

SB892

Measure Title: RELATING TO OMNIBUS HAWAI'I RESILIENCE AND SUSTAINABILITY STRATEGY.

Report Title: Hawai'i Resilience and Sustainability Strategy (§)

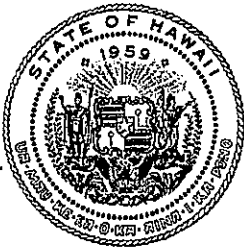
Description: Makes various appropriations for the Hawai'i resilience and sustainability strategy.

Companion:

Package: None

Current Referral: EDT/PSM/ENE, WAM

Introducer(s): ENGLISH, CHUN OAKLAND, GALUTERIA, Baker, Inouye, Nishihara, Ruderman



**DEPARTMENT OF BUSINESS,
ECONOMIC DEVELOPMENT & TOURISM**

DAVID Y. IGE
GOVERNOR

LUIS P. SALAVERIA
DIRECTOR

MARY ALICE EVANS
DEPUTY DIRECTOR

No. 1 Capitol District Building, 250 South Hotel Street, 5th Floor, Honolulu, Hawaii 96813
Mailing Address: P.O. Box 2359, Honolulu, Hawaii 96804
Web site: www.hawaii.gov/dbedt

Telephone: (808) 586-2355
Fax: (808) 586-2377

Statement of
LUIS P. SALAVERIA
Director
Department of Business, Economic Development and Tourism
before the
**SENATE COMMITTEES ON ECONOMIC DEVELOPMENT AND TECHNOLOGY
AND PUBLIC SAFETY, INTERGOVERNMENTAL AND MILITARY AFFAIRS
AND ENERGY AND ENVIRONMENT**
Wednesday, February 18, 2015
2:45 PM
State Capitol, Conference Room 016
in consideration of
SB 892
**RELATING TO OMNIBUS HAWAII RESILIENCE
AND SUSTAINABILITY STRATEGY.**

Chairs Wakai, Espero, and Gabbard, Vice Chairs Slom, Baker, and Green, and Members of the Committees.

The Department of Business, Economic Development and Tourism (DBEDT) supports the intent of SB 892 provided that its passage does not replace or adversely impact priorities in our Executive Budget. This bill appropriates funding for Hawaii resilience and sustainability strategy in the areas of broadband, joint emergency management, energy efficiency and smart grid, and water and sewer infrastructure.

DBEDT agrees that increased broadband capacity is critical to businesses and the growth of Hawaii's economy. The Broadband Task Force recommended that the State establish carrier-neutral, open-access fiber-optic cable landing stations to make it less costly and time-consuming for privately-financed transpacific cables to land in Hawaii.

DBEDT contracted for a specifications study in 2012 and transmitted the final report to the Ways and Means Committee in 2014. The study determined the preferred system specifications for military and business, and preliminary estimates of cost for plan, design and construction. DBEDT is assessing the various financing options available to build the landing sites. The State could partner with the private sector for operation of the landing sites.

We defer to the other departments for comments on portions that are related to their programs. Thank you for the opportunity to offer these comments.

DAVID IGE
GOVERNOR



Elaine Young
Acting Director

SHAN TSUTSUI
LIEUTENANT GOVERNOR

**STATE OF HAWAII
DEPARTMENT OF LABOR AND INDUSTRIAL RELATIONS**

830 PUNCHBOWL STREET, ROOM 321
HONOLULU, HAWAII 96813
www.hawaii.gov/lebor
Phone: (808) 588-8642 / Fax: (808) 588-9099
Email: dflr.director@hawaii.gov

February 13, 2015

The Honorable Glenn Wakai, Chair
Committee on Economic Development
and Technology
The State Senate
State Capitol, Room 216
Honolulu, Hawaii 96813

The Honorable Will Espero, Chair
Committee on Public Safety,
Intergovernmental and Military Affairs
The State Senate
State Capitol, Room 206
Honolulu, Hawaii 96813

The Honorable Mike Gabbard, Chair
Committee on Energy and Environment
The State Senate
State Capitol, Room 201
Honolulu, Hawaii 96813

Dear Chairs Wakai, Espero, and Gabbard

Subject: Senate Bill (SB) 892
Relating to Omnibus Hawaii Resilience and Sustainability Strategy

I am Manuel P. Neves, Chair of the Hawaii State Fire Council (SFC) and Fire Chief of the Honolulu Fire Department (HFD). The SFC and the HFD support the intent of SB 892, which makes appropriations for a Hawaii resilience and sustainability strategy in the areas of broadband, joint emergency management, energy efficiency and smart grid, and water and sewer infrastructure.

We believe this measure seeks to improve first responder communications across jurisdictions and among different agencies. Having the ability to communicate quickly

The Honorable Glenn Wakai, Chair
The Honorable Will Espero, Chair
The Honorable Mike Gabbard, Chair

Page 2

February 13, 2014

and effectively at an emergency incident is a critical component for effecting a successful outcome. Any step to secure funds for a state training facility would greatly enhance natural and manmade disaster preparedness that are currently not available to county first responders. We respectfully request consideration to participate in the planning phase of the center.

The SFC and the HFD urge your committees' support on the passage of SB 892.

Should you have questions, please contact SFC Administrator Socrates Bratakos at 723-7105 or sbratakos@honolulu.gov.

Sincerely,

A handwritten signature in black ink, appearing to read 'M. P. Neves', with a stylized flourish at the end.

MANUEL P. NEVES
Chair

MPN/LR:clc

Written Statement of
ROBBIE MELTON
Executive Director & CEO
High Technology Development Corporation
before the
**SENATE COMMITTEES ON
ECONOMIC DEVELOPMENT & TECHNOLOGY
AND
PUBLIC SAFETY, INTERGOVERNMENTAL AND MILITARY AFFAIRS
AND
ENERGY AND ENVIRONMENT**

Wednesday, February 18, 2015
2:45 p.m.
State Capitol, Conference Room 016
In consideration of

**SB892 RELATING TO OMNIBUS HAWAII RESILIENCE AND SUSTAINABILITY
STRATEGY.**

Chairs Wakai, Espero and Gabbard, Vice Chairs Slom, Baker and Green, and Members of the Committees on Economic Development & Technology, Public Safety, Intergovernmental and Military Affairs and Energy and Environment.

The High Technology Development Corporation (HTDC) **offers comments** on SB892, Part II sections 3 and 4, and Part III section 5 relating to Hawaii's Resilience and Sustainability Strategy.

As part of HTDC's vision to create 80,000 new innovation jobs in Hawaii earning \$80,000 or more by 2030, HTDC supports initiatives aimed at improving Hawaii's high speed broadband infrastructure and improving Hawaii's reputation as a place to do business.

HTDC supports the intent of sections 3 and 4 appropriating resources for the Hawaii broadband initiative and broadband cable landing sites. Prioritizing broadband infrastructure remains a commonality for successful economic development efforts nationwide like in Chattanooga, Kansas City and the Research Triangle. A 2014 study by the Fiber to the Home Council Americas suggests that "gigabit broadband communities have per capita GDP that is 1.1 percent higher than communities with little to no availability of gigabit services." HTDC looks forward to working with the Department of Business, Economic Development and Tourism on these projects.

HTDC supports the intent of section 5 as we have been working with the Office of Information Management and Technology on the cybersecurity portion of this project at the Mililani High Tech Park site.

We defer to the appropriate departments regarding the budget impact.

Thank you for the opportunity to offer these comments.

SENT VIA EMAIL

February 17, 2015

Senator Glenn Wakai
Chair, Committee on Economic Development and Technology
Senator Will Espero
Chair, Committee on Public Safety, Intergovernmental and Military Affairs
Senator Mike Gabbard
Chair, Committee on Energy and Environment
Hearing on Senate Bill 892
Relating to Omnibus Hawai'i Resilience and Sustainability Strategy
State Capitol, Conference Room 016

Aloha Chairs Wakai, Espero and Gabbard !

Enterprise Honolulu stands in strong support of Senate Bill 892 that addresses our critical infrastructure needs in Hawaii.

The Economic Development Alliance of Hawaii, (including all Economic Development Boards throughout the State) will be assisting the State Office of Planning in the design and implementation of the 2015-2020 Statewide Comprehensive Economic Development Strategy (CEDS). Hawaii's Resiliency will be at the forefront of conversations during this process, with the goal of achieving public-private partnerships on the ground in all Counties.

Senate Bill 892 "reboots" the roadmap to planning and the attention needed to be given to designing a healthier future for Hawaii. I request that you please pass this measure.

Please feel free to contact me directly should you have any questions.

Sincerely,

Pono Shim
President and CEO
Enterprise Honolulu, Oahu Economic Development Board


ENTERPRISE
HONOLULU
THE BUSINESS CLIMATE OF PARADISE

February 17, 2015



Senator Glenn Wakai, Chair, Committee on Economic Development and Technology
Senator Will Espero, Chair, Committee on Public Safety, Intergovernmental, and Military Affairs
Senator Mike Gabbard, Chair, Committee on Energy and Environment
Joint hearing on Senate Bill 892, Relating to Omnibus Hawaii Resilience and Sustainability Strategy
State Capitol, Conference Room 016

Professor Steve Chan, PhD
Chair, Swansea University Network/Relationship Science Analytics PhD Program
Director, Sensemaking- U.S. Pacific Command Fellowship,
Director, Pacific-Asia Institute for Resilience and Sustainability (AIRS)
4365 Executive Drive, Suite 670
San Diego, CA 92121

RE: Support for SB892

Dear Chair Wakai, Chair Espero, Chair Gabbard, and Members,

Support for a bill that provides a strategy for developing broadband capacity and its applications for building more resilient critical infrastructure throughout the Hawaiian Islands is vital for the future vitality of the state. Broadband or high speed internet access can provide Hawaii an increased level of access to a wide range of resources, services, and products that can enhance the everyday life of citizens throughout the state in a variety of ways, such as:

- **Public Safety and Homeland Security:** Broadband enables interoperable broadband public safety networks, which connect first responders in an emergency, and allows emergency workers to communicate across disparate networks, between jurisdictions, and across different agencies – critical capabilities at the scene of an emergency. Police, fire, and emergency medical personnel can react to crises quickly, thereby fostering cooperation among numerous public safety agencies. High speed Internet improves victim-to-responder communications by enabling instantaneous digital transmissions to and from members of a connected community.
- **Economic Development/E-Commerce:** Businesses need broadband to compete on a global level and seek out high-speed broadband access when choosing to grow their business. When it comes to finding jobs, or applying for jobs, broadband Internet access is essential. By way of example, the FCC recently estimated that 80% of Fortune 500 companies only advertised for positions online. High-speed access accelerates business development, and provides new opportunities for innovation, expansion, and e-commerce. Communities that well connect their residents create wealth and attract business investments.
- **Education:** Broadband Internet access levels the playing field when it comes to educational resources. Children in inner-city neighborhoods, affluent homes, and farm communities can all access the same resources. Textbook materials can be complemented with online resources, and children can access all of these materials from school and home; these children are our future leaders.
- **Healthcare:** Telehealth & Telemedicine have become an important element of efficient healthcare delivery, which promotes better patient care, and even saves lives. With medical costs rising, and the availability of insurance limited, the cost-saving benefits of telemedicine are also

important. Broadband facilitates efficiency in healthcare delivery and creates opportunities for doctors and healthcare specialists to work together as a virtual team – with specialists located in any part of the world. A family practitioner in a small rural town can send medical images of a patient, to a specialist in any part of the world for an instant expert consultation. Test results from a hospital emergency room or laboratory can be sent to a radiologist or doctor in seconds, making rapid diagnosis a reality, and doctors are also now sending prescriptions directly from their offices to pharmacies, greatly reducing errors, with automatic checking for interactions.

- **Communications:** Being digitally connected means that communications can improve people's lives on the job, in their personal lives, and unite people with disabilities. Broadband empowers people with disabilities and removes barriers that keep them from participating in everyday activities. In addition to general communications, social media also keeps people connected, and can facilitate meetings and communications, whereby face-to-face interaction was previously required. Broadband enables people to work from home, saving time and expenses, and greatly assists with environment impact considerations. Employers have been encouraging this concept to save overhead expenses and improve employee satisfaction. Smart Grid technology will also enable homeowners to monitor energy usage in real time, adjust usage patterns to save energy costs, and aid in conservation efforts. Energy conservation measures can be started, with real-time savings calculated.

Policy makers are now frequently defining broadband as a necessity, in the same category as electricity, water, and phone service. Broadband is no longer a perk or special benefit. For communities, it is a critical piece of infrastructure for attracting new capital investment. As with electric service, the reliability of broadband service is heavily scrutinized to ensure that the operation will not be placed offline (especially for information-intensive projects like data centers) or that the risk of being offline is minimal. The competitiveness of the service is also important. Locations with numerous providers have an advantage because competitiveness will drive up speeds and drive down cost.

Locations with inadequate connectivity are quickly passed over for projects requiring broadband. Communities lacking broadband infrastructure make the process of elimination easier for investment decision-makers and influencers. That said, merely having broadband likely places a location on a level playing field with other communities, but having a robust plan for how broadband is integrated gives your community a competitive advantage. In today's landscape, wherein "being connected" is central to becoming a critical node within the global supply chain, and particularly for the case whereby Hawaii desires to enhance its economic posture, the discussed broadband element of critical infrastructure is, perhaps, the key ingredient for all of Hawaii's future endeavors ranging from smart grid to becoming a cyber leader.

Very Respectfully,



Prof. Steve Chan, PhD

From: mailinglist@capitol.hawaii.gov
Sent: Tuesday, February 17, 2015 2:30 PM
To: EDT Testimony
Cc: franosj@gmail.com
Subject: Submitted testimony for SB892 on Feb 18, 2015 14:45PM

SB892

Submitted on: 2/17/2015

Testimony for EDT/PSM/ENE on Feb 18, 2015 14:45PM in Conference Room 016

Submitted By	Organization	Testifier Position	Present at Hearing
Stephen Frano	Individual	Support	Yes

Comments: I strongly support SB892. Developing a strategy that supports the development of broadband is essential to the growth and prosperity of the State of Hawaii. This bill lays out how we can leverage partnerships to develop our broadband capacity and the community applications that can drive future innovation and investment in our state. As an archipelago state, we can use our unique features to explore how technology can improve our infrastructure as the necessary backbone of our communities. Allowing Hawaii to be a place for innovation on how we power, grow, and communicate will set us off as no other island state or nation has been able to do.

Please note that testimony submitted less than 24 hours prior to the hearing, improperly identified, or directed to the incorrect office, may not be posted online or distributed to the committee prior to the convening of the public hearing.

Do not reply to this email. This inbox is not monitored. For assistance please email webmaster@capitol.hawaii.gov

From: mailinglist@capitol.hawaii.gov
Sent: Tuesday, February 17, 2015 2:48 PM
To: EDT Testimony
Cc: rich@richarddberry.com
Subject: Submitted testimony for SB892 on Feb 18, 2015 14:45PM
Attachments: SB 892_Berry Testimony 18 Feb.docx

SB892

Submitted on: 2/17/2015

Testimony for EDT/PSM/ENE on Feb 18, 2015 14:45PM in Conference Room 016

Submitted By	Organization	Testifier Position	Present at Hearing
Richard Berry	Individual	Support	Yes

Comments:

Please note that testimony submitted less than 24 hours prior to the hearing, improperly identified, or directed to the incorrect office, may not be posted online or distributed to the committee prior to the convening of the public hearing.

Do not reply to this email. This inbox is not monitored. For assistance please email webmaster@capitol.hawaii.gov

Hawaii's population and level of development continue to increase, and this growth over the past five decades has placed tremendous pressure on our aging and brittle infrastructure, and places the State at great risk. Perhaps the most complex challenge in developing a sustainable and resilient community is the non-technological attributes, such as fostering a culture of innovation and developing partnerships to implement new ideas.

The objective of the omnibus bill is to provide the foundation of a comprehensive approach to specifically address the vulnerabilities to our aging critical infrastructure while building a technologically advanced, knowledge-based workforce, thus providing the foundation for Hawaii's future. This bill is focused on six specific areas that require immediate attention for the future livelihood of our State, including (1 Smart Grid; (2 Broadband (3 Water and Sewer (4 Joint Emergency Management Center (5 Education (6 Workforce Development.

The business model to resource each of these areas rests on the implementation of a new trans-Pacific broadband cable to provide the necessary connectivity for workforce development and economic growth. The Pacific Asia Institute for Resilience and Sustainability has designed a research and development initiative that supports the deployment of a transpacific cable through a partnership with multiple sectors in private industry that have a real interest in demonstrating the commercial applicability using sensors and new edge-processing analytics. This initiative will use the transpacific cable, unmanned aerial vehicles (UAVs), next generation buoys, and advanced satellites to develop an operational framework for improving ocean hazard modeling — weather and seismic events (e.g. tsunami).

This partnership allows the State to develop a knowledge-based workforce, diversify the economic base by promoting research, education and technological innovation and simultaneously strengthen our critical infrastructure.

I recommend supporting this bill as a means to comprehensively address our state's critical infrastructure.