

Introducing the Team

DUDEK



KEARNS

WE

Hosted by the Department of City Planning and grant funded in part by the California Coastal Commission





Workshop Purpose

Review Local Coastal Program (LCP) Update Process & recap Vulnerability Assessment results for Venice

Present adaptation strategies

Facilitate community input and discussion on adaptation strategies

Today's Workshop Format

1. PRESENTATION

- Review Local Coastal Program process
- Recap Venice Vulnerability Assessment results
- Present draft adaptation strategies

2. WORKSHOP STATIONS

- Venice Local Coastal Plan Update
- Sea Level Rise Mapping
- Increase Resiliency
- Permit & Development Standards
- Community-Scale Adaptation
- Building Knowledge

3. WRAP UP

- Share information for next steps and how to stay involved
- Door prize drawing

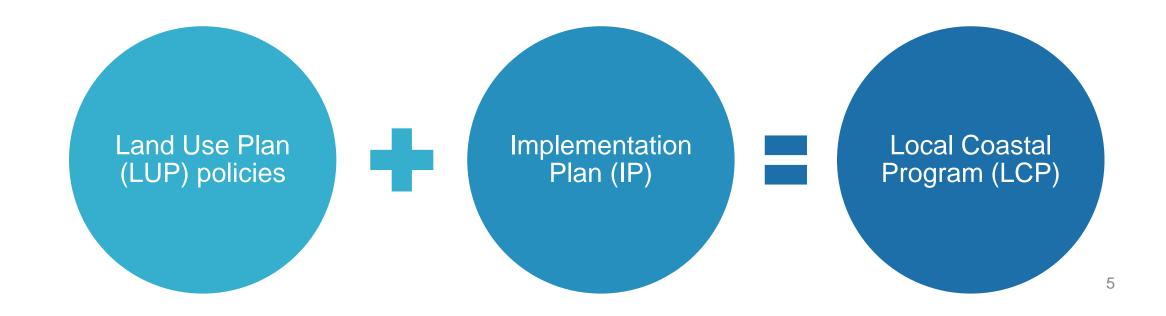


California Coastal Act and LCP Background

- California Coastal Act of 1976 requires local governments to have a Local Coastal Program (LCP)
- LCPs regulate and guide development in the coastal zone



Source: Visitcalifornia.com



Venice LCP Background



^{*}Department of City Planning is currently updating the Venice LUP

Venice LCP Update - Sea Level Rise Planning

Overall Project Goal:

Incorporate sea level rise into the Venice Local Coastal Program



ASSESSMENT

SEA LEVEL RISE PLANNING PROCESS

- 1. Develop range of **sea level rise projections** relevant in LCP planning area
- 2. Identify anticipated sea level rise impacts

- 3. Assess **risks** to coastal resources and development
- 4. Identify adaptation strategies to translate into LCP policies
- 5. Draft **updated** and **new** LUP policies and IP measures for LA City Council approval and CCC certification
- 6. Implement LCP and monitor and revise as needed



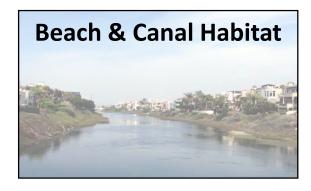
Sea Level Rise Planning Workshop: November 2017

Workshop Themes













https://www.venicelcp.org/workshop-series-nov-4-2017.html



Sea Level Rise Planning Workshop: March 2018

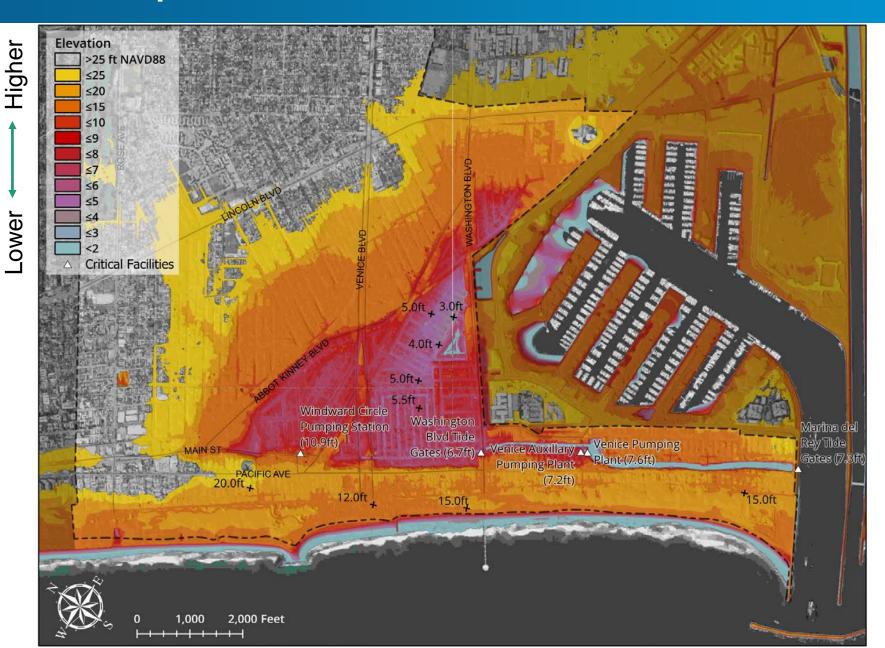






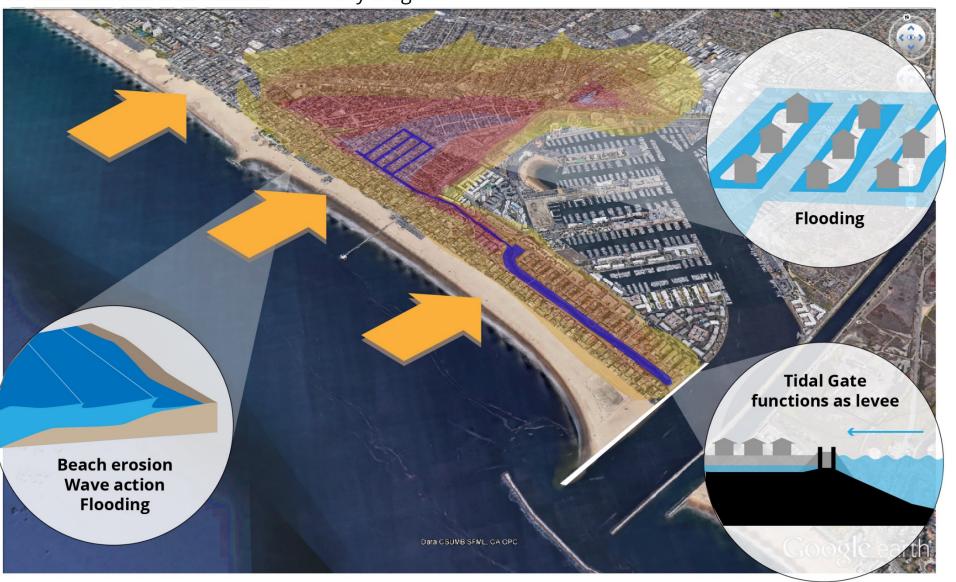
https://www.venicelcp.org/workshop-march-2018.html

Elevation Map



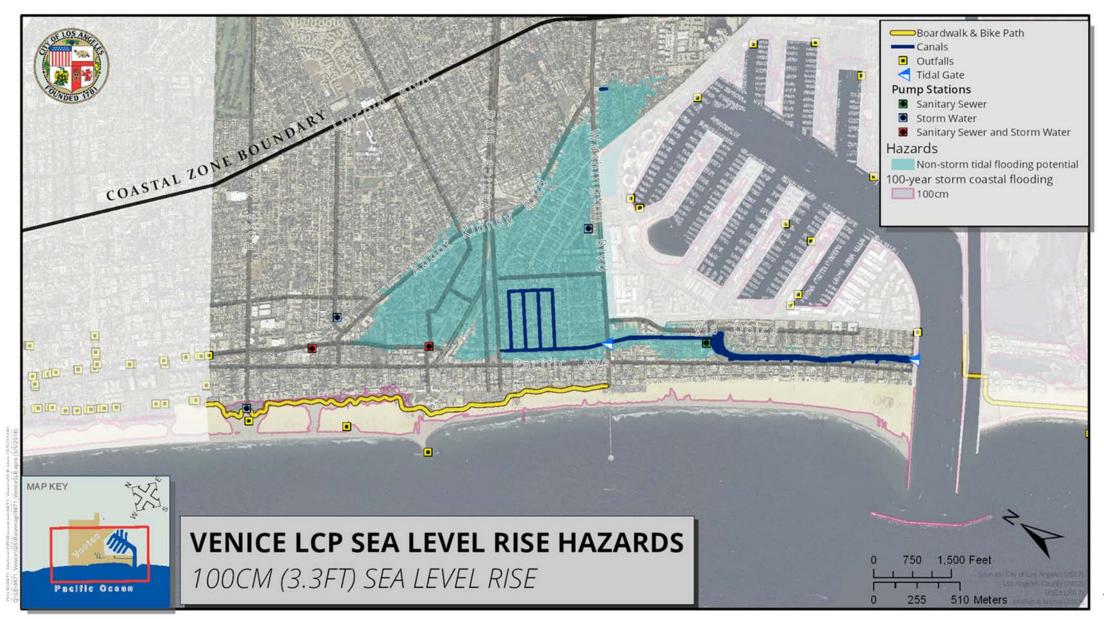
Coastal Hazards Overview

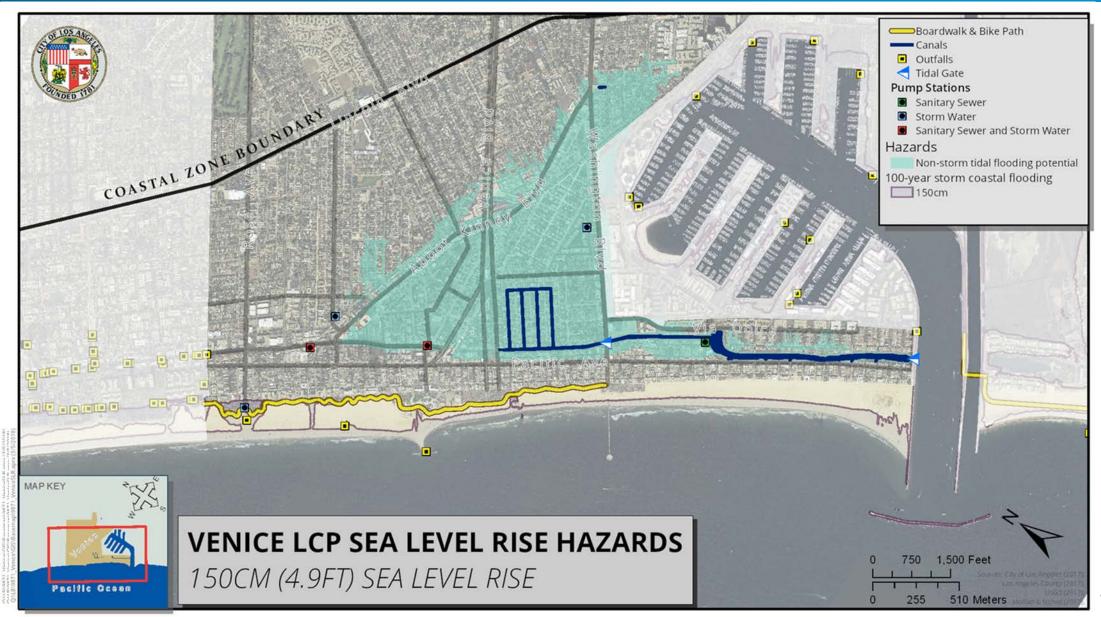
Venice Sea Level Rise Hazards Summary Diagram

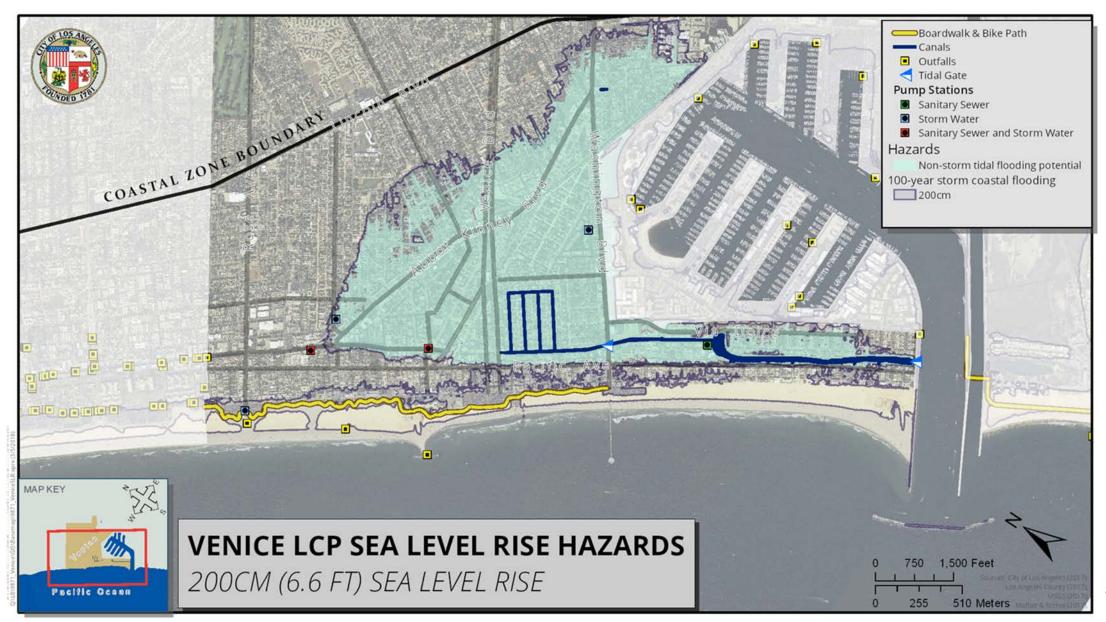












Vulnerability Assessment Risk Matrix

Risk = Consequence + Urgency

Consequence	Urgency	
	Short-term SLR Threshold SLR < 3.3 ft.	Long-term SLR Threshold SLR ≥ 3.3 ft.
HIGH Permanently damaged Large Impact on system Large loss of value or life	HIGH RISK	MED-HIGH RISK
MEDIUM Temporarily damaged Moderate impact on system Medium loss of value	MED-HIGH RISK	MED-LOW RISK
LOW Temporarily damaged Low impact to system Small loss of value	MED-LOW RISK	LOW RISK

Venice: Six Asset Groups













Venice Infrastructure Risk











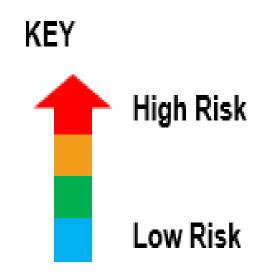
Venice Property Risk











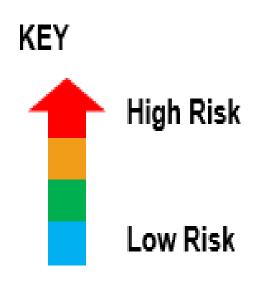
Venice Civic Risk







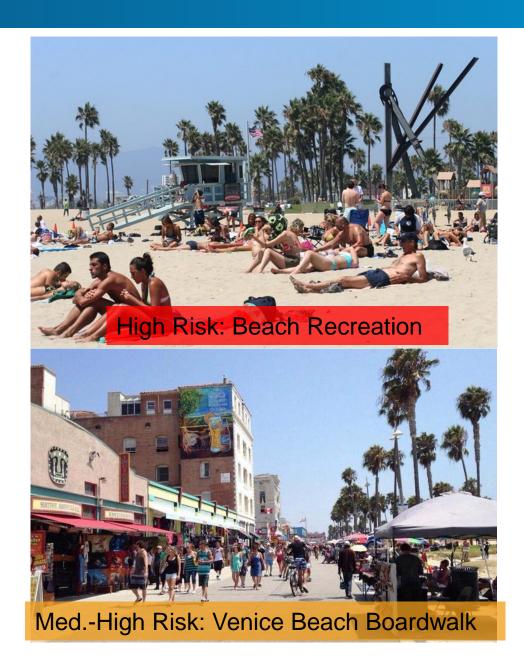


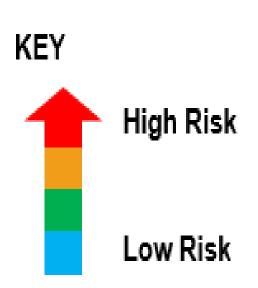


Venice Coastal Amenities Risk









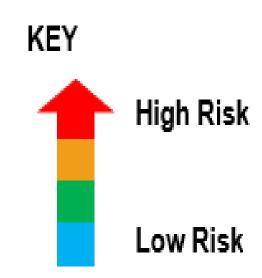
Venice Ecological Risk



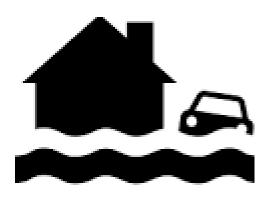








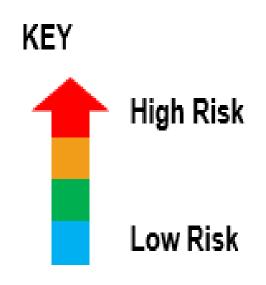
Venice Cultural Risk



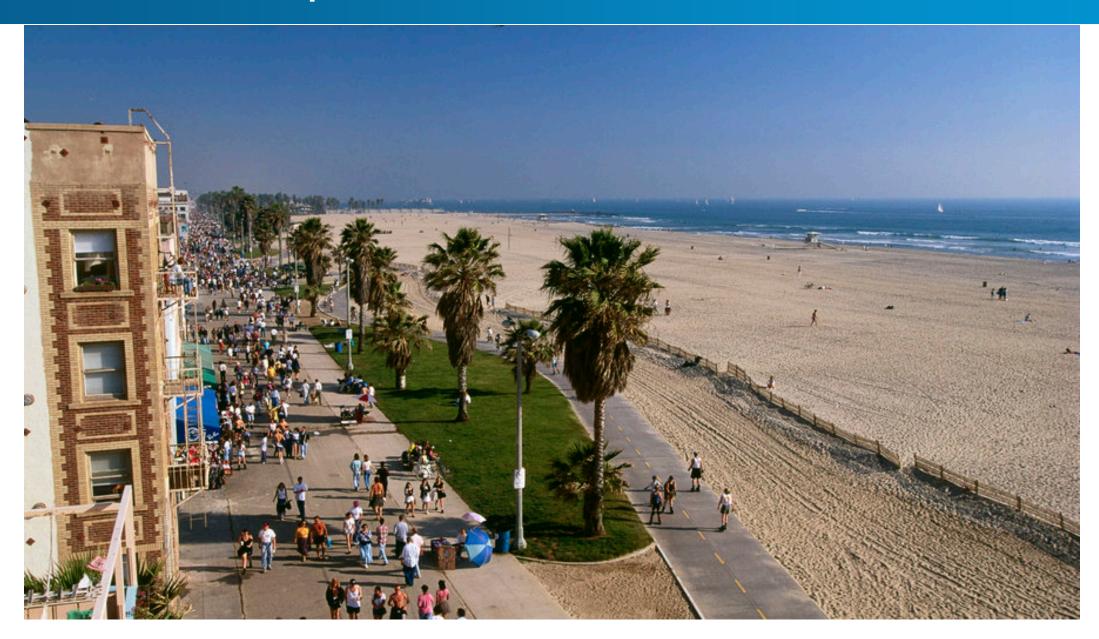








Audience Participation



Audience Participation: Polling

TEXT:

To: <u>22333</u>

Message:

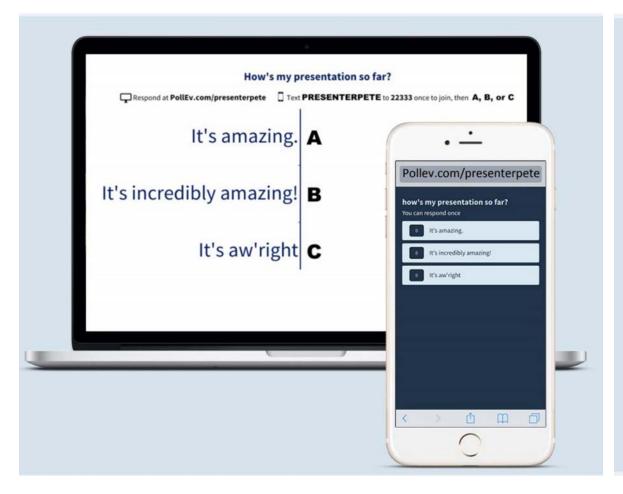
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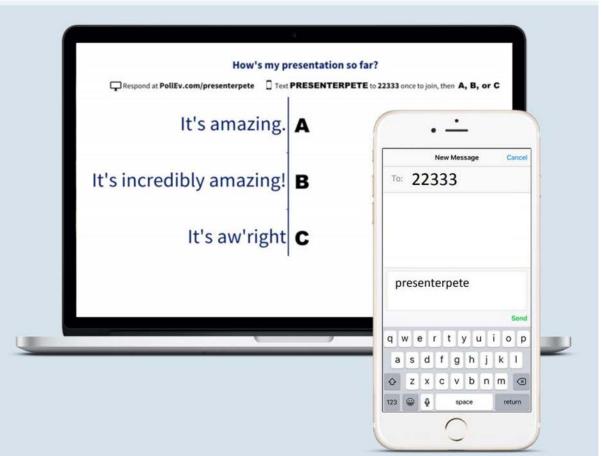
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WEB:

PollEv.com/hagusolomonc860

Audience Participation: Polling





Web interface Text interface

How did you get to the meeting today?



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

Packing my bags and heading for the hills, I didn't move to Venice to become a A merperson!

Becoming more informed about the best adaptation strategies for my community, B time to start burning the midnight oil!

I'm staying put and will turn my house into a boat if I have to, drop the anchor!

Who should pay for sea level rise adaptation?

If I'm in the hazard zone, I'm paying. If not, I'm not!

Create a Venice Coastal Zone Tax District, we're all B in it together!

It's the City's job, we didn't create the problem!

How would you like to see Venice Beach evolve with sea level rise?

Coastal armoring: Just build seawalls, bulkheads, and jetties. I don't mind some beach loss or accelerating erosion downshore if it means protecting my neighborhood.

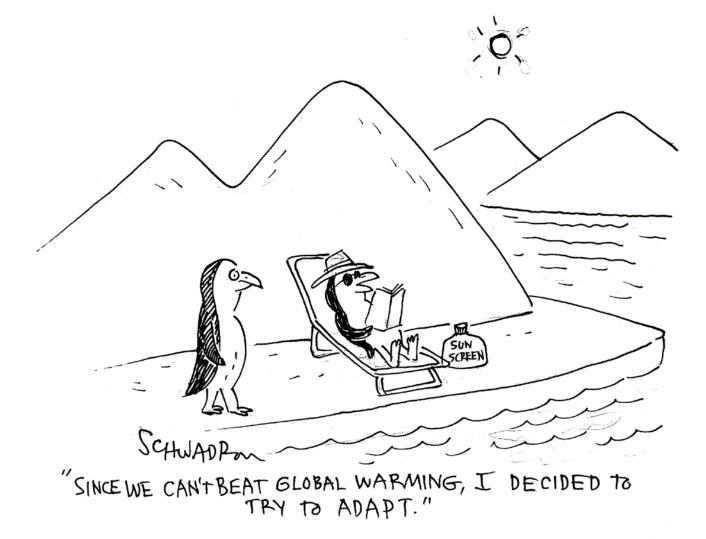
Living shoreline: Bring back the dunes and vegetation. Nature protects best.

Re-nourishment: Pile on the sand. Keep things the way they are, even if it costs me a lot of money.

Moving to Adaptation

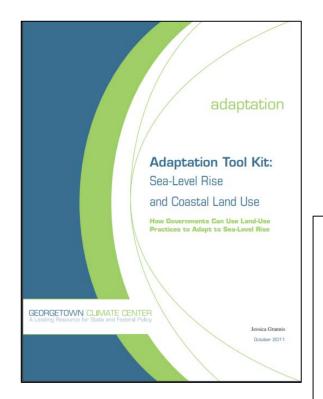
Adaptation Planning:

Avoidance or minimization of risks to coastal development and coastal resources.

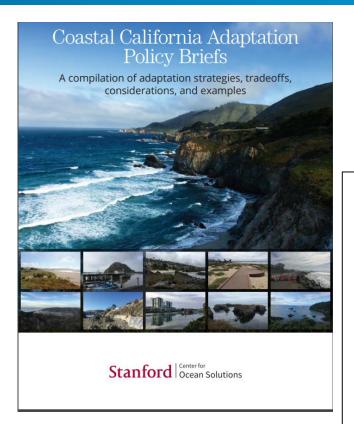


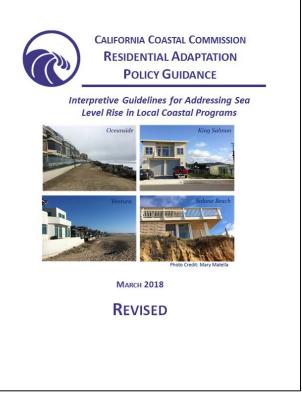
CartoonStock.com

Adaptation Planning Resources

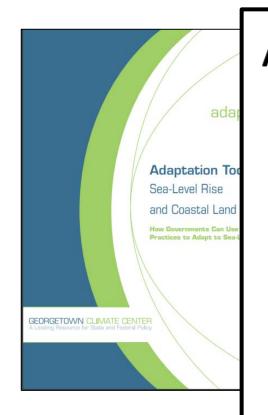








Adaptation Planning Resources



Adaptation Workshop Concepts

Increase Resiliency

Development & Permit
Standards

Community-Scale Adaptation

Build Knowledge

RESIDENTIAL ADAPTATION
POLICY GUIDANCE

retive Guidelines for Addressing Sea el Rise in Local Coastal Programs





March 2018

REVISED

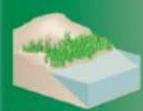
Prioritize Natural Infrastructure

GREEN - SOFTER TECHNIQUES

GRAY - HARDER TECHNIQUES

Coastal Structures

Living Shorelines



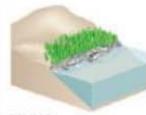
VEGETATION ONLY -

Provides a buffer to upland areas and breaks small waves. Suitable for low wave energy environments.



EDGING -

Added structure holds the toe of existing or vegetated slope in place. Suitable for most areas except high wave energy environments.



SILLS -

Parallel to vegetated shoreline, reduces wave energy, and prevents erosion. Suitable for most areas except high wave energy environments.



BREAKWATER -

(vegetation optional) - Offshore structures intended to break waves. reducing the force of wave action, and encourage sediment hardened shoreline accretion. Suitable for most areas.



REVETMENT -

Lays over the slope of the shoreline and protects it from erosion and waves. Suitable for sites with existing structures.



BULKHEAD -

Vertical wall parallel to the shoreline intended to hold soil in place. Suitable for high energy settings and sites with existing hard shoreline structures.

Adaptation Strategy: Increase Resiliency (Station 3)

Example:

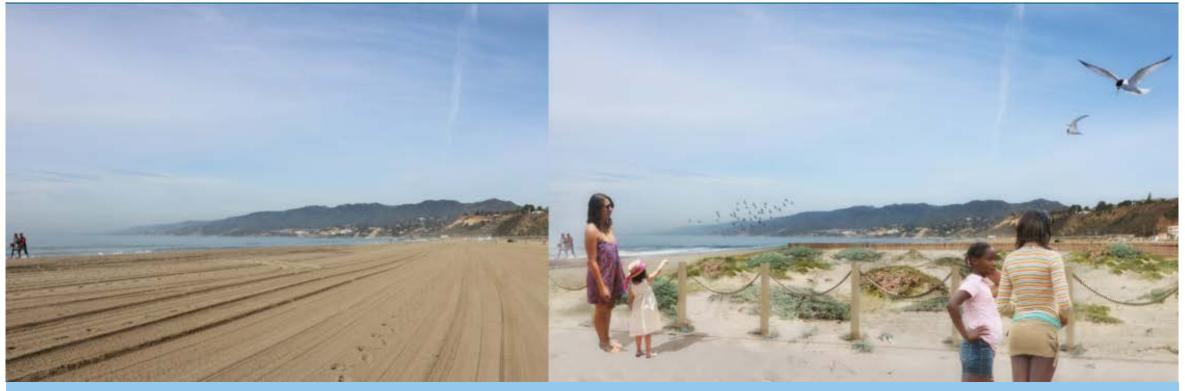
Beach Nourishment & Sand Retention

- 35 million cubic yards of sand placed on beaches since 1930s
- Hyperion, Marina Del Rey and Airport development
- Breakwaters, groins and jetties have helped retain wide beaches



Adaptation Strategy: Increase Resiliency (Station 3)

Example: Dune Creation



"Before-view" and rendering of "after-view" of the restoration site from the central walking path, facing northwest with the Malibu coastline in the background.

Adaptation Strategy: Increase Resiliency (Station 3)

The capacity to withstand and recover quickly from hazards

Example:

Upgrade Existing Infrastructure



Adaptation Strategy: Development & Permit Standards (Station 4)

Avoid siting new development or perpetuating redevelopment in hazard areas

Example: Adaptive Design

Elevated Living Space



Adaptation Strategy: Community-Scale Adaptation (Station 5)

Strategies that require a larger "community-wide" approach

Example: Financing Adaptation



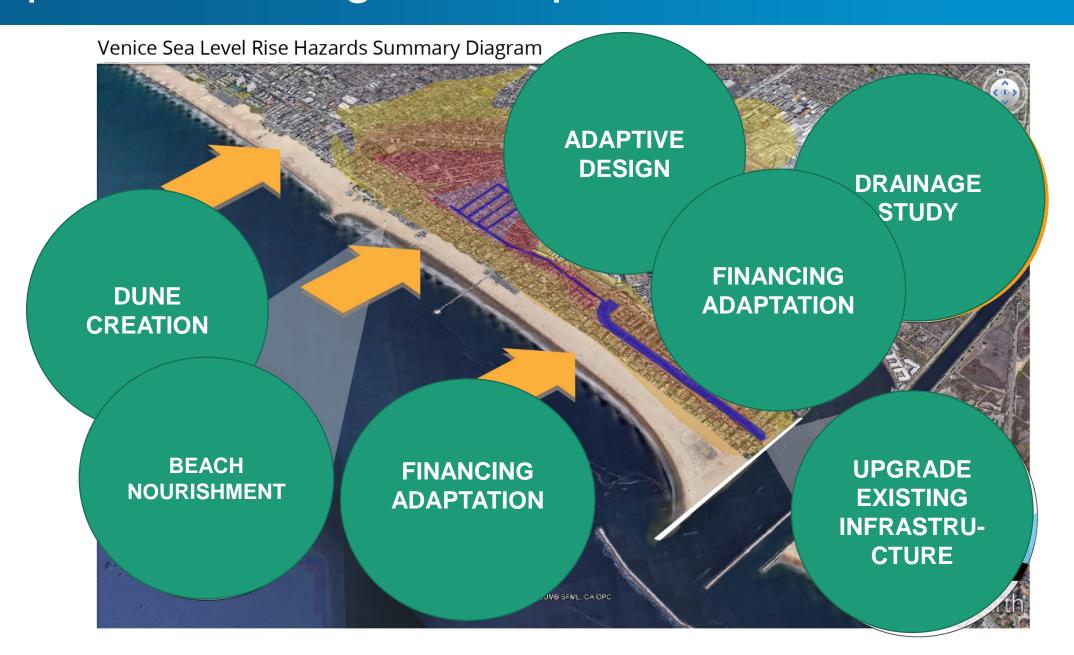
Adaptation Strategies: Build Knowledge (Station 6)

Increase the community's understanding about baseline conditions in order to plan more effectively for the future

Example: Drainage Study



Adaptation Strategies Respond to Coastal Hazards



Workshop Stations

Station 1: Venice Local Coastal Plan Update

Station 2: Sea Level Rise Mapping

Station 3: Adaptation Station: Increase Resiliency

Station 4: Adaptation Station: Development & Permit Standards

Station 5: Adaptation Station: Community-Scale Adaptation

Station 6: Adaptation Station: Build Knowledge

Feel free to visit tables in any order you please and be sure to get a "passport stamp" to enter into a drawing.

Tips for Productive Discussions

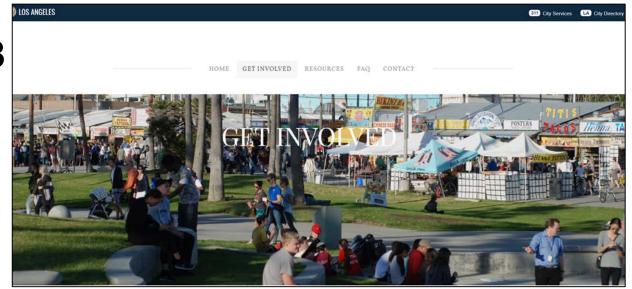
Let one person speak at a time Help to make sure everyone gets equal time to give input Keep your input concise so others have time to participate Actively listen to others and seek to understand their perspectives Offer ideas to address questions and concerns raised by others

Questions

- 1. Do you have any questions or feedback about any of the strategies?
- 2. Are there any benefits that are missing?
- 3. Are there any constraints that are missing?
- 4. Do you have any additional ideas for adaptation strategies?

Next Steps for Public Input and Involvement in Sea Level Rise Planning

- > Public Workshop, ~Summer 2018
 - ➤ Draft Land Use Plan and Proposed development regulations
- ➤ Public Hearing, ~Fall 2018
 - ➤ Public comment on the Draft Venice Coastal Zone Land Use Plan



Source: venicelcp.org

www.venicelcp.org

