

Sea Level Rise Workshop #3 | March 14, 2018 Venice Local Coastal Program

WORKSHOP SUMMARY

APPENDICES

| Contents | |
|-------------------------|-----|
| | |
| WORKSHOP OVERVIEW | |
| WORKSHOP OBJECTIVES | |
| WHERE AND WHEN | . 2 |
| OUTREACH AND ATTENDENCE | . 2 |
| FORMAT AND ACTIVITIES | . 2 |
| INPLIT THEMES | _ |

WORKSHOP OVERVIEW

The City of Los Angeles Department of City Planning has initiated preparation of the coastal hazard component of the Local Coastal Program (LCP) for Venice, focusing on hazard adaptation planning for sea level rise. Sharing critical information with the community and soliciting input are part of the planning process.

In March 2018, the City conducted the third of four planned community workshops. This summary documents the workshop's objectives, format, activities, and major themes from collected community input. Input received during the workshop is documented in the appendices.

The workshop was staffed by the City team for Venice and the consultant team supporting sea level rise planning for Venice including the following: Dudek, Moffat & Nichol, and Kearns & West.

WORKSHOP OBJECTIVES

The workshop focused on three objectives:

- Share conclusions of the vulnerability assessment and initial adaptation strategies.
- Provide opportunities for people to ask questions and get answers.
- Collect input and feedback.



WHERE AND WHEN

Wednesday, March 14, 2018, 7:00-9:00 pm Westminster Avenue Elementary School 1010 Abbot Kinney Boulevard, Venice 90291

OUTREACH AND ATTENDENCE

The City used multiple methods to inform community members about the workshop and encourage participation, as shown in the table below. Approximately 65 people attended.

Notification Methods

E-mail announcement in Spanish and English using Venice Local Coastal Planning Unit's contact database

Announcement on Local Coastal Program Website (www.VeniceLCP.org)

Briefings with canal-area organizations

Customized email invitations to organizations with request to forward invitation to members and constituents

Outreach via City's Public Affairs Office to local groups who have a presence on social media via the Planning Departments platforms (Planning4LA)

E-mail postings in Spanish and English on Nextdoor platform targeting 10 Venice LCP subareas

Distribution of flyers in Venice Canals zone to target sea level rise awareness

Coordination with Geography and Urban Studies faculty at Santa Monica City College for student involvement

FORMAT AND ACTIVITIES

There were several different activities at the workshop so that people would have the opportunity to obtain information, ask questions, and share feedback in a way that was comfortable for them. The workshop consisted of three components:

Registration and Orientation



- Presentation
- Round Robin Discussion Groups

A Spanish translator was present, offering translation through a headset and transmitter system. No attendees at this workshop required the use of the Spanish translation services.

Descriptions of the workshop components follow below.

Registration and Orientation

Participants were welcomed at the registration table and provided information about the workshop format. Project team members staffed the orientation tables and provided the following background information:

- Orientation Table #1: Local Coastal Program Update
- Orientation Table #2: Recap of November 2016 Sea Level Rise Workshop

Presentation

All participants convened for a presentation focused on the results of the vulnerability assessment, which was delivered by the project team. It started with a brief explanation of sea level rise projections and the sources of projected flooding in Venice. Vulnerability assessment conclusions were presented in the following six categories of community assets: infrastructure, property, cultural, civic, coastal amenities, and ecological. Potential adaptation planning concepts were also presented for each category. The presentation also introduced potential social vulnerability issues related to projected sea level rise hazards. Please refer to Appendix A for the presentation slides.

Round Robin Discussion Groups

Discussion groups provided a chance for community members to ask questions and obtain answers in a small group setting about the vulnerability assessment conclusions and sea level rise. It was also an opportunity for the project team to solicit input and feedback.

Each group participated in three 20-minute discussions facilitated by rotating pairs of project team members. The three rotations covered the following three categories of vulnerability assessment conclusions: 1) infrastructure and civic assets, 2) property assets, and 3) coastal amenities, cultural and ecological assets. All discussions groups engaged in conversation about all three categories.

The following questions guided the discussion groups in all rotations:

- What questions do you have about this topic? What do you want to know more about?
- Regarding this topic, what conclusions from the vulnerability assessment stand out for you and why?
- Do you have input for the team to consider as they develop specific adaptation measures for these assets between now and the next workshop?



After completing the three rotations, the project team members asked the groups to discuss one final question:

Of the social vulnerability issues related to sea level rise, what are you most concerned about?

Notes of the discussions were recorded on flip charts (see Appendix B).

Input Cards

All attendees received an input card on which to write comments (Appendix C). The input card included the same questions asked in the discussion groups. Participants could submit them at the workshop or mail them in later.

INPUT THEMES

The themes below represent topics frequently raised during the round robin discussion groups and on input cards. Understanding the breadth and depth of the discussions requires reviewing all of the input (see Appendices B and C).

The first three themes listed below were most prevalent in round robin discussion groups and input cards, and the last six were less common.

Primary Themes

Topics that frequently appear in input.

Pumping Stations and Tide Gates

Participants spoke often about stormwater pumping stations and tide gates. Some had questions about the locations and current functioning of the pumping stations and tide gates. Some expressed surprise at their vulnerability to sea level rise. Others expressed concern over the current state of this infrastructure, for instance, some stated that the tide gates at Washington Boulevard were leaking and needed repair. There was discussion about how sea level rise might affect the functioning of tide gates. Some participants suggested that the pump stations and tide gates should be upgraded now in anticipation of sea level rise.

Flooding Dynamics and Implications

Some people were surprised to learn that inland areas were susceptible to flooding. Mostly, people had questions about flooding. They asked about the definition of flooding and where flood waters came from. People asked questions about which areas would flood and what a person should do to prepare for flooding. Some asked if sea level rise would affect flood insurance and if federal assistance might be available for recovery after a flood. They asked questions about how it would affect emergency services, evacuation plans, power, and wastewater infrastructure.



Prospects for Development Regulation Modifications

Many people had questions about how sea level rise might affect development in Venice. Some people asked questions about whether vulnerable areas would be off-limits to development or if building codes would be updated to ensure new buildings were better adapted to sea level rise. Others stated that they believed there should be no new development in vulnerable areas. Others suggested specific requirements to help buildings be more resilient to sea level rise.

Secondary Themes

Additional topics that were repeated in the input, but to a lesser extent.

- Canals as a cultural asset: Many people emphasized that the canals were a priority for protection. Some suggested digging the canals deeper to help reduce flooding. Others remarked that bringing back the original canals, which have since been covered, should be considered.
- Protection of historic assets: People wondered how the project team determined what
 qualified as a historic asset for the vulnerability assessment. They wondered if that
 categorization would have implications for how potential aid for adaptation measures
 would be prioritized. Others suggested structures or areas that should be considered as
 historical assets. People asked questions about what could be done to help historic
 buildings adapt to sea level rise.
- Beach management: Some people had concerns about the beach, and many saw it as an
 important public resource. Some questioned why the beach was being leveled, instead
 of being allowed to form dunes. Participants discussed the benefits of living coastlines. A
 few questions about the possibility of allowing the beach to migrate were raised.
- Vulnerability of homeless people: Some participants expressed concern that homeless
 people would be more vulnerable to displacement due to flooding from sea level rise
 and asked if plans existed to help the homeless. The potential for flooding of future
 homeless shelters sited in Venice was also raised.
- Displacement risk: Some discussions addressed the availability of affordable housing in Venice and potential displacement of low income residents from flooding. Related to displacement concerns were calls to preserve affordable housing.
- Green infrastructure solutions: A few participants said they would like to see more green infrastructure to store and clean water and provide habitat.



Appendix A

Presentation Slides

Public Workshop #3

Sea Level Rise Vulnerability Assessment





Introducing the Team:









WEST

Hosted by the Department of City Planning and funded in part by the California Coastal Commission, Grant LCP-14-09



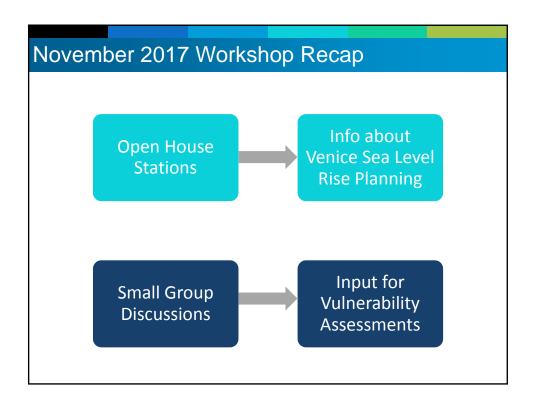


Purpose of Today's Workshop:

Share vulnerability assessment conclusions

Provide opportunities for the community to ask questions and get answers

Vulnerability Assessment- What it is, how it was conducted, and its conclusions Examples of adaptation concepts Infrastructure and Civic Assets Property Assets Coastal Amenities, Cultural, and Ecological Assets Information on how to stay involved





Environmental Justice in the Coastal Act

AB 2616 (Burke, 2016)

Section 30604 (h) – When acting on a coastal development permit, the issuing agency, or the commission on appeal, may consider environmental justice or the equitable distribution of environmental benefits throughout the state.

Section 30108.3 – "Environmental justice" means the fair treatment of people of all races, cultures, and incomes with respect to the development, adoption, implementation, and enforcement of environmental laws, regulations, and policies.

7

Social Vulnerability & Environmental Justice

Social Vulnerability

 Socio-economic implications of sea level rise hazards & adaptation strategies

Environmental Justice

- AB 2616 amended Coastal Act (2016)
- Fair treatment of people of all races, cultures, and incomes
- Equitable distribution of environmental benefits

All asset vulnerabilities & adaptation options have socio-economic implications



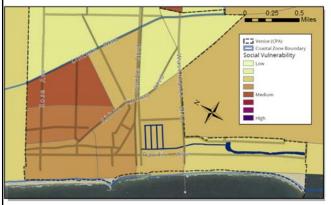


Venice Vulnerability Assessment

Social Vulnerability Index

2016 Social Vulnerability Index (SVI) based on census data

• 32 variables: education, housing, income, demography, etc...



SVI data from Agency for Toxic Substances & Disease Registry

SVI indicates socially vulnerable areas have lower physical exposure to SLR hazards.

But, SLR hazards could impact services & resources they depend on.

Venice Vulnerability Assessment

Guiding Questions for Planning Process

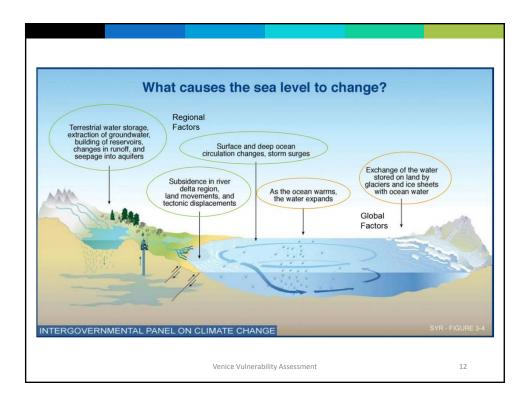
- How do the dynamic issues of gentrification, rent displacement and population growth affect Venice's vulnerability to sea level rise?
- How might tide gate failure, flood insurance, storm-related coastal flooding or other sea level rise issues affect displacement or community makeup?
- How will vulnerable populations be impacted by hazards and potential adaptation strategies?

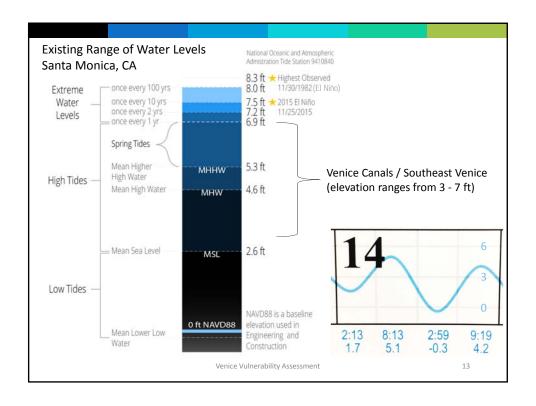
Venice Vulnerability Assessment

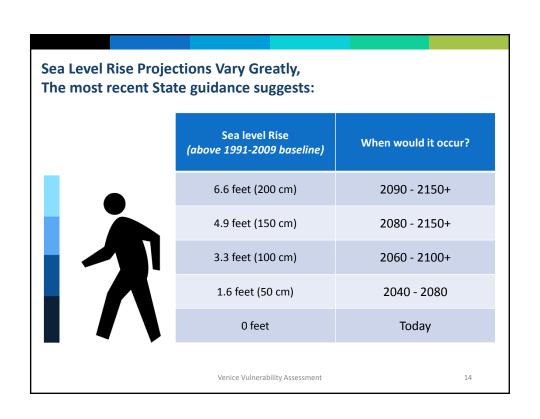
Presentation Topics:

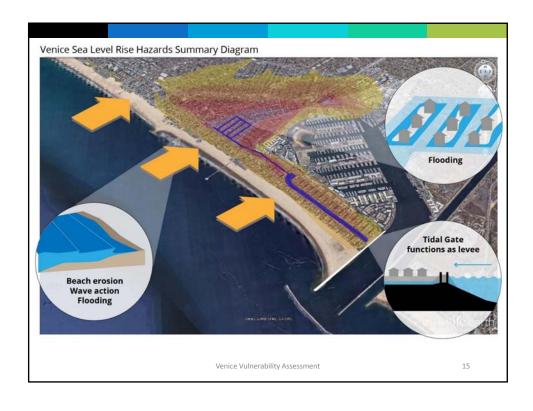
- Sea Level Rise & Projections
- Coastal Hazard Overview
- Vulnerability Assessment
 - What is it?
 - Methodology
 - Asset/Resource evaluations

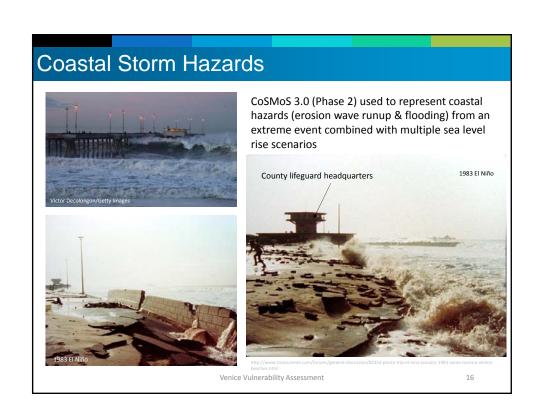
Venice Vulnerability Assessment











Inland Flood Hazards

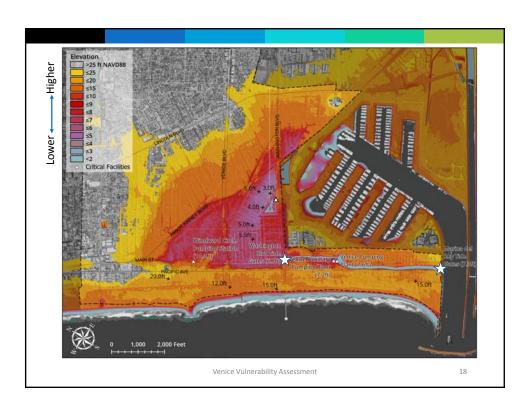
Inland flood potential mapping considers a tide gate malfunction during a monthly high water level (6.5 feet), consistent with ESA's approach to assessing low-lying areas in the AdaptLA study.

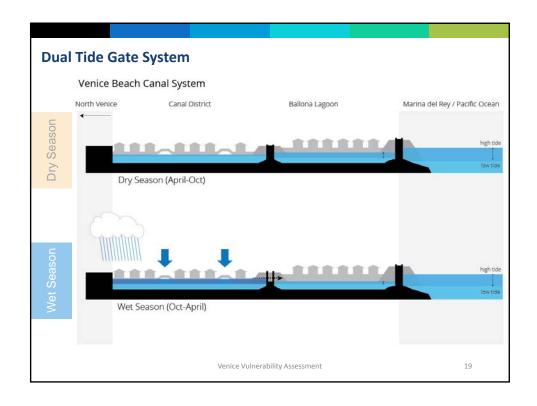


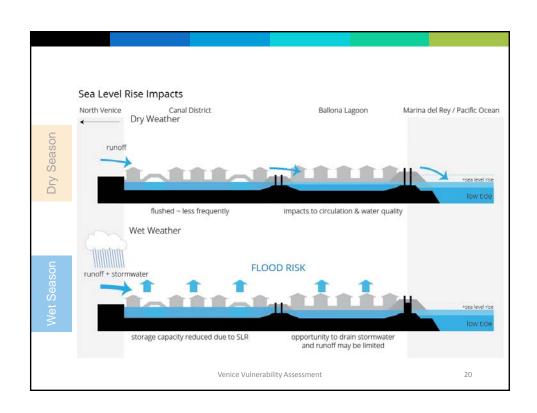


Multiple potential flood sources:

- Tidal flooding (tide gate malfunction)
- Extreme rainfall event coincides with high tide
- Coastal flooding (wave overtopping)







Vulnerability Assessment - What is this?

The Vulnerability Assessment identifies the **physical exposure** to resources and assesses vulnerability by looking at the **sensitivity** and **adaptive capacity** of each resource.

The Vulnerability Assessment informs the Local Coastal Plan Update by determining **potential consequences** and **sea level rise thresholds** for the Venice Community.

The Local Coastal Plan Update will include **adaptation strategies** to help mitigate potential consequences.

Venice Vulnerability Assessment

2

Vulnerability Assessment Methodology

1) Establish inventory of coastal resources communities, property, habitat, infrastructure



2) Assess physical exposure to sea level rise sea level rise + coastal hazards



3) Analyze Vulnerability exposure / sensitivity / adaptive capacity

Venice Vulnerability Assessment



Current Sea Level +0.0 ft

Inland flood potential in Venice Canals and low-lying areas (Southeast Venice)

Venice Vulnerability Assessment



+1.6 ft (2040-2080)

Inland flood potential expands north across Venice Blvd into North Venice

Venice Vulnerability Assessment



+3.3 ft (2060 to 2100+)

Inland flood potential expands along Abbot Kinney Blvd / into Oxford Triangle Coastal flooding of Boardwalk and Venice Rec. Center during extreme event

Venice Vulnerability Assessment

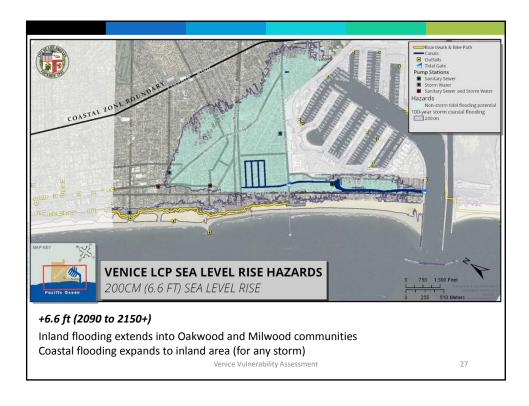
25



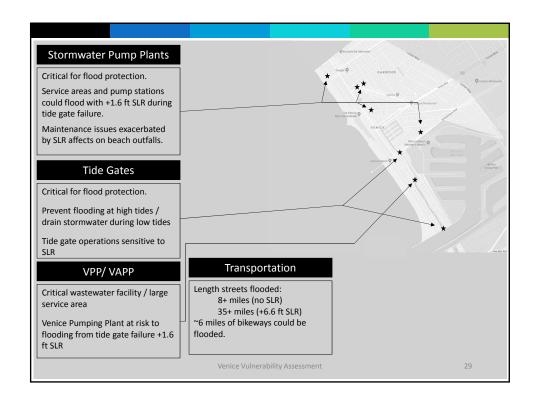
+4.9 ft (2080 to 2150+)

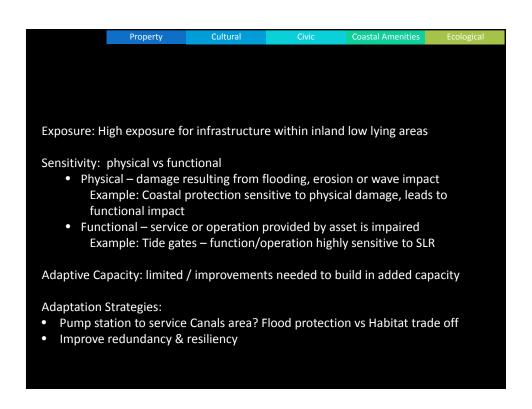
Inland flood potential expands across Abbot Kinney Blvd & Oxford Triangle Coastal erosion & flooding threaten lifeguard HQ and Venice Rec. Center

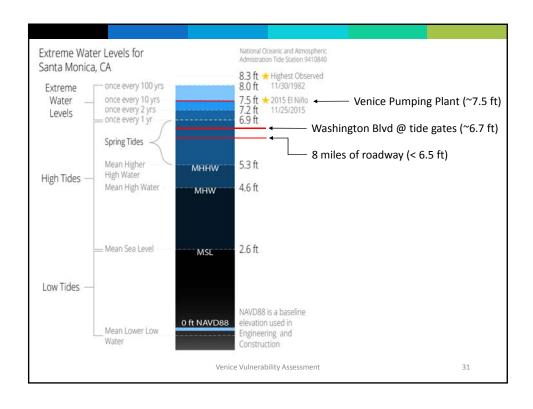
Venice Vulnerability Assessment

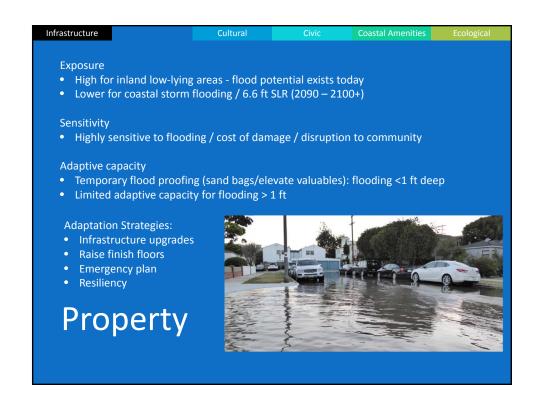




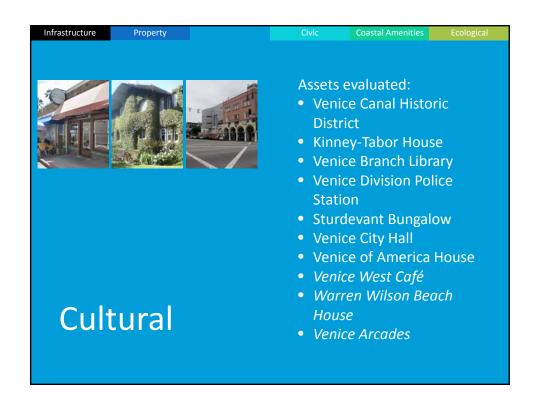


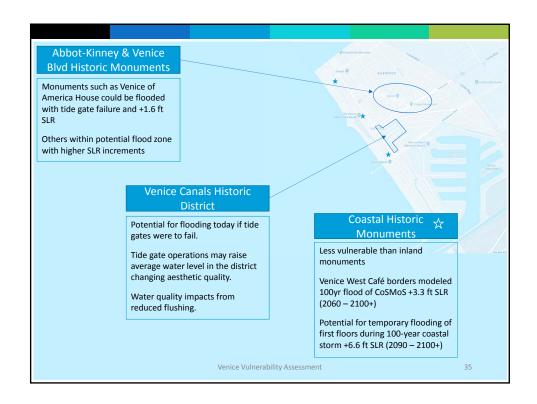


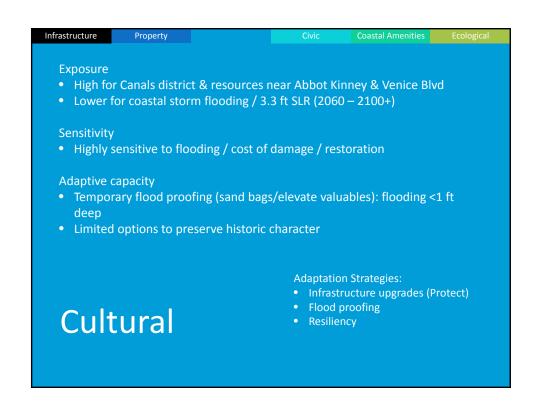








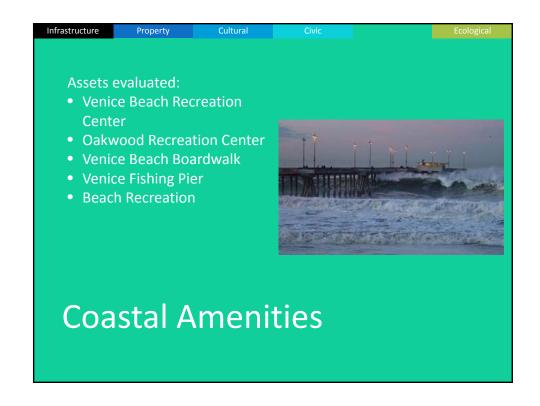


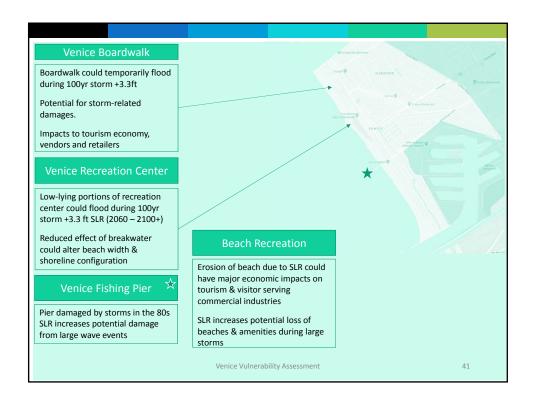






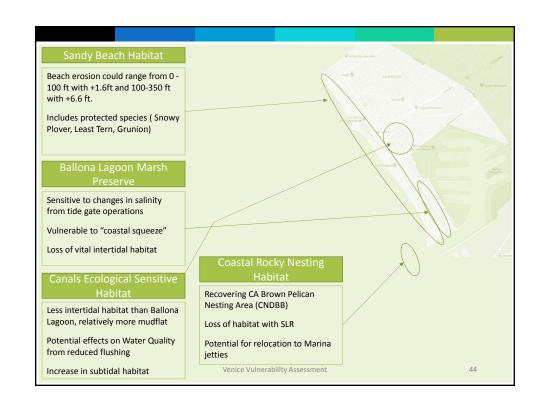












Exposure

• Erosion of 50 feet (short term) to 300 feet (long term) of beach

• Water quality and tidal flow of canals likely affected by tide gates

Sensitivity

• Endangered Species such CA Snowy Plover at critically low habitat for nesting

• Plant species within canals area limited migration area causing loss of habitat (Coastal Squeeze)

Adaptive capacity

• Habitat can be restored

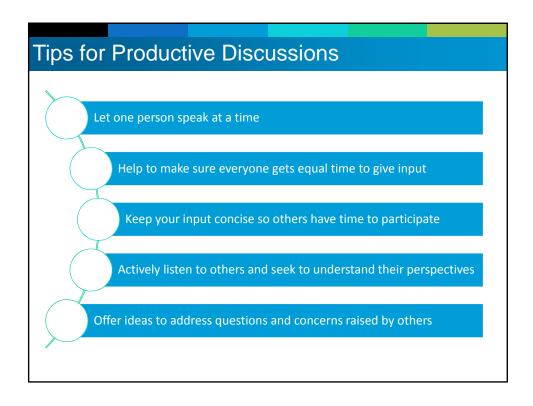
• Large beach allows for increase in future restored/protected habitat

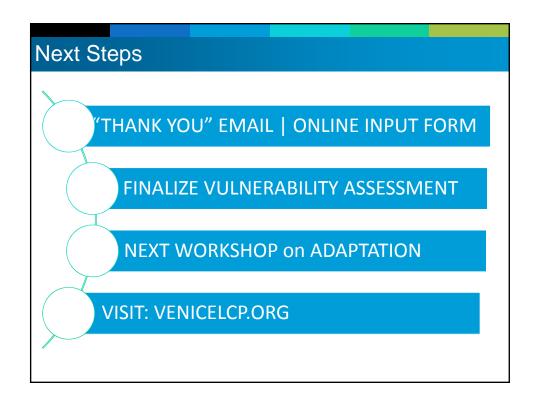
Adaptation Strategies:

• Restoration

• Relocation of protected beach areas

Find the table corresponding to the number on your nametag The facilitator will guide the discussion and take notes, and the project team member will answer questions A new facilitator and subject matter expert will rotate to your table until your group has discussed all three topics Infrastructure and Civic Assets Property Assets Coastal Amenities, Cultural and Ecological Assets







Appendix B

Input from Discussion Groups

Infrastructure and Civic Assets

Table 1

- What can be done with Oceanfront Walk?
- CCC wants to provide access to the beach
- Issue of timing/ aging with structures in relation to sea level rise
- Mitigation measures
 - Development requirements (elevated structures)
- Why are permits being issued at all for residential/commercial development?
 - o City might need to adopt phased approach based on sea level rise
 - o City should provide financing to save Venice
- Venice more exposed than other coastal communities in LA Basin
 - o Biggest storms come from the west
- What if we add quakes and tsunamis to sea level rise analysis.
 - o Tsunami would raise water level significantly
 - o Quakes could cause liquefaction

Table 2

- Where could the public go in case of flooding?
 - o Meeting points might be a type of adaptation strategy.
- What can City do today to improve/strengthen infrastructure before sea level rises?
 - City has list of required improvements/cost but no timeline yet
 - o Coordination between County (Harbor and beaches) and City
- City has Tech. Advisory Committee (various Depts) to analyze and coordinate efforts on sea level rise in Venice
- Is City prepared to assist the homeless population in Venice?
 - Flooding would be dynamic (based on tides) and presumably homeless population would be able to get away
- What can be done to prevent flooding from oceanfront? earth berms

- Concerns: Tide Gates, Winward Circle, Flood in 2017
 - o Canal leakage (Priority), Cument BOE study update
- Question: Groundwater impact with Sea Level Rise?
 - o USGS doesn't include groundwater
 - o Basin is currently not pumped
- Concern: Maintenance Bldg City/County has funding from County to upgrade
 - o Parks, Boardwalk are on higher ground
 - We should look at how coastal infrastructure is maintained
 - 2008 study on as SLR from NOAA
- Methane Zone today in ULCD area
 - o How does SLR affect it?
- Weight of development on ground and SLR?
- *Pump station malfunction and inundation
- How can protect hist.?
 - SLR rising first floor
- Staging and Adaptation: Parlor Loop

- o Consider immersing, SLR storage with new development
- o Road diets vs. emerging evacuation routes
- o Tsunami studies? Tsunami and SLR?
- o Tunnels
- How has sea level changed in the past 50 years
 - o 8 inches over the past decades
- Suggestion: Illustrations throughout community might be important to show where water level will be in the next decades
- Breakwater

Table 4

- How does the tidal at marina work vis a vis tides
- Rumor pump station at Kinney Circle, has salt water Del and Venice? Or sea water?
- Will plumbing wastewater be resilient to salt water?
- Will all this impact property value?
 - Think it will go down, banks may not lend due to SLR
- Do something about the canals to protect
- What adaptation strategies are we
- Will VAAP move more water?
- How does the pump system work today?
- How will soils be impacted by groundwater subsidence? How will the soil change?
- How will the methane buffer zone be impacted by SLR?
- How are we vulnerable to methane?
- Research/rebate incentives for swales and other ways to absorb water
- Surprise to learn about the tide gate reliance and over all vulnerable
- How are other cities dealing with this issue?
- Bldg code
- Major (Non-incremental) improvements
- Introduce water into the system so it takes stress of the system
- Keep charm and choose mechanical to keep what we know
- Human error on the canal, will property values increase if we introduce water
- More to do with runoff, perm pay etc.

- If tide gates are working what level of SLR would it overtop?
- Tide gates history: Current 1ft/day leak in Washington Gate. (Not functional currently).
- 1.6 ft SLR over Washington Gate
- Currently have disaster conditions
- Can/Should people be able to build it?
- Access for emergency ingress/egress
 - Flood limiting end access
 - Flood limiting access and electricity, people with limited access and have special needs
- What is the definition of flooding?
 - What's the water level/Flood depth
 - o Predicted impacts to wastewater infrastructure

- What happens to
- Impact of SLR/Flooding on power (communication assistance)
- Look at parking lots/beach parking (visitor serving (ccc conflict/dune restoration)
- Mitigation for property and infrastructure, make it less likely to flood
 - o Protect what's there, remove the threat, lessen the impact
- No development in haz zone
- Decentralize infrastructure: waste water power
- Considerations of buoyancy, air bubbles and things popping up
- Methane zone: What happens to the house as it wasn't designed to be held down
 - o Infrastructure/housing could float

Table 6

- Where is Venice pumping plant?
- Green infrastructure trees/plants to suck up water and help ecological habitat
- Community solar (redundancy for infrastructure systems) back up infrastructure
- Does Winward have a back up?
- Do many approaches
- Rain water catchment systems (larger scale)
- Decentralize infrastructure
 - How to ensure the progression of projects
 - What if things get worse, stay ahead of things. How to adapt to changing predictions
 - Changing predictions
 - Trigger based planning
- New Development/building requirements stilts/grad?
- Raised porches in Oakwood to adapt to local
- Storm drain system (40's) was supposed to empty in beach but in sand- bacteria issues on beach: testing today
- Height limits will need to respond to new development standards.
- No minimum number of units? Why not?
- Policy and zoning tied to mitigation and SLR
- Dig the old canals that we filled
 - o Multiple benefits
- Pump station currently floods
- Should people be allowed to build in flood prone areas?
- Align incentives with goals (goals can be in conflict) re: infrastructure
- Who pays for adaptation?
- Loss of thatcher maintenance yard
- Percent of perm surfaces require
 - Arid lands institute groundwater mapping?

Property Assets

- What are property assets?
- Is the flooding due to flood gates?

- Why aren't tide gates automatic?
 - o Would this matter with sea level rise?
- How much have we studied groundwater?
- Long-term and short term-flood gates
- Has there been restrictions on developing in vulnerable areas?
- Pumping
- Save us!
- Groundwater mitigation
- Vulnerable
 - Distribute vulnerable populations throughout city so they don't experience it worse
 systemic issues
 - o Disadvantaged community is getting booted out
- Homeless
 - o Are there global examples? Look at the Netherlands
 - Animal shelters
- Explain property assets better
- If the city has a dense area of property assets, does the city take it more seriously
- Washington and Wilson apartments had to sump pump before construction
- How effective are the pumps that we have?

Table 2

- Are the canals the only entry point for flooding?
- Could we see an animation of how flood water moves through?
- Does it make sense to look only at Venice or for regional considerations?
- Does elevation have impact on water flow?
- What should a person in low lying areas do?
- How is flood insurance and flood plain mapping changing?
- How will this study address these SLR changes?
- Are there any financial incentives for people to relocate /reuse due to risk unsustainability?

- Will there be a priority of one asset over another?
- What is the current infrastructure in place to prevent "first flooded"?
- The Washington Gate is leaking, repairs have not been made.
- Water flowing up from Windward traffic circle
- What entity do we work for?
- Where would the flood peak?
- What are we doing about Washington?
- What will we do to pump water out?
- Could digging the canals deeper reduce flooding?
- Are there any cities we are using as a template?
 - o Why not?
- Where do we pump the water to?
- Do tunnels still exist next to Windward? bar
- Will there be restrictions on future building?

Will new buildings be based on adaptive measures?

Table 4

- How will the bldg. code and zoning code change to adjust and protect home?
 - o Infrastructure and private property discussions overlap
 - o Turn a negative to a positive re: SLR
 - o Property value will decrease if we do nothing
- We love our community, hold onto it forever.
- Preserve original community
 - o Ocean Park Villa
- We don't want to get flooded and will do what is necessary to protect.
- Local/ Pool for insurance for Venice
- VA Emergency planning for SLR
 - o Hold town hall meeting
- Drain to canals, water quantity
- Brooks drain to ocean
- Water quality: second outlet for canal
- Look at previous studies for canal water in the 1980s

Table 5

- Need to think about inland flooding with adaption strategies.
- How long has the tide gate system been in place?
- What is the max SLR?
- Will the tide gate fail?
- Based on current zoning, max built, what effect will that have on urban run and flooding with SLR?
- More analysis of salt water intrusion on groundwater

- How will they help with rebuilding after flooding?
- How will help with historic property, save the resource.
- I live in flood area; shocking how bad things
- Green infrastructure
 - o Help existing eco-system
- Raise streets
- Increase pump station/gates capacity
- Sunny -day floor pump station inverse; cleans traps
- Storm drain maintaining program
- Community solar as a back up system for pump stations
- Fear; is this certain
- Conflict/relationship between adaptation and causation
- Large development is impacting infrastructure
- Tie zoning and infrastructure to SLR and adaptation
- Where are emer

Coastal Amenities, Cultural, and Ecological Assets

Table 1

- Is the city considering the tourism and economic assets?
- Where will the City get the money to pay for adaptations?
- What does it mean to be historic? Does it mean more money?
- You've already designated areas to be preserved! Or how will it be prioritized?
- Adaptation measures should recognize climate change and not contribute to it.
- City should coordinate.

Table 2

- What are the adaptation strategies you are considering for the canals?
- Can we even just get pumps upgraded now?
- Maybe there can be a task force that addresses structures.
- Get systems to function at double or triple capacity now.
- Could floodgates be reinforced
- The problem is not keeping water out, it's getting rid of it when it gets in.
- LA is slow when it comes to public works projects
- Has anyone talked about introducing more water into Venice as it used to have?
- Where will funding come from?
- How good are the predictions? Studies keep showing previous predictions were optimistic.

Table 3

- What commitment is there to the Old Lifeguard Tower?
- Why is the County leveling the Beach, instead of letting it gain its own rhythm?
- Will the Canals increase in salinity?
- The State plan did not show canal flooding as yours does.
- Are you looking at breakwater pumping?
- City needs to repair gates
- Would like more information on your data and studies

Table 4

- Historical in Oakwood preserved as a historic community, consideration, Ocean tract Villa
- ID areas but no incentives to consider in adaptation strategies
- Ecological: least tern also found in canal area to be considered
- Coastal Amenities: Living shorelines, beach nourishment as a resource/strategy
 - Possible solutions
 - Tax breaks as an incentive for historic structures
 - Mitigation for pumping station in adaptation strategies

Table 5

- What questions do you have coastal amenities and cultural and eco assets? What more do you want to know?
 - o SLR adaptations will apply the same way
 - o Please include the potential historical cont. as cultural resources
 - o The first priority is the canals − 2 residents

- To also consider walkstreets, dwnt, beaches, to treat all areas the same.
- o The pacific electric red car bridge
- o Specific mitigation measures, what adaptation strategies are there?
 - To consider before/after
- *Follow up on nesting "Least tern"

Table 6

- What questions do you have about coastal amenities, cultural and eco assets?
 - o What we should be doing to plan?
 - o Is there a strategy on what to do?
 - o What criteria is being used for historic?
 - o Beach is an important resource, how to prepare?
 - o Fallout is a concern, not just sea level rise
- Are we looking at storm surge in the assessment? What funding is going to be allocated?
 - Adaptation strategies, Policy → funding
- #2 Question
 - o Concern where ecological assets least tern, snowy
 - o Solutions for historical structures?
 - Green infrastructure, would like to see more of this
- #3 Question speedway, pay attention to this area
 - o Is beach allowed to migrate?

Social Vulnerability

Table 1

- Schools
- People who don't speak English or are handicapped
- Senior homes
- Homes for disabled
- Clinics and hospitals
- Evacuation system prioritization
- Incorporate SLR and flooding into earthquake safety

Table 2

- It seems the most vulnerable to sea level rise are the highest income.
- Best to talk about how to prevent
- It's more about tradeoffs and prioritization after it happens, who do you help?
- The homeless shelters must prepare now

Table 3

- Homeless population who tend to gather near the canals vulnerable
- Building a homeless shelter in the Venice Blvd median doesn't make sense because of the sea level rise exposure shown on the maps. This median for an open space/flood storage/wetland type of use would be preferred.

Table 4

- Use public access station
- Preserve affordable housing
- Venice Listerv
- Preserve the Mello Act

Table 5

- Are there nursing homes?
- The disruption of community to include those who do not have resources to (get back on their feet) disruption of work in event of disaster.
- What about the homeless what is the strategic plan?
- Federal flood insurance in preparation of maps need to be broader, not as specific.

Table 6

- Homeless, lack of affordable housing
- Displacement, no other place to go
- High cost of utilities
- Schools work to bring community together
 - o Could make more/stronger ties, both physically and social
- Economic pressure: Pace program ex. That pushed people out
 - o When space becomes more limited, people will be pushed
- Affordable housing trust fund Code enforcement violation fees for retrofit funds that will keep social diversity



Appendix C

Completed Input Cards



PUBLIC WORKSHOP #3

Input Form

During group discussions, use the space below to record your perspectives, ideas, and questions. The Local Coastal Program project team will carefully review and consider all completed input forms as well as the workshop discussions during the sea level rise and coastal hazard planning for Venice.

Infrastructure and Civic Assets

| 1. | What que | stions do you | ı have about | infrastr | ructure and civic a | assets? What do you | want to know | more about? | |
|----|----------|---------------|--------------|----------|---------------------|---------------------|--------------|-------------|----|
| | HILL | in out o | We . | the | INFRAST | tructure | Chanc | JES BE? | |
| | a Junul | the | COUN. | ty | Change | CONS fr | iction | Siguts | OR |
| | | to - | | | | | | | |

- 2. Regarding infrastructure and civic assets, what conclusions from the Vulnerability Assessment stand out for you and why? THE CANALS!
- 3. Do you have input for the team to consider as they develop specific adaptation measures for infrastructure and civic assets between now and the next workshop?

Property Assets

1. What questions do you have about property assets? What do you want to know more about?

Would it Affect Property PRICES?

2. Regarding property assets, what conclusions from the Vulnerability Assessment stand out for you and why?

PROPERTY VALUE!

3. Do you have input for the team to consider as they develop specific adaptation measures for property assets between now INSTALLING. and the next workshop?

More Pumping Stations!



| Coastal Amenities, Cultural and Ec | ologica | I ASSETS |
|------------------------------------|---------|----------|
|------------------------------------|---------|----------|

| 1. | what questions do you have about coastal amenities, cultural and ecological assets? What do you want to know more about? |
|----|--|
| 2. | Regarding coastal amenities, cultural and ecological assets, what conclusions from the Vulnerability Assessment stand out for you and why? |

3. Do you have input for the team to consider as they develop specific adaptation measures for coastal amenities, cultural and ecological assets between now and the next workshop?

Social Vulnerability

1. Of the social vulnerability issues related to sea level rise, what are you most concerned about?

Please use the space below to provide additional input, ideas, questions, and considerations for sea level rise planning in Venice.

Completed input forms can be mailed or emailed to:

Hagu Solomon-Cary

Venice LCP@lacity.org 200 N. Spring St. Rm 763 Los Angeles CA, 90012

The online survey can be found at www.venicelcp.org under "Get Involved."

| OPTIONAL: Please provide us with your contact information so we can |
|---|
| keep you up-to-date on the Venice Local Coastal Program! |
| |

Name

Email

Addres



Input Form

During group discussions, use the space below to record your perspectives, ideas, and questions. The Local Coastal Program project team will carefully review and consider all completed input forms as well as the workshop discussions during the sea level rise and coastal hazard planning for Venice.

| Committee of the plant of the party | the same of the same of | and the second second second | ric Assets |
|-------------------------------------|-------------------------|------------------------------|------------|
| 110010-0101 | # 8 Feb 133 H + 3 | BACK TO BE SEED TO | ME DEEDEC |
| | | | |

| 1. | . What questions do you have about infrastructure and civic assets? What do you want to know more about? | | | | |
|----|--|---------------|---------------|--|---|
| | What could | be built as a | lanc- from | secondary Flood mitigation, | |
| | apparatus L | hala mittante | afterior of a | Scarting of the court is the court zon | 0 |

Che most vulnerable area in Venice). In short, perhaps a pump system to assist with

2. Regarding infrastructure and civic assets, what conclusions from the Vulnerability Assessment stand out for you and why?

gravity flow back out of the lock systems.

3. Do you have input for the team to consider as they develop specific adaptation measures for infrastructure and civic assets between now and the next workshop?

Elaborate on everiliency measures

Property Assets

1. What questions do you have about property assets? What do you want to know more about?

how does tederal assistance impact homeowners in the event of a major flood.

- 2. Regarding property assets, what conclusions from the Vulnerability Assessment stand out for you and why?
- 3. Do you have input for the team to consider as they develop specific adaptation measures for property assets between now and the next workshop?



| C | Coastal Amenities, Cultural and Ecological Assets | | | | | |
|----|--|--|--|--|--|--|
| 1. | What questions do you have about coastal amenities, cultural and ecological assets? What do you want to know more about? | | | | | |
| 2. | Regarding coastal amenities, cultural and ecological assets, what conclusions from the Vulnerability Assessment stand out for you and why? | | | | | |
| 3. | Do you have input for the team to consider as they develop specific adaptation measures for coastal amenities, cultural and ecological assets between now and the next workshop? | | | | | |
| - | ocial Vulnerability | | | | | |
| 1. | Of the social vulnerability issues related to sea level rise, what are you most concerned about? | | | | | |
| | Please use the space below to provide additional input, ideas, questions, and considerations for sea level rise planning in Venice. | | | | | |
| | ompleted input forms can be ailed or emailed to: OPTIONAL: Please provide us with your contact information so we can keep you up-to-date on the Venice Local Coastal Program! | | | | | |

Hagu Solomon-Cary Venice LCP@lacity.org 200 N. Spring St. Rm 763 Los Angeles CA, 90012

The online survey can be found at www.venicelcp.org under "Get Involved."

| | L: Please provide us with your contact information so we can up-to-date on the Venice Local Coastal Program! |
|---------|---|
| Name | |
| Email | |
| Address | |
| | |



PUBLIC WORKSHOP #3

| Input Form - Morense Man | - Pumping gat | to the most |
|---|---------------|---------------|
| During group discussions, use the space below project team will carefully review and consider a | | |
| rise and coastal hazard planning for Venice. | The conta | - options for |
| ignales | live good | 501000 |
| Infrastructure and Civic Assets | | |

- What questions do you have about infrastructure and civic assets? What do you want to know more about?
- Regarding infrastructure and civic assets, what conclusions from the Vulnerability Assessment stand out for you and why?
- 3. Do you have input for the team to consider as they develop specific adaptation measures for infrastructure and civic assets between now and the next workshop?

Property Assets

- What questions do you have about property assets? What do you want to know more about?
- 2. Regarding property assets, what conclusions from the Vulnerability Assessment stand out for you and why?
- 3. Do you have input for the team to consider as they develop specific adaptation measures for property assets between now and the next workshop?



The online survey can be found at www.venicelcp.org under

"Get Involved."

Sea Level Rise Workshop Series Venice Local Coastal Program PUBLIC WORKSHOP #3

Coastal Amenities, Cultural and Ecological Assets

| 1. | . What questions do you have about coastal amenities, cultural and ecological assets? What do you want to know more about? | | | | | | |
|---------------|--|--|--|--|--|--|--|
| | | | | | | | |
| 2. | . Regarding coastal amenities, cultural and ecological assets, what conclusions from the Vulnerability Assessment stand out for you and why? | | | | | | |
| 3. | 3. Do you have input for the team to consider as they develop specific adaptation measures for coastal amenities, cultural and ecological assets between now and the next workshop? | | | | | | |
| 1. | 1. Of the social vulnerability issues related to sea level rise, what are you most concerned about? Please use the space below to provide additional input, ideas, questions, and considerations for sea level rise planning in Venice. | | | | | | |
| | | | | | | | |
| m H | ompleted input forms can be ailed or emailed to: agu Solomon-Cary enice LCP@lacity.org | OPTIONAL: Please provide us with your contact information so we can keep you up-to-date on the Venice Local Coastal Program! Name | | | | | |
| | 00 N. Spring St. Rm 763 os Angeles CA, 90012 | Email | | | | | |



Input Form

During group discussions, use the space below to record your perspectives, ideas, and questions. The Local Coastal Program project team will carefully review and consider all completed input forms as well as the workshop discussions during the sea level rise and coastal hazard planning for Venice.

Infrastructure and Civic Assets

| 1. | What questions do | you have about infrastructure and civic assets? What do you want to know more about? |
|----|-------------------|--|
|----|-------------------|--|

1) WHY DOES THE COUNTY FLATTEN THE BEACH?

- 2. Regarding infrastructure and civic assets, what conclusions from the Vulnerability Assessment stand out for you and why?
- Do you have input for the team to consider as they develop specific adaptation measures for infrastructure and civic assets between now and the next workshop?

WOULD LIKE TO SEE WHAT OTHER (GLOBAL) FROMMUNITIES HAVE DENE & AKE DOING AMSTER. ABOUT SIMILAR CIRCUM STANCES FLANCYC, DAM

Property Assets

- What questions do you have about property assets? What do you want to know more about?
- 2. Regarding property assets, what conclusions from the Vulnerability Assessment stand out for you and why?
- 3. Do you have input for the team to consider as they develop specific adaptation measures for property assets between now and the next workshop?

MOULD LIKE TO HEAR POSSIBLE SOCUTIONS,...
KNOWING THE PROBLEMS = GOOD, SOLVING THEM = BETTER.



PUBLIC WORKSHOP #3

| Coastal Amenities | Cultural | and Ecologi | cal Assets |
|--------------------------|--------------------------|--|------------|
| CONTRACTOR AND PROPERTY. | A COUNTY OF THE PARTY OF | The second of th | |

- 1. What questions do you have about coastal amenities, cultural and ecological assets? What do you want to know more about?
- 2. Regarding coastal amenities, cultural and ecological assets, what conclusions from the Vulnerability Assessment stand out for you and why?
- 3. Do you have input for the team to consider as they develop specific adaptation measures for coastal amenities, cultural and ecological assets between now and the next workshop?

Social Vulnerability

| 1. | Of the social vulne | erability issues related to sea level rise, what are you most concerned about? |
|----|---------------------|--|
| | WAR | SEEMS AS THOUGH WE HAVE TO MAKE PLANS FOR THE CANALS NOW - MOST VULNERABLE |
| | | The state of the s |

Please use the space below to provide additional input, ideas, questions, and considerations for sea level rise planning in Venice.

STOP FLATTENING THE BEACH LET IT DEV DUNES & "GREENERY".

Completed input forms can be mailed or emailed to:

Hagu Solomon-Cary

Venice LCP@lacity.org 200 N. Spring St. Rm 763 Los Angeles CA, 90012

The online survey can be found at www.venicelcp.org under "Get Involved."

| OPTION | NAL: Please provide us with your contact information so we can | |
|--------|---|--|
| | ou up-to-date on the Venice Local Coastal Program! | |
| | (6) | |
| Name | | |

Email Address



Input Form

During group discussions, use the space below to record your perspectives, ideas, and questions. The Local Coastal Program project team will carefully review and consider all completed input forms as well as the workshop discussions during the sea level rise and coastal hazard planning for Venice.

| | 8 |
|----|--|
| In | frastructure and Civic Assets |
| 1. | What questions do you have about infrastructure and civic assets? What do you want to know more about? |
| 2. | Regarding infrastructure and civic assets, what conclusions from the Vulnerability Assessment stand out for you and why? |
| 3. | Do you have input for the team to consider as they develop specific adaptation measures for infrastructure and civic assets between now and the next workshop? |
| P | roperty Assets |
| 1. | What questions do you have about property assets? What do you want to know more about? |
| 2. | Regarding property assets, what conclusions from the Vulnerability Assessment stand out for you and why? |
| 3. | Do you have input for the team to consider as they develop specific adaptation measures for property assets between now and the next workshop? |



PUBLIC WORKSHOP #3

recreation good for economy

Coastal Amenities, Cultural and Ecological Assets

- 1. What questions do you have about coastal amenities, cultural and ecological assets? What do you want to know more about? what can be done to protect these ammenities. Is it impossible to prevent damage?
- Regarding coastal amenities, cultural and ecological assets, what conclusions from the Vulnerability Assessment stand out for you and why?
- 3. Do you have input for the team to consider as they develop specific adaptation measures for coastal amenities, cultural and ecological assets between now and the next workshop?



Social Vulnerability

1. Of the social vulnerability issues related to sea level rise, what are you most concerned about?

The economic impact.

Please use the space below to provide additional input, ideas, questions, and considerations for sea level rise planning in Venice.

ity plannin y Completed input forms can be mailed or emailed to:

Hagu Solomon-Cary Email Venice LCP@lacity.org 200 N. Spring St. Rm 763 Los Angeles CA, 90012

The online survey can be found at www.venicelcp.org under "Get Involved."

OPTIONAL: Please provide us with your contact information so we can keep you up-to-date on the Venice Local Coastal Program!

Name

Email

Address



PUBLIC WORKSHOP #3

Input Form

During group discussions, use the space below to record your perspectives, ideas, and questions. The Local Coastal Program project team will carefully review and consider all completed input forms as well as the workshop discussions during the sea level rise and coastal hazard planning for Venice.

| Infrastructure and Civic Assets |
|---|
| 1. What questions do you have about infrastructure and civic assets? What do you want to know more about? DOES OW Storm drain SYSTEM operate in reverse? (ie, Sunny Day Flooding'?) |
| 2. Regarding infrastructure and civic assets, what conclusions from the Vulnerability Assessment stand out for you and why? Venice alward has systems in place: purp startions of the field gates, increase redundancy by addity common in Solar to apport environ fer their approximation. Where purps of gates choryer bisgr. Faisl come away (do every this) 3. Do you have input for the team to consider as they develop specific adaptation measures for infrastructure and civic assets between now and the next workshop? We should think about bringing the old venice cands back design from for sea level rice issues way to clean water, support ecological habitant, recreation, tourism. |
| Property Assets |
| 1. What questions do you have about property assets? What do you want to know more about? Want to make Sure any public dellars spent are equitable dulistributed & do with 90 to sight family ownes only for instance. 2. Regarding property assets, what conclusions from the Vulnerability Assessment stand out for you and why? Portions of venice are inland and most relieved to what a wall of the standard of the second of |
| didn't surve that. 3. Do you have input for the team to consider as they develop specific adaptation measures for property assets between now and the next workshop? Need to the zoning policy Cheisutt dinsity) to adaptation mitigation solutions. i) Raise which in venire for 61 ts. bravial Density Minimums if you brild, you must provide certain to minimums if you brild, you must provide the formula to minimum it you brild, you must provide the formula to making! |
| certain # of units ? Our Pl Spread-out policy Not working! |



PUBLIC WORKSHOP #3

| Coastal | Amenities | Cultural | and Ecok | ogical Assets |
|---------|------------------|-------------------|----------|--|
| | | ACCOUNT OF STREET | | THE RESERVE OF THE PERSON NAMED IN COLUMN TWO IS NOT THE OWNER, THE PERSON NAMED IN COLUMN TWO IS NOT THE OWNER. |

| C | pastal Amenities, Cultural and Ecological Assets |
|----|--|
| | $What \ questions \ do \ you \ have \ about \ coastal \ amenities, cultural \ and \ ecological \ assets? \ What \ do \ you \ want \ to \ know \ more \ about?$ |
| | We need Green infrastructure: types that hold wother, plantity also that cleany/ spres most er, can be used for food. |
| | water, plantity also that cleary spres not ex, can |
| 2. | ever for you and why? |
| | We need to adapt, protect, adjust our Kninking. Change is coming of me have to be ready. |
| | charge is coming of me have to be ready. |
| 3. | Do you have input for the team to consider as they develop specific adaptation measures for coastal amenities, cultural and ecological assets between now and the next workshop? |
| | Need to protect lower income folks, support social & economic diversity |
| | support social & economic diversity |
| S | ocial Vulnerability |
| 1. | Of the social vulnerability issues related to sea level rise, what are you most concerned about? |
| | Public space on the beach is for |
| ŧ | everyone of are can't lose this! |
| | ease use the space below to provide additional input, ideas, questions, and considerations for sea level rise anning in Venice. |
| | |

Completed input forms can be mailed or emailed to:

Hagu Solomon-Cary

Venice LCP@lacity.org 200 N. Spring St. Rm 763 Los Angeles CA, 90012

The online survey can be found at www.venicelcp.org under "Get Involved."

| OPTIONAL: Please provide us with your contact information so we ca | in |
|--|----|
| keep you up-to-date on the Venice Local Coastal Program! | |

Name

Email

Addre



Infrastructure and Civic Assets

Sea Level Rise Workshop Series Venice Local Coastal Program **PUBLIC WORKSHOP #3**

Input Form

During group discussions, use the space below to record your perspectives, ideas, and questions. The Local Coastal Program project team will carefully review and consider all completed input forms as well as the workshop discussions during the sea level rise and coastal hazard planning for Venice.

| 1. | What questions do you have about infrastructure and civic assets? What do you want to know more about? |
|----|--|
| | |

| 2. | Regarding infrastructure and civic as | sets, what conclusions | from the Vulnerability | Assessment stand out | for you and wh | ıy? |
|----|---------------------------------------|------------------------|------------------------|----------------------|----------------|-----|
|----|---------------------------------------|------------------------|------------------------|----------------------|----------------|-----|

3. Do you have input for the team to consider as they develop specific adaptation measures for infrastructure and civic assets between now and the next workshop?

Property Assets

- 1. What questions do you have about property assets? What do you want to know more about?
- 2. Regarding property assets, what conclusions from the Vulnerability Assessment stand out for you and why?
- 3. Do you have input for the team to consider as they develop specific adaptation measures for property assets between now and the next workshop?



PUBLIC WORKSHOP #3

| Coastal Ameni | ties, | Cultural | and Eco | logical | Assets |
|---------------|-------|----------|---------|---------|--------|
|---------------|-------|----------|---------|---------|--------|

1. What questions do you have about coastal amenities cultural and acclariate and acclariate

| What cern I do Dolitudley Bladwid want to know more about? |
|---|
| Where will the incursions be? when? Publicity of |
| there events - Creditions |
| 2. Regarding coastal amenities, cultural and ecological assets, what conclusions from the Vulnerability Assessment stand |
| Atwhat foint, stage, in cursion height will pumps be activated? |
| 3. Do you have input for the team to consider as they develop specific adaptation measures for coastal amenities, cultural |
| and ecological assets between now and the next workshop? |
| Any Value in the tunnels from Venice |
| Pier to walled-up port in the basement of |
| Social Vulnerability |
| 1. Of the social vulnerability issues related to sea level rise, what are you most concerned about? addition to law |
| I just heard concern for the longe homeless |
| housing project being proposed more stress |
| on area. loss of water absorption - Area of |
| Please use the space below to provide additional input, ideas, questions, and considerations for sea level rise planning in Venice. |
| planning in Venice. Pell Ave, Venice Ausing Conformition Becky Dennison |
| |

Completed input forms can be mailed or emailed to:

Hagu Solomon-Cary

Venice LCP@lacity.org 200 N. Spring St. Rm 763 Los Angeles CA, 90012

The online survey can be found at www.venicelcp.org under "Get Involved."

| OPTIONAL: Please provide us with your contact information | n so we can |
|---|-------------|
| keep yo <mark>u up-to-date on the Venice Local Coastal Program!</mark> | |

Name

Email

Address