

CARE Committee

From: Makale'a Ane <makaleaane@gmail.com>
Sent: Wednesday, September 01, 2021 10:39 AM
To: care.committee@mauicounty.gov; CARE Committee; Nicole A. Siegel
Subject: Presentation for today
Attachments: CoM Resilience Strategy 9.1.21.pdf

Follow Up Flag: Follow up
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Some people who received this message don't often get email from makaleaane@gmail.com. [Learn why this is important](#)

Aloha,

My County email is acting up so I am sending my presentation from my personal email.



MAYORS OFFICE OF
CLIMATE CHANGE
RESILIENCY, AND
SUSTAINABILITY

KE'ENA O HOHOLU

COUNTY OF MAUI RESILIENCE STRATEGY

DEFINITION OF RESILIENCE

THE ABILITY TO ADAPT AND THRIVE
TO SHOCKS AND STRESSORS

EXACERBATED BY CLIMATE CHANGE

....ABILITY

.....ADAPT

.....THRIVE

.....SHOCKS

.....STRESSORS



FRONTLINE COMMUNITIES

UNDERSERVED POPULATIONS

VULNERABLE POPULATIONS

Impacts on Equity

- Vulnerability to the impacts of climate change and the capacity to adapt to these changes is highly uneven across communities
- Frontline communities are often disproportionately affected by the impacts of climate change
- Implementation strategies need to ensure inclusivity, especially of frontline communities and underserved populations

Frontline Communities

(aka vulnerable populations, historically disadvantaged)

- Low-income residents
- People with disabilities
- People with mental illness
- Seniors/kupuna children
- People without access to vehicles
- Visually/hearing impaired
- People dealing with substance abuse
- Non-native English speakers
- Undocumented immigrants
- Refugees
- Those without the ability to access resources in a crisis (ie. Family, friends, financial resources)

COUNTY OF MAUI RESILIENCE SURVEY

RESILIENCY HUI

CROSSWALKING

COMMUNITY INPUT



County of Maui Resilience Survey (How can Maui adapt in a crisis?)

The County of Maui is seeking public input on how Maui County can become more resilient.

Resilience is the capacity to survive, adapt, and thrive no matter what kinds of chronic stresses (housing shortage, income inequality, sea level rise, etc.) and acute shocks (storm pandemic, earthquake, etc.) our island experiences.

Your survey answers will only take 10 minutes and will help ensure that we address the areas where you think Maui County is most vulnerable, and shape a Resilience Strategy that will guide our efforts over the coming years.

* Required



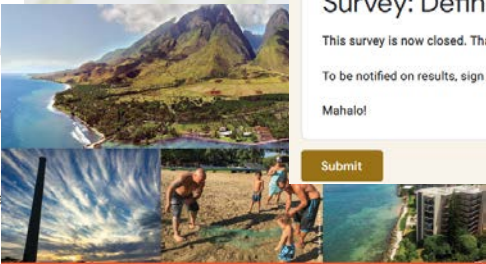
Survey: Defining the "New Normal"

This survey is now closed. Thank you!

To be notified on results, sign up with Council Chair Lee's newsletter at maui@maui.us/lee

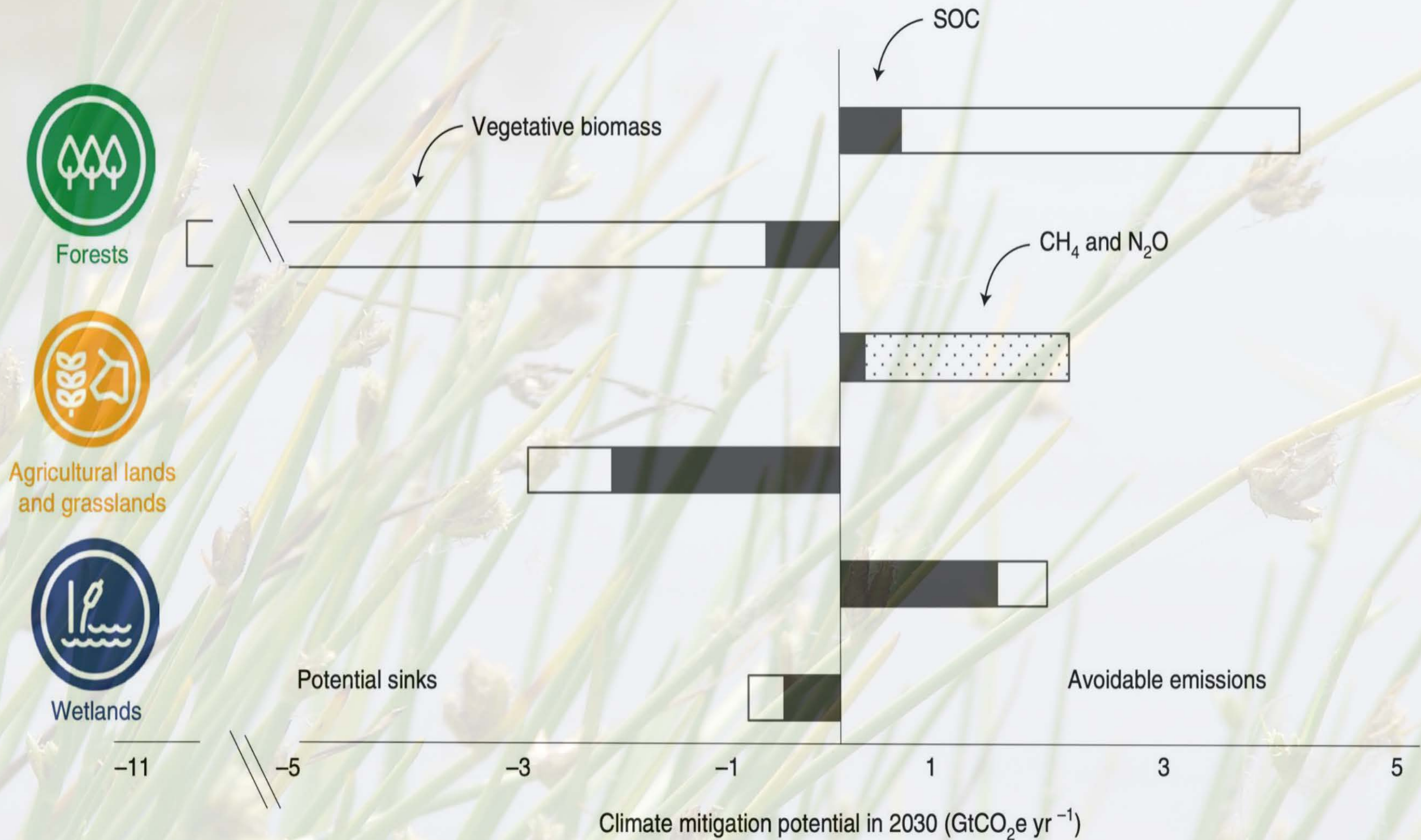
Mahalo!

Submit



CoM Resiliency Development			CoM Resiliency Strategy	CoM Resiliency Strategy 2019	CoM Resiliency Strategy 2003	CoM Resiliency Strategy 19907	CAR Working Group
Note: I took these action steps directly from the source document and have not altered or reworded in any way. After initial review I will customize if for Maui's Resiliency Strategy			X Does this still apply? Put an "X" if this should be included in the CoM RS				
Maui County (Necessities: Food, Water, Shelter, Income)							
FMN2005	Goal 3	Supporting Affordable Housing Development		X	X		
CBCH RS	Res Goal 1	Addressing Infrastructure Challenges, especially Transportation and Housing					
CBCH RS	Res Goal 1	Support Action 1		X			
CBCH RS	Res Goal 1	Support Action 2		X			
CBCH RS	Res Goal 1	Support Action 3		X			
FMN2003	Goal 4	Address Priority 3			X		
CBCH RS	Res Goal 1	Support Action 4		X			
CBCH RS	Res Goal 1	Support Action 5		X			
CBCH RS	Res Goal 2	Reducing Additional Costs		X			
CBCH RS	Res Goal 2	Expand Housing and Energy Transformation by Accelerating the Permitting Process		X			
CBCH RS	Res Goal 2	Reduce Utility Costs for Residents through Transparency and Disclosure		X			
CBCH RS	Res Goal 2	Reduce Action 8		X			
CBCH RS	Res Goal 3	Improving Economic Opportunity		X			
FMN2006	Goal 4	Strengthening the Economy					
CAR WG	Goal 3	Industry					X
CBCH RS	Res Goal 3	Improve Action 9		X			
CBCH RS	Res Goal 3	Improve Action 10		X			
CAR WG	Goal 13	Other OTHER					X
CAR WG	Goal 3	Resilient Priority 3					X
CAR WG	Goal 4	Industry Priority 5					X
CAR WG	Goal 5	Industry Priority 9					X
CAR WG	Goal 6	Industry Priority 10					X
FMN2003	Goal 7	Resilient Priority 6					
FMN2003	Goal 8	Strengthen and improve education, kindergarten through college, for all students					
FMN2003	Goal 5	Address Priority 4		X			
FMN2003	Goal 8	Resilient Priority 6					
FMN2003	Goal 11	Improving Education					
FMN2003	Goal 9	Resilient Priority 6					
FMN2003	Goal 10	Promote the health and take steps to ensure all have access to healthcare					
CAR WG	Goal 15	Other OTHER					X
Maui County (Elements: Ocean, Land, Climate)							
CoMRH	Action 2	New Layer in Zoning Code, title 18, relating to water	X				
CoMRH	Action 1	Package CIP projects together as resiliency projects (when presenting to the council) and/or creating state	X				
CoMRH	Action 3	Identify opportunities/consider Green, Blue, Gray infrastructure	X				
CoMRH	Action 4	Encourage County plans for opportunities to leverage building/infrastructure etc	X				
CoMRH	Action 5	Explore Cost avoidance, cost of inaction, integrate cascading impacts, effects on people	X				
CoMRH	Action 6	Planning for resiliency integration into All Hazards Mitigation Plan	X				
CoMRH	Action 7	Consider Vulnerability Study for DEM facilities	X				
CoMRH	Action 8	Climate Action Plan	X				
CoMRH	Action 9	Amending 205A, no building in historic area	X				
CoMRH	Action 10	Highways Division, Coastal Study (already funded)	X				
CoMRH	Action 11	Committed to renewable energy goals for public transportation by 2035 and electric buses	X				
CoMRH	Action 12	Consider Opt-Out programs	X				
CoMRH	Action 13	Land use design guides	X				
Boi GOAL 1	Pre-Disaster Preparation						
CBCH RS	Boi GOAL 1	Pre-Disaster Action 11		X			
CBCH RS	Boi GOAL 1	Pre-Disaster Action 12		X			
CBCH RS	Boi GOAL 1	Pre-Disaster Action 13		X			
CBCH RS	Boi GOAL 1	Pre-Disaster Action 14		X			
CAR WG	Goal 5	Resilient Priority 14					X
CAR WG	Goal 12	Other OTHER					X
CAR WG	Goal 16	Other OTHER					X
Boi GOAL 2	Effective Disaster Response						
CAR WG	Goal 18	Other OTHER		X			X
CAR WG	Goal 6	Resilient Priority 15					X
CAR WG	Goal 17	Other OTHER					X
CBCH RS	Boi GOAL 2	Effective Action 15		X			
CBCH RS	Boi GOAL 2	Effective Action 16		X			
CBCH RS	Boi GOAL 2	Effective Action 17		X			
CBCH RS	Boi GOAL 2	Effective Action 18		X			
CBCH RS	Boi GOAL 3	Successful Disaster Recovery		X			
CBCH RS	Boi GOAL 3	Successful Disaster Recovery		X			
Clii GOAL 1	Clean Energy Economy						
CAR WG	Goal 1	Fossil Fuel Reduction					
CAR WG	Goal 2	Fossil Fuel Reduction					
CBCH RS	Clii GOAL 1	Clean Energy Economy		X			
CBCH RS	Clii GOAL 1	Clean Energy Economy		X			
CAR WG	Goal 14	Other OTHER					X
CAR WG	Goal 3	Fossil Fuel Reduction					X
CAR WG	Goal 7	Industry Priority 12					X
CBCH RS	Clii GOAL 1	Clean Energy Economy		X			
CAR WG	Goal 8	Industry Priority 13					X
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CAR WG	Goal 4	Fossil Fuel Reduction					X
CAR WG	Goal 8	Other OTHER					X
Clii GOAL 2	Clean Ground Transportation						
FMN2005	Goal 3	Addressing Infrastructure Challenges, especially Transportation and Housing					
CBCH RS	Clii GOAL 2	Clean G Action 24		X			
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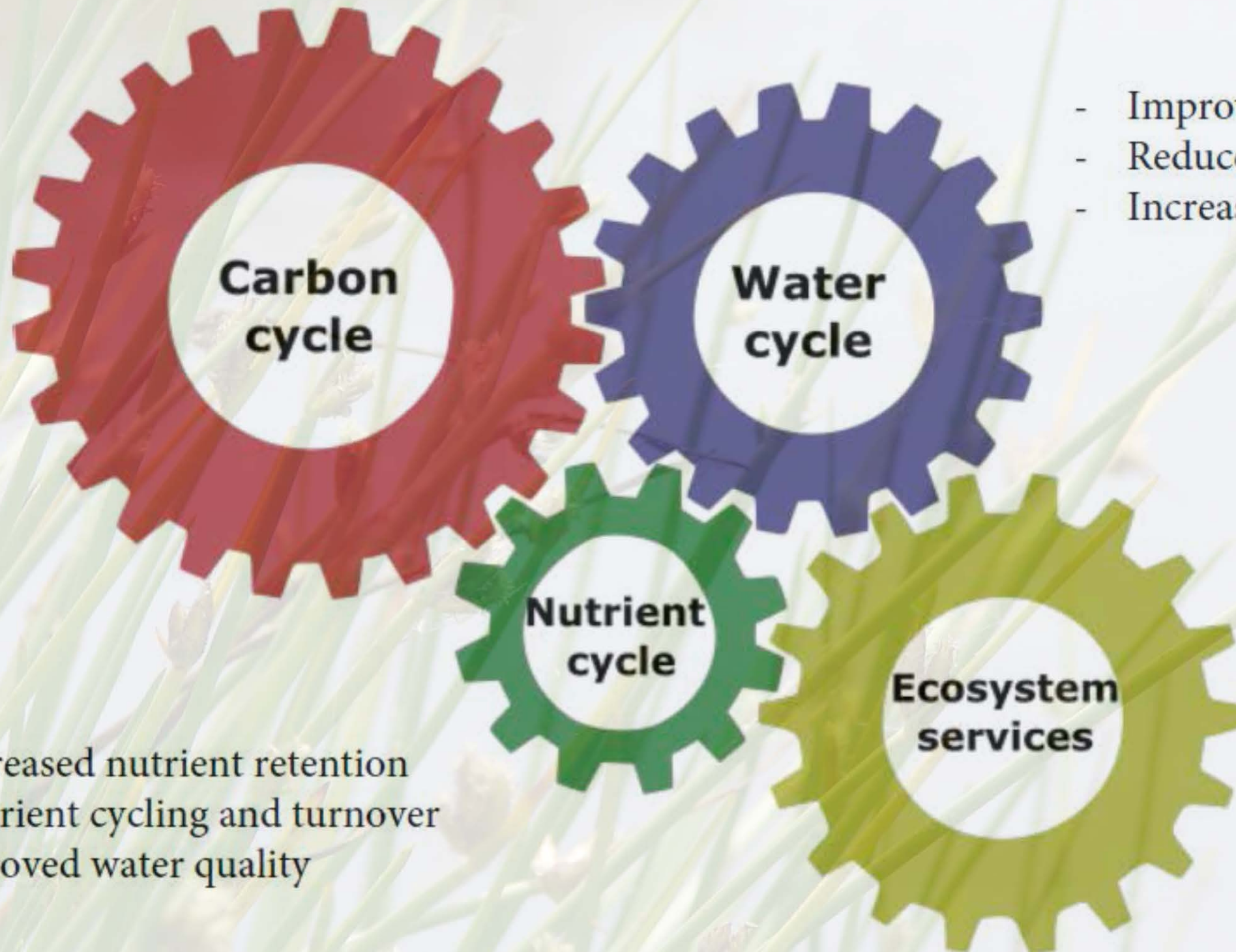
INVESTING IN RESILIENCE
TEK
NATURE BASED SOLUTIONS



INVESTING IN RESILIENCE

TEK

NATURE BASED SOLUTIONS



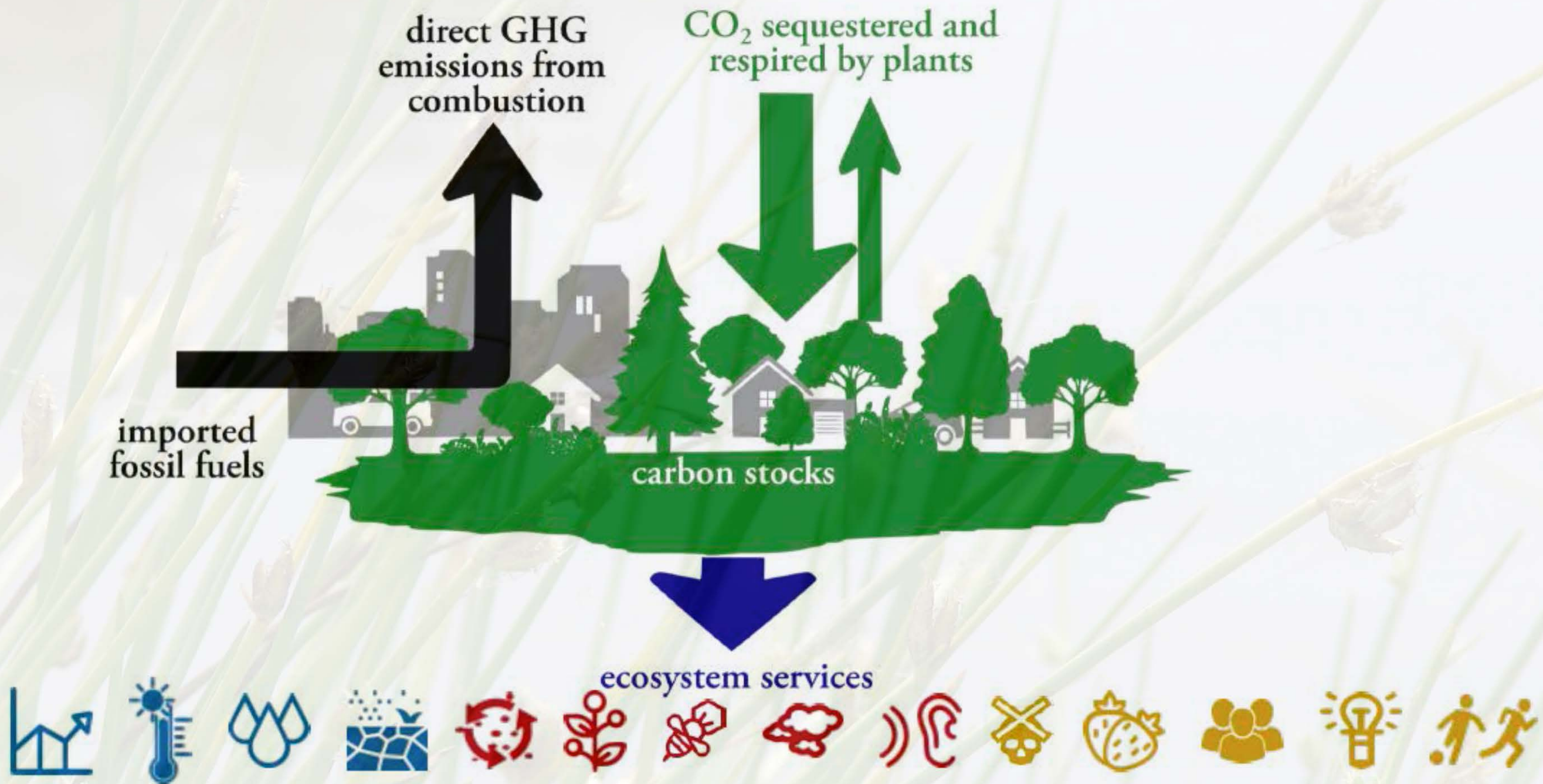
- Improved water infiltration
- Reduced erosion
- Increased water holding

- Increased nutrient retention
- Nutrient cycling and turnover
- Improved water quality

INVESTING IN RESILIENCE

TEK

NATURE BASED SOLUTIONS



When carbon stocks are increased by strategic management of natural assets, GHG emissions decrease, sequestration increases, and the provision of ecosystem services is enhanced.

INVESTING IN RESILIENCE TEK NATURE BASED SOLUTIONS

Climate Regulation & Resilience



Climate regulation



Temperature moderation



Water flow and retention



Soil health & erosion prevention

Social Benefits



Reduced toxins



Food supply



Cultural & aesthetic values



Education & cognitive development



Recreation, mental & physical health

Environmental Services



Nutrient cycling & management



Biodiversity & habitat



Pollination & biological pest management



Air purification



Noise reduction



COUNTY OF MAUI RESILIENCE STRATEGY

ACTION STEPS

How to Read an Action

The Resilience Strategy includes four pillars, 12 goals, and 44 actions for our community, partners, and the City to implement.

Pillars → Goals → Actions

ACTION DESCRIPTION

Each description presents specific policies or programs the City and its partners will deploy to help achieve resilience goals, as well as important context that explains why the Action is needed.

RESILIENCE CO-BENEFITS

Demonstrates how the action has multiple benefits to make O'ahu stronger and better able to withstand multiple shocks and stresses.

PARTNERS

Implementation partners include key public, private, nonprofit and civic collaborators that will advance the Resilience Strategy actions in the years ahead. Partnership is not exclusive and meant to be a starting point. The lead agency or partner spearheading the action is in bold. As presented in the Resilience Strategy, partners currently only represent government agencies and organizations represented on the Steering Committee. We look forward to more partner collaboration ahead!

TIMEFRAME

The timeframe for implementing each action is identified as Immediate (0-1 years), Short-term (1-2 years), Mid-term (2-5 years), and Long-term (5+ years).

ALOHA+ CHALLENGE

The Aloha+ Challenge sustainability goal(s) that aligns with this action. For more information, visit aloha-challenge.hawaiigreengrowth.org

UN SUSTAINABLE DEVELOPMENT GOALS

The United Nations Sustainable Development Goal(s) that aligns with this action. For more information, visit sustainabledevelopment.un.org/sdgs

MEASURES OF SUCCESS

Quantitative ways to measure progress toward the goal, which can be measured on a regular basis.

SPOTLIGHT

A global or local example, or an idea that can further resilience on O'ahu.

Pillar III CLIMATE SECURITY

GOAL 2: Clean Ground Transportation

Action 25

Accelerate Carbon-Free New Mobility Options

► **The cost of transportation** is 34 percent higher for O'ahu residents than the national average. Micro-mobility has the potential to vastly reduce transportation expenses and greenhouse gas pollution on O'ahu. In 2017 there were 786,382 registered vehicles for Honolulu's driving-aged population of 781,033. This collection of cars, vans, pickups and other trucks, and motorcycles and mopeds outnumbers the amount of people who can operate them. More than 80 percent of these vehicles are single occupancy vehicles (SOVs) and approximately 90 percent gasoline-powered. For local commutes, 67 percent of commuters drive SOVs, while 14 percent carpool, 7 percent use public transit, 5 percent walk, 5 percent work at home, and 4 percent use other means of travel. Due to our island geography, land-use patterns, and concentration of jobs in the primary urban core, the proliferation of SOVs leads to traffic congestion and commute times that are among the worst in the nation. Ground transportation produces 20 percent of our greenhouse gas pollution on island. This takes a toll not only on our quality-of-life, health, and well-being, but also on our wallets.

To address these issues, the City is committed to Transit-Oriented Development along the new 20-mile, 21-station rail transit system, and aims to develop a Carbon-Free Corridor to maximize clean and sustainable new mobility options for residents and commuters. The City will:

- Convene a New Mobility Working Group to implement a network of clean and sustainable micromobility options such as e-scooters, bike share, car share, and other dockless technologies.
- Identify opportunities to increase service in areas that would result in significant reductions in personal vehicle use, as well as improved transit access to high-need populations (e.g., based on age, economics, and equity).

The Administration will develop a transportation demand management policy which will include provisions for carpool/vanpool and bicycle parking, trip reduction plans, and transit-supportive infrastructure development. The City will implement TOD strategies that require developers to provide connectivity and streetscape improvements in return for bonus height and density waivers. The City will develop a single transit "wayfinding app" to simplify route choice as well as a tap card to facilitate payment and transfers across all modes of transit. The City will also increase the amount of protected bike lanes by 40 percent over the next four years, which will serve as a safe conduit for not only bikes but multiple new micromobility options for island residents.

Resilience Co-Benefits +
Implementing new mobility options will improve affordability and reduce greenhouse gas emissions by providing zero emission low-cost transportation as a viable alternative to fossil-fueled SOVs. It will save time for residents by reducing congestion and time searching for parking; improve air quality, health and well-being; and re-connect communities with each other and our island home. It will empower residents and improve our economy by conveniently and affordably connecting housing to job opportunities, especially in our primary urban core.

Lead & Implementing Partner(s)

Department of Transportation Services, DDC, DFM, DIT, DPP, HART, Resilience Office, Elemental Excelsior

Timeframe

Immediate

Aloha+ Challenge

CLEAN ENERGY

UN SDG

CLIMATE ACTION
SUSTAINABLE CITIES AND COMMUNITIES

Performance Metrics

- Increased public transit mode share
- Increased number of bus passes/Holo passes purchased
- Reduced commute times and congestion

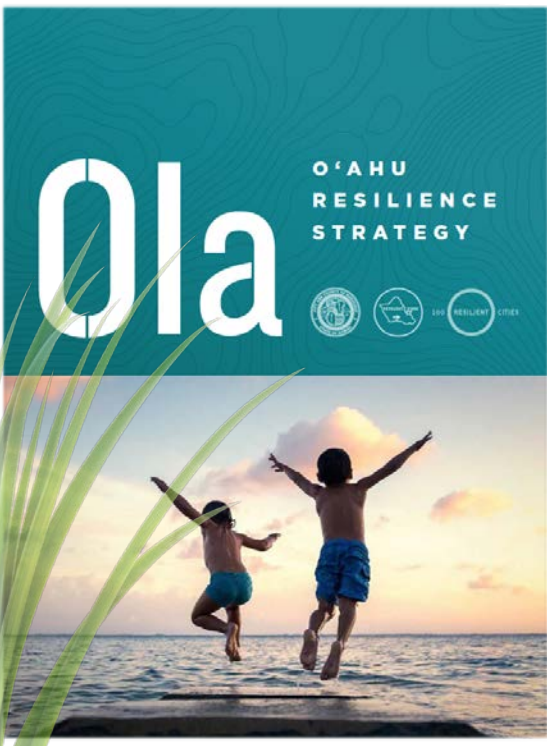
SPOTLIGHT

O'ahu Residents Want to Bike

After only six months in operation, Biki Bikeshare in Honolulu was the 8th most heavily used bikeshare system in the U.S. In its first year alone, Biki users logged 838,662 total rides—64 percent of which were by O'ahu residents. In 2018 that number kept rising, with users logging in more than 1 million rides at 2.8 rides per bike per day, compared to the industry average of 1.7. Biki riders report other perks: 27 percent lost weight and eight percent reduced their cost of living by eliminating a car from their household. As of May 2019, Biki was named the 6th most used bikeshare system in the nation. It's clear that Biki's success is happening despite poor bik-



are also lower than the national benchmark. O'ahu needs a significantly expanded bicycle network to meet the micromobility



COUNTY OF MAUI RESILIENCE STRATEGY

Pillars → Goals → Actions

*Pillars = Piko

MALAMA KANAKA

FOOD, WATER, HOUSING, CAREER OPPORTUNITY

MALAMA HONUA

EARTH PROCESSES: CLIMATE ACTION POLICY &
PLANNING

MALAMA OLA

SELF -CARE, HEALTHY COMMUNITIES, RELIGION AND
CULTURAL PRACTICES

COUNTY OF MAUI RESILIENCE STRATEGY

PILLAR MALAMA KANAKA

1. Land use design guides, minimal standards include LID, Complete Streets, and other triple benefit principles
2. Catalyze the construction and retrofit of healthy resilient zero-carbon buildings
3. Invest in ecosystem regeneration access
4. Promote circular economy pathways
5. Affordable Housing buy back program (to keep Affordable Housings affordable), addresses loophole in the system
6. 1st time homebuyers program (highlight this program and seek matching funds from OHA, build out partnership with DHHL, developers)
7. Agriculture Housing (build program for farmers to live on farm, tiny homes. Identify solutions with Planning to deter gentlemen's estates... does this need stricter policies for enforcement, guidance for how to accomplish tiny home community, water and sewage options)

COUNTY OF MAUI RESILIENCE STRATEGY

PILLAR MALAMA HONUA

1. 100% Water Reuse (Starting in West Maui)
2. Accelerate an equitable transition to clean energy sources
3. CIP projects based on Resilience Standards
4. Manage climate and environmental risk and reduce exposure disparities through land use and infrastructure development policies and code updates. (Code amendments that integrate resiliency standards example: Amending 205A, no building in historic area or SLRX-A+ (we can do better). Overlay Districts, new layer in Zoning Code, title 19 relating to water, etc)
5. Identify opportunities/consider Blue, Grey, Green infrastructure
6. All Hazards Mitigation Plan, integrate climate change and resilience (ongoing)
7. County Wide Vulnerability Assessment
8. Climate Action Plan
9. Paperless Policy for County Operations (Federal Memorandum M-19-21)



COUNTY OF MAUI RESILIENCE STRATEGY

PILLAR MALAMA HONUA

- 10. Committed to renewable energy goals for public transportation by 2035 and electric buses
- 11. County Fleet Electrification
- 12. Siting of Renewable energy project with respect to culturally important resources, low income populations, and natural resources (Important Ag lands and wetlands)
- 13. Use of Native Plants in Public Landscaping, update Noxious Weed List (Act 233 SLH 2015 (HB 206 HD2, SD1, CD1): SECTION 2)



COUNTY OF MAUI RESILIENCE STRATEGY

PILLAR MALAMA KANAKA

1. All government documents available in 'Ōlelo Hawaii
2. Upgrade broadband access and reliability for under-served populations
3. Develop satellite kitchens and school farms for Farm to School produce. (Problems DOE procurement policies Solutions 1) Satellite restaurants will prepare farm fresh food, they work with local farmers so cafeterias are relieved of this burden and satellite kitchen can buy food locally 2) Designate farms that already host students at their farms for curriculum as "School Farms". These farms can then provide produce directly to the school for inclusion in school meals)
4. Accelerate the transition to clean, accessible and equitable mobility systems
5. Riparian Buffer Zones and setbacks. Green corridors and access to auwai
6. Resilience Hubs

ACTIONS

RESILIENCE HUBS





EDA Grant

- Economic or Opportunity Zone
- Hana, Molokai, Wailuku, Moloka'i
- Community needs identified by the community

O'AHU RESILIENCE HUBS
Help Prevent the Spread of COVID-19 in Hawai'i

Personal protective equipment (PPE) donations are being accepted during listed times for each location.

Behavioral health workers and social service providers across the state should visit bhhsurg.hawaii.gov to make a request for donated PPE. Sorry, no walk-in requests at the Resilience Hubs are accepted at this time.

 MASKS FACE SHIELDS DISPOSABLE GLOVES GOGGLES

The Salvation Army Kroc Center Hawai'i 91-3257 Kualakai Parkway Ewa Beach, HI 96706 Hours: Mon – Fri, 9:00 am – 12:00 pm Phone: (808) 682-5505	KEY Project 47-200 Waihee Road Kāne'ohe, HI 96744 Hours: Mon – Fri, 9:00 am – 12:00 pm Phone: (808) 239-5777	Kalihi YMCA 1335 Kalihi Street Honolulu, HI 96819 Hours: Mon – Fri, 9:00 am – 11:00 am Phone: (808) 848-2494
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