



COMMUNITY DEVELOPMENT DEPARTMENT SEA LEVEL RISE ADAPTATION PLAN SUBCOMMITTEE

October 23, 2018 Subcommittee Meeting #5

Meeting Topics

- A. Appointment of a Chair and Vice Chair
- B. Update on the Vulnerability Assessment and Economic Analysis
- C. Plan for Public Outreach
- D. Draft Guiding Principles for Adaptation
- E. Questions to be Answered in Adaptation Plan
- F. Upcoming Meetings



UPCOMING MEETINGS

Upcoming Meetings

- November 13th:
 - *Comments on Draft Vulnerability Assessment (will receive October 29th)*
 - *ESA presents adaptation strategies to be considered*
- November 27th:
 - *Possible additional work on adaptation strategies*

Upcoming Meetings

- December 11th:
 - *Results of public workshop and stakeholder meetings*
 - *Finalize input on:*
 - List of potential adaptation strategies to be analyzed
 - Scope of analysis of plan
 - Draft Guiding Principles for Adaptation

A. APPOINTMENT OF A CHAIR AND VICE CHAIR

B. VULNERABILITY ASSESSMENT & ECONOMIC ANALYSIS

Draft Vulnerability Assessment

- Subcommittee will receive October 29th
- Subcommittee comments November 13th
- Changes since September 25th:
 - *Additional modeling of Leadbetter and West Beach*
 - *Additional analysis of El Estero Wastewater Treatment Plant and piping.*

Economic and Fiscal Analysis

- Changes since September 25th:
 - *Valuation of public properties*
 - *Replacement costs of major public assets*
 - *Refined beach loss modeling*
 - *Analysis of El Estero Wastewater Treatment*
- Will be released in comprehensive report with Draft Adaptation Plan.

C. PLAN FOR PUBLIC OUTREACH

Two Main Public Outreach Time Periods

- November/December 2018:
 - *Results of Draft Vulnerability Assessment*
 - *Types of adaptation strategies to be evaluated*
 - *Anticipated scope of adaptation plan*
- *Spring 2019*
 - *Results of Draft Adaptation Plan*
 - *Input on City's priorities and preferred strategies*

Public Outreach in November/December

- Website (live November 26th):
 - *Interactive hazard maps*
 - *Draft Vulnerability Assessment*
 - *Information on types of impacts*
 - *Information on general types of adaptation strategies the plan will evaluate*

Public Outreach in November/December

- Press Release November 26th
- Notifications: Email to LCP list, LDT bulletin, City News, and website
- December 5th Public Workshop
- Stakeholder meetings November 26th-
December 10th.

D. DRAFT GUIDING PRINCIPLES FOR ADAPTATION

Purpose of Guiding Principles

- Establish a framework within which adaptation strategies should be consistent
- Will be used to narrow range of adaptation strategies evaluated in Adaptation Plan
- Will be modified through different steps of plan.
- Final set of principles will help prioritize adaptation strategies and City's next steps

1. Adaptation strategies shall minimize the risks of coastal hazards factoring in the effects of sea level rise.
2. Adaptation strategies shall be designed using best available science and technology.
3. Given the uncertainties associated with the impacts of sea level rise and climate change, and evolving science and practices, adaptation strategies shall be designed to be flexible, allow for adjustments in the future, and avoid unnecessarily prescriptive actions for addressing long term hazards.

4. Adaptation strategies shall be consistent with the State of California Sea Level Rise Guidance and California Coastal Commission Sea Level Rise Policy Guidance.
5. Adaptation strategies shall be consistent with federal and state laws.
6. Adaptation strategies shall be legally, technically, economically, and socially feasible.
7. Adaptation strategies that address near-term hazards shall not preclude or prevent implementation of adaptation strategies that address long-term hazards.

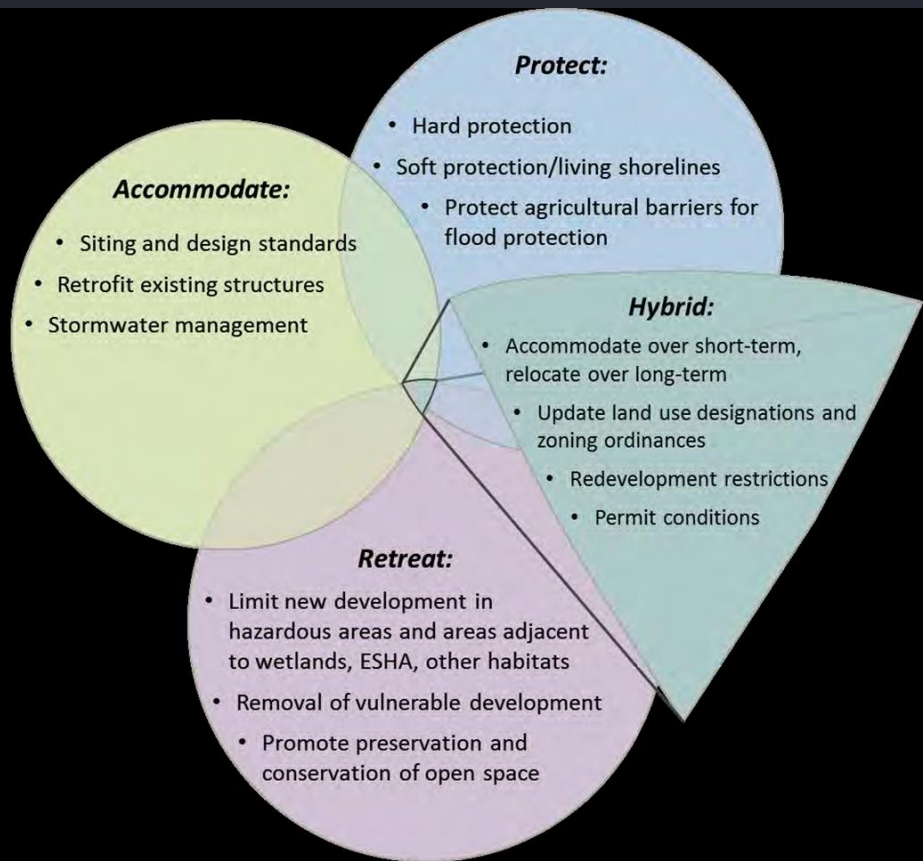
8. Adaptation strategies shall avoid, and where avoidance is not feasible, minimize the risks to development.
9. Encourage equitable sharing of the benefits and costs of sea-level rise and related hazards. Consider equity in selection and funding of adaptation measures.
10. Adaptation strategies that benefit a majority of the community should be encouraged over those measures that benefit only a few members of the community. If only a small sector of the community is to benefit, then adaptation strategies should not result in impacts (fiscally, economically, or other) to the larger community.

11. Avoid and, where avoidance is infeasible, minimize potential impacts to coastal resource (biological resources, water quality, scenic resources and public scenic views, archaeological resources, *etc.*).
12. Protect or replace public access to and along the shoreline, beaches, parks, open spaces, and recreational resources to the maximum extent feasible.
13. Avoid and, where avoidance is infeasible, minimize potential impacts to the local economy from sea-level rise and related hazards.

14. Ensure adaptation strategies are economically / fiscally sound.
15. Encourage adaptation strategies that have co-benefits such as greenhouse gas reduction, resiliency to other climate change impacts, habitat protection or creation, or economic improvement.
16. Prioritize adaptation strategies that:
 - a. Protect human life;
 - b. Protect or replace critical facilities, public transportation systems, and public services; and
 - c. Protect coastal-dependent and coastal-related development.

E. QUESTIONS TO BE ANSWERED IN PLAN

Adaptation Strategies



Anticipated Scope of Adaptation Plan

- Adaptation Strategies cost/benefit analysis:
 - Feasibility
 - Implications for extent and frequency of hazards
 - Impacts/benefits to public and private assets
 - Cost
 - Economic/fiscal benefits or impacts

Anticipated Scope of Adaptation Plan

- Adaptation Strategies cost/benefit analysis:
 - Environmental impacts
 - Impacts/benefits to coastal resources (public access, etc)
 - Legal constraints
 - Ease of implementation
 - Degree meets guiding principles

Anticipated Scope of Adaptation Plan

- Triggers for implementation
- Potential funding strategies
- Monitoring needed
- Additional studies/work needed

Questions To Be Answered

- Examples from staff:
 - *How often would we have to continue to rebuild Stearns Wharf? How does that cost compared to economic/fiscal impacts of removing it?*
 - *Can we redesign El Estero in place or do we need to move it?*
 - *Will the existing floodplain building regulations suffice or do we need new ones?*

Future Studies Needed

- Examples from staff:
 - *Detailed facility specific analysis for El Estero Wastewater Treatment Plant*
 - *Groundwater impacts and impacts from saltwater intrusion (corrosion of pipes etc.)*
 - *How changes to weather patterns will impact fluvial flooding*

QUESTIONS?
