

EACP Committee

From: Vong, Uyen <uvong@honolulu.gov>
Sent: Monday, September 16, 2019 3:17 PM
To: EACP Committee
Subject: EACP-26 Presentation

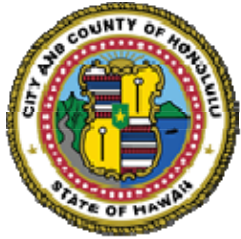
Aloha,

Please find attached Director Stanbro's presentation deck for the EACP Committee meeting on September 17, 2019.

PowerPoint Version: <https://drive.google.com/file/d/1OWRX-l1U1Lq6QNQGWN4rjmB580iCUQf-/view?usp=sharing>

PDF Version: https://drive.google.com/open?id=1_5QAYaoMGdrtWzTC8Mi2Twv1ZbuiCHID

Uyen



Uyen T. Vong
Office Manager | Outreach Specialist

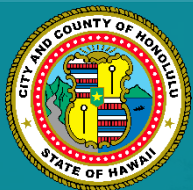
Office of Climate Change, Sustainability and Resiliency
925 Dillingham Boulevard, Suite 257, Honolulu, HI 96817
resilientoahu.org | uvong@honolulu.gov
O: (808) 768-2277
D: (808) 768-4947



The City and County of Honolulu has a new Resilience Strategy! Take a quick look [HERE](#).



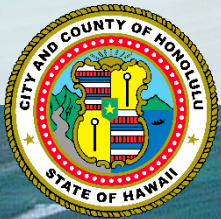
O'ahu Resilience Office Development & Overview



City and County of Honolulu

Office of Climate Change, Sustainability and Resiliency





History and Formation

2015-2016 Charter Commission

Jessie Souki (Chair); David Rae (Chair)

Nearly 150 proposals → 20 Final

National Research led to New York Model

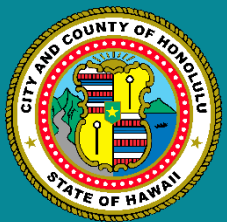
2016 Charter Amendment Question #7: Should the city use its powers to serve the people in a sustainable and transparent manner and to promote stewardship of natural resources for present and future generations, and should the city create an Office of Climate Change, Sustainability and Resiliency?

Yes 157,215

No 109,389



Mandate from O'ahu Voters



The Resilience Office is a Charter-mandated City office created to respond to climate change, resilience, and other sustainability challenges.



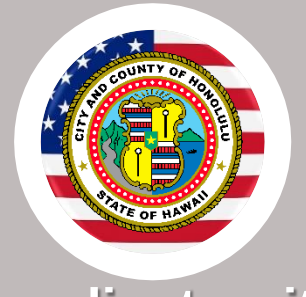
Green
City Operations



Reduce Climate
Emissions & Impact



Promote Resilient
Communities



Coordinate with
Federal & State Agencies



Ensure Sustainable
City Plans & Policies



Facilitate Climate
Change Commission



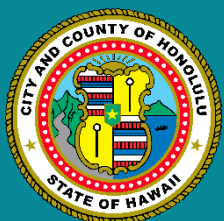
Structure

Agency within Mayor/Managing Director's Office

16 Total Staff

7 Regular City Staff + 3 Grant-Funded

6 In-Office VISTA + 9 City-wide VISTA





Climate Change is Now

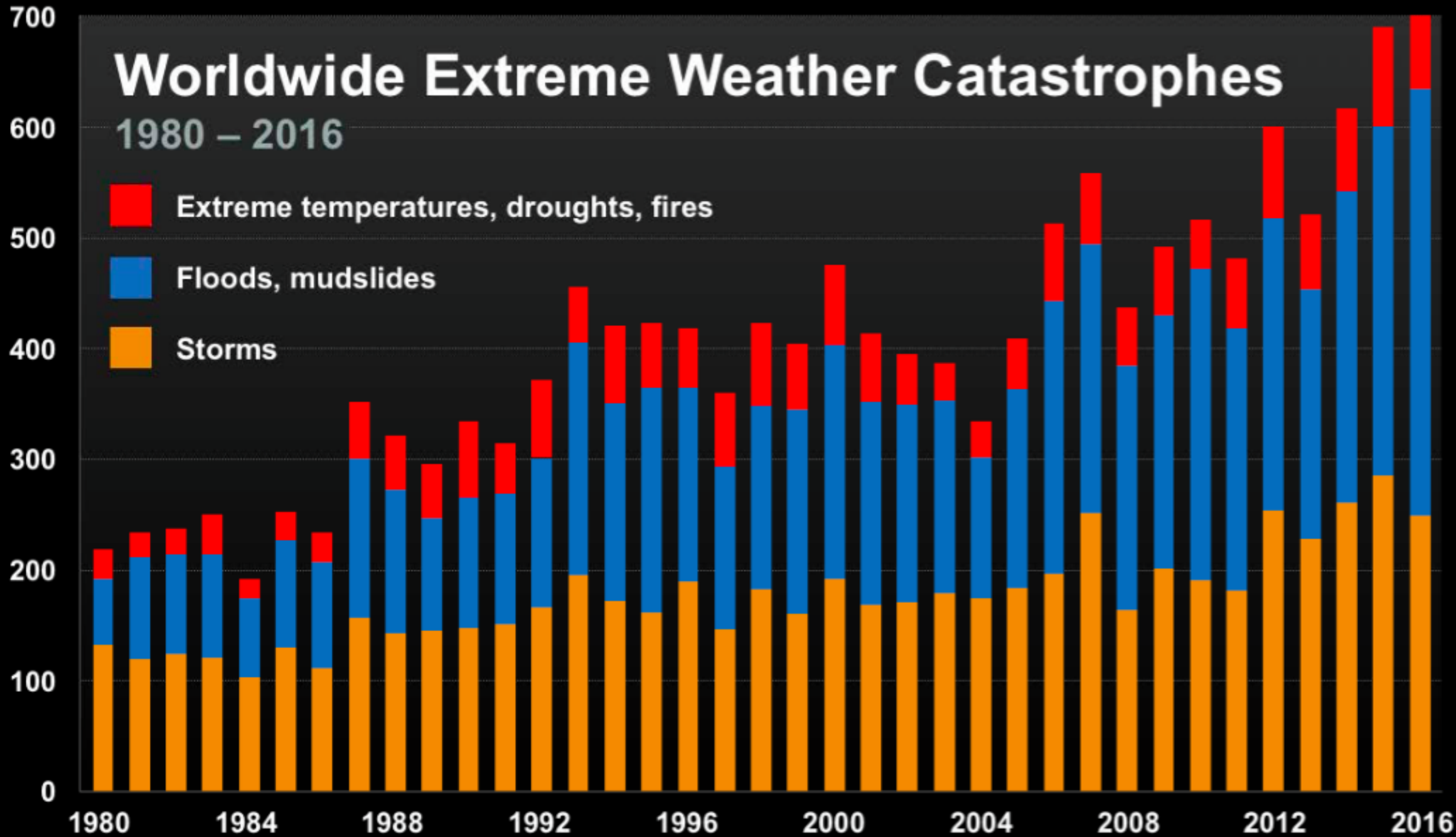


Worldwide Extreme Weather Catastrophes

1980 – 2016

Number of Events

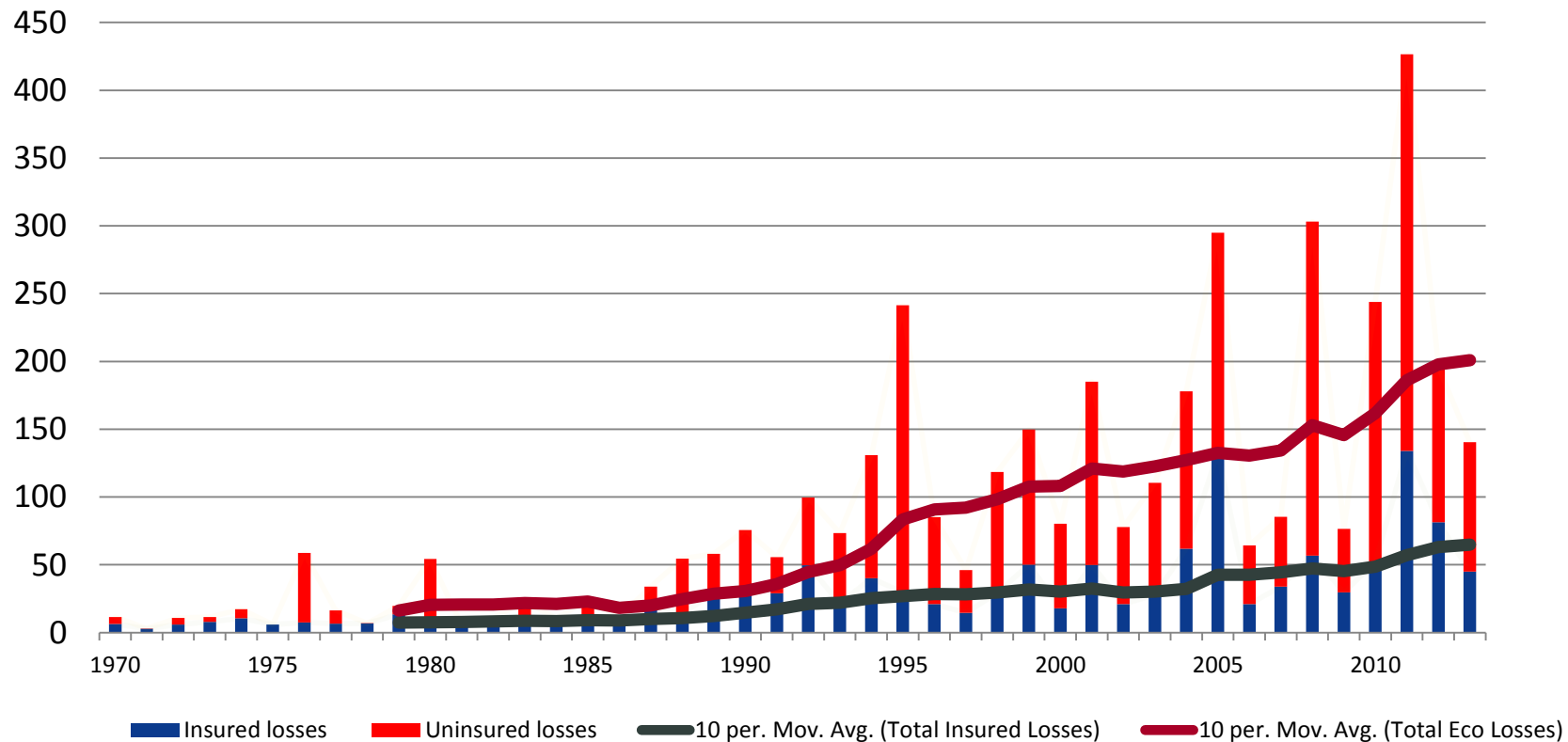
- Extreme temperatures, droughts, fires
- Floods, mudslides
- Storms

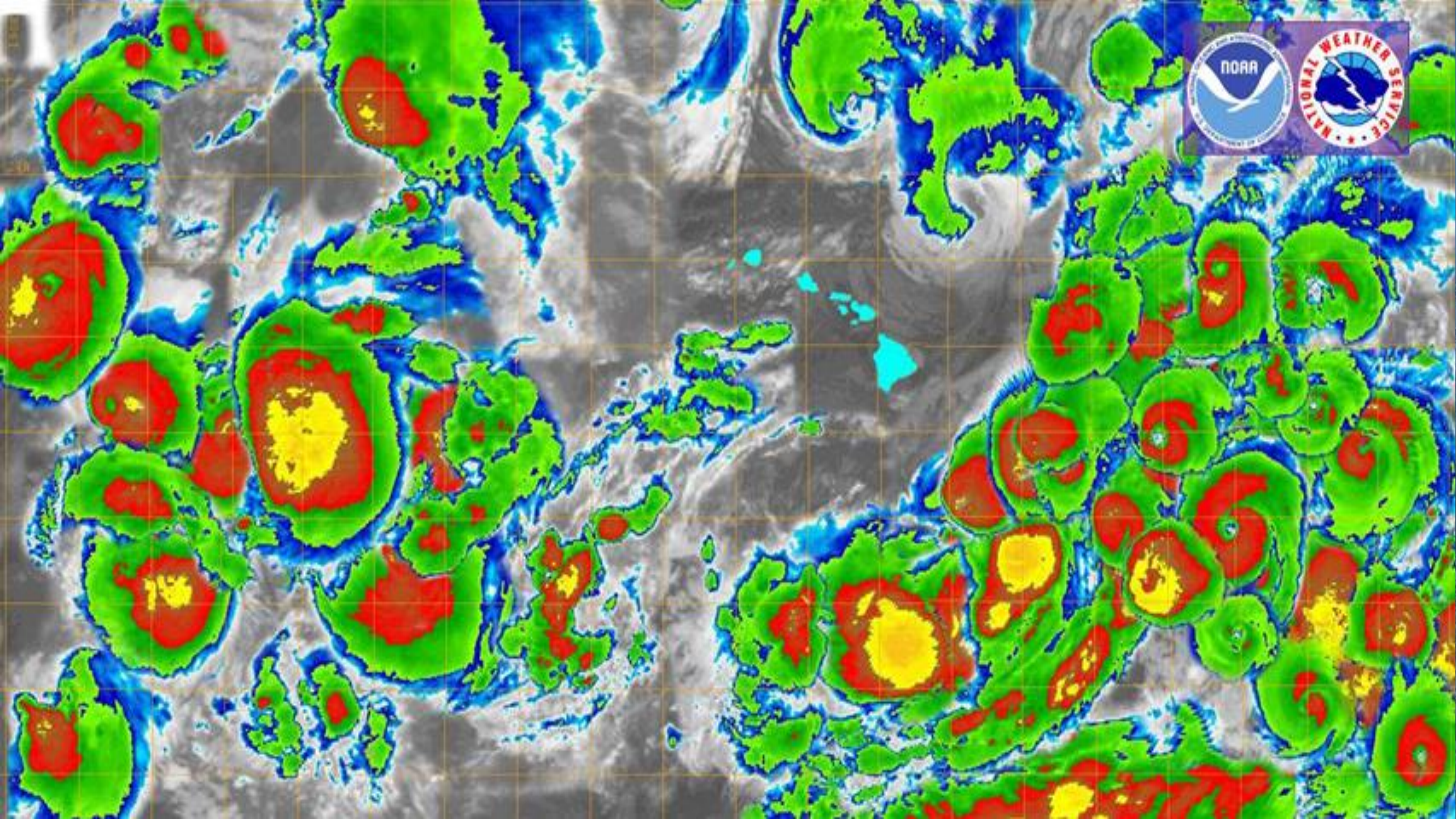


Risk/Protection Gap

The cost of disasters is widening along with the gap between uninsured and insured losses

Global natural catastrophe losses, 1970-2013 (in USD bn)







Local Changes

- Reduced trade wind days
 - Less overall rain
 - Sea level rise



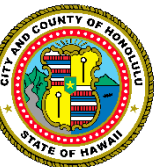
State & City Mandates & Targets

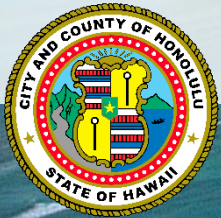
100% renewable energy by 2045

100% carbon neutral by 2045

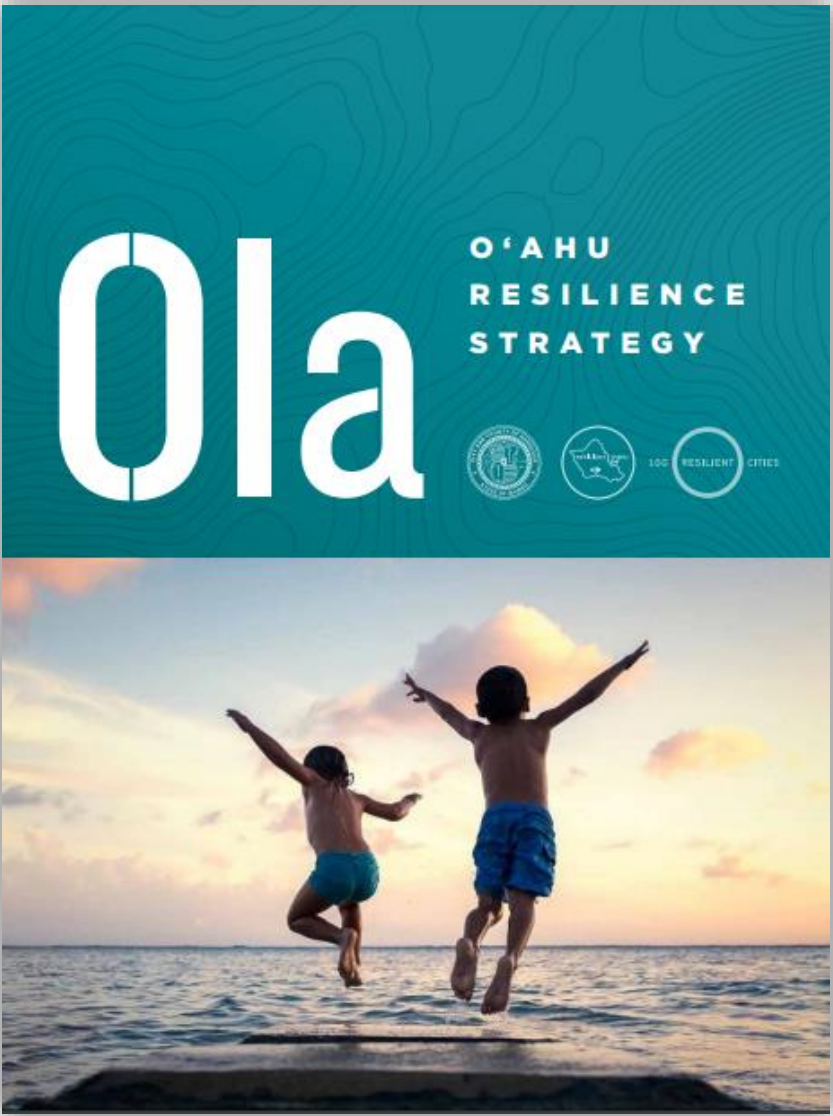
100% renewable fuel municipal fleet by 2035

100% renewable ground transportation statewide by 2045





Fulfilling Our Mandate



Other Work



Waste and Emissions



Bond Rating



Grant Opportunities



Collaboration



Heat Strategy



Disaster Recovery



City Climate Change Commission

- Required to meet at least 2x/yr
- First met on February 7, 2018
- Have met 13x in 16 months

www.resilientoahu.org/about-the-commission





City Climate Change Commission

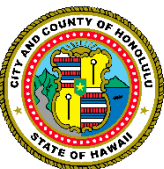
Policy Guidance

CLIMATE CHANGE BRIEF

This brief describes the local, regional, and global impacts of climate change as documented by the peer-reviewed scientific literature and credible empirical data sources. It provides a benchmark for the commission, attesting to the Climate Change Commission's concerns, underpinning the Commission's decisions and recommendations, and serving to inform those the Commission serves.

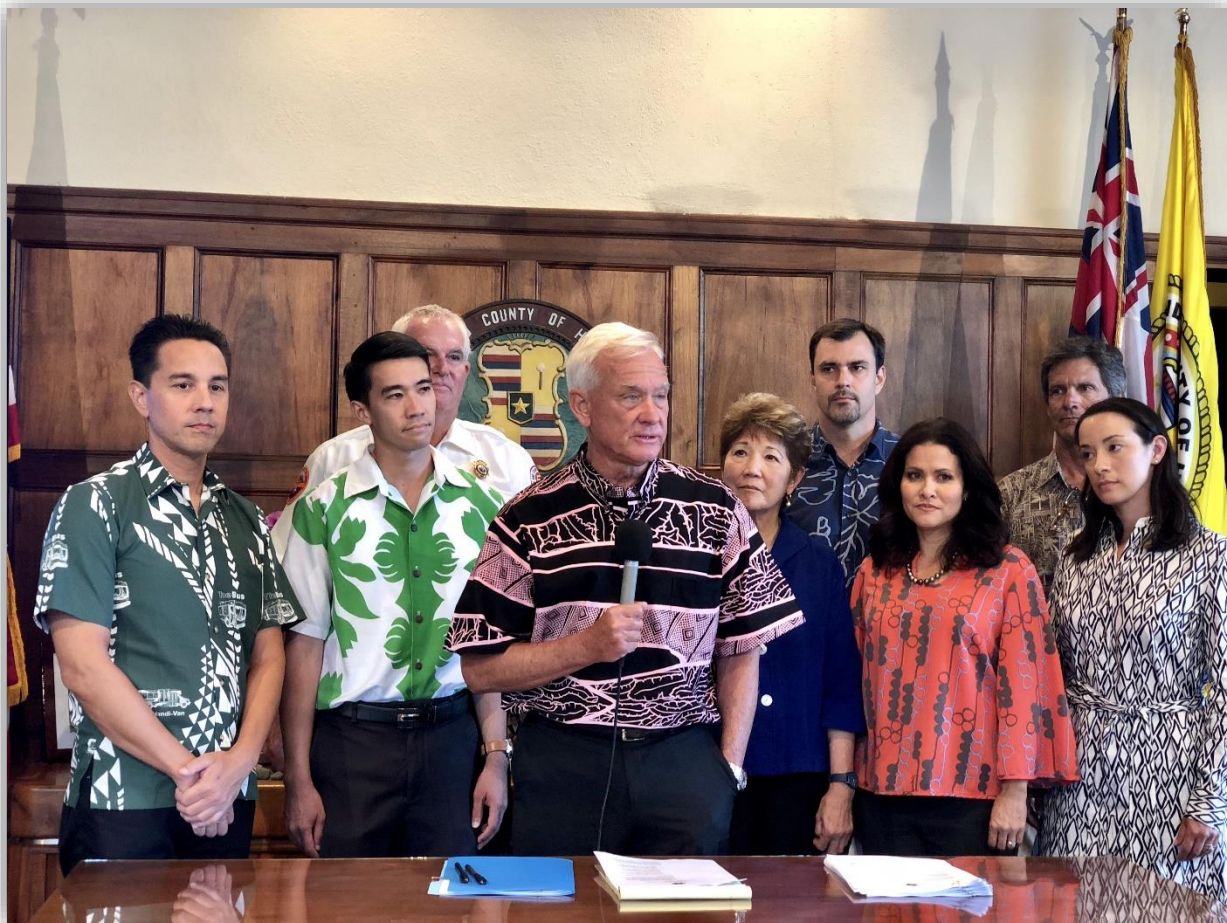
SEA LEVEL RISE GUIDANCE

This report builds on findings in the Hawai'i Sea Level Rise Vulnerability and Adaptation Report (2017), Sweet et al. (2017), USGCRP (2017), Sweet et al. (2018), and other scientific literature to provide specific policy and planning guidance on responding to sea level rise by the City.

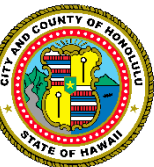




Mayor's Directive on Climate Change



July 16, 2018: Mayor Caldwell issued an executive order on climate change and sea level rise in response to guidance issued by the City's Climate Change Commission.





Adaptation Examples



City Center Section
Rail Stations
Design Elevations
 ≥ 6 ft SLR + Flood



Sand Island Wastewater
Treatment Plant Secondary
Treatment Facility
Design Elevation
6 ft SLR + Flood + Freeboard
(16 ft above MSL)



Impacts of Climate
Change on Honolulu
Water Supplies and
Planning for Mitigation

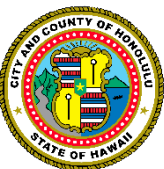




Disclosure



The City and County currently publicly discloses its climate management activities including climate risk through CDP, an internationally recognized public disclosure platform used by thousands of companies, hundreds of cities and institutional investors. Honolulu's public disclosure is available at www.cdp.net.





Office of Climate Change, Sustainability and Resiliency

Honolulu Networks & Memberships



USDN | urban sustainability
directors network

American Cities
Climate Challenge

PIONEERED BY THE
ROCKEFELLER FOUNDATION

100

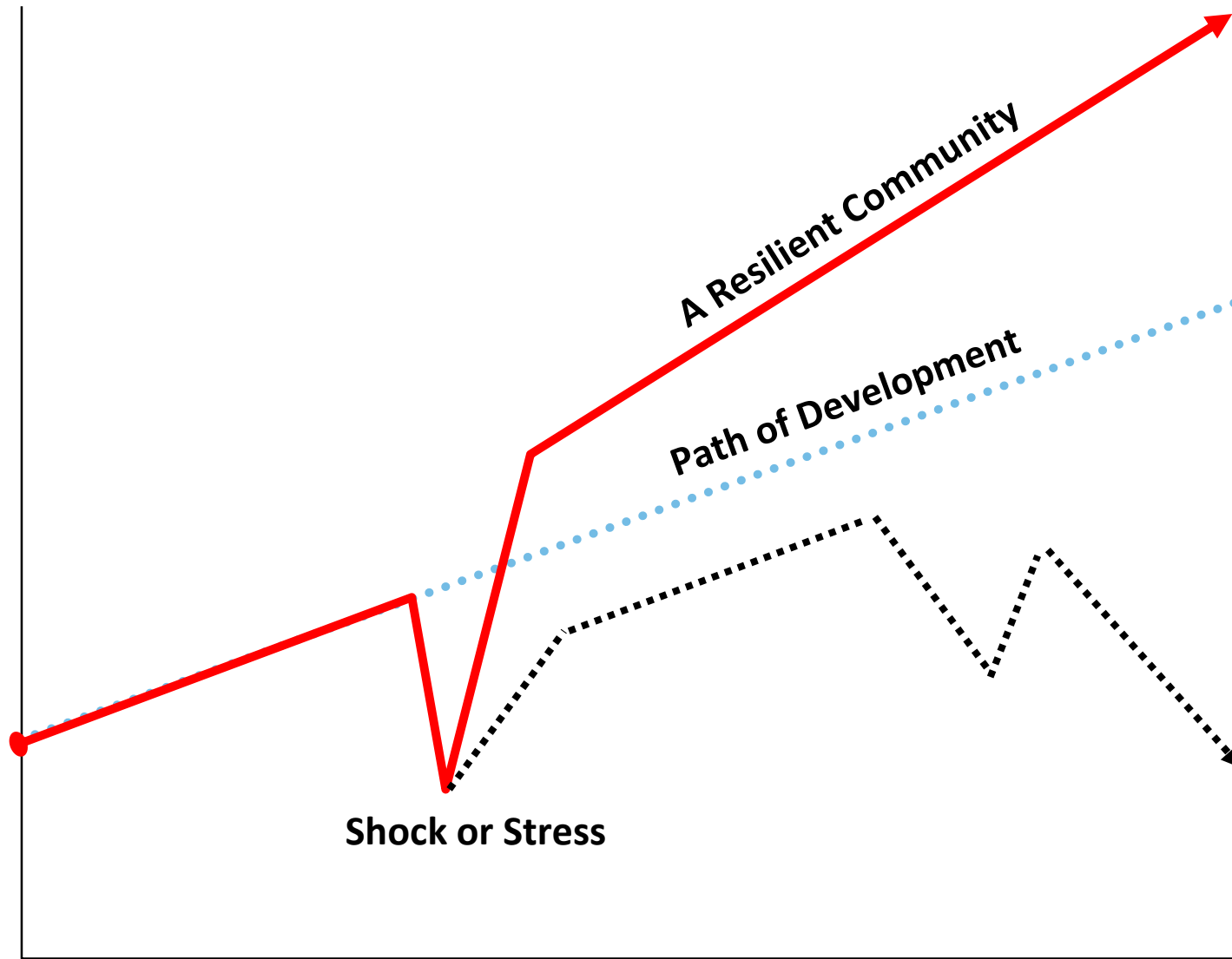


Resilience

The capacity of individuals, communities, institutions, businesses, and systems to **survive, adapt, and thrive** no matter what kinds of chronic **stresses** and acute **shocks** they experience.



Shocks and stresses can bring opportunities for communities to evolve, and in some circumstances, transform.





O'ahu Resilience Strategy

Community Input

Agenda Setting
Workshop

140+

Stakeholders
from 19 sectors
representing
117 unique
organizations

+2,200

Resilience Perception
Surveys Conducted

33

Neighborhood
Board Presentations

219

Meetings with other
Stakeholder Groups

On a scale of 1-10
(low – high), how
resilient do you think
O'ahu is today?

3.9





Survey Responses: Top Five Shocks & Stresses

Top 5 Shocks	Top 5 Stresses
Hurricane	Cost of Living
Tsunami	Climate Change Impacts
Infrastructure Failure	Aging Infrastructure
Rainfall Flooding	Lack of Affordable Housing
External Economic Crisis	Over-reliance on Imports
Disease Outbreak	Food or Water Shortage
Nuclear Attack	Income Inequality
Earthquake	Lack of Political Leadership
Cyber Attack	Over-reliance on Tourism and Military Economy
Terrorist Attack	Decline of Aloha Spirit
Heat Wave	Educational Disparity
Other	
Riot/Civil Unrest	





Community Resilience Pillars



**Remaining
Rooted**



**Bouncing
Forward**



**Climate
Security**



**Community
Cohesion**





O'ahu Resilience Strategy | Working Groups

5 WORKING GROUPS

4 DISCOVERY AREAS  

 **3 MONTHS**

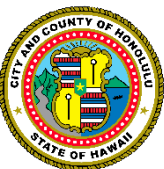
 **2 CO-CHAIRS**

1 from within the City & **1** from outside

Chief Output:

RESILIENCE ACTIONS

recommendations for specific initiatives, projects, or policies that the City might take





Remaining Rooted

Action 2: **Return Illegal Vacation Rental Units to Local Housing**

Near immediate 40% decrease in unpermitted
vacation rentals listed online



City & County of Honolulu
Short-Term Rentals

About Short-Term Rentals

Short-term rentals (STRs) have been regulated in Honolulu since 1989. STRs are also known as vacation rentals, and are lodgings that provide guest accommodation for less than 30 days. [Ordinance 19-18](#) (Bill 89) seeks to balance the benefits of STRs for hosts and guests with the desire to keep residential neighborhoods from being overrun by STRs.

Approved STRs

There are two kinds of STRs:

<i>Bed and breakfast homes (B&Bs)</i>	<i>Transient vacation units (TVUs)</i>
The homeowner or permanent resident is present during the guest stay. Up to two rooms may be rented, with a maximum of four guests. The law caps the number of B&Bs allowed in any given Development Plan area.	Commonly known as whole home or unhosted rentals. TVUs are allowed only in resort and certain apartment-zoned districts, unless it has a nonconforming use certificate.

Information for Hosts

Information for Neighbors

Information for Visitors

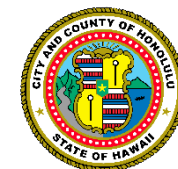
The following links lead to maps that depict the specific zoned areas designated by Ordinance 19-18 that permit Short-Term Rentals. This only includes land under City and County Jurisdiction. See the [Approved STRs](#) for specific addresses and Tax Map Keys that are legal STRs.

Report a Violation

FAQs

[Kahala](#) [Waikiki](#) [Ko Olina](#) [Lā'ie](#) ['Ewa](#) [Māhaha](#) [Kuilima](#)

<http://www.honolulu.gov/dppstr/default.html>





Bouncing Forward

Action 11: **Protect Lives and** **Property by Updating** **Building Codes**

Energy Code
Electrical Code
Building Code
Plumbing Code
Fire Code

National Benefit-Cost Ratio Per Peril

*BCR numbers in this study have been rounded

	Exceed common code requirements	Meet common code requirements	Utilities and transportation	Federally funded
Overall Hazard Benefit-Cost Ratio	4:1	11:1	4:1	6:1
Riverine Flood	5:1	6:1	8:1	7:1
Hurricane Surge	7:1	Not applicable	Not applicable	Not applicable
Wind	5:1	10:1	7:1	5:1

National Benefit-Cost Ratio by Hazard Mitigation Measure

If the City invests now in mitigation, rather than clean-up after a natural hazard, the return on investments are considerable:

Exceeding common code requirements saves \$4 per \$1 spent; Adopting model codes saves \$11 per \$1; mitigating infrastructure saves \$4 per \$1 spent; Federal mitigation grants save \$6 per \$1 spent.

Graphic Adopted from National Institute of Building Sciences





Bouncing Forward

Action 14: **Establish Future Conditions Climate Resilience Design Guidelines**

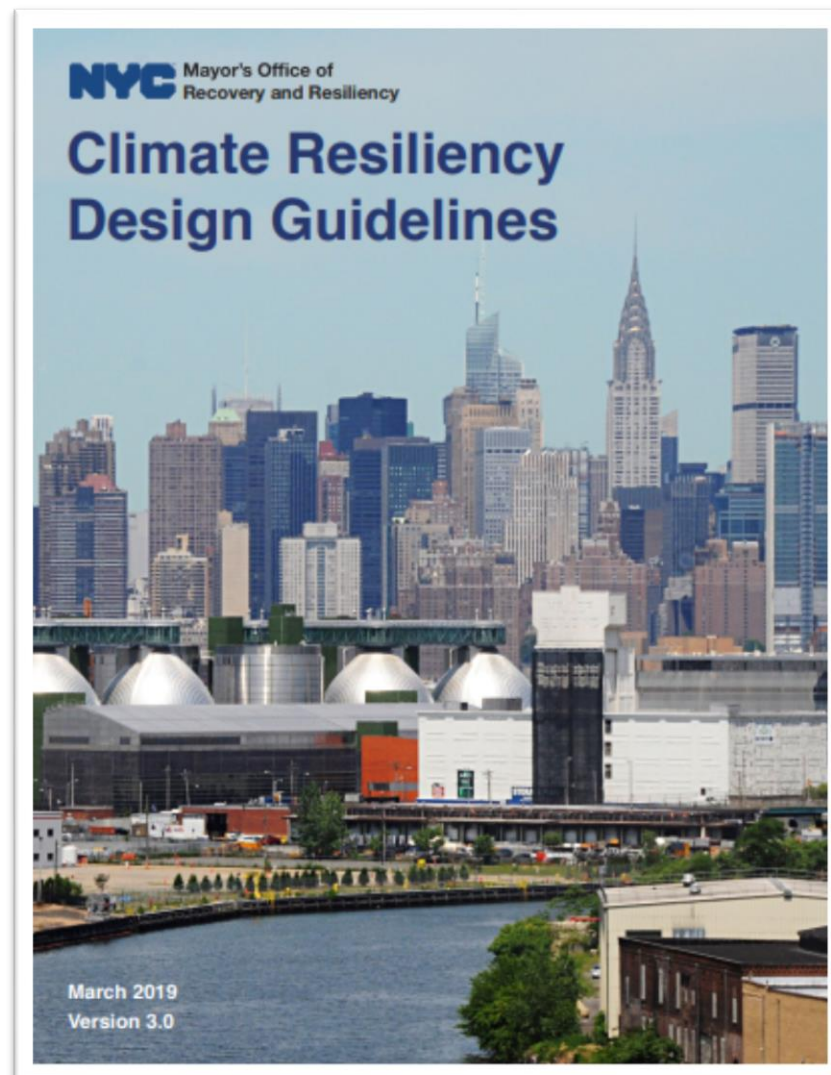
Forward-looking Design Parameters for:

Heat

Wind

Flooding

Sea Level Rise





Climate Security

Action 20:
Reduce Taxpayer Expense
and Increase Renewable
Energy through City-wide
Energy Performance
Contracts

City-wide ESPC
DPR ESPC



Photo credit: Honolulu Board of Water Supply





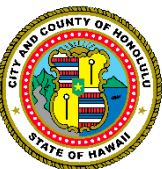
Climate Security

Action 25: **Accelerate Carbon-Free New Mobility Options**

Micromobility
Shared Mobility
Transit access



Photo credit: Bikeshare Hawaii





Climate Security



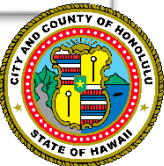
Action 31:
Establish a Storm Water
Enterprise Fund to Better
Finance Water Management

Stormwater Fee/Utility
Development and adoption of a GI Program/Plan

Photo Credit: Resilience Office



Photo Credit: Department of Facility Maintenance





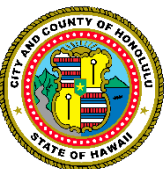
Climate Security

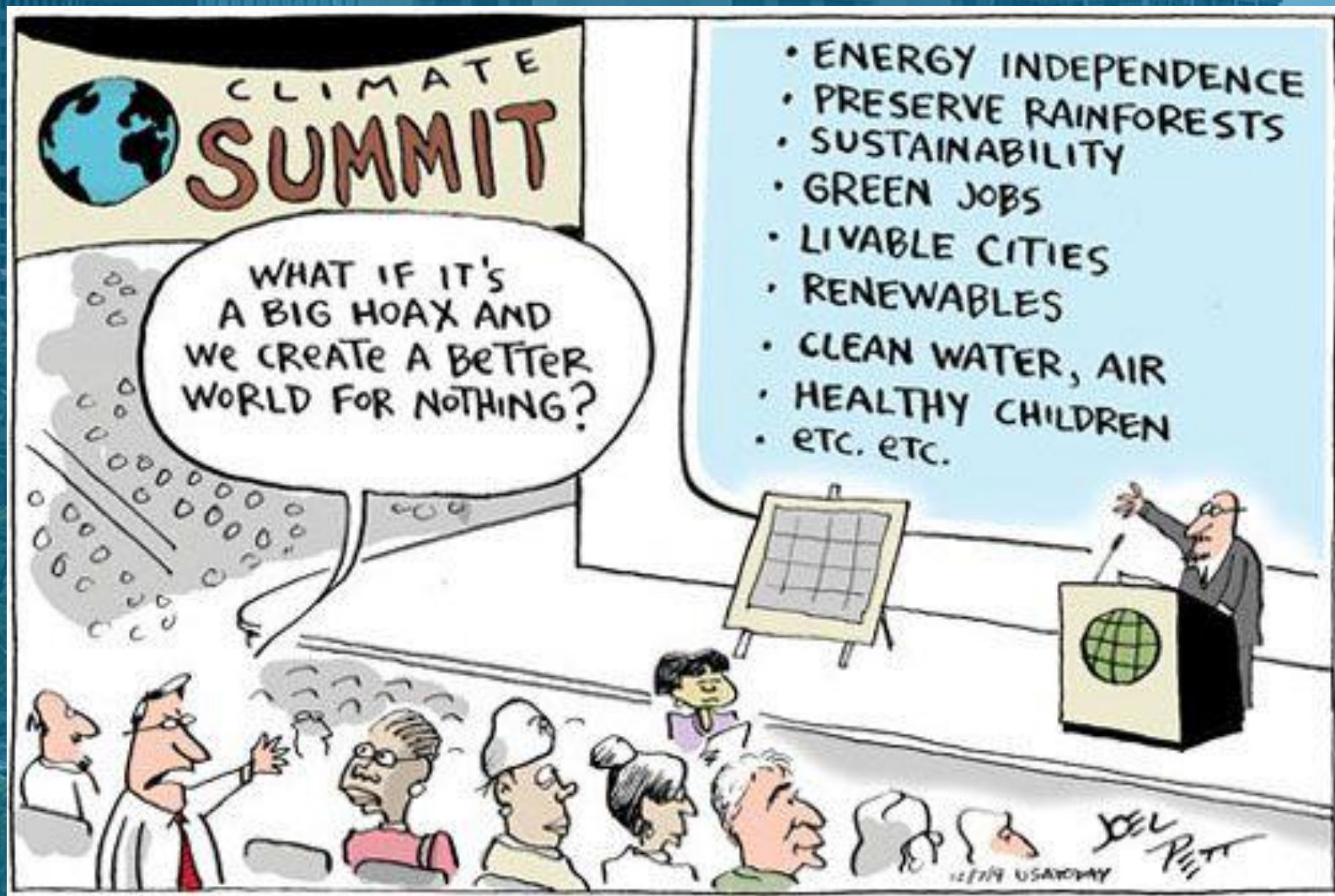
Action 32: **Deploy Sustainable Roof** **Systems to Manage Urban** **Heat and Rainfall**

Green, blue, cool roofs
Energy production



Photo Credit: Patrick Race, San Francisco Planning Department

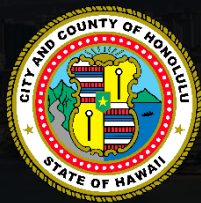




Mahalo



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(808) 768-2277

resilientoahu@honolulu.gov

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[@ResilientOahu](https://www.instagram.com/ResilientOahu)