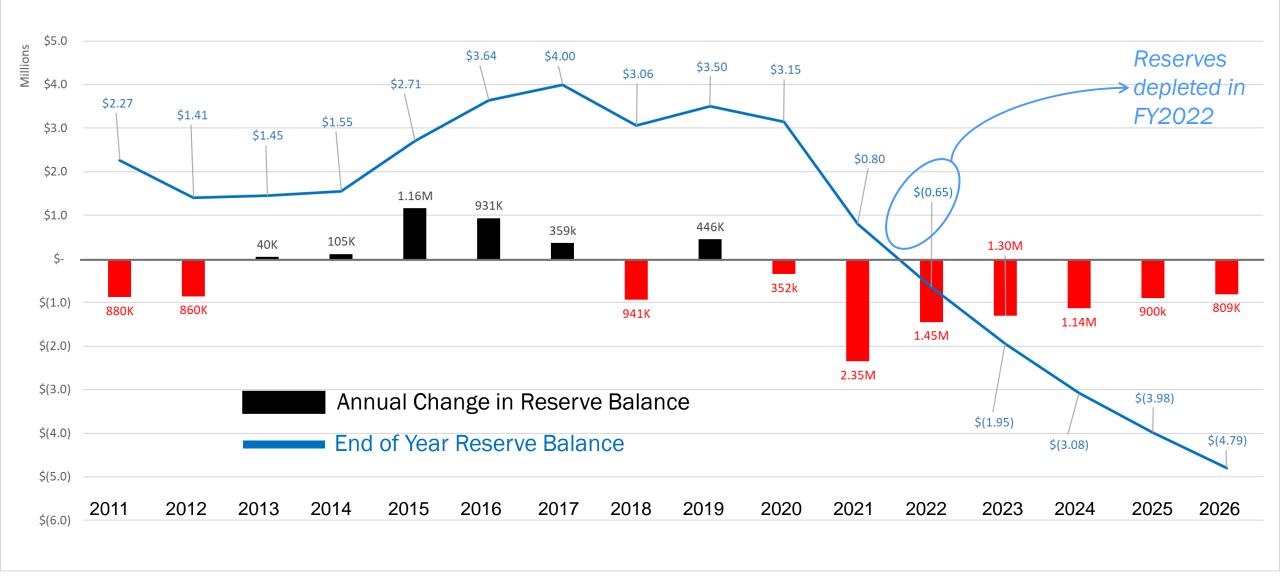


# **Operating Expenses**

Marina Operations
Waterfront Maintenance
Capital Projects
Lease Management
Recreation Programs
Internal Service Charges
Debt Service
Security
Special Events

<sup>\*</sup>Based on FY19 revenue

## **Marina Fund Challenges**

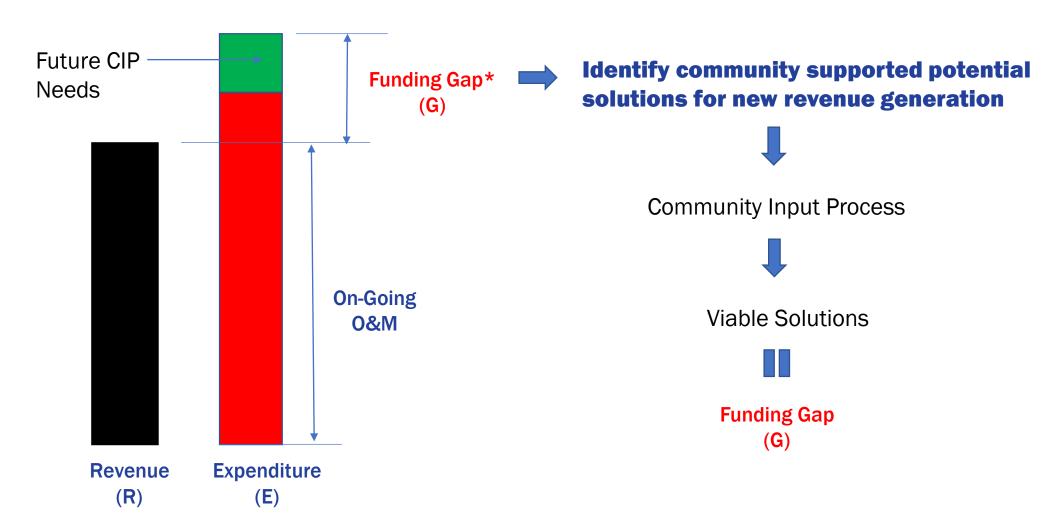


# **Marina Fund Challenges**

- Marina Fund was never set up to succeed.
  - Low berther fees for decades
  - Lack of capital replacement fund
  - Lack of infrastructure replacement
- Fund has now reached the tipping point.
  - Safety and security issues
  - Failing infrastructure
  - COVID-19
- Revenue unable to cover basic operating expenses.
- No additional funds for > \$100M in infrastructure needs.

# **Waterfront Funding Gap**

### **BMASP Process**



<sup>\*</sup>Funding Gap will include sufficient and stable stream of funding to support 5-year CIP Plan

# **Capital Projects Update**



- South Cove East Parking Lot & Restroom
- Bay Trail Extension Segment 3
- 3. South Cove ADA Accessible Gangway at Middle Dock
- 4. South Cove Floating Docks Replacement
- Marina Streets Reconstruction [Bidding]
  - University Ave (W Frontage Rd to Marina Blvd)
  - Spinnaker Way
  - Marina Blvd
- **Cons**truction O&K Docks Electrical Upgrade [Bid by April]
- **Electronic Bicycle Lockers [Awarding Contract]**
- 8. D&E Docks Replacement
- 9. South Cove West Parking Lot
- 10. Selective Timber Pile Replacement
- 11. Cesar Chavez Park Restroom
- 12. K-Dock Restroom Renovation
- 13. Municipal Pier Structural Assessment & Ferry Facility Feasibility Study
- 14. Marina-wide Sea Level Rise Vulnerability Study
- 15. Berkeley Marina Area Specific Plan

**Planning** 

Design

Complete

2021

CalTrans University Ave/I-80 Interchange Improvement

# **Major Capital Projects – Funding Source**

PROJECT	Marina Enterprise Fund	Grants	State Loans	Measure T1	Public Works	General Fund
1. South Cove East Parking Lot & Restroom	<b>-</b>	<b>/</b>				
2. Bay Trail Extension – Segment 3		/				
3. South Cove ADA Accessible Gangway at Middle Dock		<b>/</b>				
4. South Cove Floating Docks Replacement (East & West Docks)	<b>/</b>					
5. Marina Streets Reconstruction (University Ave/Spinnaker Way/Marina Blvd)				<b>/</b>	<b>/</b>	
6. O&K Docks Electrical Upgrade						<b>/</b>
7. Electronic Bicycle Lockers	<b>/</b>	<b>/</b>				
8. D&E Docks Replacement			<b>/</b>	<b>/</b>		
9. South Cove West Parking Lot (Design Only)	<b>/</b>					
10. Selective Timber Pile Replacement				<b>/</b>		<b>/</b>
11. Cesar Chavez Park Restroom (On Spinnaker Way)				<b>/</b>		
12. K-Dock Restroom Renovation				<b>/</b>		
13. Municipal Pier Structural Assessment & Ferry Facility Feasibility Study	<b>/</b>	<b>~</b>		<b>/</b>		
14. Marina-wide Sea Level Rise Vulnerability Study	<b>/</b>			<b>/</b>		
15. Berkeley Marina Area Specific Plan						<b>/</b>

# **Recently Completed Capital Projects**



# **Decaying Infrastructure**













# Landside Infrastructure Needs: est. \$23M

Vital improvements needed within the next 20 years to upgrade decaying infrastructure.

UTILITY IMPROVEMENTS (\$4.5 M)

> Sewer Collection System

Emergency Fire Service

Stormwater Quality Improvements PAVEMENT REHABILITATION (\$3.4 M)

> University Ave (Marina Blvd to Seawall Dr)

> > Seawall Dr

PARKING LOTS (\$10.5 M)

F & G Dock Lot, O Dock and Yacht Club Lot, J & K Dock Lot

N Dock and Skates Lot, Launch Ramp Lot, L & M Dock Lot, Lordships' Lot

Construction of South Cove West Lot

SIDEWALKS/ PATHWAYS (\$4.6 M)

> Cesar Chavez Park Perimeter Trail

Marina Boulevard Trail

Completion of Bay Trail Master Plan

> General Sidewalk/ Pathway Upgrades







### Waterside Infrastructure Needs: est. \$64.5M to \$108M

Shoreline & Over-Water

\$10.5M to \$12M

SLR/Shoreline Stabilization

Cost: \$5.8M to \$7M

South Sailing Basin Seawall Replacement

\$4.8M

Dredging, Pier, and Breakwaters

\$19M to \$61M

Dredging

(South Cove Sailing Basin & Marina Entrance)

\$4M to \$6M

Berkeley Pier Design/Construction

\$15 to \$55M (TBD)

Docks

\$35M

**Dock** Replacement

\$35M

Maintenance

Infrastructure

**TBD** 







Future Infrastructure Costs \$87.5M - \$131M



#### **BMASP Project Team HARGREAVES JONES** Prime / Landscape Architecture & Planning San Francisco, CA **BLUHON GROUP\*** Community Engagement Berkeley, CA **COMMUNITY MOFFATT & NICHOL** Marine and Shoreline Engineering Oakland, CA **BKF ENGINEERING KEYSER MARSTON** Civil Engineering Financial Analysis & Strategic **VIABLE SOLUTIONS ECONOMICS** Walnut Creek, CA **Economic Planning** Berkeley, CA **RINCON CONSULTANTS CEQA & EIR Specialists** Oakland, CA **NELSON\NYGAARD\* CONSULTANTING ASSOCIATES** \*Also on the Pier/Ferry Study Project Team Transportation Planning San Francisco, CA

# **BMASP Project Team**

### **Hargreaves Jones**

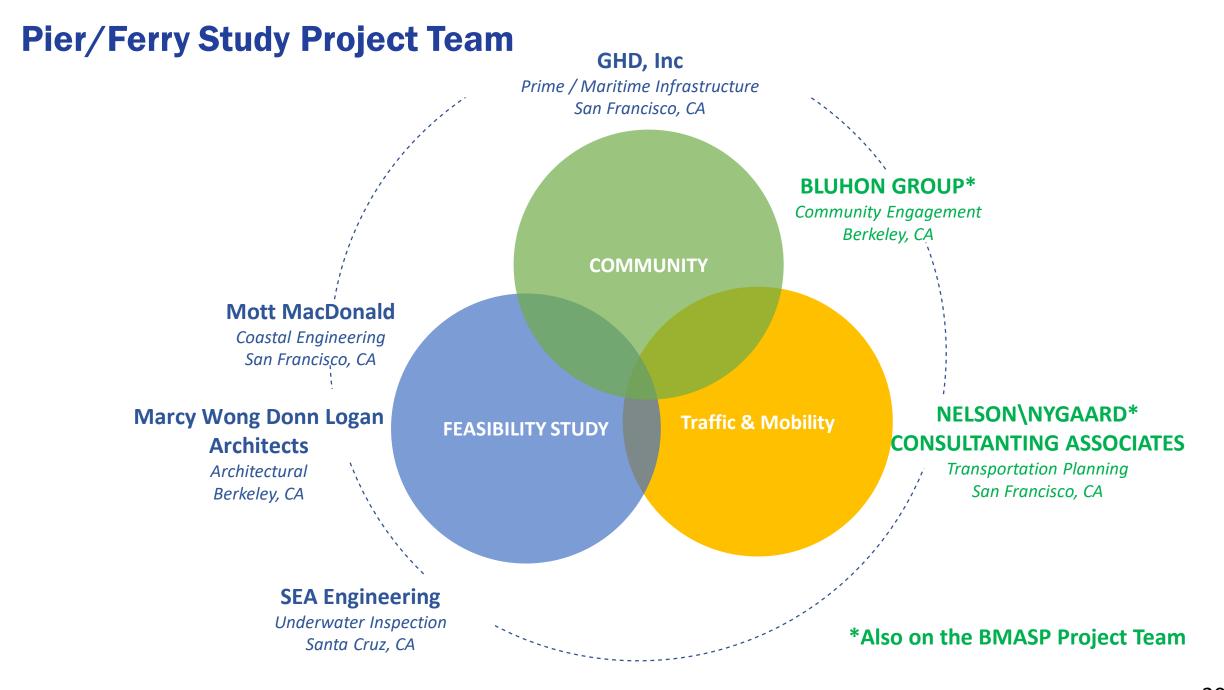
waterfront park expertise
over 30 waterfront projects
over 23 water bodies
master planning through
implementation













90+ years in operation 135+ countries served 200+ offices worldwide \$2.3B revenue 2020 5 goba markets 10K people 50+ service lines

Providing engineering, environmental, advisory, architecture, digital and construction services

Pier/Ferry Study Project Team



# **WETA Route Map**



12 Vessels

7 Terminals

**4 Routes** 

Peak Capacity 1,802

7,583 Daily Riders

5 Peak Hour Landings at SF Ferry Bldg

\$33M Operating Budget

WETA
Strategic Plan



2035



44 Vessels

**16 Terminals** 

**12 Routes** 

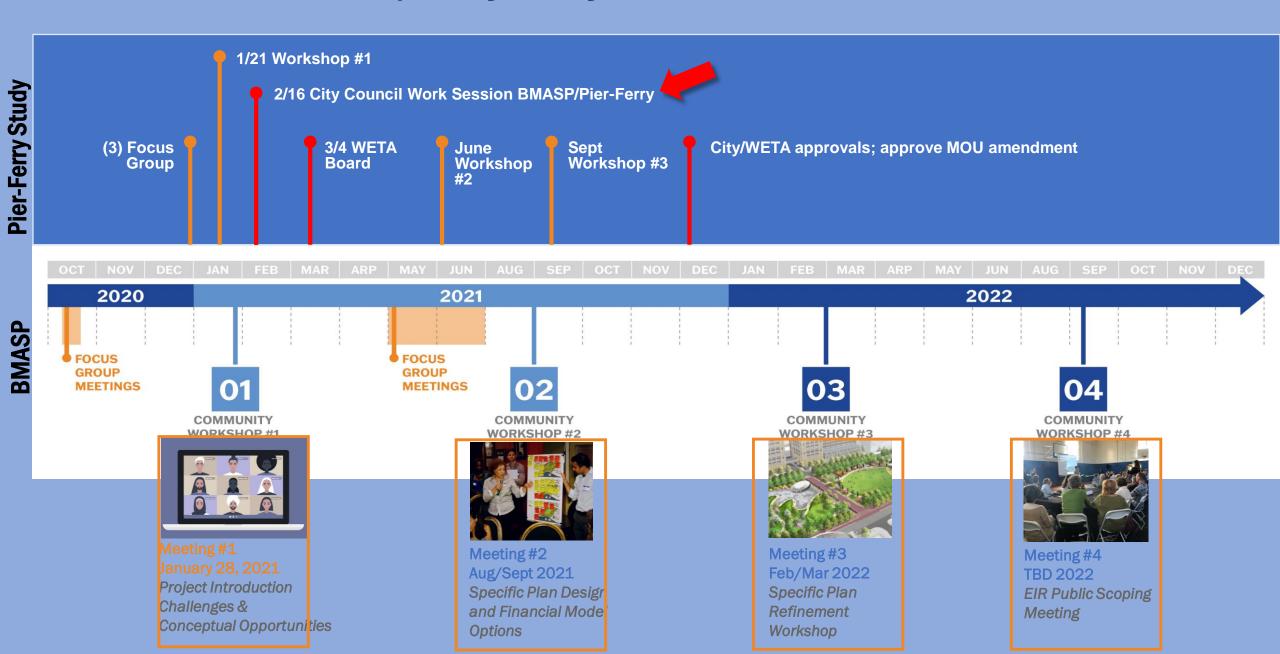
740% increase in Peak Capacity

**5x the Daily Riders** 

25 Peak Hour Landings

**\$144M Operating Budget** 

# Pier/Ferry Study & BMASP Timelines





### **BMASP Goals**

### Develop a specific plan to set the Waterfront on a sustainable path.



#### achieve financial sustainability

- keep Marina Fund operational
- develop a viable financial model



#### address infrastructure needs

- prioritize capital projects
- Identify funding sources



#### support community needs

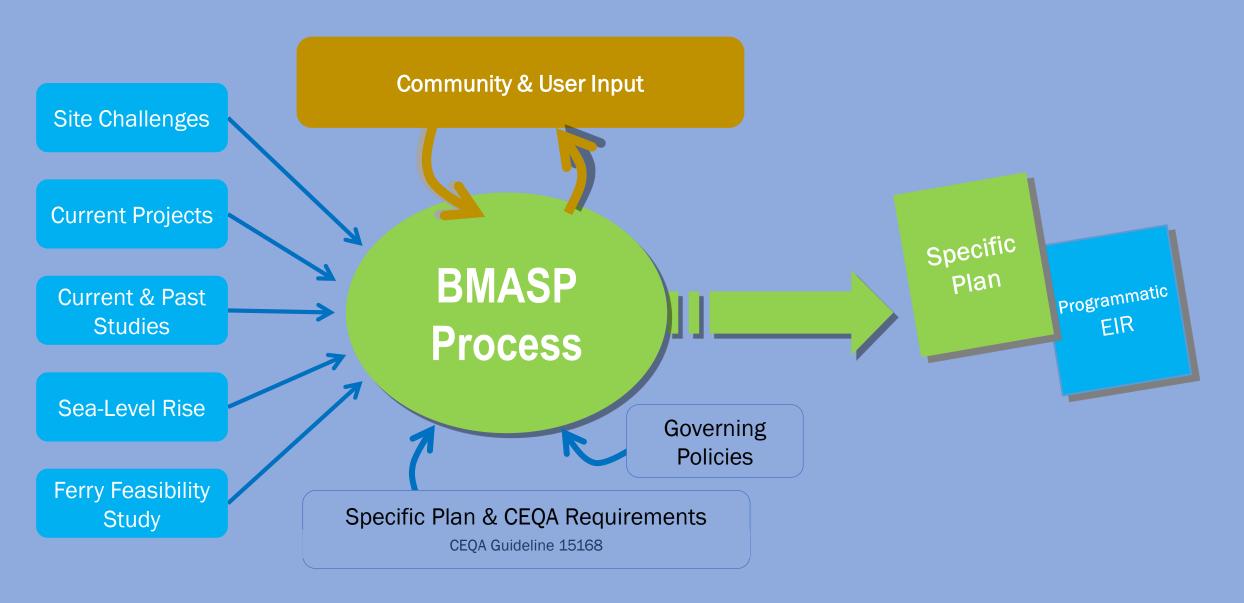
- Marina: slips, business, clubs, etc.
- Recreation and environmental stewardship



#### adapt to climate change

- Assess SLR vulnerability
- Identify mitigation and adaptation measures

### **BMASP Process**



# **Marina Case Studies (5)**



**Pillar Point Harbor** 



**Dana Point Harbor** 



**Alamitos Bay Marina** 

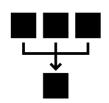


**Former San Leandro Marina** 

### **San Francisco Marina**



San Francisco | State Tidelands



Public Owner/Operator
City & County of San Francisco



667 marina slips



39 acres | water 19 acres | land



	Onsite
1	West Harbor
2	East Harbor
3	Marina Green
4	Yacht Clubs

	Offsite
Α	Fort Mason
В	Crissy Field
С	Palace of Fine Arts
D	Chestnut St

## San Francisco Marina Recent Capital Investment

### Marina rebuild supported by higher fees, shift to larger slips

- \$27M renovation of West Harbor completed in 2013
  - Replaces & reconfigures docks and slips
- Phase 1 financed by DBW loans repaid through increased fee revenue
- Phase 2 will replace & reconfigure
   East Harbor docks and slips
  - Partially funded by PG&E settlement

	West	East
Slips	325	342
Renovation Year	2013	Not Completed
Avg. Slip Length	43'	28'
Slip Occupancy	98%	75%
30' Berth Rate	\$14.47/ft.	\$10.44/ft.
Annual Fees Per Slip	\$8,000	\$2,400

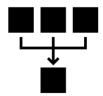




### **Pillar Point Harbor**



Half Moon Bay | State Tidelands



Public Owner/ Operator
San Mateo County Harbor District



369 marina slips



45 acres | water (marina) +/-20 acres | land



	Onsite
1	Rec Marina
2	Comm. Marina
3	Pier/ Fisheries
4	Shops & Restaurants
5	Boat Launch

	Offsite
Α	Harbor Village
В	HMB Brewing
С	Chowder House

# **Pillar Point's Special District Funding Model**

### Special district property tax provides flexibility to encourage diversity of uses

Special district owner/operator receives \$0.03/\$1 of county prop taxes

 Property taxes represent 2/3 of district revenues, help fund capital needs

Dedicated funding provides flexibility to encourage uses that generate modest direct revenues, but provides spinoff benefits, such as commercial fishing

- Commercial fishing vessels occupy half of berths; 98% occupancy
- 3 whole fishery leases on pier (4 hoists)
- Fresh fish sales permitted off boats
- Draws visitors to restaurants & charter boats

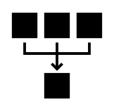




# **Alamitos Bay Marina**



Long Beach | State Tidelands



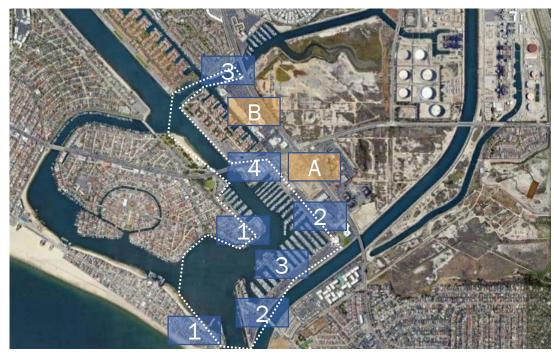
Public Owner/Operator City of Long Beach



1,646 marina slips



200 acres | water 10 acres | land



	Onsite
1	Yacht Clubs
2	Commercial Areas
3	Marinas
4	Marina Boatyard
	Water Taxi

	Offsite
Α	New Coastal Mall
В	Existing Shopping Center

# **Alamitos Bay Marina Rebuild Project**

### Marina rebuild supported by lean operating budget; upland development follows

Rebuilt & reconfigured 1,646 slips over 13 years

• +/-15% increase in average slip length

\$105M rebuild financed by bonds secured by marina fund net revenues (3 marinas)

- Operating expenses = 56% gross revenues
- Slip fee increases have averaged 2.3%/year

Upland development has followed:

- waterfront restaurant & brew pub (City land)
- 215K sf coastal mall (private land)

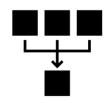




### **Dana Point Harbor**



Dana Point | State Tidelands



Public Owner/Private Operator Orange County



2,254 marina slips



170 acres | water 107 acres | land



	Onsite
1	Marinas
2	Hotel/Commercial
3	Yacht Club
4	Shipyard
5	Ocean Institute

	Offsite
Α	Hotels
В	State Beach

## **Dana Point Harbor Revitalization Project**

### Public-private partnership will revitalize marina and waterfront commercial district

Following adoption of land use plan, County entered into a 66-year ground lease with master developer to:

- Operate marina
- Replace/repair/reconfigure existing infrastructure
- Revitalize commercial core, develop new revenuegenerating uses in accordance with land use plan:
  - 2 hotels with 266 total rooms
  - 110,000 SF of new commercial uses

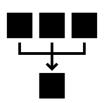




### **Former San Leandro Marina**



San Leandro



Formerly Public Owner/Operator City of San Leandro



462 marina slips (to be dismantled)



23 acres | water (marina) 37 acres | land



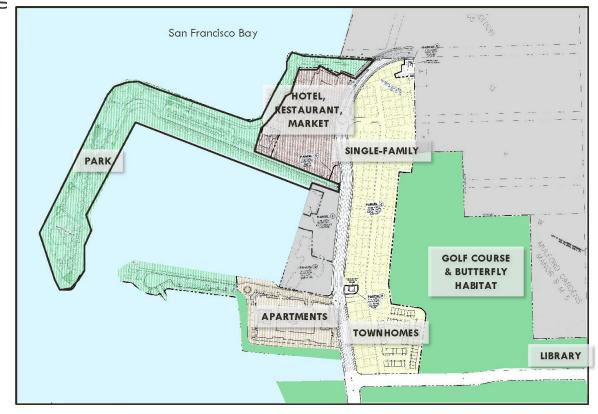
	Onsite
1	Marina
2	Pier/ Yacht Club
3	Hotel/ Commercial
4	Boat Launch

	Offsite
Α	City Golf Course
В	Marina Park

## Redevelopment of Former San Leandro Marina

### After underinvestment, marina to be replaced with mixed-use development

- With slip occupancy at 40%, City ended marina dredging in 2009
- City entered into agreement to ground-lease marina land, sell adjacent city golf course for mixed-use development with:
  - 220-room hotel
  - 20,000 sf restaurant/ banquet facilities
  - Up to 500 housing units
  - Rec. amenities (boat launch, Bay Trail)
- Marina slips will be dismantled



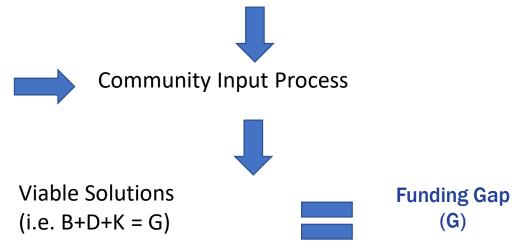
# **Case Study Reflections**



# **Explore potential solutions** for new revenue generation

	Potential New Facilities
Α	Additional Hotel
В	Restore Berkeley Pier with Regional Ferry Service
С	Restaurant
D	Boat Slip Reconfiguration
E	New Businesses or Activities
F	Special Events
G	Event/Party Areas
Н	Fish Market/Commercial Fishing Amenities
I	Recreation Businesses

	Potential Fees, Taxes, Bonds
Α	Parking Fee
В	Vehicle Entrance Fee
С	Special Assessment Tax
D	Infrastructure Bond Measures



# Potential Economic Benefits of Ferry Service by Land Use

### Hotel

- Generate new or extended stays
- Enhance event revenue
- Attract new hotel

#### Retail

- Capture "grab & go" commuter spending
- Support growing West Berkeley work force
- Attract new retail

### **Food & Beverage**

- Capture weekday commuter spending
- Capture recreational weekend/evening spending
- Attract new uses

### Recreation

- Draw visitors from across the Bay
- Gain exposure to outbound locals
- Join a network of regional destinations

## BMASP - What we are working on - Baseline Evaluations

### **Existing Amenities and Operations Assessment**

#### **Includes:**

- Market Demand Trend Analysis
- Informs future capital project planning process

### **Existing Infrastructure Assessment – Waterside and Landside Facilities**

#### **Includes:**

- Cost Estimates for each capital projects
- Prioritize capital projects per importance to the Marina operation and Community Input

### **End Product = 5-year Capital Improvement Plans [Expenditure]**

#### **Marina Enterprise Fund Financial Assessment**

#### **Includes:**

- Existing Marina Enterprise Fund Financial Analysis
- Revenue Generating Opportunities and Constraints Analysis
- Identify feasible solutions with Community Input to Alleviate Funding Gap

**End Product = Implementation Strategy Memo [New Revenue Source(s)]** 

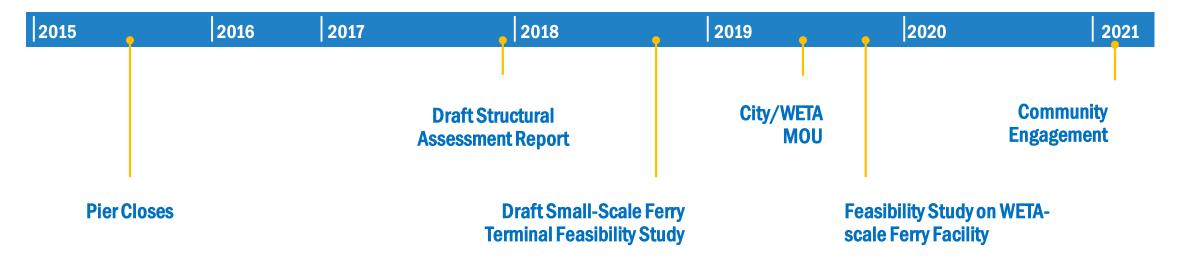




# **Multi-use Pier - Recreational Placemaking**



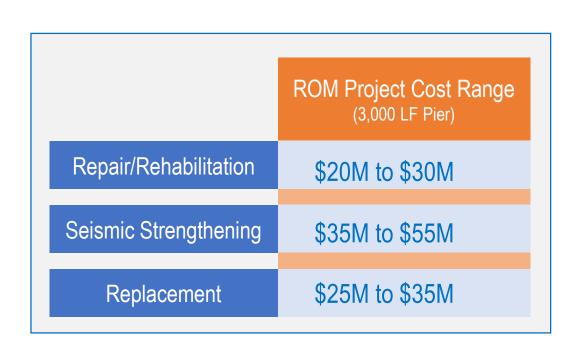
## **Pier Structural Assessment — Project History**







# Pier Alternatives – Rehabilitate, Retrofit or Replace



#### Replacement Pier Length vs Total Project Cost



i.e. ~\$17M for a 1,000 LF new pier

# **Supporting Policies & Studies**



# WATER EMERGENCY TRANSPORTATION AUTHORITY

### **City of Berkeley**

#### Policy:

- City General Plan Updates (2001)
- Climate Action Plan (2012): Sustainable transit
- Local Hazard Mitigation Plan (2019): High priority action for emergency response

#### Studies:

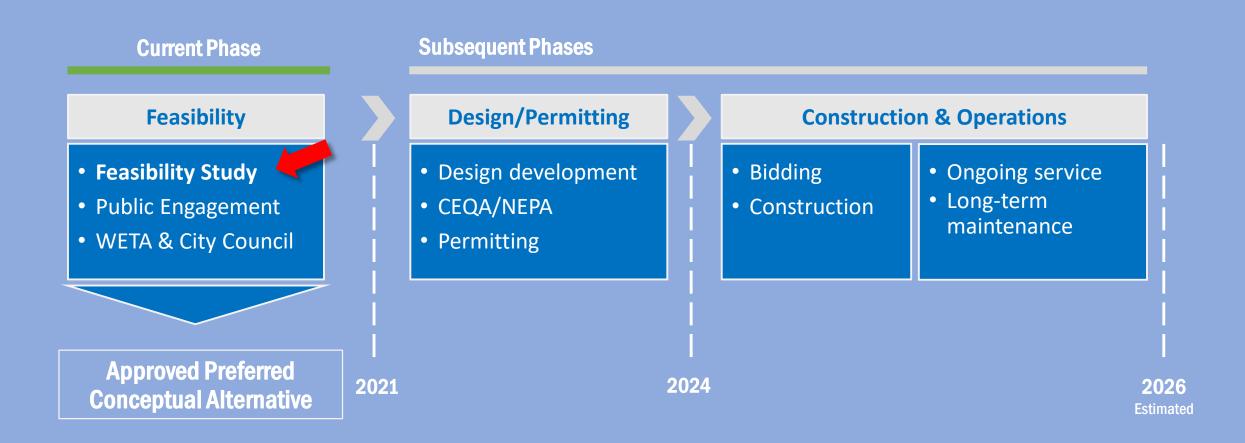
- Berkeley Municipal Pier Structural Assessment
- Small-scale Ferry Transportation Feasibility Study on Waterside Improvements

### **Water Emergency Transportation Authority**

#### Policy:

- **System Expansion Policy** (2015): Standards & process for new ferry services.
- **Strategic Plan** (2016): Identifies Berkeley as a near-term project.
- Emergency Response Plan (2016): Sets WETA role in provision of emergency water transportation.
- *Plan Bay Area 2050 (pending):* Includes Berkeley ferry service as 'Regionally Significant Project.'

# **Phases of the MOU**



Note: MOU may be terminated at any phase upon mutual agreement.











# **Parking & Mobility Considerations**

# **Two Key Questions to Answer:**





What opportunities exist to create mobility enhancements in the Waterfront?



# **Parking & Mobility Considerations**

1

# Develop baseline travel mode share for ferry



On a typical day, how many passengers would use each travel mode to get to/from ferry?

2

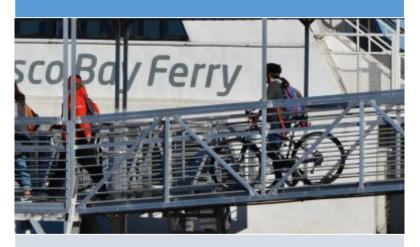
# Compare mode share to existing infrastructure



How many ferry riders could the Waterfront support with existing parking, transit, multimodal facilities?

3

# Consider supportive programs & enhancements



What programs & enhancements would support non-drive-alone travel & improve access to the Waterfront?

# Parking & Mobility Considerations

### **Initial Findings:**

- City/WETA goal is to accommodate ferry service with 250 spaces.
- Parking management strategies could accommodate many spaces in existing lots.
- Initial target of 60% ferry riders to arrive by bike, walking, transit, carpooling and other shared travel modes.



# **Upcoming Public Input Opportunities**

- Online Questionnaire at project website
- Project email: bmasp@cityofberkeley.info
- Community Workshops #2
  - Pier/Ferry Planning Study targeted for June 2021
  - BMASP targeted for Sept 2021
- Community Workshops #3 tba

## **Council Worksession Discussion Topics**

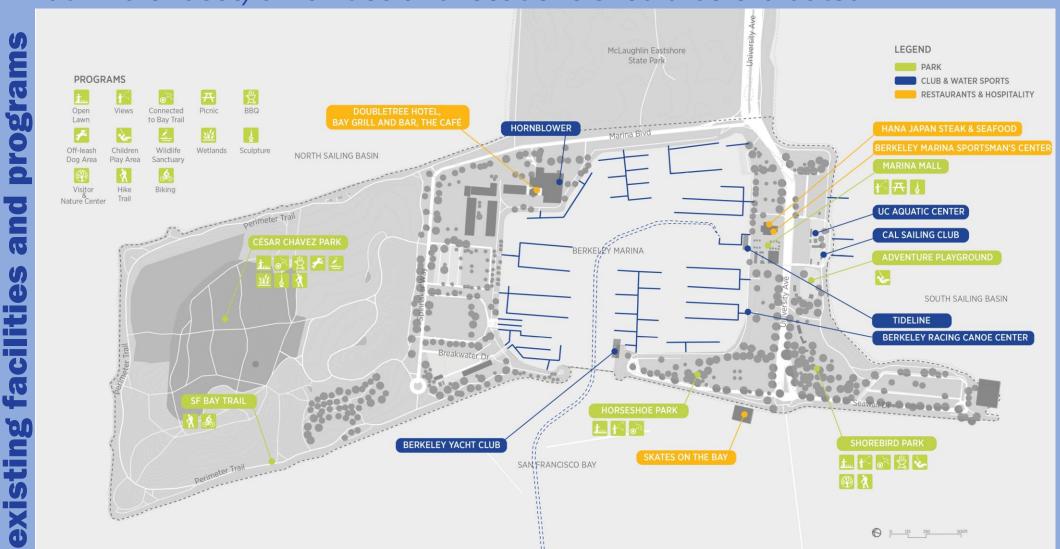
#1 What revenue-generating solutions/funding mechanisms should be studied in greater depth and evaluated for feasibility at the Berkeley Waterfront?

	Potential New Facilities
Α	Additional Hotel
В	Restore Berkeley Pier with Regional Ferry Service
С	Restaurant
D	Boat Slip Reconfiguration
Е	New Businesses or Activities
F	Special Events
G	Event/Party Areas
Н	Fish Market/Commercial Fishing Amenities
1	Recreation Businesses
J	Others?

	Potential Fees, Taxes, Bonds
Α	Parking Fee
В	Vehicle Entrance Fee
С	Special Assessment Tax
D	Infrastructure Bond Measures
E	Others?

# **Council Worksession Discussion Topics**

#2 What kind of uses/amenities and locations should be evaluated?



### **Council Worksession Discussion Topics**

#3 What waterside and landside access concepts for a Berkeley Pier/Ferry terminal

should be explored?





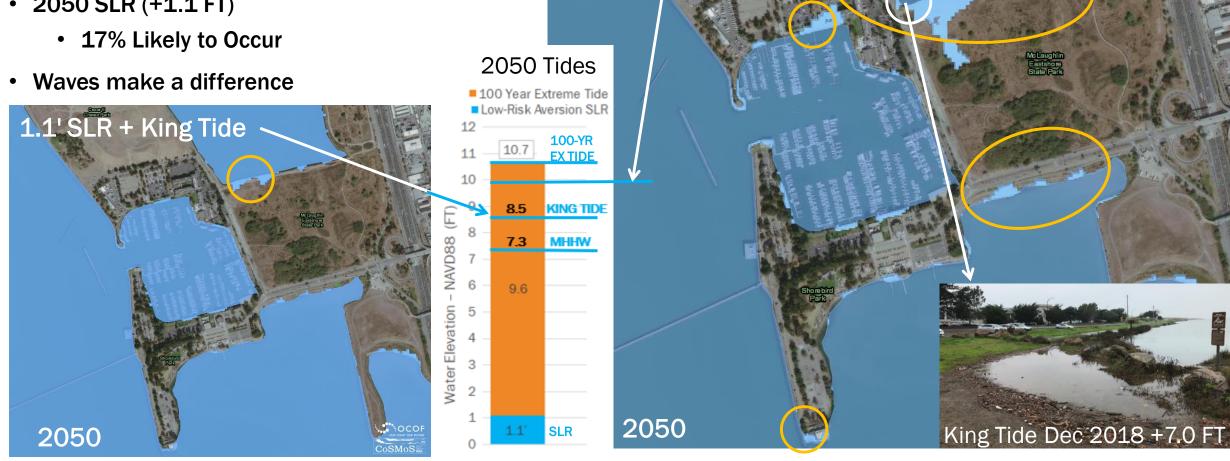






## 2050 Sea Level Rise (SLR) Impacts

- 2019 Draft Study
- **Berkeley Marina less affected**
- Shoreline: +10 FT NAVD88
- 2050 SLR (+1.1 FT)



1.1 SLR + 20-YR STORM