

City of Oceanside Local Coastal Program Update



# Oceanside Coastal Hazards Adaptation Planning Community Workshop



Tuesday, February 19, 2019



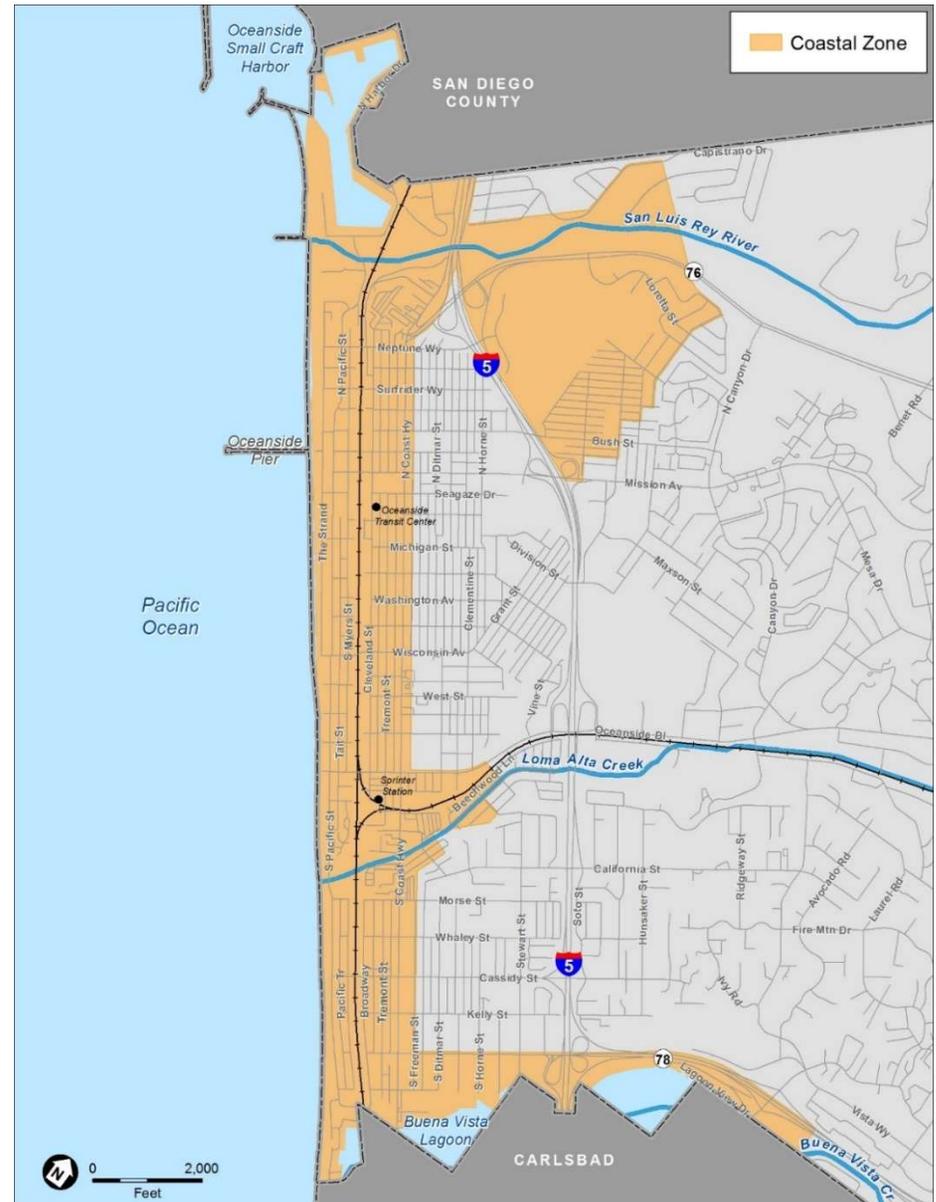
# Introduction

# Welcome to the Local Coastal Program Workshop!

- We are here today to start preparing for sea-level rise. We need your input.
- Workshop Agenda
  - 5:30-6:00 – Brief presentation
  - 6:00-7:00 – Open house
  - 7:00-7:30 – Gather input, and announce door prize winner!

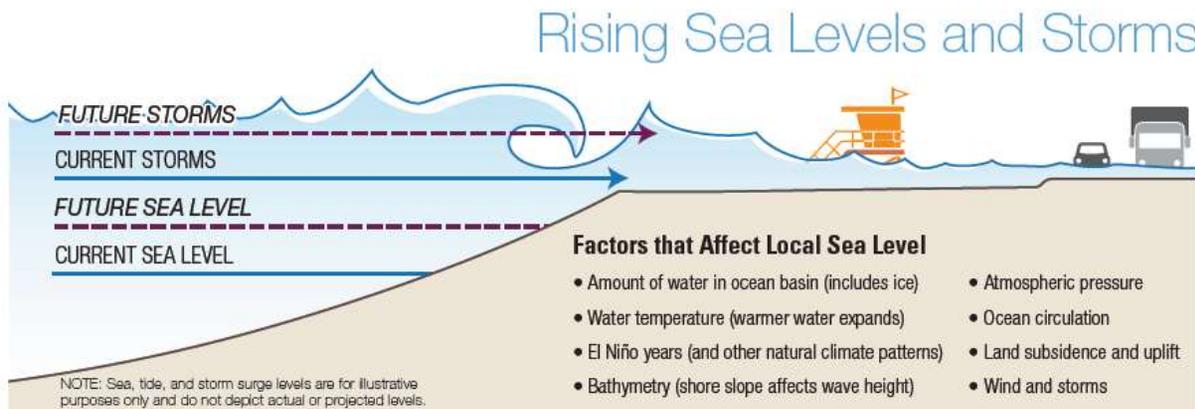
# Background

- Updating the 1986 Local Coastal Program (LCP)
  - Applies to the coastal zone
  - Regulates public and private development
  - Implements the state Coastal Act
- The update involves
  - Technical reports
  - Public participation
  - Updated policies
  - California Coastal Commission certification
  - City Council adoption



# What can we expect from sea-level rise?

- Rising ocean water levels
- More frequent and severe flooding from storms
- Sandy beach loss
- Increased damage to existing armoring



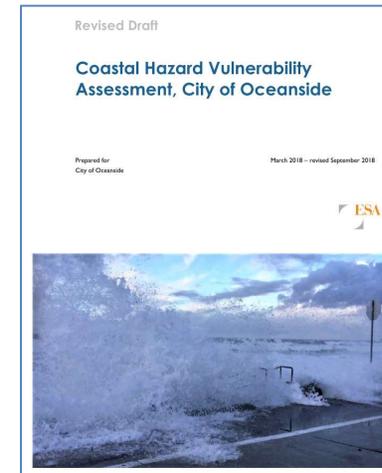
# What's at Risk?

- Small Craft Harbor
- Oceanside beaches
- Beachfront properties and amenities
- Coastal watersheds
- Check out the Coastal Hazard Vulnerability Assessment located on the project webpage

**Table 2-3. Oceanside Sea-Level Rise Scenarios**

Scenario	Date Range	Potential Amount of Sea-Level Rise	
		(ft)	(m)
Existing conditions	Now	0	0
Short-term	2025 – 2045	0.8	0.25
Mid-term	2040 – 2070	1.6	0.5
Long-term	2070 – 2100	3.3	1
Longer-term	2100 – 2140	5.7	1.75

SOURCE: NRC 2012, Erikson et al. 2017





Surfers Point, Ventura

# Adaptation Planning

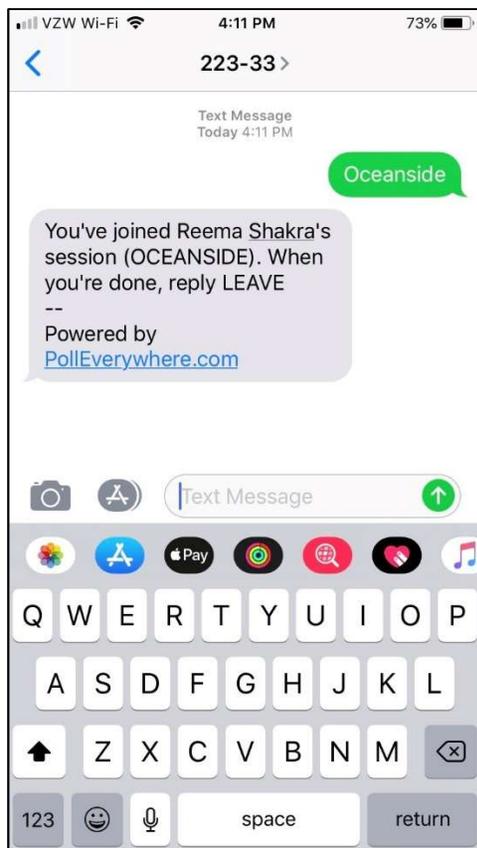
## What do we do to stay ahead of sea-level rise?

- Set some priorities by crafting guiding principles
- Write a plan that identifies strategies to minimize our risk and start planning to implement those strategies

# Audience Participation

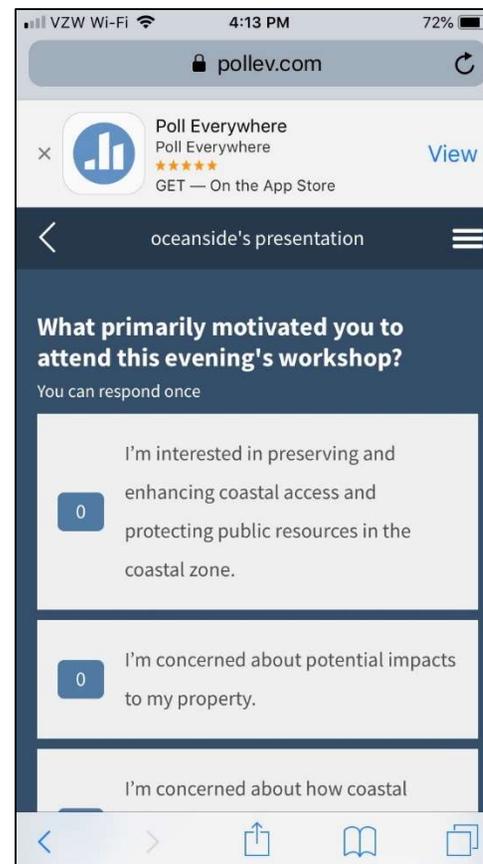
## 1. Text message:

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## 2. Website:

- Go to [PollEv.com/Oceanside](https://pollev.com/Oceanside)



## What primarily motivated you to attend this evening's workshop?

- a. I'm interested in preserving and enhancing coastal access and protecting public resources in the coastal zone.
- b. I'm concerned about potential impacts to my property.
- c. I'm concerned about how coastal hazards will impact the local economy and the City's fiscal health.
- d. I heard there would be free cookies and a door prize.

## What stake do you have in the City's coastal zone?

- a. I live and/or own property in (or near) the coastal zone.
- b. I own a business in (or near) the coastal zone.
- c. I frequently visit the coastal zone and make use of coastal amenities.
- d. I occasionally visit the coastal zone and make use of coastal amenities.
- e. I'm interested/involved in the regional dialogue on sea level rise and coastal hazard adaptation.

## Have you seen/experienced changes on the beachfront and/or within coastal watersheds?

- a. No. These areas appear the same to me as they did when I first saw them.
- b. Yes, I've seen minor changes in these areas.
- c. Yes, I've seen major changes in these areas.
- d. I don't know. I haven't been here long enough.

# Sea-Level Rise: First Impressions

What's the first word that comes to mind when you see the words **sea-level rise**?

## Sea-Level Rise: What Will You Do?

When I think about how sea-level rise will affect my community, I feel like...

- a. ...packing my bags and heading for the hills!
- b. ...becoming more informed about adaptation options for my community – time to start burning the midnight oil!
- c. ...staying put and turning my house into a boat if I have to – drop the anchor!

# Funding Adaptation

Who should pay for adaptation of at-risk public resources?

- a. It's the responsibility of the public agencies that own and maintain these resources.
- b. Costs should be shared by the responsible agencies and those who directly benefit from these resources.
- c. The state and/or federal government should step in to help; there are not enough local resources to address this issue.

# Introduction to Adaptation Planning Process and Strategies



# The Adaptation Planning Process



**Diagnosis:** the Vulnerability Assessment

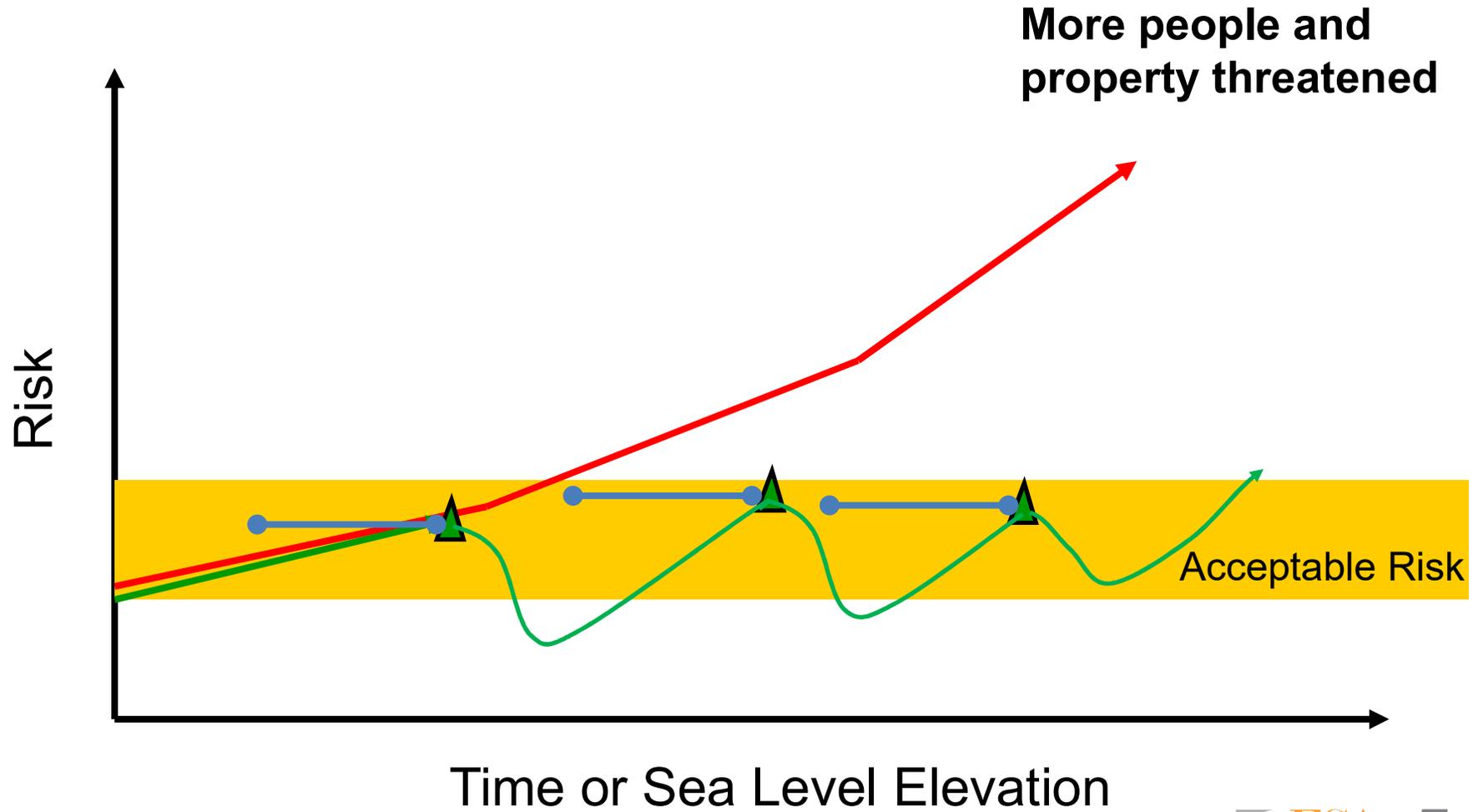


**Tool Kit and Instruction Manual:** the Adaptation Plan



**Implementation:** the LCP policies

# Adaptation Planning



# The Adaptation Planning Framework

- **Guidance and Regulation**
- **Project-Level Planning**
  - Siting and building design
  - Permit process
  - Mitigation
- **Monitoring**
  - Sea level
  - Frequency/intensity of flooding
  - Beach width
  - Property damage
  - Costs
- **Reevaluation**
  - Changing conditions
  - New science
  - New funding

# Adaptation Plan (Contents)

- Guiding principles
- Adaptation planning framework
- Triggers or thresholds for adaptation
- Monitoring for triggers
- Adaptation strategies toolbox

## Adaptation Plan (what's not included)

- Detailed analyses of each adaptation option
  - In-depth modeling of sand transport and environmental impacts
  - In-depth legal analysis of options
  - Detailed analysis of the vulnerability of critical facilities
- Decisions on which adaptation options to implement
  - Coastal Commission policies and protocols
  - Amended zoning standards
  - CIP budgeting

# Adaptation Toolbox

Having an adaptation toolbox will allow Oceanside to start planning now for both near-term strategies and those that will take a long time and many resources to implement.

The Adaptation Plan looks at ALL reasonable strategies to provide the City flexibility, both now and in the future.

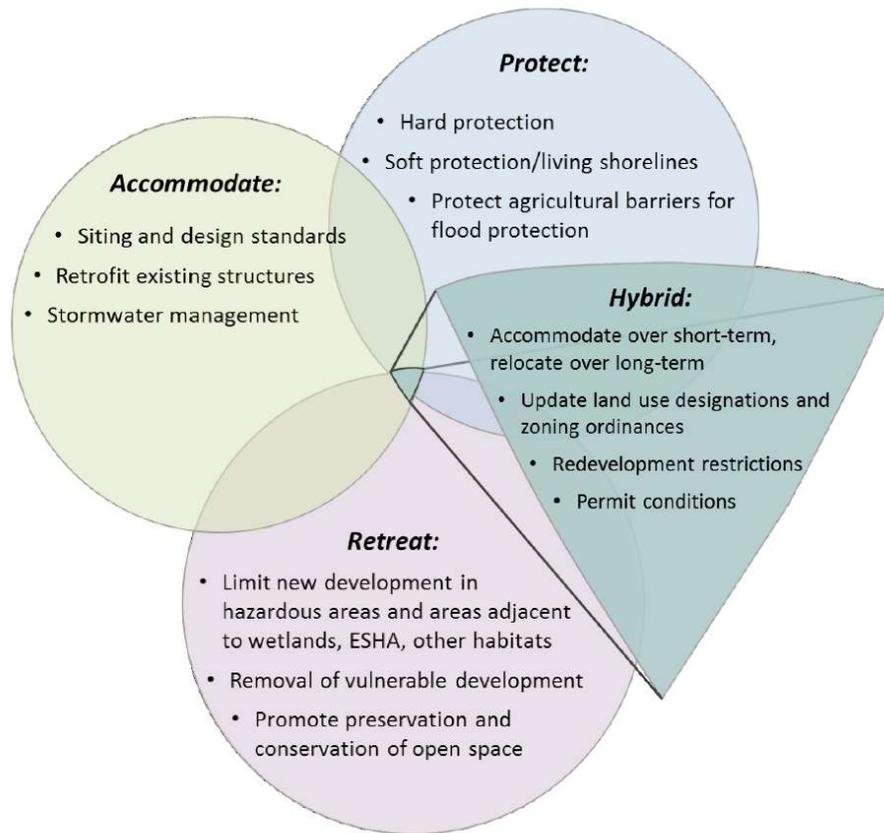


# Adaptation Strategies

- **Protection** of development in place through measures such as seawalls, groins, tide gates, and beach nourishment
- **Accommodation** of development in place through measures such as elevation or modifications of structures
- **Retreat** through measures such as relocation of structures and development limitations.



# Adaptation Strategies



CCC SLR Guidance



# Oceanside Adaptation Strategies

- Focus on 3 major hazard areas identified in the VA
  - Beach areas and coastal flooding
  - Riverine flooding
  - Harbor flooding
- Consider full range of potential adaptation strategies for each area
  - Protect
  - Accommodate
  - Retreat



# Adaptation Planning Activity

# Adaptation Planning Activity

- From 6-7pm visit the following stations to learn more:

Coastal sediment management

Sand retention structures

Shoreline protection devices

Raise/reinforce the pier

**Beachfront**

Elevate structures and/or property grade

Managed retreat

Levees with wetland restoration

**Beachfront, coastal  
watersheds, small craft  
harbor**

River and creek channel management

Raise the breakwater

**Coastal watersheds**

Raise the marina facilities

Abandon the Harbor

**Small craft harbor**

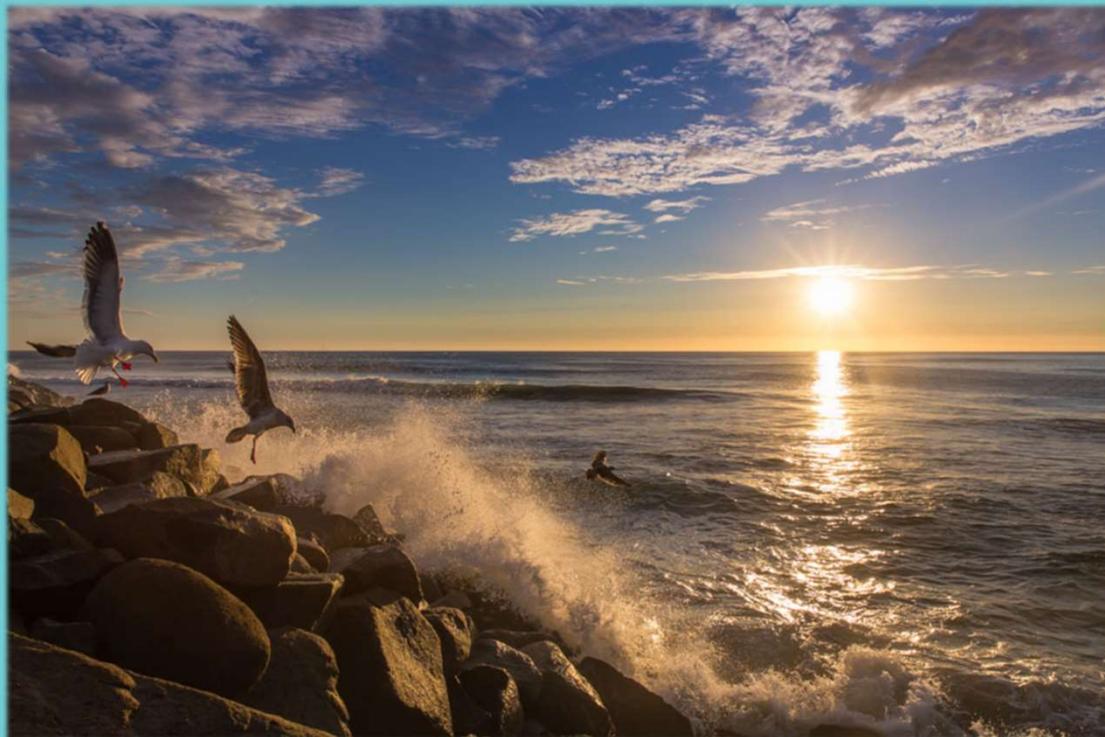
Priority features and considerations

California Coastal Commission guidance

**Guiding principles**

## Workshop Schedule

- 6-7pm – Open house
- 7pm – Reconvene to collect your input
- 7:30pm – Announce door prize winner!



What do you think about adaptation?

# Audience Participation

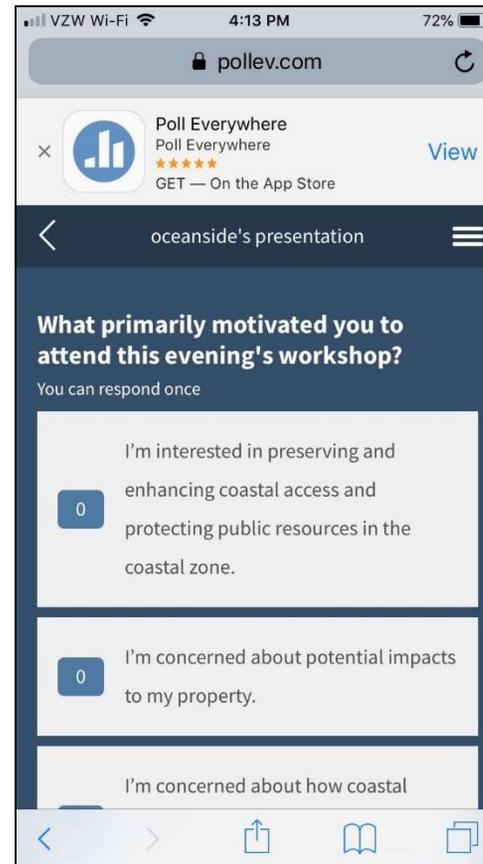
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## Hard Armoring

I think sea-walls, revetments, bulkheads, and other hard structures that protect property from storms are...

- a. ...the best, most cost-effective form of protection.
- b. ...only appropriate as a last resort, since they contribute to beach erosion.
- c. ...not acceptable and shouldn't be allowed; people shouldn't live in hazardous areas.
- d. I'm not sure; I need more information.

# Beach Nourishment

I think adding sand to the beach...

- a. ...is a practice Oceanside should continue, regardless of the cost to the City.
- b. ...only makes sense when there is federal, state, and/or regional funding available to pay for it.
- c. ...only postpones the inevitable – the loss of beach to sea-level rise and the inundation of coastal development.
- d. I'm not sure; I need more information.

# Accommodation

I think raising homes, roads, etc. to reduce flood risk is...

- a. ...generally unacceptable, as it would likely to have adverse impacts on the community (e.g., fiscal impacts, visual impacts, access problems).
- b. ...reasonable, as long as current height standards are not exceeded.
- c. ...reasonable, even if it means exceeding current height limits.
- d. I'm not sure; I need more information.

## Watershed Alteration

I think dredging the City's coastal watersheds to reduce flood risks is...

- a. ...an immediate and efficient option that should be explored.
- b. ...perhaps a last resort, but not the best way to reduce flood risk; other strategies like wetland restoration are preferable.
- c. ...far too impactful on natural habitat and watershed ecosystems to be considered an option.
- d. I'm not sure; I need more information

## Harbor Adaptation

How would you like to see Oceanside Harbor adapt to sea-level rise?

- a. Do everything necessary to protect the Harbor, even if it means raising and rebuilding roadways, marine facilities, commercial buildings, etc.
- b. Pursue low-cost measures that maintain basic functions, but don't allow it to become a financial liability to the City.
- c. Consider alternative uses that are more resilient to sea-level rise.
- d. Let it go; the City has more important priorities, and removal of the breakwater would help to restore the City beaches.
- e. I'm not sure; I need more information.

## Priorities

Sea-level rise will increase the frequency and severity of flood events and beach erosion already occurring in Oceanside. Which of the following is the most pressing issue now facing the City?

- a. Flooding along Loma Alta Creek
- b. Flooding adjacent to Buena Vista Lagoon
- c. Storm and king tide impacts to beachfront homes
- d. Flooding-induced street closures
- e. Loss of the sandy beach
- f. I'm not sure; I need more information.

## Key Considerations

What is the most important consideration in choosing an adaptation strategy?

- a. Protecting public safety, particularly as it relates to coastal access
- b. Promoting economic development
- c. Preserving and enhancing sandy beaches, even if it means managed retreat of both public and private development
- d. Ensuring that adaptation doesn't overly burden fixed-income/low-income households
- e. Allowing homeowners to protect and/or restore their property
- f. Minimizing costs/liability to the City and local taxpayers
- g. Protecting and enhancing visual resources
- h. Maintaining flexibility in the face of changing conditions
- i. I'm not sure; I need more information.

## Key Considerations

Are there **other** considerations not already listed below that the City should use in choosing adaptation strategies?

- a. Protecting public safety, particularly as it relates to coastal access
- b. Promoting economic development
- c. Preserving and enhancing sandy beaches, even if it means managed retreat of both public and private development
- d. Ensuring that adaptation doesn't overly burden fixed-income/low-income households
- e. Allowing homeowners to protect and/or restore their property
- f. Minimizing costs/liability to the City and local taxpayers
- g. Protecting and enhancing visual resources
- h. Maintaining flexibility in the face of changing conditions
- i. I'm not sure; I need more information.

## Coastal Assets

The following are coastal assets the City could choose to protect and enhance. Which one is the **most important** to you?

- a. Beach and ocean
- b. Public amenities (such as the pier, harbor, parks, restrooms)
- c. Scenic resources
- d. Natural habitat (such as coastal watersheds)
- e. Commercial goods and services (restaurants, boutique retail, etc.)
- f. Arts and entertainment venues
- g. Community events
- h. Public parking
- i. Private property

## Coastal Assets

The following are coastal assets the City could choose to protect and enhance. Which one is the **least important** to you?

- a. Beach and ocean
- b. Public amenities (such as the pier, harbor, parks, restrooms)
- c. Scenic resources
- d. Natural habitat (such as coastal watersheds)
- e. Commercial goods and services (restaurants, boutique retail, etc.)
- f. Arts and entertainment
- g. Community events
- h. Public parking
- i. Private property

## Coastal Assets

Are there **other** coastal assets not already listed below that the City should protect and enhance?

- a. Beach and ocean
- b. Public amenities (such as the pier, harbor, restrooms)
- c. Scenic resources
- d. Natural habitat (such as coastal watersheds)
- e. Commercial goods and services (restaurants, boutique retail, etc.)
- f. Arts and entertainment
- g. Community events
- h. Public parking
- i. Private property

# Demographics

## Gender?

- a. Female
- b. Male
- c. Other

# Demographics

## Age?

- a. Under 18
- b. 19-24
- c. 25-44
- d. 45-64
- e. 65-74
- f. 75+

# Demographics

## Race/ethnicity?

- a. American Indian
- b. Black/African American
- c. Asian/Pacific Islander
- d. Hispanic
- e. White
- f. Other

# Demographics

What is your annual household income?

- a. \$0-\$44,999
- b. \$45,000-\$74,999
- c. \$75,000-\$99,999
- d. \$100,000-\$149,999
- e. \$150,000+

## More Opportunities for Public Input

- Call or email Russ Cunningham, Principal Planner
  - 760-435-3525
  - [rcunningham@ci.oceanside.ca.us](mailto:rcunningham@ci.oceanside.ca.us)
- Participate in forthcoming online survey (available on project webpage by March 1st)
- Review Draft Adaptation Plan (May-June 2019)
- Attend third community workshop (June 2019)
- Assist us in getting word out to other stakeholders!



# Conclusion

## Next Steps

- Ongoing dialogue with Coastal Commission staff
- Preparation of Draft Adaptation Plan
- Audit and update of existing LCP policies
- Community workshop (Fall 2019) on updated LCP policies
- Adoption hearings (Winter 2019)
- Coastal Commission review/certification (2020)