

## STATE OF HAWAII OFFICE OF PLANNING & SUSTAINABLE DEVELOPMENT

DAVID Y. IGE GOVERNOR

MARY ALICE EVANS DIRECTOR

235 South Beretania Street, 6th Floor, Honolulu, Hawaii 96813 Mailing Address: P.O. Box 2359, Honolulu, Hawaii 96804

Telephone: (808) 587-2846 Fax: (808) 587-2824 Web: https://planning.hawaii.gov/

Statement of MARY ALICE EVANS Director, Office of Planning and Sustainable Development before the SENATE COMMITTEE ON WAYS AND MEANS Thursday, March 3, 2022 10:10 AM State Capitol, Conference Room 211

# in consideration of SB2724 SD1 RELATING TO SEA LEVEL RISE ADAPTATION.

Chair Dela Cruz, Vice Chair Keith-Agaran, and Members of the Senate Committee on Ways and Means.

The Office of Planning and Sustainable Development (OPSD) commends the legislature for its continued recognition of sea level rise as part of the global climate emergency. Waikiki is a significant asset to the State and has unique challenges and opportunities relating to coastal erosion and sea level rise. The OPSD **supports** the intent of **SB 2724 SD1** and provides the following **comments**:

To provide flexibility to address needs and concerns that may be raised during the coordination process outside of those stated in this measure, the OPSD offers the following proposed amendments for the purposes of flexibility in defining the scope of work:

Page 4, Lines 1-5 "SECTION 2. (a) The office of planning and sustainable development shall [convene a Waikiki adaptation and resilience plan working group as] establish a pilot project to develop an adaptation and resilience plan that addresses the climate change and sea level rise impacts in the Waikiki special district.

Page 4, Lines 6-7 (b) The Waikiki adaptation and resilience plan shall [include] assess nature-based, as appropriate and urban designs for sea-level rise...

Page 4, Lines 13-17 (c) The [working group] office of planning and sustainable development shall [comprise] coordinate with representatives from the University of Hawaii, city and county of Honolulu, department of land and natural resources, Waikiki beach special improvement district association, and Waikiki neighborhood board.

Page 5, Lines 1-2 (d) [In developing the] The Waikiki adaptation and resilience plan [the working group] shall [obtain and] use the best data ...

Page 5, Line 5-6 The [working group] <u>Waikiki adaptation and resilience plan</u> may consider the coastal flood adaptation architectural design...

Page 5, Line 15 [(e) The working group shall dissolve on January 1, 2024.]

The OPSD recognizes that this scale of planning is typically countyled and therefore OPSD would work closely on the City and County of Honolulu to ensure that the outcomes funded by this proposed measure are complementary to and consistent with county planning efforts without being duplicative of any activities currently being undertaken at the county level.

The OPSD additionally recognizes that establishing and developing sustained state capacity for sea level rise adaptation efforts is necessary to support and coordinate the implementation of activities that will be consistent with the final Waikiki Adaptation and Resilience Plan. Staffing capacity for the OPSD Coastal Zone Management Program is funded through a federal award. Staff workplans are submitted prior to the fiscal year and must be consistent with addressing federal mandates and the CZM federally approved strategy. Current strategic priorities serve to implement the Hawaii Ocean Resources Management Plan which focuses on addressing management gaps and collaboration with CZM network agencies to improve upon **statewide policy**.

Current CZM workplans do not include allocations for the management of this regionalscale project. Given the significance of the value of Waikiki at both the state and county level, a project of this significance requires staff time with a dedicated position (Exempt, 1.0 FTE, Salary ~\$81,744) to support the initiative. OPSD would require additional staff capacity in order to adequately lead, manage, and procure consultant services to carry out the activities in this mandate as well to staff future coordination efforts to ensure activities in the area are consistent with the Waikiki Adaptation and Resilience Plan.

The OPSD appreciates the overall concept of this bill, but we are concerned that its passage may replace or adversely impact priorities indicated in our Executive Budget.

Thank you for the opportunity to testify on this matter.



## **ON THE FOLLOWING MEASURE:** S.B. NO. 2724, S.D. 1, RELATING TO SEA LEVEL RISE ADAPTATION.

### **BEFORE THE:**

SENATE COMMITTEE ON WAYS AND MEANS

DATE:	Thursday, March 3, 2022	<b>TIME:</b> 10:10 a.m.	
LOCATION:	State Capitol, Room 211, Via Videoconference		
TESTIFIER(S	(For more information, conta	act Bryan C. Yee,	
	Deputy Attorney General, a	it (808) 586-1501)	

Chair Dela Cruz and Members of the Committee:

The Department of the Attorney General provides the following technical comments:

Senate Bill No. 2724, S.D. 1, among other things, proposes to establish a working group to work with the Office of Planning and Sustainability to develop a Waikiki adaptation and resilience plan to address climate change and sea level impacts in the Waikiki special district.

The bill creates a working group that will be subject to chapter 92, Hawai'i Revised Statutes, but does not specify the number of members, how the members are selected, or to which department the working group is administratively attached.

Although there are different ways in which this issue could be addressed, we offer the following wording as one alternative. On page 4, lines 13 through 20, replace subsection (c) with the following:

(c) There is established within the department of \_

for administrative purposes the Waikiki adaptation and resilience working group.

- (d) The working group shall include:
- (1) The University of Hawaii president, or designee;
- (2) The \_\_\_\_\_\_ for the City and County of Honolulu, or designee;
- (3) The director of the department of land and natural resources, or designee;

Testimony of the Department of the Attorney General Thirty-First Legislature, 2022 Page 2 of 2

- (4) The president of the Waikiki beach special improvement district association, or designee;
- (5) The chair of the Waikiki neighborhood board, or designee; and
- (6) Such other private and public stakeholders, including residents and owners of properties in Waikiki, that are critical to developing a sea level rise community adaptation and resilience plan for Waikiki, as the working group chooses to allow, all of whom shall not be subject to section 26-34.

If the Committee decides to make the amendment suggested above, the changes in the designations from subsection (d) to subsection (e) (page 5, line 1) and from subsection (e) to subsection (f) (page 5, line 15) should be also made.

Thank you for this opportunity to provide these comments.



**UNIVERSITY OF HAWAI'I SYSTEM** 

Legislative Testimony

Testimony Presented to the Senate Committee on Ways and Means Thursday, March 3, 2022 at 10:10 a.m. by Vassilis L. Syrmos, Vice President for Research and Innovation University of Hawai'i System

SB 2724 SD1 – RELATING TO SEA LEVEL RISE ADAPTATION

Chair Dela Cruz, Vice Chair Keith-Agaran, and Members of the Committee:

The University of Hawai'i (UH) is in support of SB 2724 SD1 which requires the State Office of Planning and Sustainable Development to establish a pilot program that will develop a Waikīkī adaptation and resilience plan to address the projected impacts of climate change and sea level rise in the Waikīkī special district.

As a complement to the excellent research, education and policy efforts put forth by both Hawai'i Sea Grant and the Climate Resiliency Initiative (formerly the Coastal Geology Group) in UH Mānoa's heralded School of Ocean and Earth Science and Technology, the College of Engineering's Coastal Erosion Shoreline Team possess additional research expertise in geotechnics, transportation, infrastructure and shoreline hardening that can provide working, technical solutions to this important pilot program.

Thank you for the opportunity to testify on this measure.

DAVID Y. IGE GOVERNOR OF HAWAII





SUZANNE D. CASE CHAIRPERSON BOARD OF LAND AND NATURAL RESOURCES COMMISSION ON WATER RESOURCE MANAGEMENT

ROBERT K. MASUDA

M. KALEO MANUEL DEPUTY DIRECTOR - WATER

AQUATIC RESOURCES BOATING AND OCEAN RECREATION BUREAU OF CONVEYANCES COMMISSION ON WATER RESOURCE MANAGEMENT CONSERVATION AND COASTAL LANDS CONSERVATION AND RESOURCES ENFORCEMENT ESGINEERING FORESTRY AND WILDLIFE HISTORIC PRESERVATION KAHOOLAWE ISLAND RESERVE COMMISSION LAND STATE PARKS

STATE OF HAWAII DEPARTMENT OF LAND AND NATURAL RESOURCES

> OFFICE OF CONSERVATION AND COASTAL LANDS POST OFFICE BOX 621 HONOLULU, HAWAII 96809

> > Testimony of SUZANNE D. CASE Chairperson

Before the Senate Committee on WAYS AND MEANS

### Thursday, March 03, 2022 10:10 a.m. State Capitol, Conference Room 211, Via Videoconference

#### In consideration of SENATE BILL 2724, SENATE DRAFT 1 RELATING TO SEA LEVEL RISE ADAPTION

Senate Bill 2724, Senate Draft 1 proposes to require the Office of Planning and Sustainable Development to establish a pilot program to develop a Waikiki adaptation and resilience plan to address climate change and sea level impacts in the Waikiki special district. The Department of Land and Natural Resources (Department) supports the bill.

The proposed project would build off the Hawaii Climate Change Mitigation and Adaptation Commission's 2017 report, *Hawaii Sea Level Rise Vulnerability and Adaptation Report*. This report has been extremely valuable in the Department's mission to protect the State's natural and cultural resources and has guided many of our decisions over the past five years.

This bill will take the macro-level recommendations contained in the commission's report, along with other studies, to create a community-level adaptation and resilience plan for Waikiki under the leadership of the Office of Planning and Sustainable Development. The Department believes that a successful pilot project will provide a useful model for other coastal communities in the State that are facing serious threats from sea level rise.

In order to ensure the success of the project, the Department would request that the Committee consider including an implementation strategy as a component of the plan.

Thank you for the opportunity to comment on this measure.

DAVID Y. IGE GOVERNOR

EMPLOYEES' RETIREMENT SYSTEM HAWAI'I EMPLOYER-UNION HEALTH BENEFITS TRUST FUND

OFFICE OF THE PUBLIC DEFENDER



CRAIG K. HIRAI DIRECTOR

GLORIA CHANG DEPUTY DIRECTOR

STATE OF HAWAI'I DEPARTMENT OF BUDGET AND FINANCE P.O. BOX 150 HONOLULU, HAWAI'I 96810-0150

ADMINISTRATIVE AND RESEARCH OFFICE BUDGET, PROGRAM PLANNING AND MANAGEMENT DIVISION FINANCIAL ADMINISTRATION DIVISION OFFICE OF FEDERAL AWARDS MANAGEMENT (OFAM)

#### WRITTEN ONLY TESTIMONY BY CRAIG K. HIRAI DIRECTOR, DEPARTMENT OF BUDGET AND FINANCE TO THE SENATE COMMITTEE ON WAYS AND MEANS ON SENATE BILL NO. 2724, S.D. 1

#### March 3, 2022 10:10 a.m. Room 211 and Videoconference

### RELATING TO SEA LEVEL RISE ADAPTATION

The Department of Budget and Finance (B&F) offers comments on this bill.

Senate Bill No. 2724, S.D. 1, requires the Office of Planning and Sustainable

Development to establish a pilot program to convene a working group to develop a

Waikiki adaptation and resilience plan (WARP) to address climate change and sea level

impacts in the Waikiki special district and appropriates an unspecified amount of

general funds for FY 23 for the development of the WARP.

B&F notes that, with respect to the general fund appropriation in this bill, the federal Coronavirus Response and Relief Supplemental Appropriations Act requires that states receiving Elementary and Secondary School Emergency Relief (ESSER) II funds and Governor's Emergency Education Relief II funds must maintain state support for:

 Elementary and secondary education in FY 22 at least at the proportional level of the state's support for elementary and secondary education relative to the state's overall spending, averaged over FYs 17, 18 and 19; and  Higher education in FY 22 at least at the proportional level of the state's support for higher education relative to the state's overall spending, averaged over FYs 17, 18 and 19.

Further, the federal American Rescue Plan (ARP) Act requires that states receiving ARP ESSER funds must maintain state support for:

- Elementary and secondary education in FY 22 and FY 23 at least at the proportional level of the state's support for elementary and secondary education relative to the state's overall spending, averaged over FYs 17, 18 and 19; and
- Higher education in FY 22 and FY 23 at least at the proportional level of the state's support for higher education relative to the state's overall spending, averaged over FYs 17, 18 and 19.

The U.S. Department of Education has issued rules governing how these maintenance of effort (MOE) requirements are to be administered. B&F will be working with the money committees of the Legislature to ensure that the State of Hawai'i complies with these ESSER MOE requirements.

Thank you for your consideration of our comments.



#### Testimony Presented Before the Senate Committee on Ways and Means **March 3, 2022 at 10:10am** Senate Capitol (Via Video conference)

## Waikīkī Beach Special Improvement District Association By Rick Egged, President

## SB 2724 SD1– RELATING TO SEA-LEVEL RISE ADAPTATION

Chair Dela Cruz, Vice Chair Keith-Agaran, and members of the committee:

The Waikīkī Beach Special Improvement District Association (WBSIDA) strongly supports Senate Bill (SB 2724 SD1). SB 2724 SD1 requires the State Office of Planning and Sustainable Development (OPSD) to convene a working group to develop a Waikīkī resilience plan to address climate change and sea level impacts in the Waikīkī special district. This effort is an important step towards the development of an adaptation and resilience strategy for Waikīkī and will serve as framework and demonstration for other communities in Hawai'i.

The Hawaii State Legislature has correctly recognized that Hawai'i is experiencing the impacts of climate change and coastal hazards including the effects of sea level rise and coastal erosion. These threats include; coastal hazards and climate change impacts including the effects of increased frequency and severity of storms and drought, sea level rise, groundwater inundation and coastal erosion. Sea-level rise induced ground water inundation is of particular concern to low elevation regions like Waikīkī given the contribution to our economy, dense urban development and substantial coastal exposure to hazards. The intent of this bill is to develop a proactive resilience plan to prioritize actions that protect, preserve, and where desirable, create, restore or improve the quality of the environment and the associated community benefits.

As described by the City and State Climate Change Commission, it is increasingly likely that we will experience 3 feet or more of sea level rise by the middle to end of this century, depending on the greenhouse gas emission scenario. Six feet or more of sea level rise by 2100 is plausible under some scenarios. High tide flooding will affect low-lying coastal areas like Waikīkī decades before global mean sea level reaches these benchmarks. The Honolulu Climate Commission recommends using the 3.2 ft Sea Level Rise Exposure Area as a hazard overlay to prepare for and adapt to sea level rise impacts. This is the type of actionable information that can be used by such a task force to anticipate and plan for predicted impacts to Waikīkī.

Waikīkī is a globally recognized icon of Hawai'i and is the state's largest tourist destination. Waikīkī generates approximately 42% of the state's visitor industry revenue and is responsible for 8% (\$5 billion) of the Gross State Product<sup>1</sup>. Beaches are a primary attraction for visitors to Waikīkī and perhaps the first line of defense against sea-level rise. It has been estimated that Waikīkī Beach accounts for over \$2 billion in annual income for the local economy<sup>2</sup>. The beaches and myriad of world-renown surf breaks and reef ecosystem located offshore are valuable natural resources that support the environment, culture and lifestyle of Hawai'i, and the idyllic image of Waikīkī. It is critically important to facilitate the ability to maintain these important natural resources along with maintaining the associated resilient development for the inherent economic, social, cultural and environmental value they provide to residents and visitors alike.

Policies related to coastal resilience in Hawai'i have centered on the possible impact of sea-level rise on the active beach system and the built environment. As part of the development of new resilience policies, it is important to recognize and evaluate possible adaptation strategies with a strong understanding of the challenges, limitations and opportunities associated with some adaptive planning and design approaches for Waikīkī. The role and influence of the impacts of groundwater inundation is one example of the type of predicted impact that significantly affects land use and urban design. Similarly, due to the unique history and economy of Waikīkī there may be solutions and design approaches that are particularly well-suited for a high-density urban environment like Waikīkī that should be assessed and evaluated by the task force.

The effort to develop a resilience plan and specific resilient design guidelines for Waikīkī is consistent and supportive of the City and County of Honolulu's (CCH) O'ahu Resilience Strategy. The O'ahu Resilience Strategy (ORS) is part of the CCH's effort to develop strategies for resilience as part of the international 100 Resilient Cities network organized and hosted by the Rockefeller Foundation. One of the 44 Resilience Design Guidelines. This action 14: *Establish Future Conditions Climate Resilience Design Guidelines*. This action is among many in the ORS that a task force can and should evaluate and serve as a proactive advisory guideline for climate resilience. The purpose of the Action 14 guideline is to provide step-by-step instructions on how to incorporate climate and hazard considerations into the design of City and private facilities and infrastructure but can also serve a pilot for adaptation for private development.

#### Waikiki Special District Guidelines (WSD)<sup>3</sup>.

Waikīkī is subject to a Special District that controls certain land uses and zoning restrictions. The purpose of a special district is to provide a means by which certain areas in the community in need of restoration, preservation, redevelopment or rejuvenation may be designated as special districts to guide development to protect and/or enhance the

<sup>&</sup>lt;sup>1</sup> <u>http://www.waikikibid.org/</u>

<sup>&</sup>lt;sup>2</sup> Waikīkī Improvement Association (2018) Economic Impact Analysis of the Potential Erosion of Waikiki Beach, Final Report.

<sup>&</sup>lt;sup>3</sup> (Revised Ordinance of Honolulu Chapter 21 Section 9. Special District Regulations)

physical and visual aspects of an area for the benefit of the community as a whole. The Waikīkī Special District Objectives contain a total of fourteen district objectives listed including promoting the Hawaiian sense of place, guiding development with optimum benefits to the community and retaining residential sector among the objectives. There is currently no specific mention of climate change, hazards, sustainability or resilience anywhere in the Waikīkī Special District Guidelines. With recent interest in revising and updating the WSD guidelines there is an opportunity for the Waikīkī Resilience Task Force to assist in the development of the revised guidelines utilizing new urban planning and architectural design concepts such as those presented here including the Waikīkī Design Flood Elevation guidelines as one example.

The University of Hawai'i, through a collaborative research project with the School of Architecture, SOEST and Sea Grant have initiated a study on long-term visioning and climate adaptation of the buildings and landscapes in Waikīkī through a series of architectural design charrettes. The research addresses the design problem of "in-place" adaptation of a coastal urban area to flooding as sea level rises in Waikīkī and is largely based on research of other U.S. municipalities efforts to adapt to sea-level rise. This research is an essential component to implementing these land use changes over time and the type of information the Resilience Task Force could evaluate.

Thank you for the opportunity to testify.

The Waikiki Beach Special Improvement District Association (WBSIDA) is dedicated to enhancing the resilience of Waikīkī by ensuring the coordinated management and longterm sustainability of Waikiki Beach and nearshore waters. https://www.wbsida.org/



1050 Bishop Street #355 Honolulu, HI 96813

#### 2021-2022

Executive Committee Brian Wolf, President Nancy Cassandro,Past-President Judith Stilgenbauer,Trustee Kelsey Wai, VicePresident Ray Higa, Treasurer Caasi Shimono, Secretary Members-at-Large, David Sereda, Maui Mattew Higa, Oahu Nicole Swanson, Kauai Craig Duff, Kauai

Contact & Follow us: hawaii.asla.pres@gmail.com Instagram: www.instagram.com/hawaiia sla/ Facebook: www.facebook.com/HawaiiAS LA/ Blog: www.hawaiiasla.org/blog/

ASLA Founded 1899 Landscape Architects lead the stewardship, planning, and design of our built and natural environments

## Hawai'i Chapter American Society of Landscape Architects

1 March 2022

# Testimony presented before the

#### SENATE COMMITTEE ON WAYS AND MEANS

#### SB 2724 SD1 RELATING TO SEA LEVEL RISE ADAPTATION

Chair Dela Cruz, Vice Chair Keith-Agaran, and Members of the Committee on Ways and Means:

On behalf of the Executive Committee of the Hawaii Chapter of the American Society of Landscape Architects, I am writing in strong SUPPORT of SB 2724, which proposes a working group to develop a comprehensive Waikiki climate adaptation and resilience plan.

The content of SB 2724 is directly aligned with our organization's goals. Founded in 1899, ASLA is the professional association for landscape architects, representing more than 15,000 members around the world. Landscape architects lead the planning, design, and stewardship of healthy, equitable, safe, and resilient environments. Our profession plans and designs with nature to help communities reduce greenhouse gas emissions and adapt to a changing climate.

Our Hawaii chapter members play leading roles in developing sustainable design and development solutions, providing innovative nature-based and adaptive concepts that enable communities to better adapt to climate change and improve their resilience. Landscape architects are helping to shift Hawaii to a carbon neutral future.

We believe that the State needs to take aggressive and tangible planning and design action to prepare our vulnerable built environment for inevitable climate crisis impacts. In this context, we consider SB 2724—which requires the Office of Planning and Sustainable Development to convene a working group to develop a comprehensive Waikiki adaptation and resilience plan—a crucial and innovative step in the right direction.

On behalf of Hawaii ASLA, I urge you to vote in support of SB 2724. Thank you for the opportunity to testify on this bill.

Respectfully submitted,

Brian Wolf, ASLA, LEED AP

ASLA Hawaii Chapter President, 2021-22

hawaii.asla.pres@gmail.com

Hawaii Chapter ASLA is a 501(c)6 organization - TIN 99-6008845

Hawaii Chapter ASLA is a 501(c)6 organization - TIN 99-6008845

### <u>SB-2724-SD-1</u> Submitted on: 2/28/2022 3:52:20 PM Testimony for WAM on 3/3/2022 10:10:00 AM

Submitted By	Organization	<b>Testifier Position</b>	Remote Testimony Requested
Michael Press	Individual	Support	No

Comments:

My name is Michael Press. I am a teacher at Ilima Intermediate in Ewa Beach on Oahu. I support this bill. I ask that you do the same.

#### Testimony presented before the

#### SENATE COMMITTEE ON WAYS AND MEANS

#### SB 2724 SD1 RELATING TO SEA LEVEL RISE ADAPTATION

Chair Dela Cruz, Vice Chair Keith-Agaran, and Members of the Committee on Ways and Means:

My name is Judith Stilgenbauer, a landscape architect and professor in the School of Architecture at the University of Hawaii at Manoa. I am writing in strong **SUPPORT of SB 2724**. This personal testimony does not represent the position of University or the School of Architecture.

As an expert in planning and designing for climate and sea level rise adaptation, I applaud Senators Moriwaki, Acasio, Gabbard, Keith-Agaran, Lee, Misalucha, Rhoads, Ihara, San Buenaventura, and Shimabukuro for their vision in introducing this bill and the Committee on WTL for passing the measure with amendments.

Considering the state's pressing climate-crisis challenges and inevitable threats to our coastal built environment posed by sea level rise and ground water inundation, I view SB 2724—which requires the Office of Planning and Sustainable Development to convene a working group to develop a comprehensive Waikiki adaptation and resilience plan—as an innovative, timely, and much-needed piece of legislation. None less than the future of Hawaii's economy, tourism, livability, ecology, public health, and environmental justice are at stake.

Over the past several years, I was fortunate to lead a team of University of Hawaii Community Design Center (UHCDC) staff and students as Principal Investigator in our state-funded coastal resilience proof-of-concept research and design project entitled "South Shore Promenade and Open Space Network Study: Resilience and Connectivity by Design", which serves as a visionary educational tool aimed at fostering dialogue about long-term sea level rise adaptation scenarios and nature-based living shoreline design solution. We have been deeply grateful for the state legislature's foresight in supporting this work. The fact that this project was recently featured in a number of state and national-level publications and recognized with the Hawaii Chapter of the American Society of Landscape Architects' professional 2021 Award of Excellence (Analysis & Planning Category) and the Hawaii Chapter of the American Planning Association's 2021 Urban Design Award speaks to the significance and "currentness" of SB 2724's content and the type of forward-looking community planning work it proposes.

Hawaii needs models of innovative nature-based and adaptive concepts that enable communities to better prepare for climate change and improve their resilience.

For these and many other reasons, I urge you to consider voting in support SB 2724.

Thank you for the opportunity to testify on this bill.

Yours Sincerely, Judith Stilgenbauer, ASLA

#### TESTIMONY IN SUPPORT OF SB SB 2724 SD1 RELATING TO SEA LEVEL RISE ADAPTATION

Chair Dela Cruz, Vice Chair Keith-Agaran, and Members of the Committee on Ways and Means:

My name is Cathi Ho Schar. I am an Assistant Professor at the University of Hawai'i at Mānoa School of Architecture and the Director of the University of Hawai'i Community Design Center. This personal testimony does not represent the position of University of Hawai'i, the School of Architecture, or the University of Hawai'i Community Design Center.

I am testifying in support of SB 2724 related to sea level rise adaptation. My perspective on this bill is shaped by my experience directing the University of Hawai'i Community Design Center for the last 6 years, working with faculty and staff across university departments in partnership with over 12 public agencies. This bill reflects a timely, if not significantly overdue mobilization of subject matter experts, public and private partners, and residents to collectively address the future of Waikiki. This broad collaboration uniting government, university, and community partners is in direct alignment with my work as part of a state-serving university-based community design center.

I support a truly multi-disciplinary approach to this planning effort, drawing expertise from planning, architecture, landscape architecture, engineering, ocean and earth sciences, among others, to consider mitigating measures that holistically consider social, economic, urban, and ecological well-being. I am also pleased to see detailed outcomes of this bill, including concrete deliverables: urban and ecological designs to assist in visualizing scenarios; economic and technical assessments to explore feasibility; outreach strategies to ensure equitable processes; and timelines and action items to direct next steps. These are carefully considered scopes of work that represent feasible ways to move forward, critical to a long process of climate change and sea level rise adaptation.

Finally, the investment in this working group and resilience plan for Waikiki is small in contrast to the losses at stake. The recent collapse of a residence on the North Shore of O'ahu offers a sobering reminder of the urgency of this effort.

I urge this committee to pass SB 2724 SD 1.