

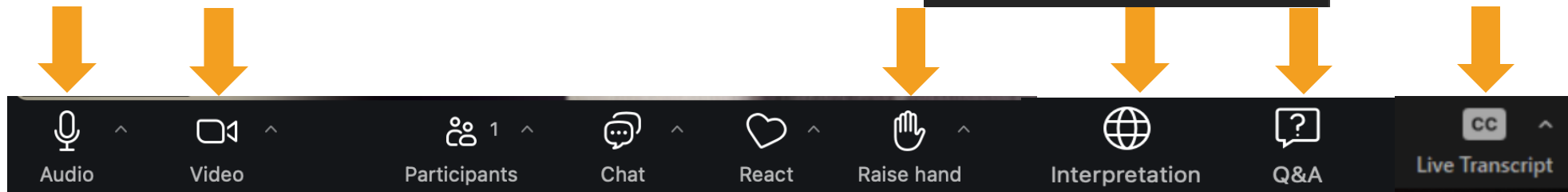
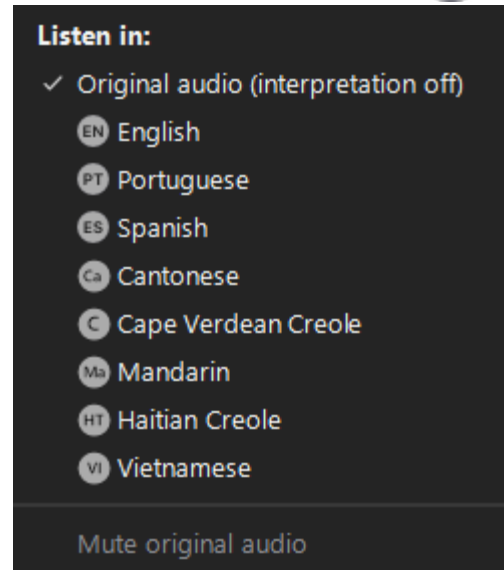
# Welcome! We'll get started in a few moments...

## ZOOM LOGISTICS

- Stay muted.
- Use video if you like.
- Use Q&A function ask questions.
- Raise hand if you want to speak
- Closed captioning is available

## INTERPETATION

We will turn on interpretation channels in a moment. At that point, please select your preferred language by clicking on the interpretation icon on at the bottom of your screen.



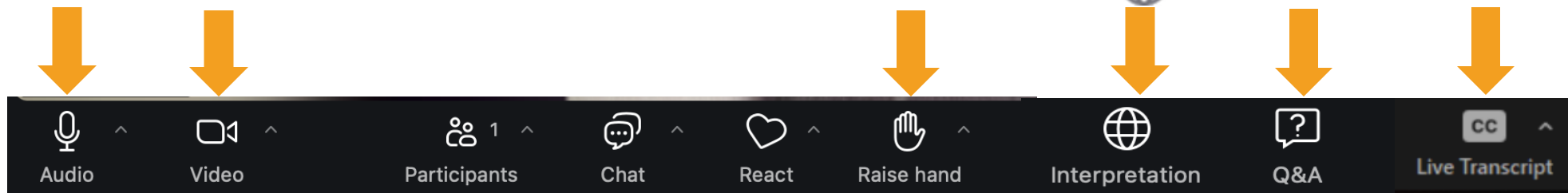
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- ¡Bienvenido! Si necesita interpretación, seleccione el idioma que prefiera haciendo clic en el botón de interpretación situado en la parte inferior de la pantalla.
- Benvindud! Si bu meste servissus di interpretason, pur favor klika na ikoni/boton di lingua di bu preferensia ki sta na parti di fin di bu ekran/tela.
- Byenveni! Si ou bezwen tradiksyon nan bouch (entèpretasyon), tanpri chwazi lang ou pi pito a lè ou klike sou desen entèpretasyon an ki anba ekran ou an.
- 歡迎！如果您需要口譯服務，請選擇您的首選語言，請點按位於螢幕下方的口譯圖標。
- Chào mừng! Nếu quý vị cần được thông dịch, vui lòng chọn ngôn ngữ mong muốn của quý vị bằng cách nhấp vào biểu tượng thông dịch ở dưới cùng màn hình của quý vị.

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# ResilientCoasts

PUBLIC MEETING #2



ResilientCoasts

OCTOBER 25, 2024

# AGENDA

- **WELCOME & PROJECT UPDATES**
- **COASTAL RESILIENCE DISTRICTS**
  - Purpose and function of districts
  - Factors
  - Q&A
- **REGIONAL COLLABORATION**
  - Goal and examples
  - Public input
- **2030 COMMUNITY RISK HOT SPOTS**
  - Purpose and factors
- **TOOLS FOR COASTAL RESILIENCE**
  - Overview and examples
  - Public input
- **NEXT STEPS**
  - Follow-up survey
  - December meeting

# **GUIDING PRINCIPLES FOR TODAY'S DISCUSSION**

- **Be present**
- **Assume good intentions and be mindful of impact**
- **Be open to another perspective**
- **Make space/take space**
- **No technical expertise needed to participate. No question is bad or silly to ask.**

**ASK QUESTIONS IN Q&A AT ANY TIME (WE'LL RESPOND AS WE ARE ABLE)!**

**WE'LL ALSO PAUSE FOR Q&A AFTER WE INTRODUCE THE PLAN.**

# **(Re)introduction to the ResilientCoasts Plan**



# RESILIENTCOASTS PLAN OVERVIEW

- **Responsible for advancing:** EEA - Executive Office of Energy & Environmental Affairs & CZM - Office of Coastal Zone Management
- **Purpose:** guide state & local coastal resilience policy & and management actions
- **Process:**
  - **Describe a vision/goals** & metrics for a resilient coast
  - **Map geographic zones** of climate vulnerability - “coastal resilience districts” (long term) and "community risk hot spots" (near-term)
  - **Evaluate current & new strategies** and how they could be applied at different scales – local, regional/district, coast-wide
  - **Develop recommendations** to guide resilience action in vulnerable areas at state & local levels
- **Throughout - stakeholder engagement and coordination:**
  - Internal Agency Working Group, External Task Force
  - Public meetings (like this one), surveys, focus groups/interviews

# GOALS FOR A RESILIENT COAST

**GOAL 1:** Improve **human health and safety**

**GOAL 2:** Protect and enhance the value of **natural and cultural resources**

**GOAL 3:** Increase resiliency of **built infrastructure functions**

**GOAL 4:** Strengthen the **coastal economy**

**GOAL 5:** Advance **equity** and **environmental justice**

**GOAL 6:** Support the **capacity of coastal communities**



# PROJECT UPDATES

## CONCLUDED WAVE 1 – INTRODUCED FRAMEWORK, DEVELOPED GOALS AND INDICATORS

- **2 External Task Force, 2 Internal Working Group, 2 public meetings, environmental justice focus group**
- **Gathered feedback on indicators across 6 goals**

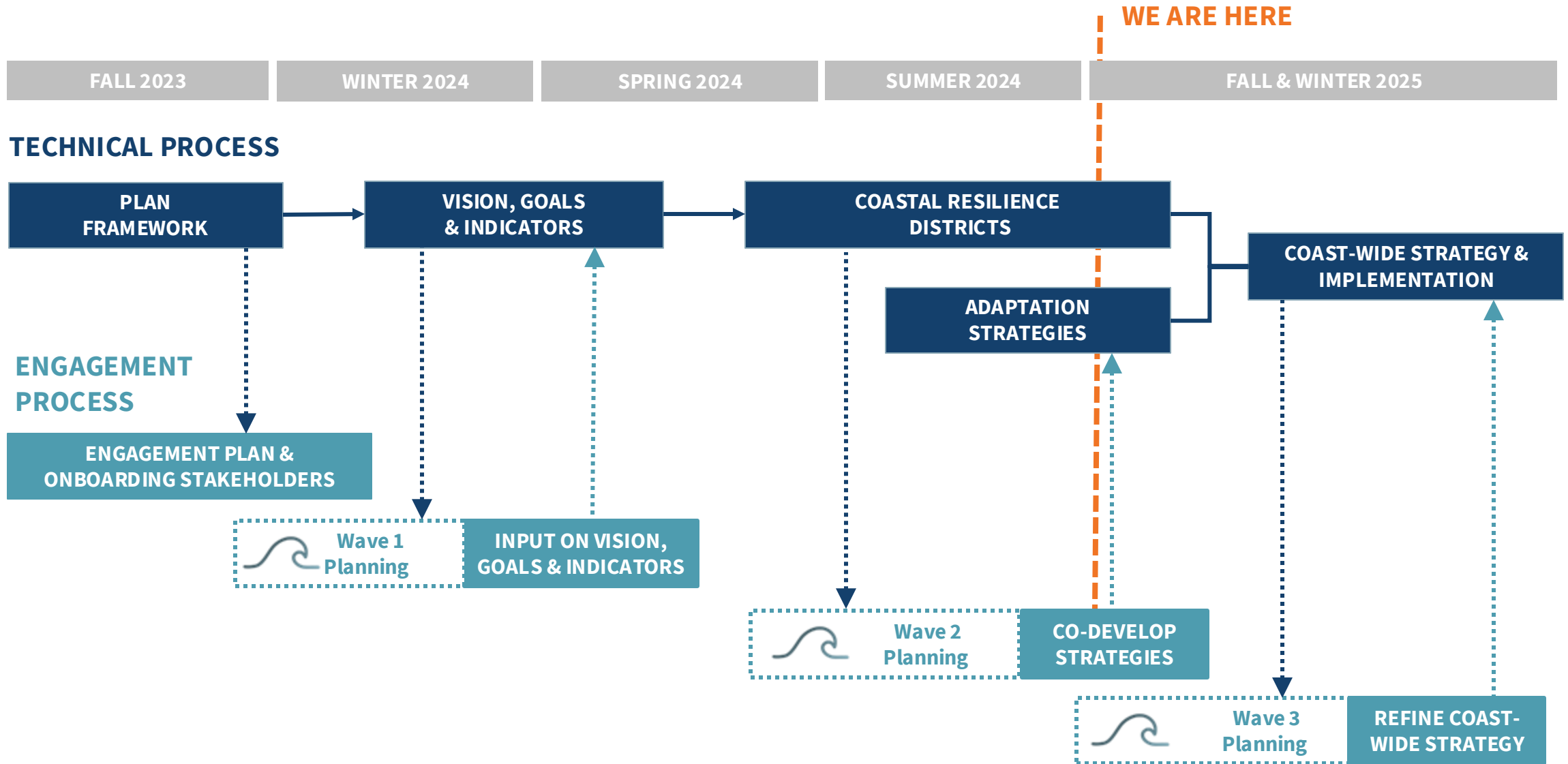
## ADVANCED TECHNICAL WORK OVER SPRING AND SUMMER

- **Exploring factors and spatial analyses to define/form districts**
- **Compiling coastal resilience strategies**

## EXTENDED TIMELINE TO FACILITATE ROBUST ENGAGEMENT ON DEVELOPMENT OF PLAN

- **Anticipate draft for public comment this winter**

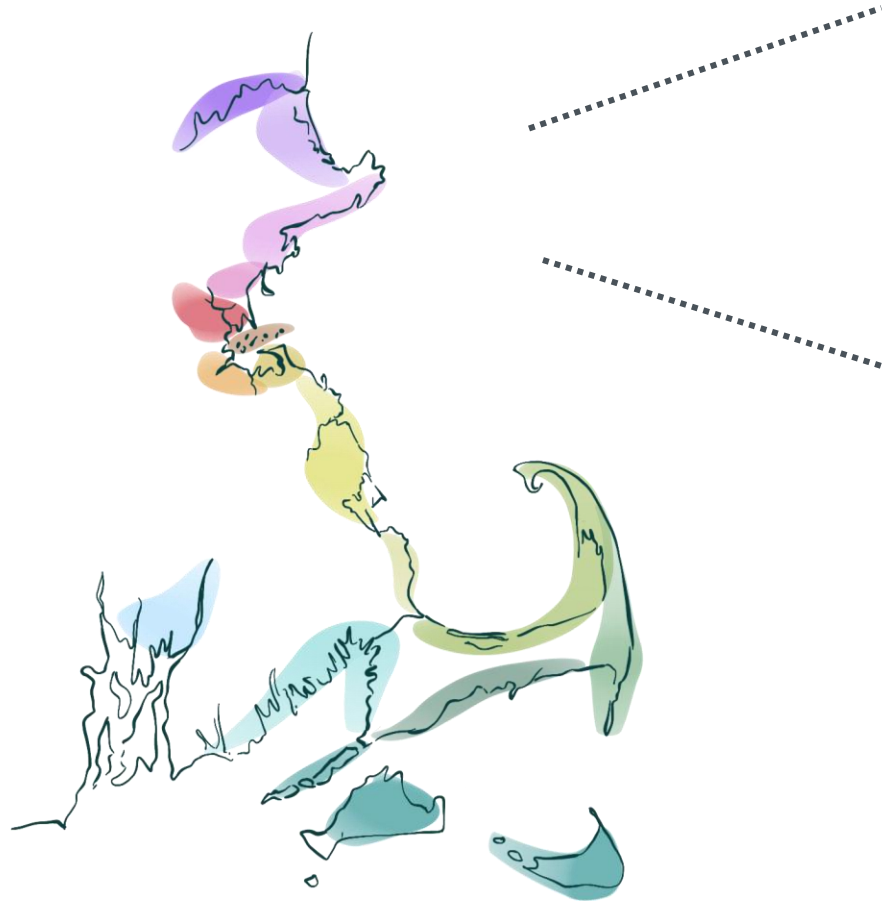
# TIMELINE



# APPROACH TO THIS PLAN

## COASTAL RESILIENCE DISTRICTS

(driven by natural resources, watersheds, and coastal hazards)



## NEAR-TERM COMMUNITY RISK HOT SPOTS

(people, housing, public infrastructure, and economic resources)



## COAST-WIDE STRATEGIES

(state-level policy, regulatory, financing, and other levers)



## COASTAL TYPOLOGIES

(different types of coastal environments, land use, and development)



## PLACE-BASED STRATEGY GUIDANCE

(suitable strategies based on coastal hazards and typology)

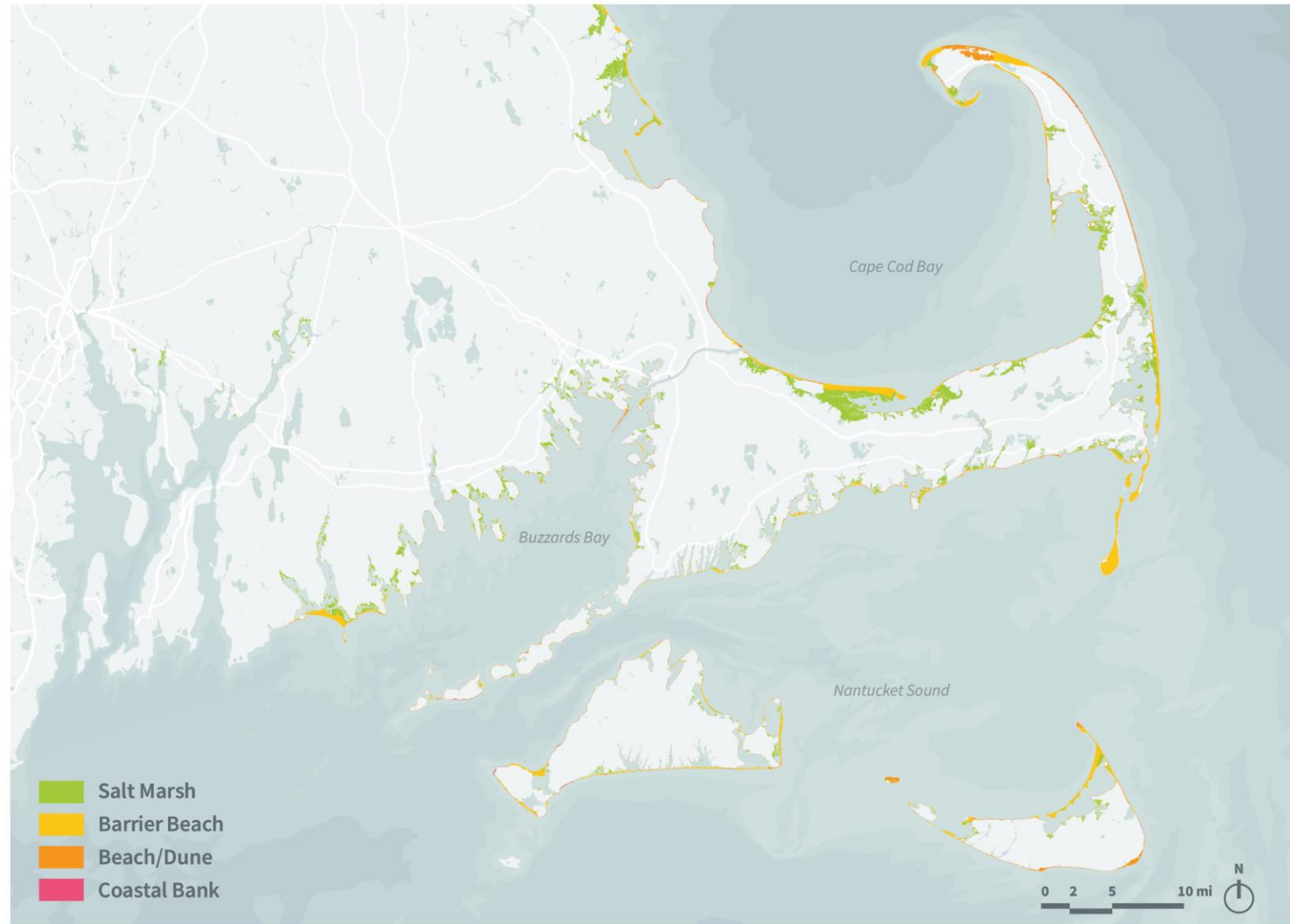
**DRAFT**  
**Coastal Resilience Districts**  
(For Discussion)

# PURPOSE OF COASTAL RESILIENCE DISTRICTS

- Provide **shared understanding of natural resource areas** and how their characteristics lend themselves to various coastal resilience strategies
- Create a common framework/language that will help **facilitate regional projects and partnerships** where there are shared risks, systems, and infrastructure
- Encourage **knowledge sharing on** coastal resilience strategies
- Promote **consistent, best practice approaches** in similar types of places across the coast

- 
- **Not intended to be a measure of priority**
  - **Not intended to be a site-specific/project-specific tool**

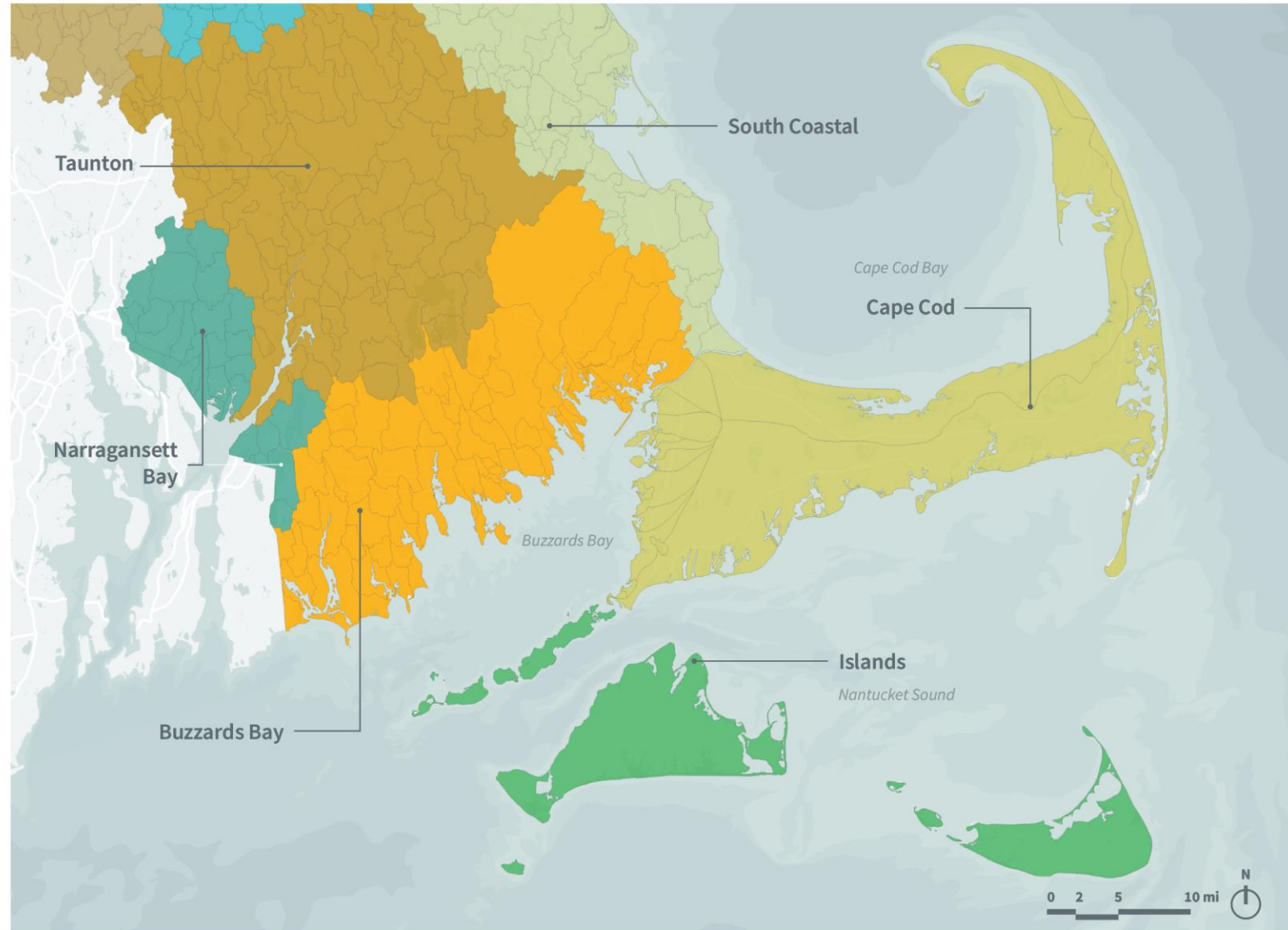
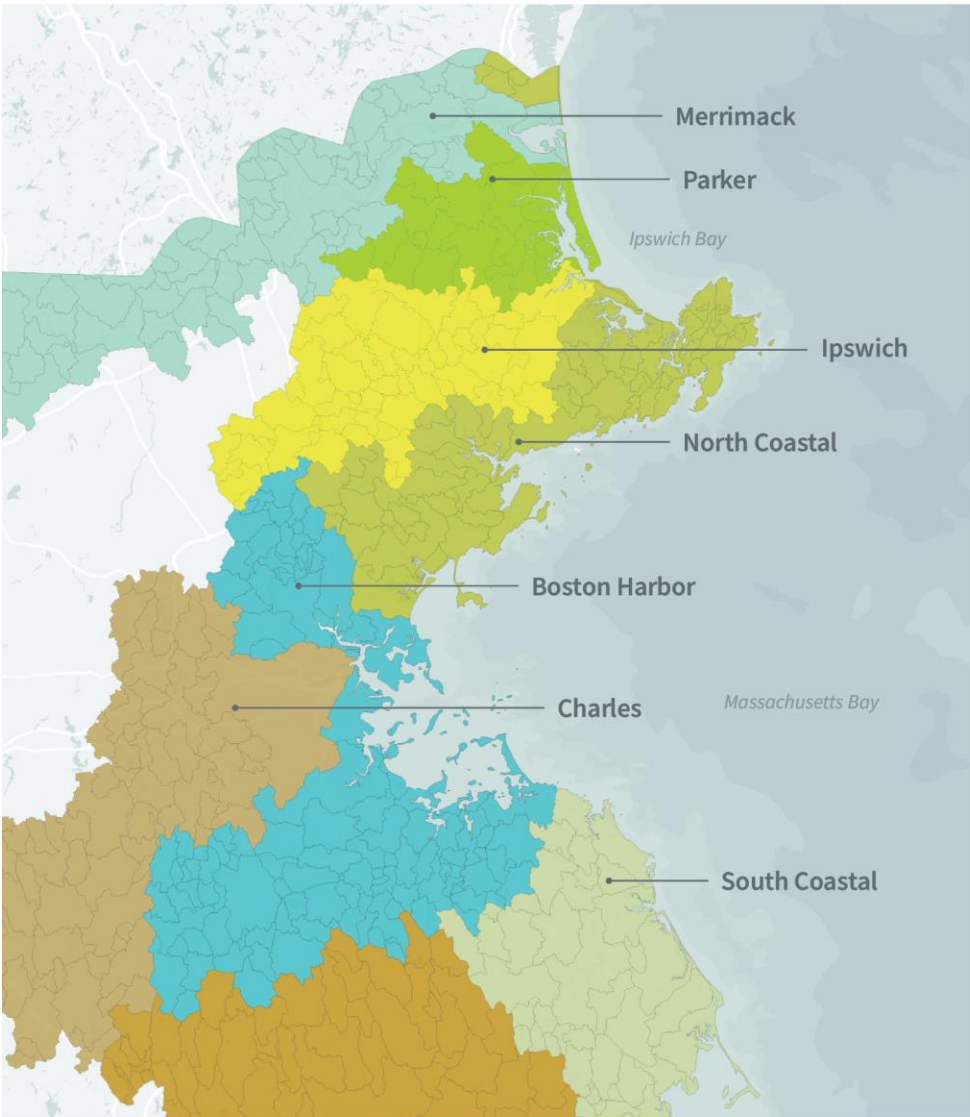
# DRIVEN BY NATURAL RESOURCES...



DRAFT FOR DISCUSSION PURPOSES ONLY



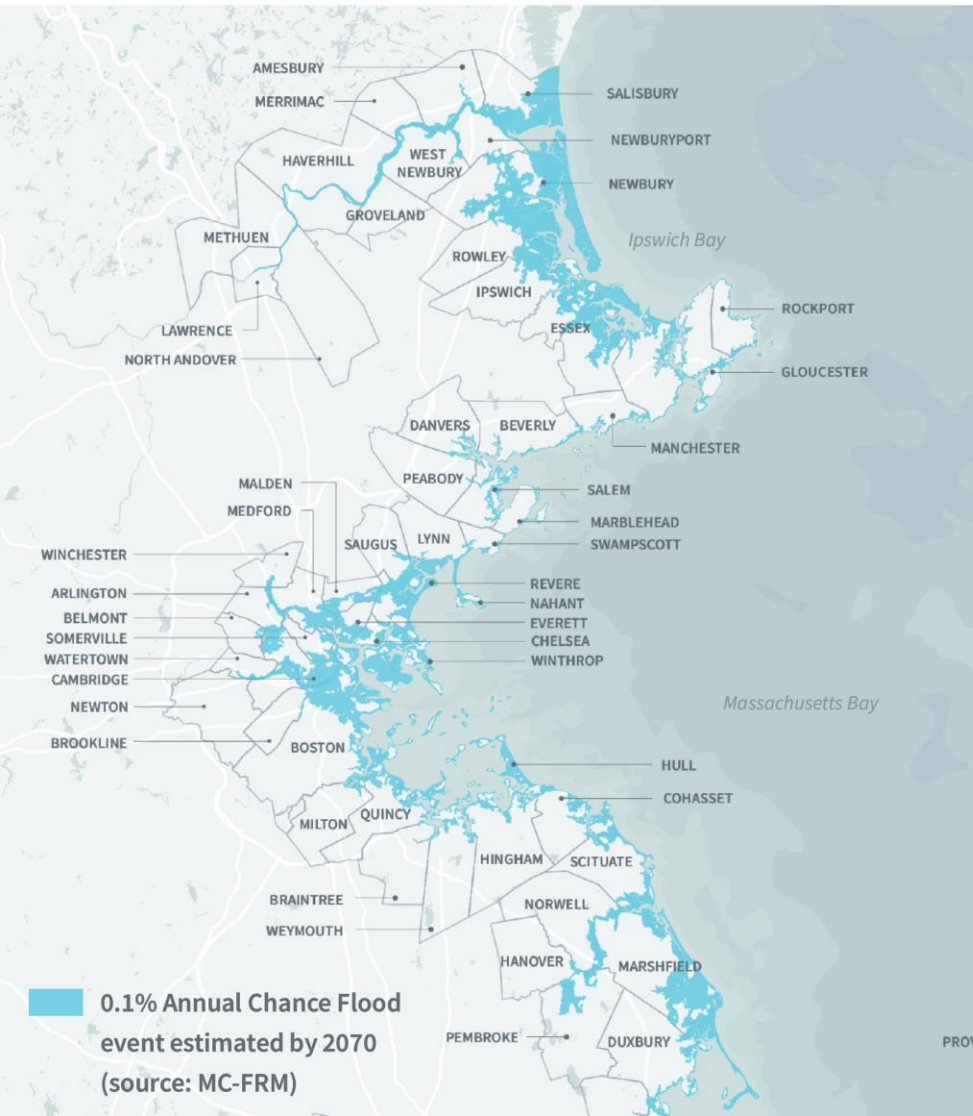
## ... AND WATERSHEDS/SUB-BASINS



DRAFT FOR DISCUSSION PURPOSES ONLY

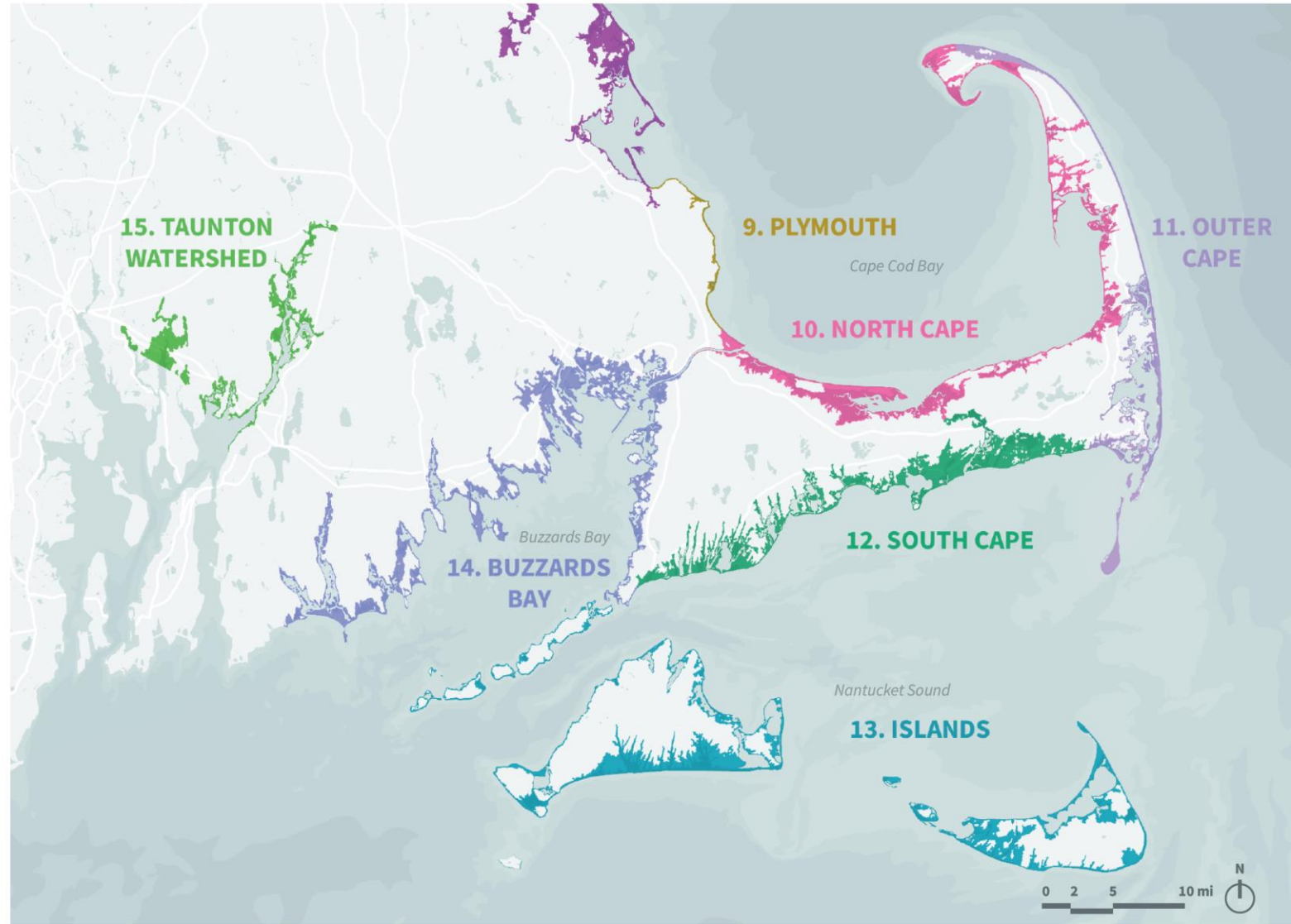
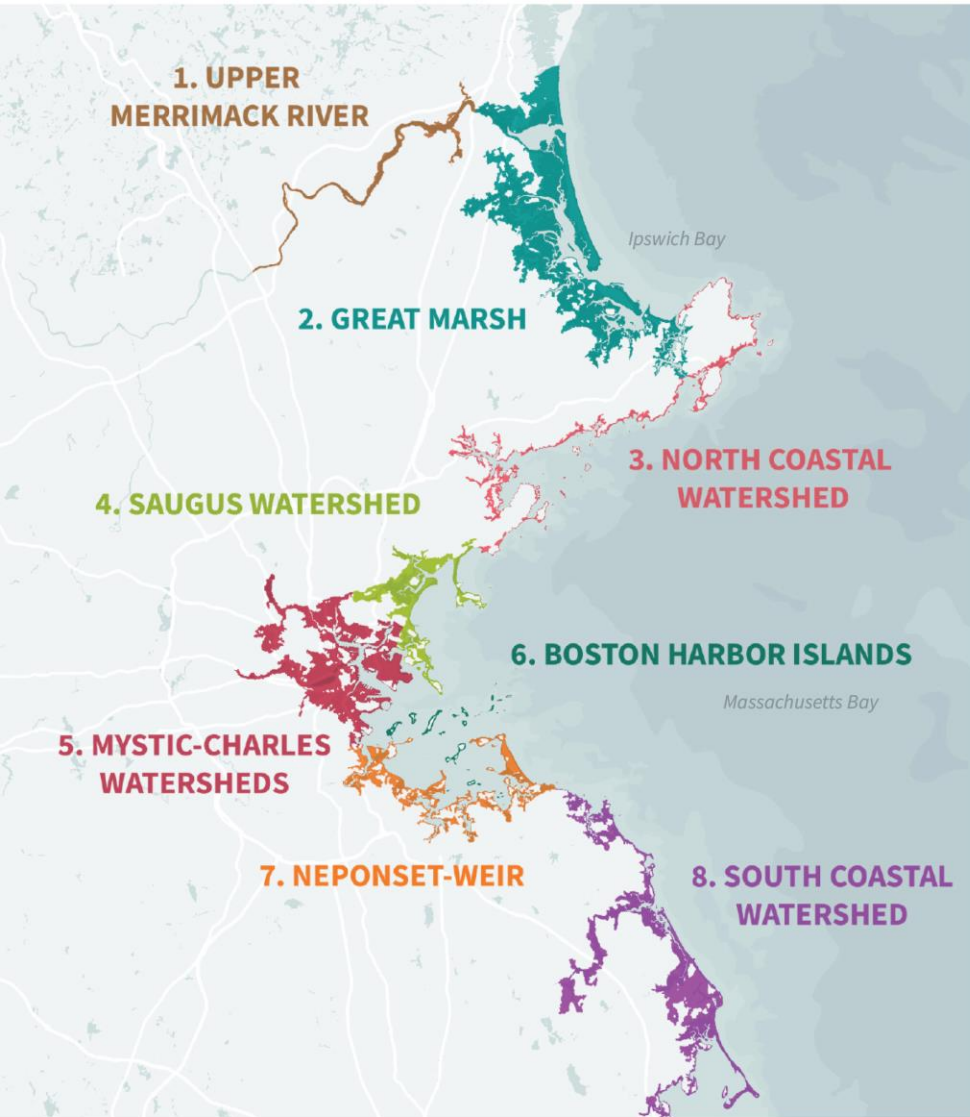


## ... AND CURRENT/FUTURE COASTAL FLOOD RISK



DRAFT FOR DISCUSSION PURPOSES ONLY

# COASTAL RESILIENCE DISTRICTS



DRAFT FOR DISCUSSION PURPOSES ONLY



# Great Marsh

## MAJOR CHARACTERISTICS:

### COASTAL RESOURCES

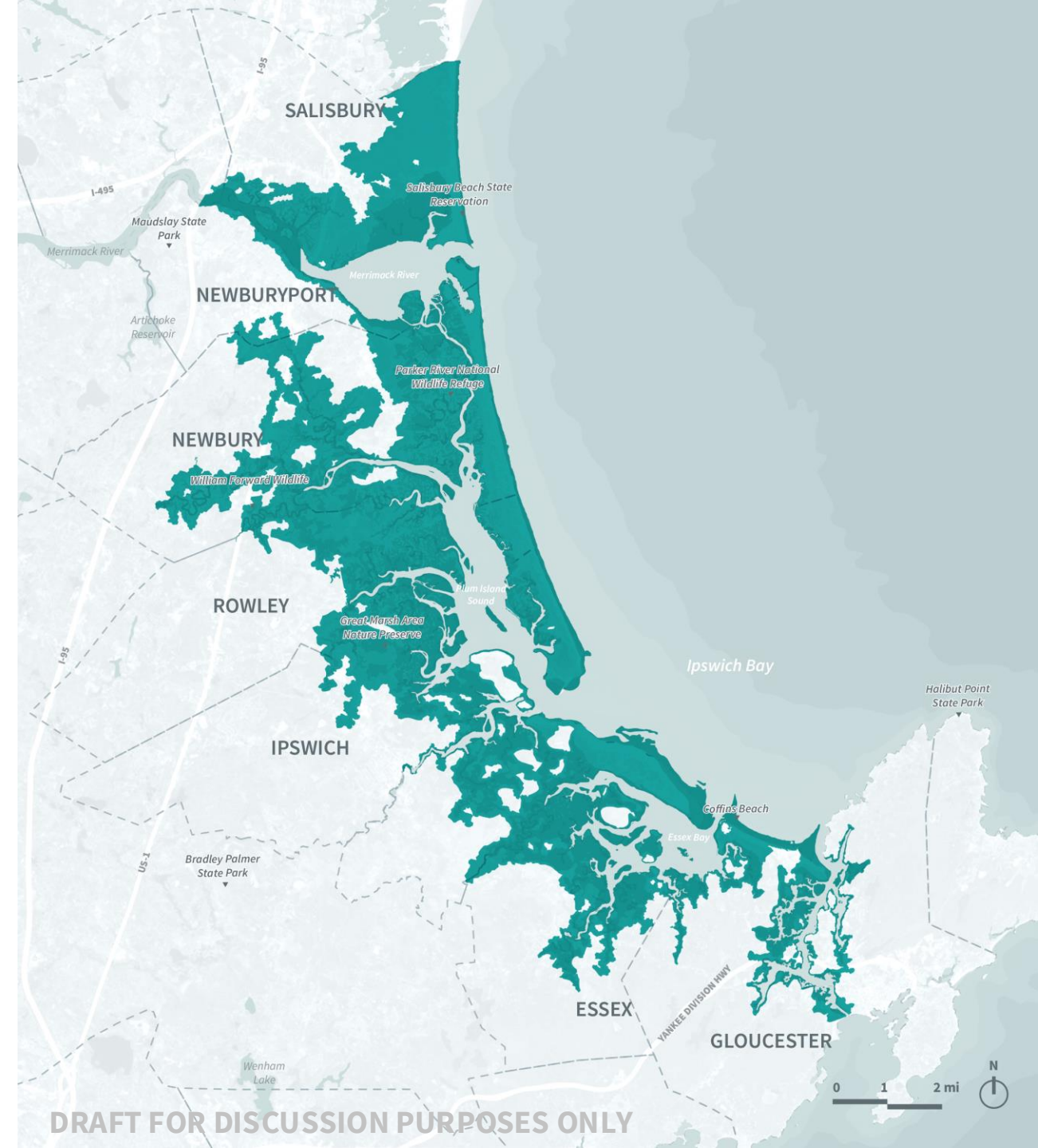
- Barrier beach
- Salt marsh

### PEOPLE AND DEVELOPMENT

- Largely low population and development density
- Clusters of greater density (Salisbury, Newburyport)
- Largely unarmored shorelines

### FLOODING AND EROSION

- High wave energy along ocean-facing shores
- Beach and dune erosion
- Flooding along backshores, marsh edges
- Long-term loss of high marsh habitat due to sea level rise



# Buzzards Bay

## MAJOR CHARACTERISTICS:

### COASTAL RESOURCES

- Barrier beach
- Salt marsh
- Coastal floodplain

### PEOPLE AND DEVELOPMENT

- Low population and development density
- Environmental Justice populations
- Clusters of greater density (e.g., New Bedford, Wareham)
- Mix of armored and unarmored shorelines
- Agriculture (including cranberry bogs)

### FLOODING AND EROSION

- Very low tidal range and extensive coastal floodplain across low-lying areas
- Fringe flooding along backshores, marsh, and other wetland edges
- Beach erosion due to sediment source starvation, sea level rise and coastal storms
- Medium-term loss of fringe marsh due to sea level rise
- Uniquely susceptible to hurricanes

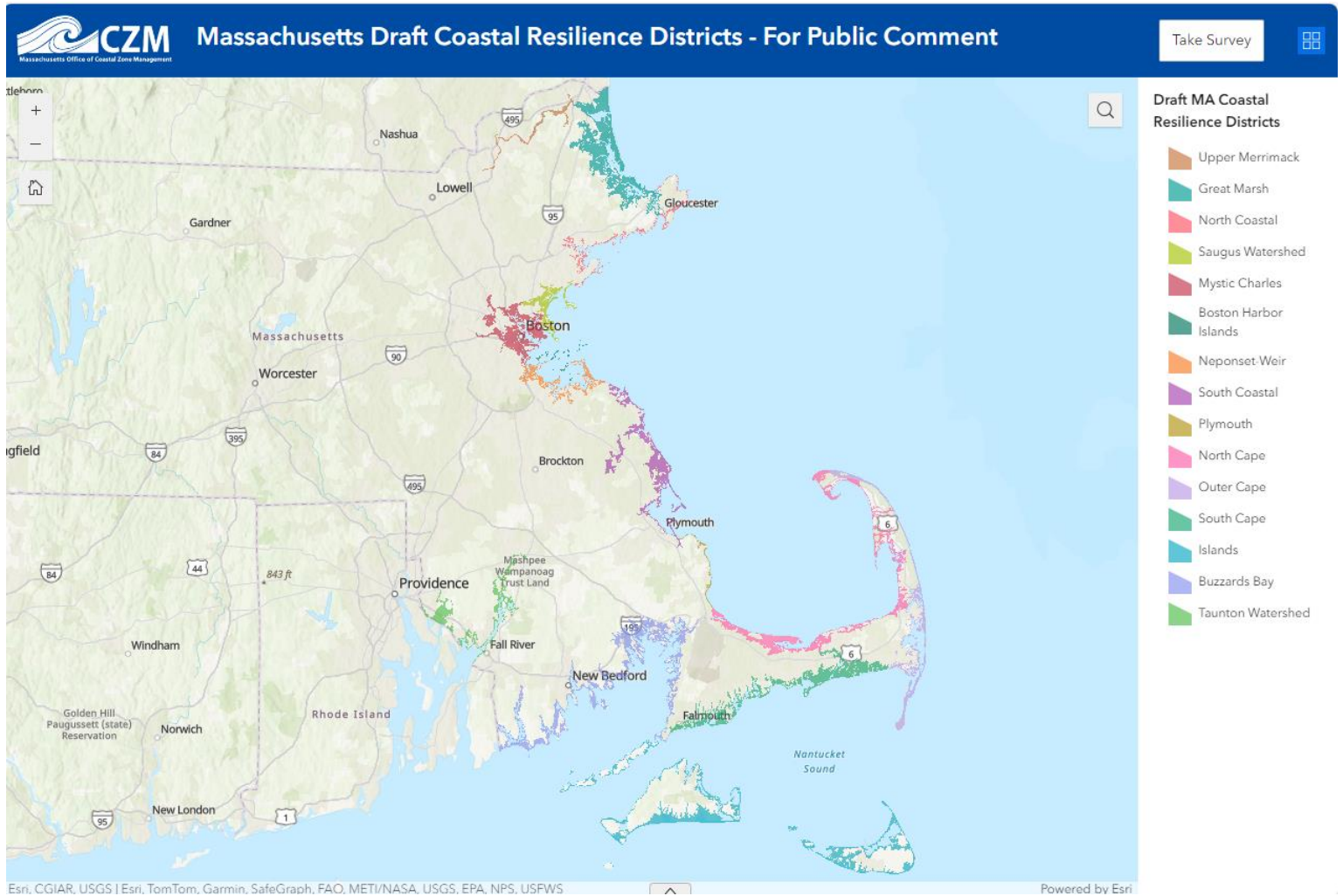




# Clarifying questions?

## POST-MEETING PUBLIC SURVEY FOR FEEDBACK ON DISTRICTS AND OVERALL APPROACH

- We want your feedback on these districts!
- We will be sharing a web viewer with the districts and collecting feedback via a public survey after the meeting.
- There will be a demonstration on how to use the web viewer and survey tool at the end of the meeting.



# **Regional Collaboration**

# Marshfield & Duxbury Beach Nourishment

## MORE EFFICIENT LARGE-SCALE RESTORATION

- Similar vulnerable shoreline along Marshfield & Duxbury due to seawalls, storm surge, wave energy & long-term erosion of the beach
- CZM Coastal Resilience Grant project to reduce damages during coastal storms
- Shared modeling, design, permitting, bid, contractor & mobilization costs
- Phase 1: 85,935 CY of material was placed along 2,690 LF of shoreline (30,778 CY in Marshfield & 55,157 CY in Duxbury)

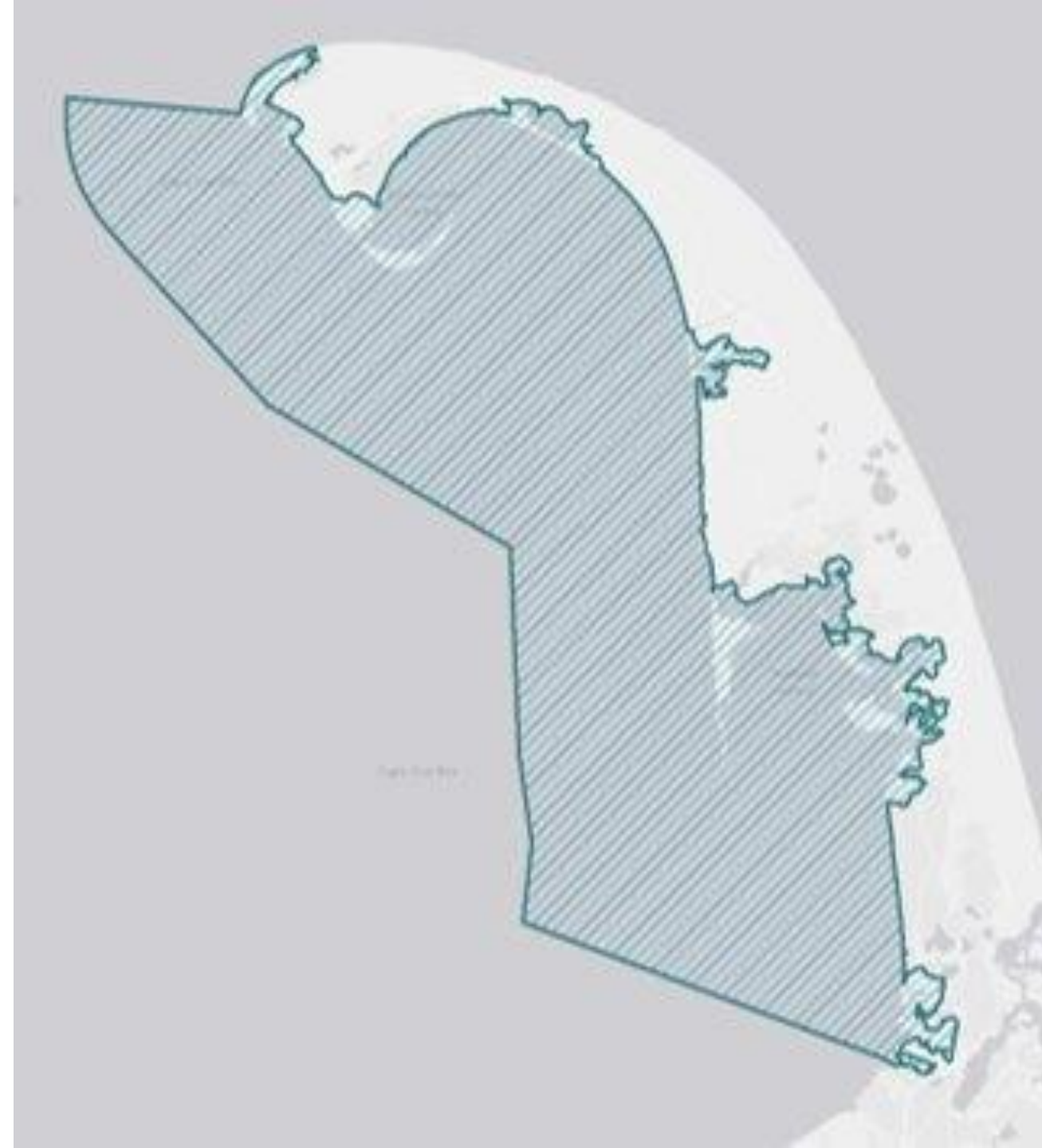




# Outer Cape Intermunicipal Shoreline Management

## COORDINATED APPROACH

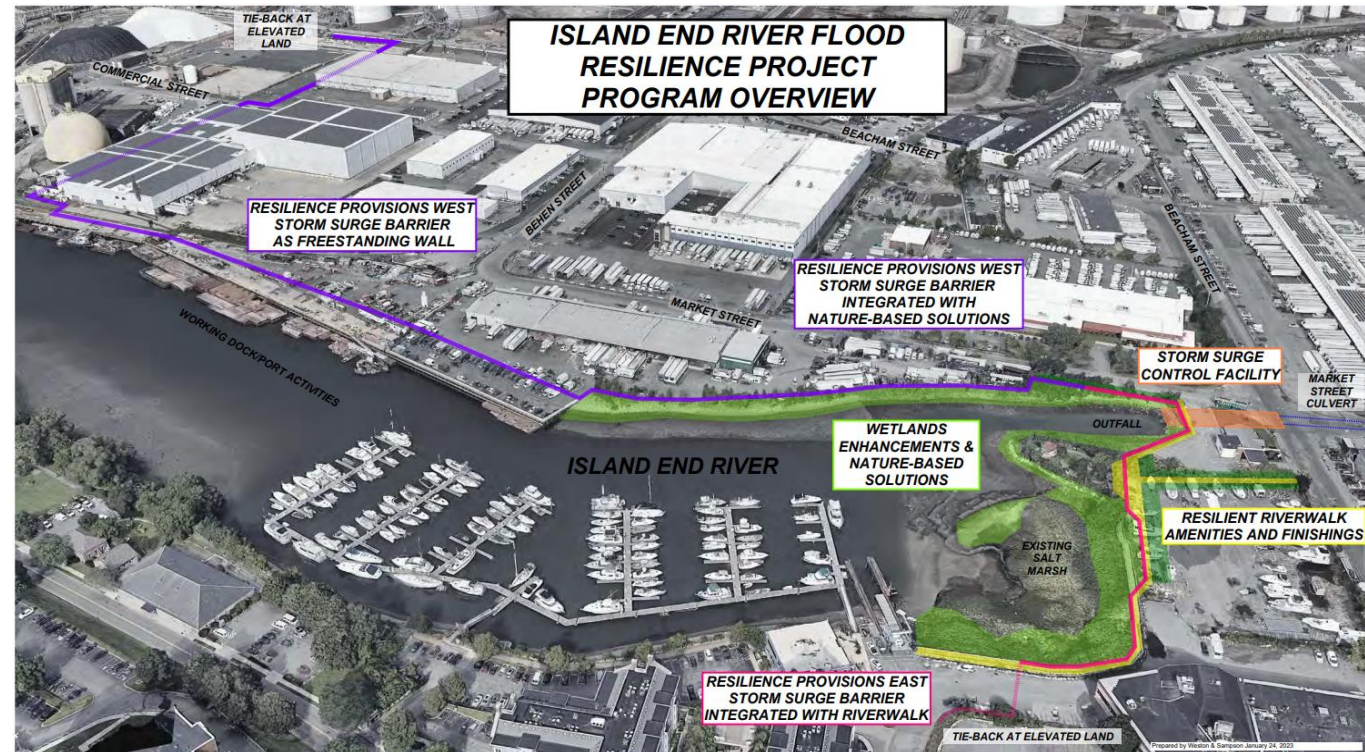
- Common natural resources, fisheries, built environments & tourism shared across Provincetown, Truro, Wellfleet & Eastham
- CZM Coastal Resilience Grant project to develop a uniform approach to management of 46+ miles of shoreline along Cape Cod Bay
- Shared data portal to apply scientific information across town boundaries
- More efficient project review process
- Sediment transport analysis & recommendations for regional approach to sediment management



# Island End River Coastal Flood Resilience Project

## FLOOD PATHWAYS MITIGATION

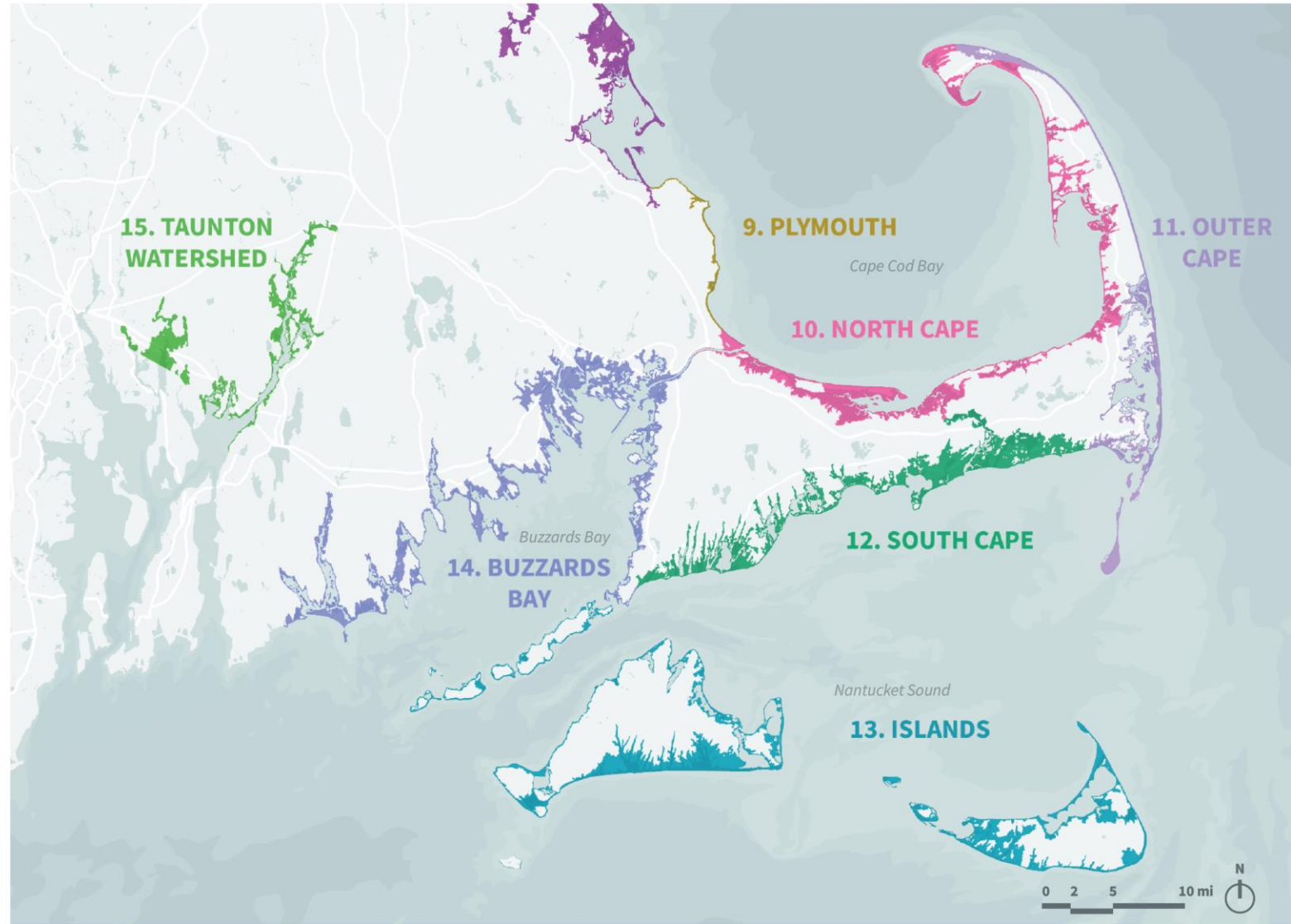
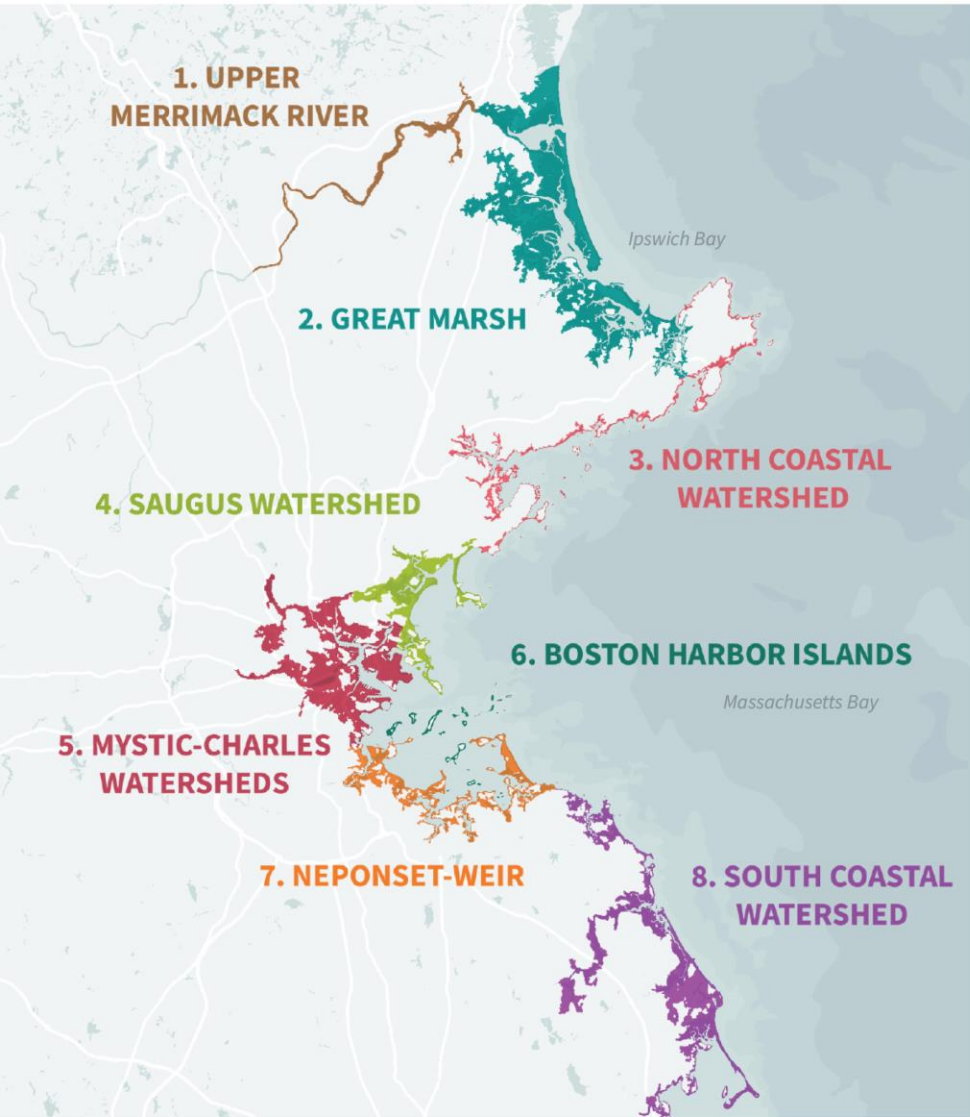
- One of the 9 interventions to mitigate regional coastal flood pathways in Mystic-Charles
- Spans Chelsea and Everett boundaries
- Project will protect Environmental Justice populations and critical facilities and infrastructure including regional food supply
- Incorporates nature-based solutions, wetlands enhancements, and public access
- Planning, design, and permitting supported by federal, State, and local funding
- Applied for \$50 million FEMA BRIC grant for construction and selected for further review



Source: Cities of Chelsea and Everett



# IN THE CONTEXT OF YOUR DISTRICT...



What projects/issues would benefit from district-scale collaboration? How can the State support this collaboration? Please identify your town/city.

All responses to your question will be shown here

Each response can be up to 200 characters long

Turn on voting to let participants vote for their favorites



# **2030 Community Risk Hot Spots**

# PURPOSE OF COMMUNITY RISK HOT SPOTS

- Identify within each Coastal Resilience District where there is a confluence of people, housing, infrastructure, and economic resources **exposed to 2030 coastal hazard risk**
- Help inform **district-level prioritization** for federal, state, local, and private resources and intervention

# FACTORS CONSIDERED FOR COMMUNITY RISK HOT SPOTS



**PEOPLE & HOUSING**



**PUBLIC FACILITIES &  
INFRASTRUCTURE**



**ECONOMY**



# **State Tools for Coastal Resilience**

# STATE TOOLS FOR COASTAL RESILIENCE

BELOW ARE JUST A FEW EXAMPLES OF STATE TOOLS, STAKEHOLDERS MAY HAVE OTHER IDEAS

| TYPES   | EXAMPLES  |
|---|---|
| <b>POLICY &amp; REGULATIONS</b>                           | <ul style="list-style-type: none"><li>• Draft updates to MA Waterways (Ch 91) and Wetlands Protection Act</li><li>• MEPA Protocols for Environmental Justice and Climate Resiliency</li><li>• MassDEP Permitting Guidance for Salt Marsh Restoration Techniques</li><li>• RMA's Climate Resilience Design Standards and Guidance Tool</li></ul> |
| <b>FUNDING, TECHNICAL SUPPORT &amp; CAPACITY BUILDING</b> | <ul style="list-style-type: none"><li>• CZM Coastal Resilience &amp; Municipal Vulnerability Preparedness (MVP) grants</li><li>• Commonwealth Federal Matching and Debt Reduction Fund</li><li>• MA Environmental Justice Council</li><li>• DER Regional Restoration Partnerships Program</li></ul>   |
| <b>PLANNING &amp; COORDINATION</b>                        | <ul style="list-style-type: none"><li>• State, regional, municipal, utility capital improvement plans</li><li>• Peer-to-peer learning</li><li>• Metropolitan Beaches Commission</li></ul>   |

# What is most important for ResilientCoasts to advance to scale-up, accelerate, or increase the effectiveness of coastal resilience implementation?

All responses to your question will be shown here

Each response can be up to 200 characters long

Turn on voting to let participants vote for their favorites



# Next Steps

# WHAT'S COMING NEXT?

## POST-MEETING PUBLIC SURVEY

- Provide feedback via survey on district delineation, district-specific opportunities and/or challenges, ResilientCoasts Plan priorities

## NEXT PUBLIC MEETING

- There will be another opportunity to engage with the ResilientCoasts planning process later this fall/winter. Keep an eye on the ResilientCoasts webpage for updates.

## DRAFT REPORT EXPECTED FOR PUBLIC COMMENT THIS WINTER

The background is a deep blue with intricate, organic, marbled patterns in lighter shades of blue and white, resembling stone or liquid swirls. The text is centered in a bold, yellow, sans-serif font.

**Thank you!**