



CLIMATE READY: SOUTH BOSTON

March 6, 2018 | 6:00 – 8:00 pm
Public Meeting #2

Introductory Presentation with short Q&A at 6:15

Informational Stations:

Station 1 - Climate Ready South Boston Overview

Station 2 - District Flood Risk Overview

Current Conditions and Flood Risk Resilience Options

Station 3 - Fort Point Channel

Station 4 - South Boston Waterfront

Station 5 - Seaport Boulevard

Station 6 - Marine Industrial Park / Reserved Channel

Station 7 - South Boston Neighborhood

- Share progress since December
- Communicate the multiple options towards building climate resilience in South Boston
- Dialogue to understand general reactions and feedback



Imagine Boston 2030

Imagine Boston proposes four goals to guide our city's growth.

1. Provide quality of life in accessible neighborhoods
2. Drive inclusive economic growth
3. Promote a healthy environment and adapt to climate change
4. Invest in infrastructure, open space, and culture



Imagine Boston 2030

Climate Ready Boston

A vision that builds on the Climate Ready Boston mission:

“To generate resilient solutions for neighborhoods, infrastructure, and governance that help the region prosper and grow in the face of long-term climate change.”

Imagine Boston 2030

Resilient Boston

**Climate Ready East Boston
and Charlestown**

Climate Ready Boston

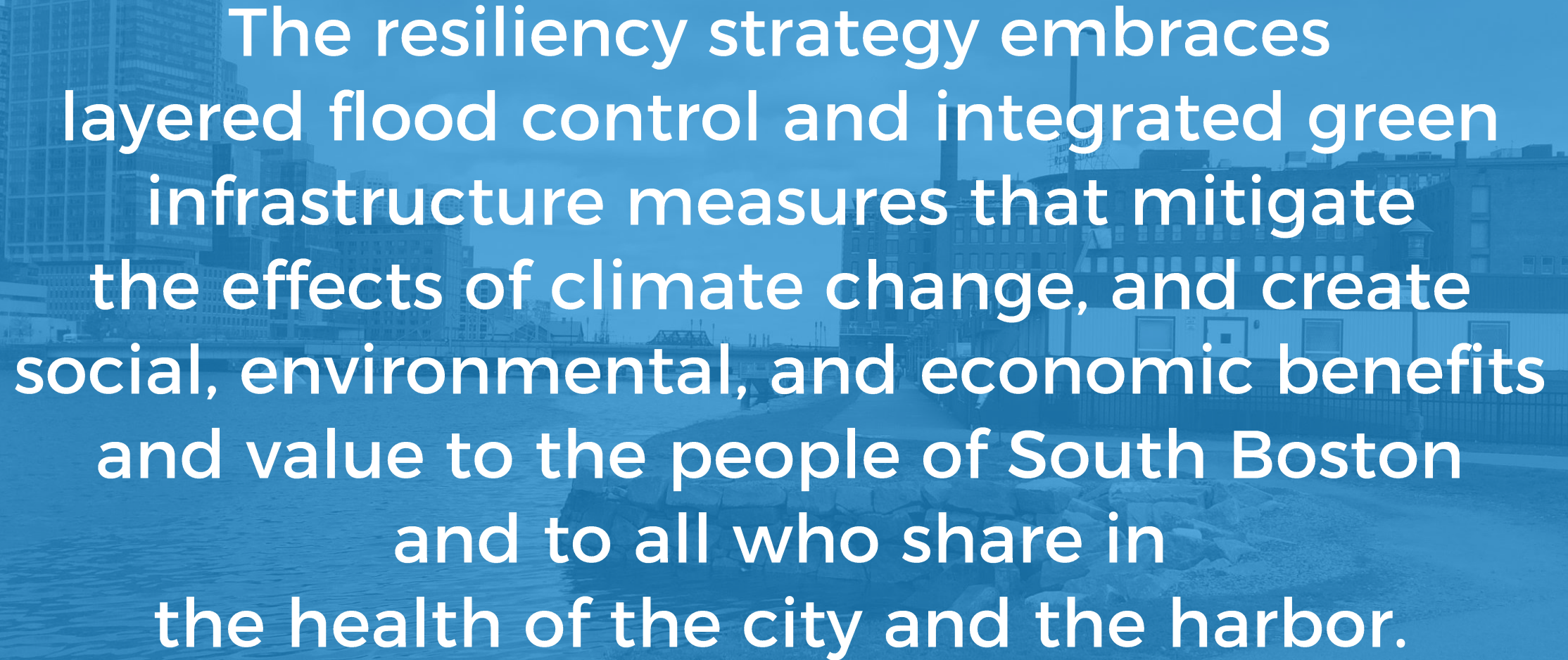
**Climate Ready South
Boston**

Moakley Park Study

**UMB Finance and
Governance Study**

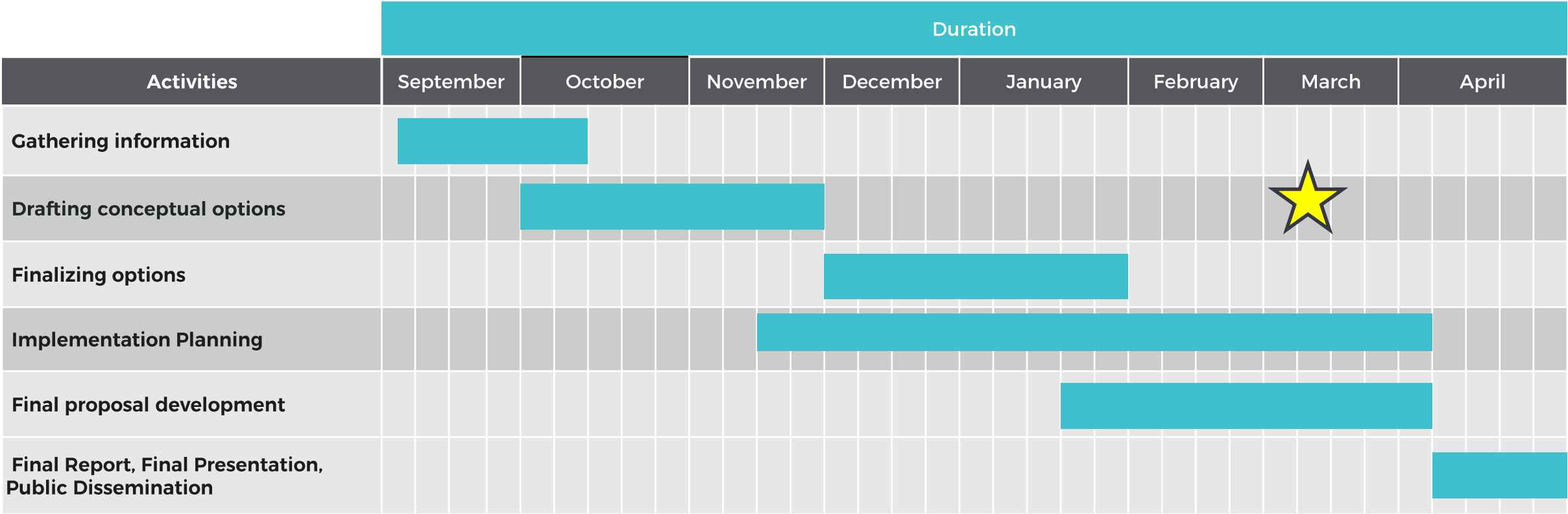
Go Boston 2030

Boston Harbor Barrier Study



The resiliency strategy embraces
layered flood control and integrated green
infrastructure measures that mitigate
the effects of climate change, and create
social, environmental, and economic benefits
and value to the people of South Boston
and to all who share in
the health of the city and the harbor.

CLIMATE READY SOUTH BOSTON PROJECT SCHEDULE

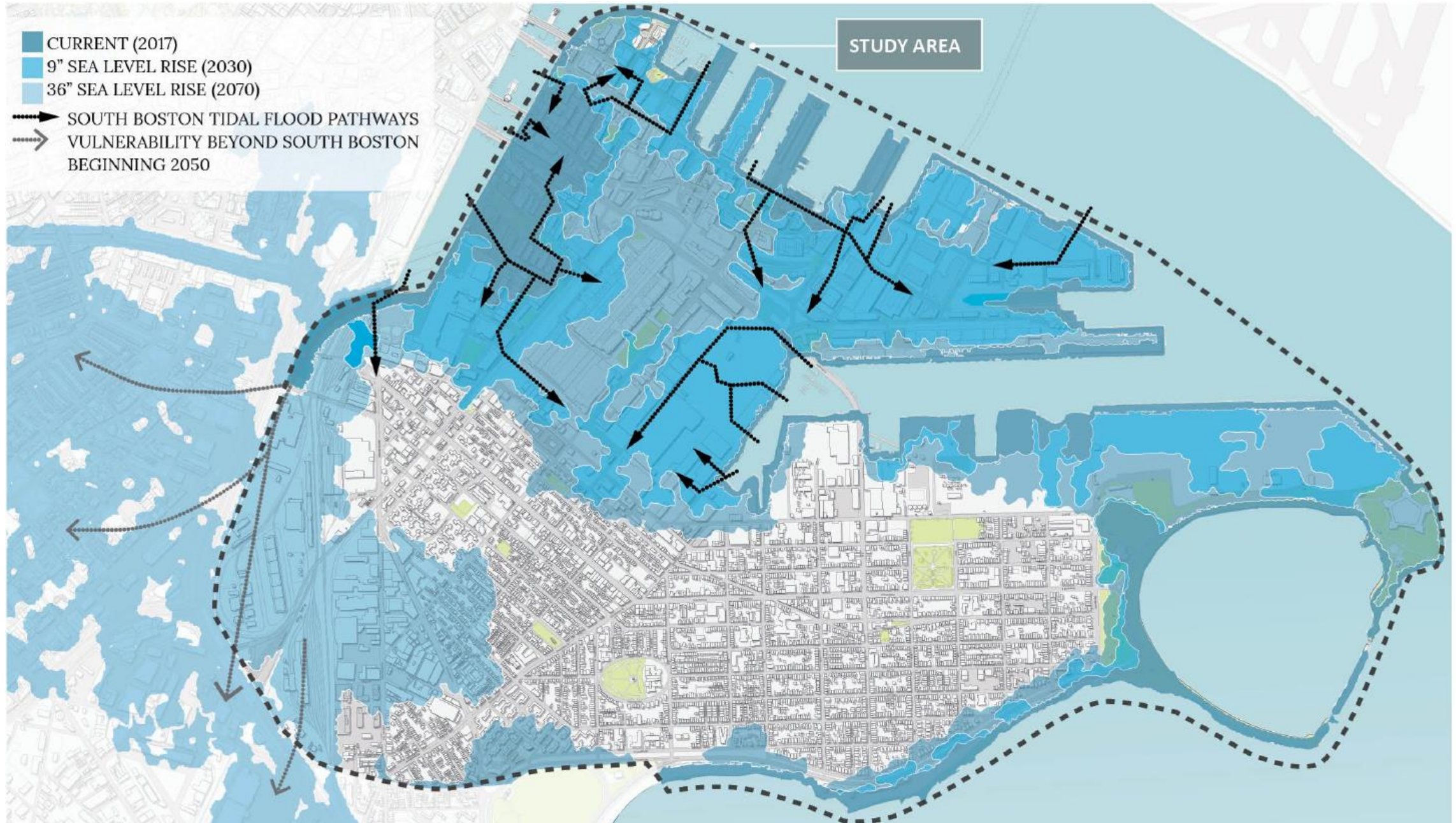


HISTORIC AND CURRENT SHORELINE

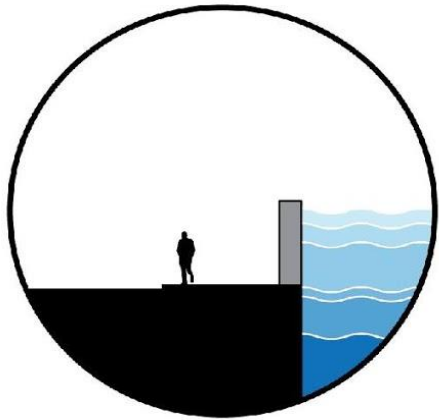


PROBABLE FUTURE STORM FLOOD EXTENTS

AT THE 1% ANNUAL CHANCE STORM EVENT

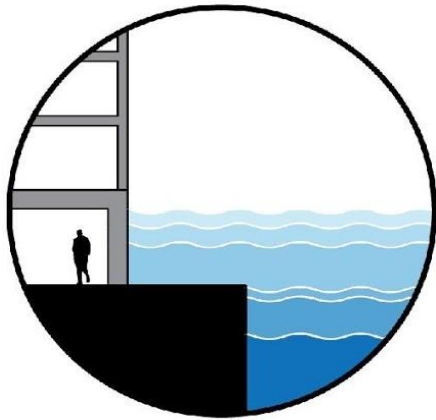


1. VERTICAL SEAWALL



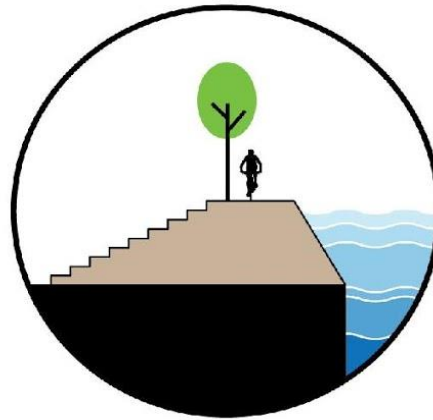
- 1A. VERTICAL SEAWALL
- 1B. BRIDGE RAILING MODIFICATION
- 1C. PEDESTRIAN TIDAL GATE

2. WATERTIGHT BUILDINGS / STRUCTURES



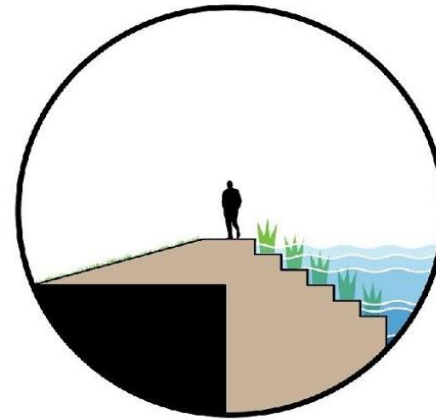
- 2A. FLOOD IMPROVEMENTS TO BUILDINGS / STRUCTURES
- 2B. RAISED FUTURE BUILDING PAD

3. RAISED HARBORWALK / PARKSPACE



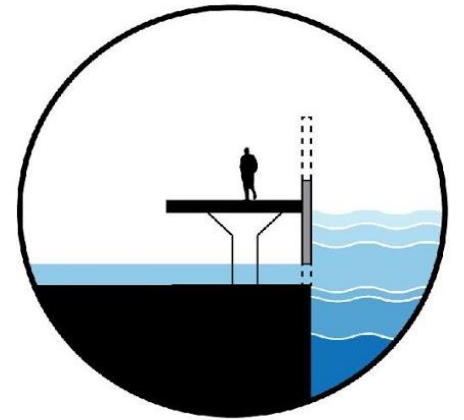
- 3A. RAISED HARBORWALK / PARK LEVEE
- 3B. RAISED ROADWAY GRID

4. CONSTRUCTED GROUND



- 4A. CONSTRUCTED LAND HARBORWALK / PARK LEVEE
- 4B. CONSTRUCTED BARRIER
- 4C. CONSTRUCTED SALT MARSH TERRACES
- 4D. CONSTRUCTED SAND DUNES

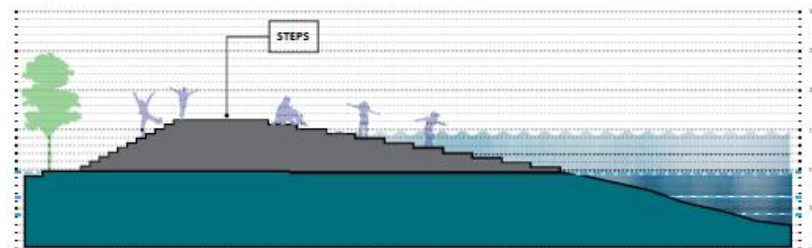
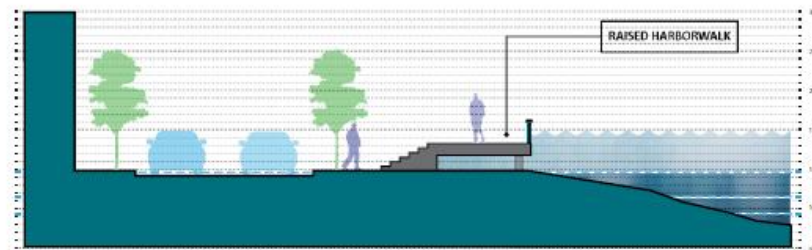
5. TRANSPORTATION / NAVIGATION



- 5A. NEW HARBORWALK OVER WATER
- 5B. NAVIGATIONAL TIDAL GATE / BARRIER SYSTEM
- 5C. NAVIGATIONAL TIDAL GATE AT RECREATIONAL MARINA
- 5D. VEHICULAR TIDAL GATE

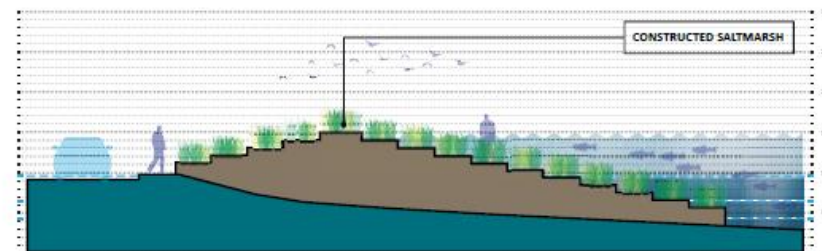
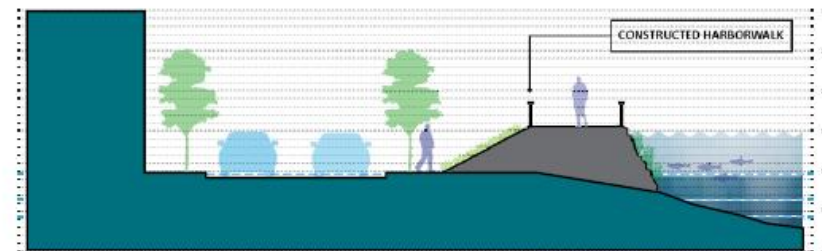


RAISED HARBORWALK / PARKSPACE





CONSTRUCTED GROUND



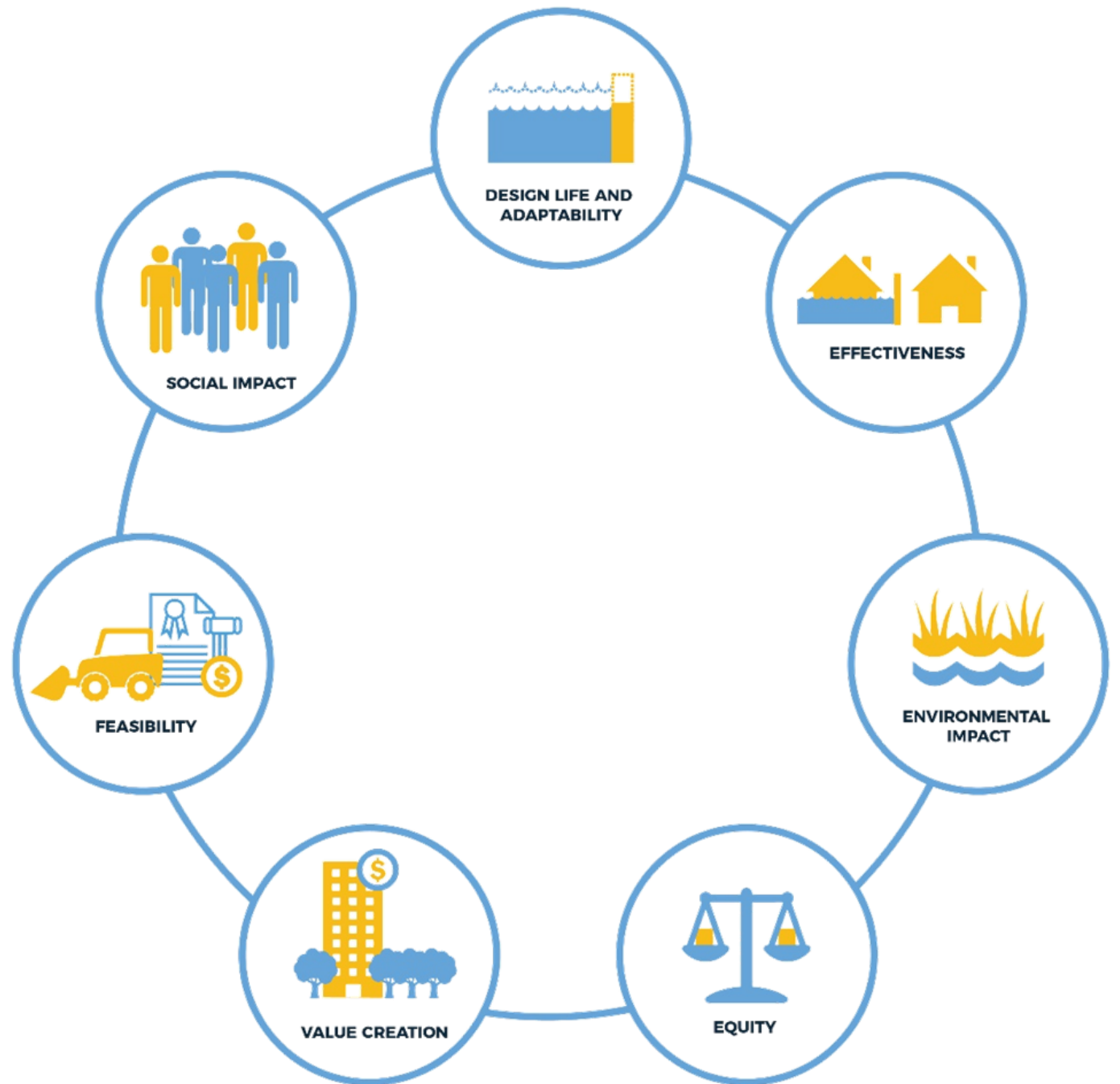


AMENITIES



EVALUATION CRITERIA FOR PROPOSED CLIMATE RESILIENCE STRATEGIES

1. Effectiveness
2. Environmental Impact
3. Design Life & Adaptability
4. Feasibility
5. Equity
6. Social Impact
7. Value Creation



WEIGHTING OF EVALUATION CRITERIA



highly undesirable or least favored positive impact



Neutral impact



highly desirable or most favored positive impact

OTHER ENGAGEMENT EFFORTS



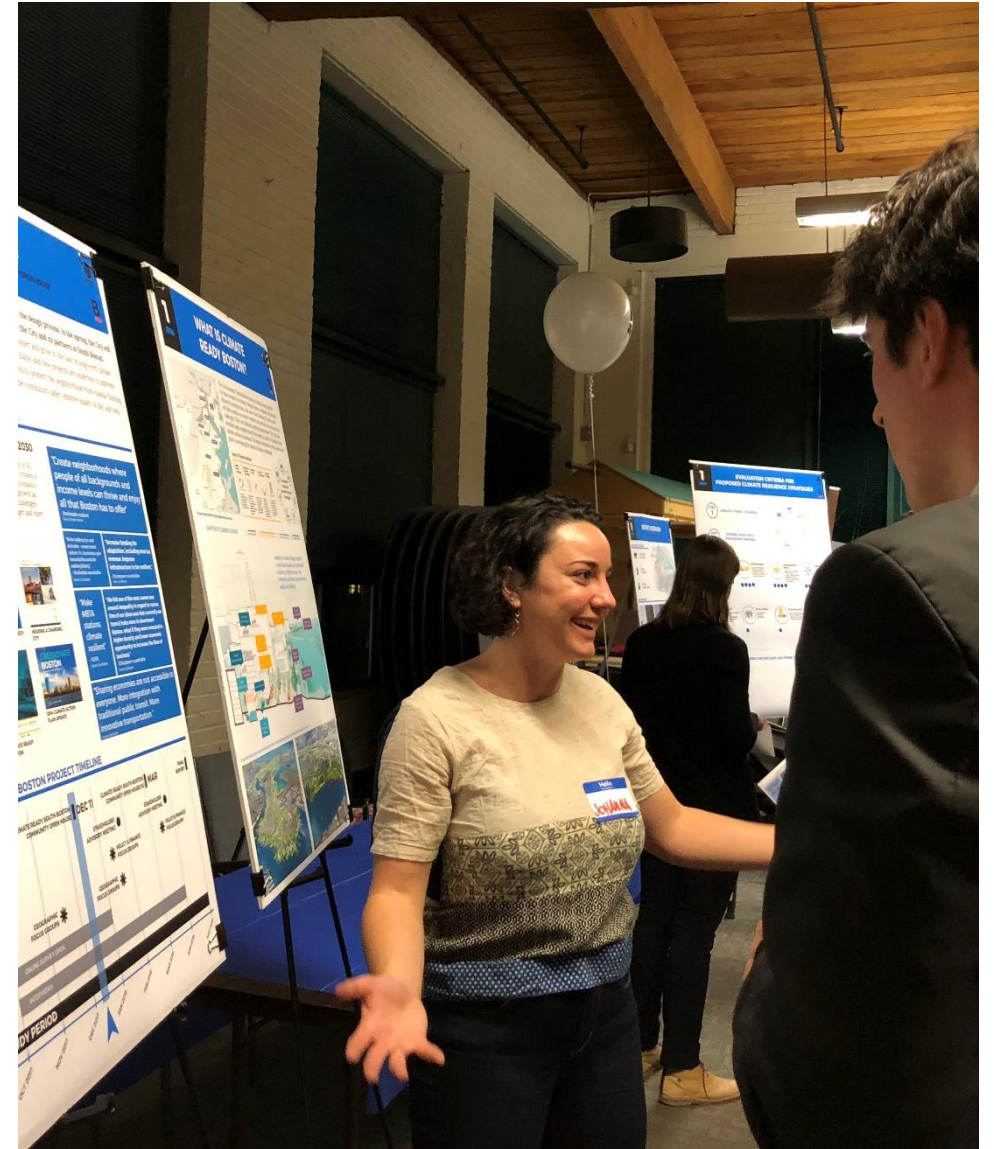
- Focus Groups:
 - Geographic
 - Policy + Implementation
- Interviews
 - 1-on-1
 - Small Groups
- City Tabling and Events
- December Open House (60+ attendees)



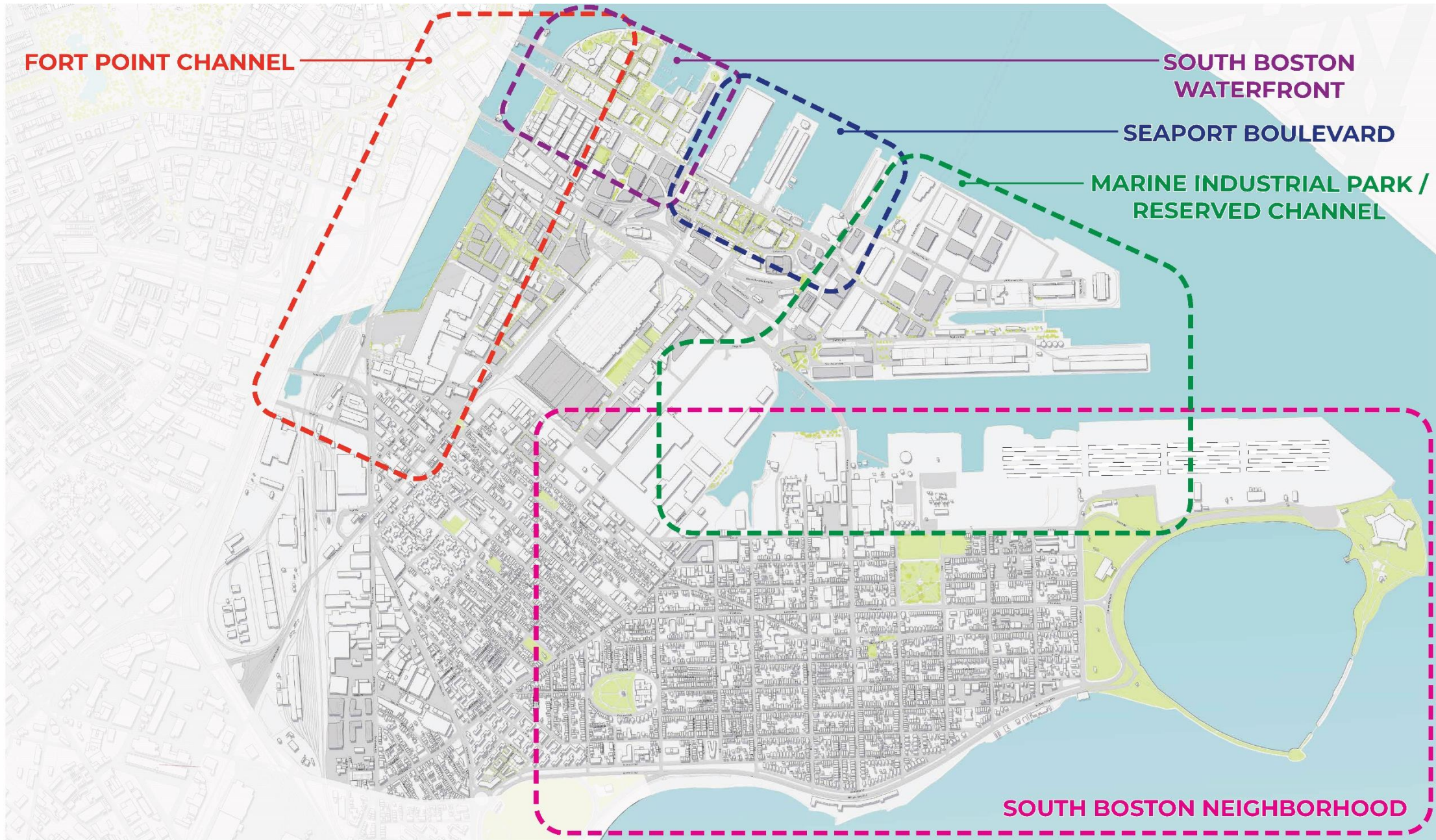
SOME COMMON THEMES



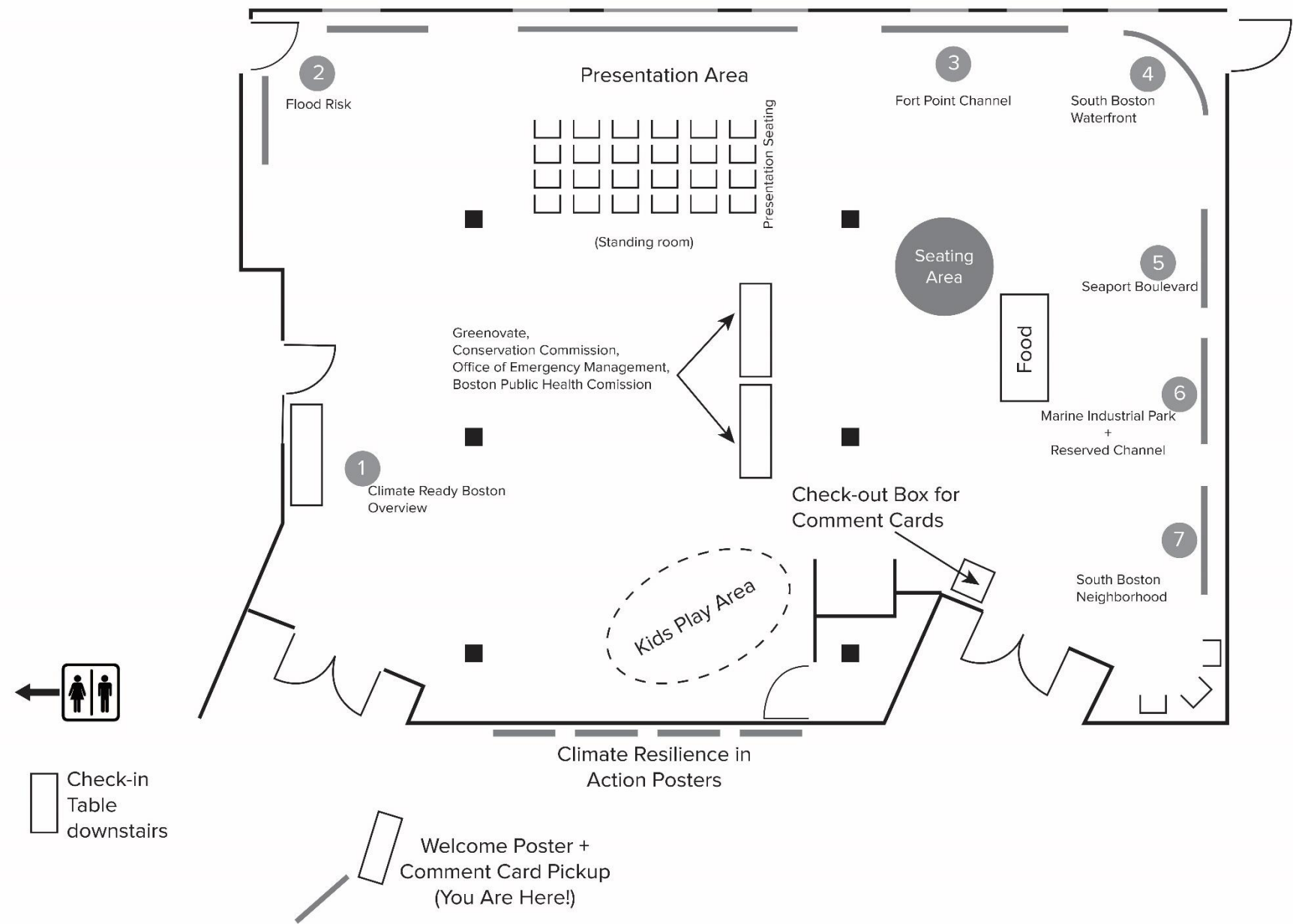
- Maximize both the effectiveness of the strategy AND public space improvements
- More engagement / continue the conversation
- Collective action is needed
- Fairness needed in funding strategies – consider what else people are paying to the City, already
- Honor and retain existing uses and business activities



PROJECT SITE STATIONS



ROOM LAYOUT



- Let you know what property is publicly or privately owned
- Provide photos of the area to orient you
- Zoom into flood risk maps for the area
- Summarize feedback we received and integrated from the open House and Survey



LONG-TERM FLOOD PROTECTION OPTIONS



- Represent longer term resilience goals for the area
- May integrate more complex, challenging, resource-intensive, or time consuming elements
- May be adaptable to higher magnitude flood events even further into the future

Let us know
what you think!



3 LONG-TERM FLOOD PROTECTION OPTIONS FOR FORT POINT CHANNEL

OPTION A

Option A uses both planned development as well as opportunities for recreation to increase flood protection along Fort Point Channel

EVALUATION CRITERIA PERFORMANCE	KEY CONSIDERATIONS
EFFECTIVENESS	PROJECT COST: \$ \$ \$ \$ \$
ENVIRONMENTAL IMPACT	PROJECT TIMEFRAME: 1 2 3 4 5
DESIGN LIFE AND ADAPTABILITY	• Limited space, water quality concerns, and the permitting issues present technical and planning challenges.
FEASIBILITY	• Can be implemented in phases.
EQUITY	• Can be designed to address 56 inches of sea level rise now and may be adapted to address higher flood levels later.
SOCIAL IMPACT	
VALUE CREATION	

TELL US WHAT YOU THINK!

Like what you see? Use a blue sticker! Not so much? Use a red sticker.

Have additional comments? Write them here!

OPTION B

Option B would install a mechanical flood protection solution at the mouth of the Fort Point Channel

EVALUATION CRITERIA PERFORMANCE	KEY CONSIDERATIONS
EFFECTIVENESS	PROJECT COST: \$ \$ \$ \$ \$
ENVIRONMENTAL IMPACT	PROJECT TIMEFRAME: 1 2 3 4 5
DESIGN LIFE AND ADAPTABILITY	• Fully relies on mechanical or human action to ensure effectiveness.
FEASIBILITY	• Likely to be more costly than shoreline solution around all of port area.
EQUITY	• Early action project or incremental solution not possible with this option.
SOCIAL IMPACT	• Can be designed to address 56 inches of sea level rise now, but unlikely to be adaptable to higher flood level later and is expected to lose effectiveness over time.
VALUE CREATION	

TELL US WHAT YOU THINK!

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EARLY-ACTION FLOOD PROTECTION OPTIONS



- Quick wins to build momentum
- Maximizing long-term flood risk reduction and minimize cost
- Leverage partnerships and existing projects
- Do not preclude future action

Let us know
what you think!



3

EARLY-ACTION FLOOD PROTECTION
OPTION FOR FORT POINT CHANNEL

STEP 1: 100 Acre Master Plan Harborwalk
Create a 40-50 foot wide Harborwalk park with an earthen berm land side of the Harborwalk.

STEP 2A: Tidal Gate at Alley
Install an automatic, permeable-scale tidal gate between two buildings.

STEP 3: Gillette Harborwalk
Create a 25-30 foot Harborwalk park that is a combination of earthen berm and aesthetic seawall.

STEP 4: GE Buildings
Use new development to provide a continuous line of protection along the waterfront.

STEP 2B: Building/Arcade as Seawall
Assess the structural soundness of the existing building to withstand flooding.

These early action projects, shown above in sequenced steps 1 through 4, focus on areas that require solutions take advantage of existing or planned development/construction to help address flooding.

EVALUATION CRITERIA	PERFORMANCE	KEY CONSIDERATIONS
EFFECTIVENESS		PROJECT COST \$ \$ \$ \$ \$
ENVIRONMENTAL IMPACT		PROJECT TIMEFRAME ○○○○○
DESIGN LIFE AND ADAPTABILITY		• Flood resilience and public space improvement actions may integrate with new development.
FEASIBILITY		• Owners of properties currently at risk in the area are motivated to act to reduce flood damage; coordinated efforts will be more efficient.
EQUITY		• Limited space, water quality concerns, and the permitting constraints present technical and planning challenges.
SOCIAL IMPACT		• All catalyst steps except step 2 can be designed to address 36 inches of sea level rise, now, and may be adapted to address higher mean tide flooding over time. Step 2 is likely to be effective against up to 12 inches of sea level rise, but longer term action will be required to protect against more significant flooding over time.
VALUE CREATION		

* Evaluate Criteria on a scale of 1 (lowest) to 5 (highest)

TELL US WHAT YOU THINK:

👍 Like what you see? Use a blue sticker!

👎 Not so much? Use a red sticker.

Have additional comments? Write them here!

Area near Gillette Manufacturing Today (STEP 3 on map above)

Area near Gillette Manufacturing with Early Action Improvements (STEP 3 on map above)

Improvements include:
a) Creation of 25-30 foot wide Harborwalk Park
b) Provide combination of earthen berm and seawall

NEXT STEPS

- Integrate Feedback into Options, Recommendations, and Report
- Policy and Implementation Focus Group – March 21
- Report Release – Expected May

An aerial photograph of a city harbor, likely Boston, featuring a large white and blue ferry docked at a terminal. The terminal building has a sign that reads "SEAPORT WORLD TRADE CENTER BOSTON MARINE TERMINAL". In the background, modern high-rise buildings line the waterfront, and a construction crane is visible. The foreground shows a street with a white truck and a few pedestrians. The entire image is overlaid with a blue tint.

**QUESTIONS OR
COMMENTS?**