



Climate Ready O'ahu

Community Advisory Hui Meeting #4
December, 7 2021



Virtual Meeting Guidelines



Please stay muted unless you're actively speaking



React or provide nonverbal feedback at any time



To ask a question, type your question into the chatbox
OR
wait until a Q&A pause



Allow other participants the space to speak



Tech isn't always perfect — thank you for your patience!



Agenda

1. Welcome and Advisory Member Roster Updates
2. Acceptance of Notes from Meeting #3
3. Climate Ready O'ahu Project Updates
4. Discussion on Adaptation Strategies and Sectors
5. Public Input for Matters Not on the Agenda
6. Tentative Next Meeting Date
7. Adjournment





3. Climate Ready O'ahu Project Updates

Department-specific strategies

Adaptation Pathways and Integrations

Capital Improvement Project (CIP) Integration

Meetings with Depts

Equity screen virtual community workshop

Draft Climate Equity Index

Climate Adaptation Polling (Daniel Nāho'opi'i)

Partnership with Mālama Learning Center (Pauline Sato)





3. Climate Ready O'ahu Project Updates

Climate Adaptation Polling (Daniel Nāho'opi'i)





3. Climate Ready O'ahu Project Updates

Partnership with Mālama Learning Center (Pauline Sato)





3. Climate Ready O'ahu Project Updates

CRO is our City's first adaptation strategy!!

Current Structure:

- Climate Hazards
- Department specific strategies

Proposed New Structure:

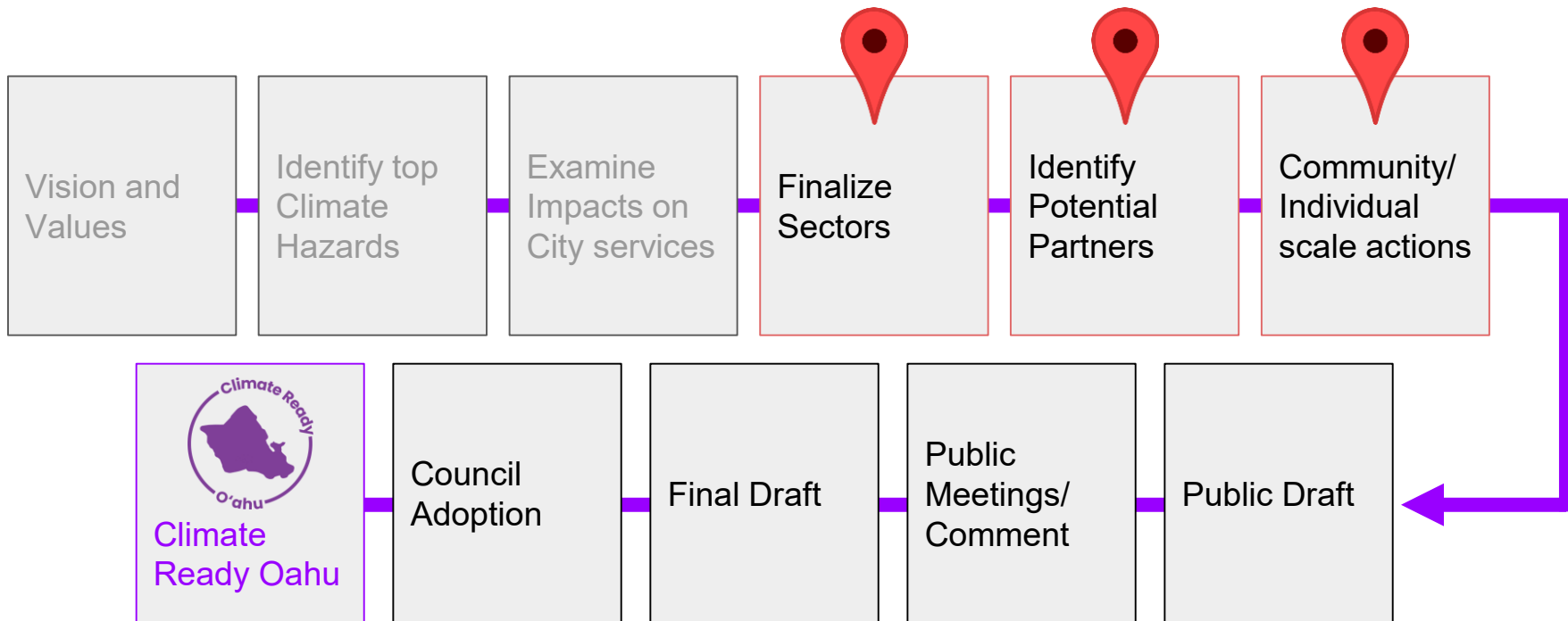
- Climate Risks and Impacts
- From department strategies to sectors
- Integration of equity & community into adaptation actions





3. Climate Ready O'ahu Project Updates

We are here!





3. Climate Ready O'ahu Project Updates

Climate Ready O'ahu seeks to ensure the safety of the people, mālama 'āina, protect the culture of our communities, and promote local economic prosperity, while responding to the island's climate threats and impacts through community and data driven strategies.





4. Discussion on Adaptation Sectors & Strategies

We reviewed dozens of adaptation plans and coded actions from within the existing 60 strategies to identify six overarching sectors:



Buildings



Connected and Prepared
Communities



Health and Food
Security



Governance



Utilities, Mobility, and
Transportation



Natural Environment



4. Discussion on Adaptation Sectors & Strategies

Breakout Room Part 1: Sector Check

- When reviewing the strategies from the spreadsheet, do the sectors make sense?
- Are any sectors unclear and/or missing?
- Are you/your organization working on climate adaptation in any of these sectors?

Breakout Room Part 2: Strategy + Actions

- What do the actions from within a strategy look like?
- Are there action opportunities for the City to be working more collaboratively with others?
- What are other important adaptation actions that need to happen that may fall outside of the City?





5. Public Input for Matters Not on the Agenda

Questions?





6. Tentative Next Meeting Date

Looking Ahead:

- Finalize the contract with ICF (contractors)
- Conduct community engagement in partnership with Mālama Learning Center
- Incorporate communication, individual actions, and partnerships
- Finalize and review the draft, send out for public comment
- Adoption of the Strategy by City Council

May 2022?

Public workshops always open.





Mahalo!

After this meeting:

Review the strategies and actions for your requested sector(s), provide feedback and help identify active partners



Appendix A: Climate Adaptation Strategies by Sector
 Community Advisory Hui Meeting No. 4
 Draft: November 30, 2021

Primary Sector	Secondary Sector	Strategy
Buildings	Utilities, Mobility, and Transportation	Prepare for physical impacts to City real property interests from flood risks
Buildings	Utilities, Mobility, and Transportation	Prepare for financial impacts to City real property interests from climate hazards
Buildings	Utilities, Mobility, and Transportation	Increase the resilience of facilities and assets to flooding and wind
Buildings		Increase resilience of facilities and assets to flooding, erosion, and wind
Buildings		Increase resilience of facilities and assets to increasing temperature and extreme heat
Buildings		Increase resilience of facilities and assets to decreasing precipitation
Buildings		Enhance the resiliency of City-owned buildings and managed housing to increasing temperatures and heat wave events
Connected and Prepared Communities	Governance	Use cultural resources adaptation plan to guide resilience work
Connected and Prepared Communities	Health and Food Security	Ensure equitable evacuations in advance of hurricanes
Connected and Prepared Communities	Utilities, Mobility, and Transportation	Strengthen holistic understanding of climate impacts, risks, and priorities and incorporate across all BWS programs and water systems
Connected and Prepared Communities		Increase public awareness of climate change risks
Connected and Prepared Communities		Use zoo programming to support public climate change education needs
Connected and Prepared Communities		Provide resources for communities to become more climate resilient
Connected and Prepared Communities		Ensure climate resilience actions are informed by community needs, engage the public, are equitable, and do not cause maladaptation
Connected and Prepared Communities		Ensure all O'ahu communities have strong social cohesion and health supports and are prepared for climate impacts
Governance	Buildings	Ensure insurance coverage decisions consider potential risks and liabilities associated with increasing climate hazards
Governance	Connected and Prepared Communities	Maximize capacity to fund climate resilience work by bridging the gap between funding availability and needs, and identifying and managing obstacles within the funding system
Governance	Connected and Prepared Communities	Integrate climate change hazards into the community planning process
Governance	Connected and Prepared Communities	Ensure planning processes enable other actors to effectively conduct climate resilience work
Governance	Connected and Prepared Communities	Strengthen collaboration and communication among departments and external actors to facilitate effective climate resilience work
Governance	Natural Environment	Reflect climate resilience best practices in land use policies and ensure enforcement
Governance	Utilities, Mobility, and Transportation	Ensure cost-effective maintenance efforts
Governance		Update emergency response plans to account for increased frequency and intensity of extreme events, to protect health and safety and support infrastructure resilience
Governance		Maintain motivation and capacity to advocate for and act on climate risk management over the long-term
Governance		Support other departments by helping them plan for future resilience funding needs
Governance		Expand emergency response capacity of City departments and partners
Governance		Contribute to emergency response efforts
Governance		Maintain capacity to provide operations and services in extreme events
Governance		Implement data- and community-informed climate resilience work
Governance		Use tax and market tools and City funds to mitigate storm and flooding impacts
Governance		Ensure all climate resilience actions around the island are informed by the same key data, priorities, and guidance, and support other departments' climate resilience work
Governance		Update the Hazard Mitigation Plan (HMP) to more thoroughly include climate change
Health and Food Security	Natural Environment	Manage drought, heat, and decreasing rainfall affecting water availability
Health and Food Security	Natural Environment	Manage health and environmental impacts of rising temperatures
Health and Food Security		Ensure safety of public and DES staff during flood events
Health and Food Security		Continue to provide safe and enjoyable recreation spaces under projected higher temperatures
Health and Food Security		Reduce public health risks that are exacerbated by climate change
Natural Environment	Connected and Prepared Communities	Support Native Hawaiian traditional land management practices (e.g., salt cultivation, fishpond maintenance) that are facing impacts from erosion and increased flooding
Natural Environment	Governance	Explore innovative funding mechanisms for sea level rise and coastal erosion mitigation measures
Natural Environment	Utilities, Mobility, and Transportation	Enhance groundwater recharge, reuse, and conservation
Natural Environment	Utilities, Mobility, and Transportation	Increase golf courses' flood resilience through use and protection of natural resources
Natural Environment	Utilities, Mobility, and Transportation	Increase parks' flood resilience
Natural Environment		Maintain City's capacity to manage wildland fire risk under all conditions
Natural Environment		Enhance the resiliency of vulnerable forests, beaches, coastal areas, and agricultural lands
Natural Environment		Develop best practices to support climate resilience in land management for assets and property
Natural Environment		Increase coastal park resilience and prepare for increased costs of beach and coastal park maintenance
Natural Environment		Increase parks' ecological function and reduce maintenance costs and resource use
Natural Environment		Increase tree plantings and tree cover
Utilities, Mobility, and Transportation	Buildings	Design and construct City infrastructure to be resilient to wind, flooding, erosion, and increased heat
Utilities, Mobility, and Transportation	Buildings	Manage the higher costs of conducting maintenance and construction due to climate vulnerabilities

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Utilities, Mobility, and Transportation	Buildings	Maintain and upgrade built and natural infrastructure to increase their ecological function and reduce maintenance costs and resource use under warmer, drier conditions
Utilities, Mobility, and Transportation	Buildings	Ensure DES facilities and assets are able to maintain operations during extreme events
Utilities, Mobility, and Transportation	Buildings	Protect wastewater system infrastructure from damage and disruption
Utilities, Mobility, and Transportation	Governance	Ensure functionality of critical infrastructure
Utilities, Mobility, and Transportation	Governance	Ensure operational redundancy within the transportation system to provide continued mobility during and after an extreme weather event
Utilities, Mobility, and Transportation	Health and Food Security	Ensure public transit assets (e.g., bus depots and stations) are accommodating for users during heat events
Utilities, Mobility, and Transportation		Improve the City's ability to provide for increased energy demand while considering energy efficiency
Utilities, Mobility, and Transportation		Maintain wastewater system operations during and after climate-driven events
Utilities, Mobility, and Transportation		Maintain trash, disposal, and recycling services
Utilities, Mobility, and Transportation		Maintain stormwater infrastructure and operations

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